

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927609

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH2-1 - 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	12/01/2023
Sampling Location:	AH2-1 - 2
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Water Content (%) = 19.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 30 March 2023
Test Report Ref: TR 927610

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

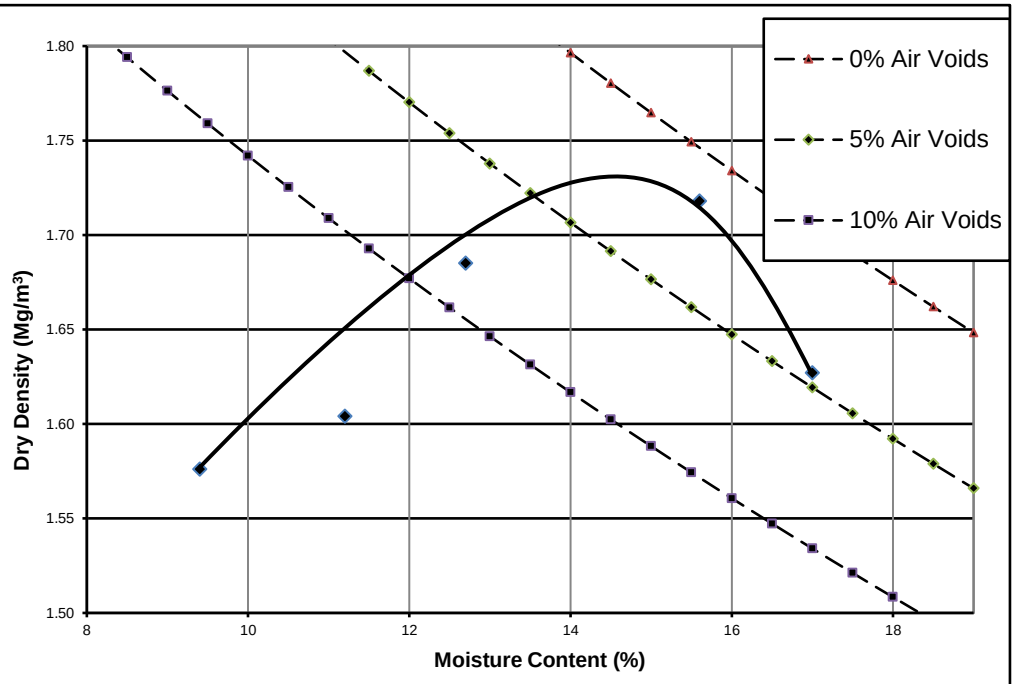
No
S107420
AH2-1 - 2
Unknown
16/12/2022
29/03/2023
AH2-1 - 2
Granular Material

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **JA**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X**
Separate batches

RESULTS:

Particle Density: 2.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11
Retained on 20mm Sieve:	41
Moisture Content (%)	Dry Density Mg/m ³
9.4	1.58
11.2	1.60
12.7	1.69
15.6	1.72
17.0	1.63
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.74



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 20 February 2023
Test Report Ref: TR 927611

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH2-1 - 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AH2-1 - 2
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	DW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.36 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.45 Mg/m ³
Apparent Particle density =	1.50 Mg/m ³
Water absorption (of dry mass) =	6.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927612

Page 1 of 1

LABORATORY TEST REPORT

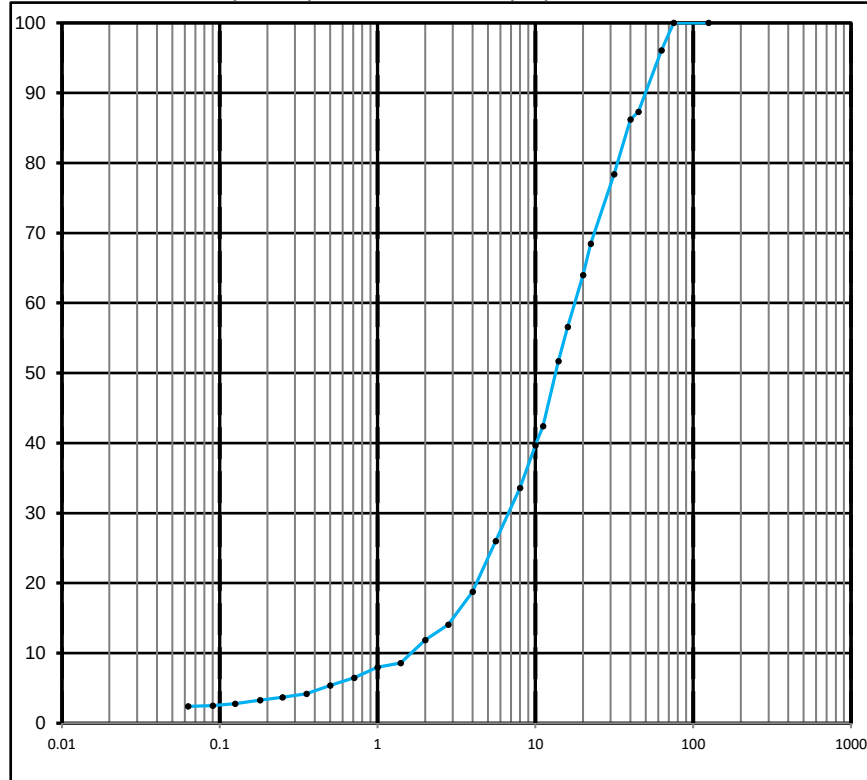
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S107420	Method of Sampling:	Unknown
Client Ref. No:	AH4-1 - 2	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	Unknown	Tested By:	BR
Date of Receipt at Lab:	16/12/2022		
Date of Start of Test:	12/01/2023		
Sampling Location:	AH4-1 - 2		
Material Description	Granular Material		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	96	
45.0 mm	87	
40.0 mm	86	
31.5 mm	78	
22.4 mm	69	
20.0 mm	64	
16.0 mm	57	
14.0 mm	52	
11.2 mm	42	
10.0 mm	40	
8.0 mm	34	
5.6 mm	26	
4.0 mm	19	
2.8 mm	14	
2.0 mm	12	
1.4 mm	9	
1.0 mm	8	
0.710 mm	6	
0.500 mm	5	
0.355 mm	4	
0.250 mm	4	
0.180 mm	3	
0.125 mm	3	
0.090 mm	2	
0.063 mm	2.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927613

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH4-1 - 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	12/01/2023
Sampling Location:	AH4-1 - 2
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 20 February 2023
Test Report Ref: TR 927615

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH4-1 - 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AH4-1 - 2
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	DW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	3.21 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.27 Mg/m ³
Apparent Particle density =	3.43 Mg/m ³
Water absorption (of dry mass) =	2.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 21 February 2023
Test Report Ref: TR 927616

Page 1 of 1

LABORATORY TEST REPORT

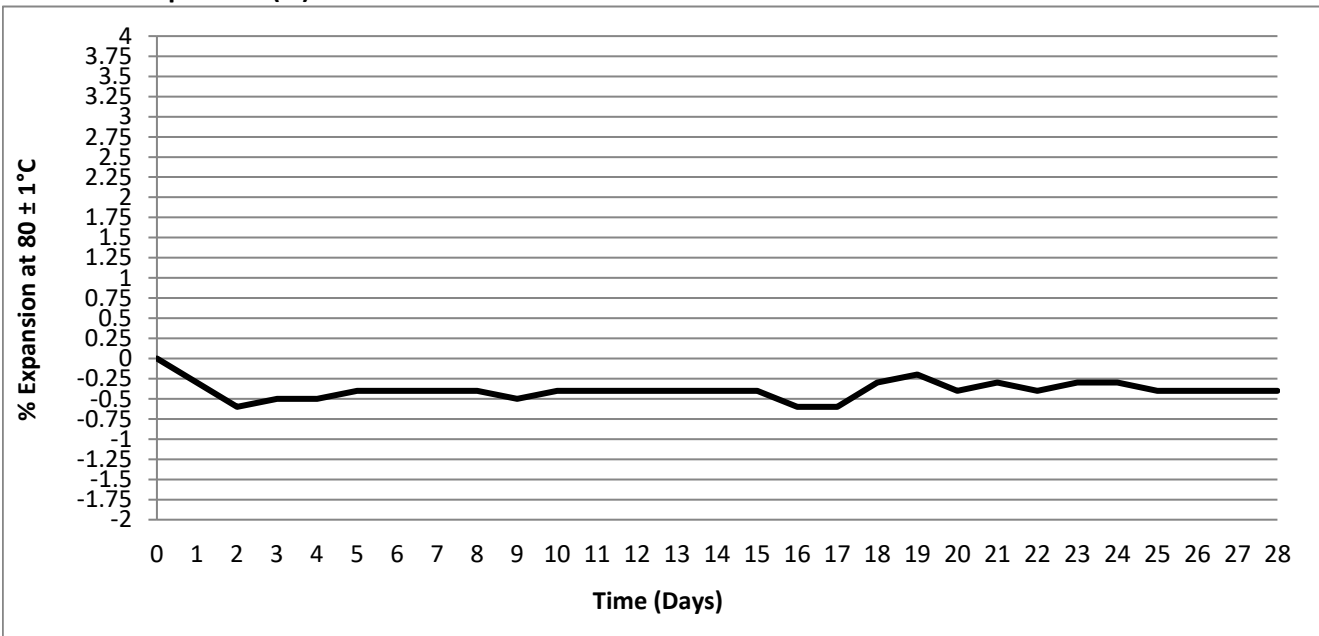
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH4-1 - 2
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AH4-1 - 2
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.38
Maximum Expansion (%) = -0.2



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 36

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927617

Page 1 of 1

LABORATORY TEST REPORT

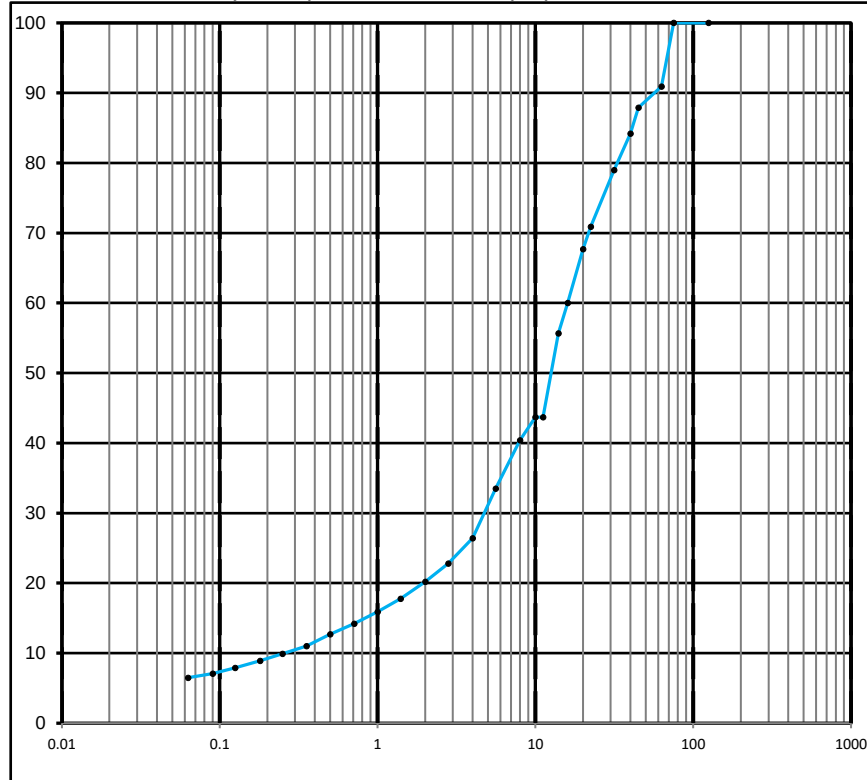
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S107420	Method of Sampling:	Unknown
Client Ref. No:	AH5-1 - 2.7	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	Unknown	Tested By:	BR
Date of Receipt at Lab:	16/12/2022		
Date of Start of Test:	12/01/2023		
Sampling Location:	AH5-1 - 2.7		
Material Description	Granular Material		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	91	
45.0 mm	88	
40.0 mm	84	
31.5 mm	79	
22.4 mm	71	
20.0 mm	68	
16.0 mm	60	
14.0 mm	56	
11.2 mm	44	
10.0 mm	44	
8.0 mm	40	
5.6 mm	34	
4.0 mm	26	
2.8 mm	23	
2.0 mm	20	
1.4 mm	18	
1.0 mm	16	
0.710 mm	14	
0.500 mm	13	
0.355 mm	11	
0.250 mm	10	
0.180 mm	9	
0.125 mm	8	
0.090 mm	7	
0.063 mm	6.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927618

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH5-1 - 2.7
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	12/01/2023
Sampling Location:	AH5-1 - 2.7
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 May 2023
Test Report Ref: TR 927619

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

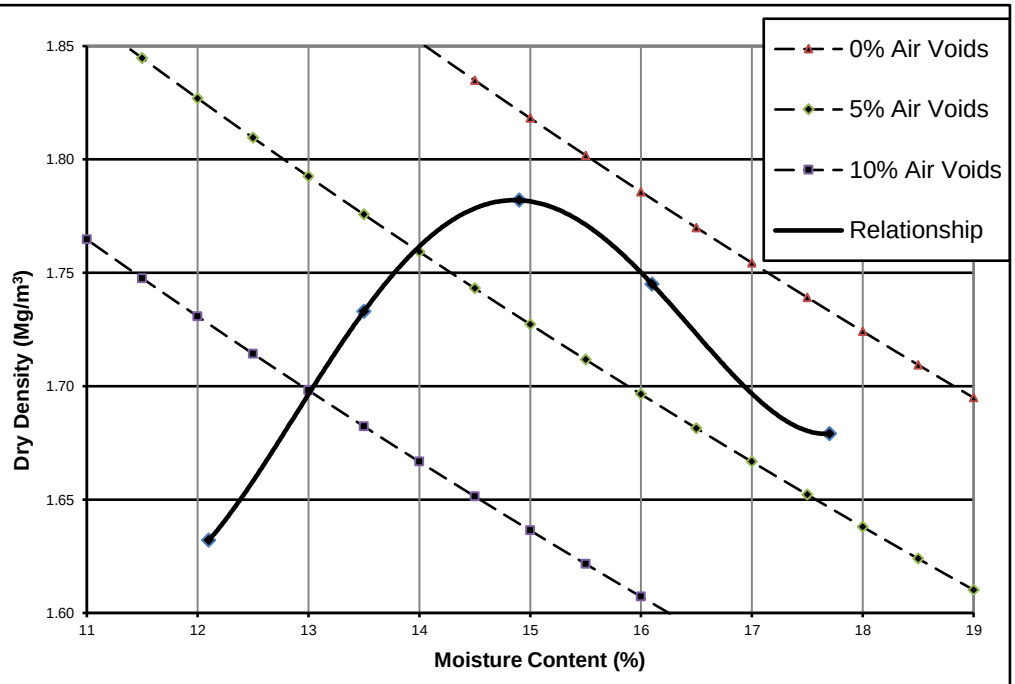
No
S107420
AH5-1 - 2.7
Unknown
16/12/2022
03/05/2023
AH5-1 - 2.7
Granular Material

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **JA**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X**
Separate batches

RESULTS:

Particle Density: 2.5Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8
Retained on 20mm Sieve:	42
Moisture Content (%)	Dry Density Mg/m ³
12.1	1.63
13.5	1.73
14.9	1.78
16.1	1.75
17.7	1.68
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.78



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 20 February 2023
Test Report Ref: TR 927620

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AH5-1 - 2.7
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AH5-1 - 2.7
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	DW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.37 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.47 Mg/m ³
Apparent Particle density =	2.64 Mg/m ³
Water absorption (of dry mass) =	4.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Chantelle Kopec-Williams Job Coordinator
---------------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927621

Page 1 of 1

LABORATORY TEST REPORT

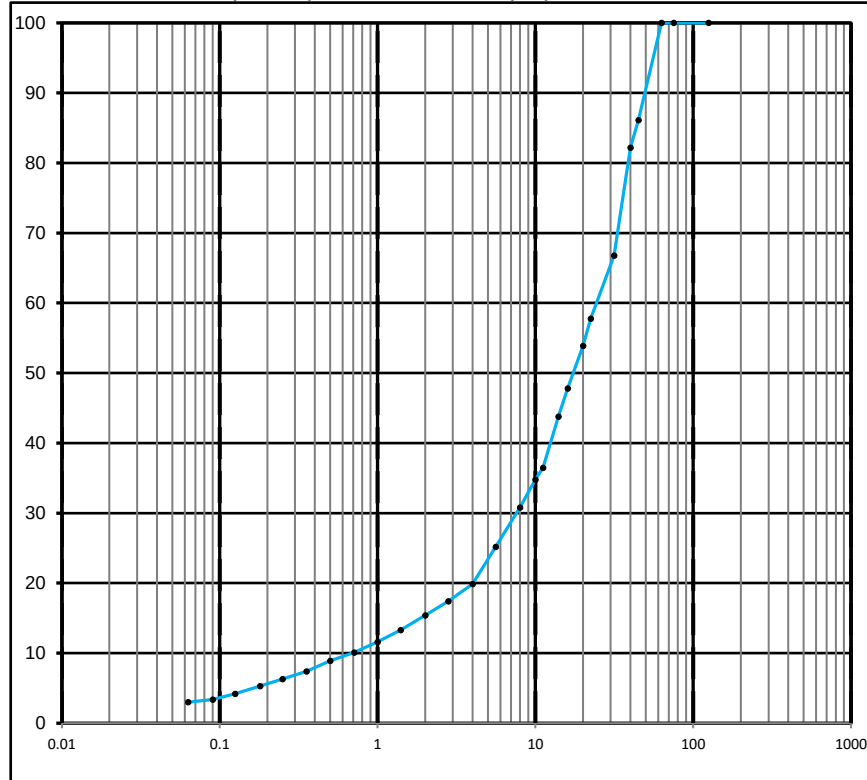
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S107420	Method of Sampling:	Unknown
Client Ref. No:	AI2-1 - 1.3	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	Unknown	Tested By:	BR
Date of Receipt at Lab:	16/12/2022		
Date of Start of Test:	12/01/2023		
Sampling Location:	AI2-1 - 1.3		
Material Description	Granular Material		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	86	
40.0 mm	82	
31.5 mm	67	
22.4 mm	58	
20.0 mm	54	
16.0 mm	48	
14.0 mm	44	
11.2 mm	37	
10.0 mm	35	
8.0 mm	31	
5.6 mm	25	
4.0 mm	20	
2.8 mm	17	
2.0 mm	15	
1.4 mm	13	
1.0 mm	12	
0.710 mm	10	
0.500 mm	9	
0.355 mm	7	
0.250 mm	6	
0.180 mm	5	
0.125 mm	4	
0.090 mm	3	
0.063 mm	3.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 31 January 2023
Test Report Ref: TR 927622

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AI2-1 - 1.3
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	12/01/2023
Sampling Location:	AI2-1 - 1.3
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 16 March 2023
Test Report Ref: TR 927623

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

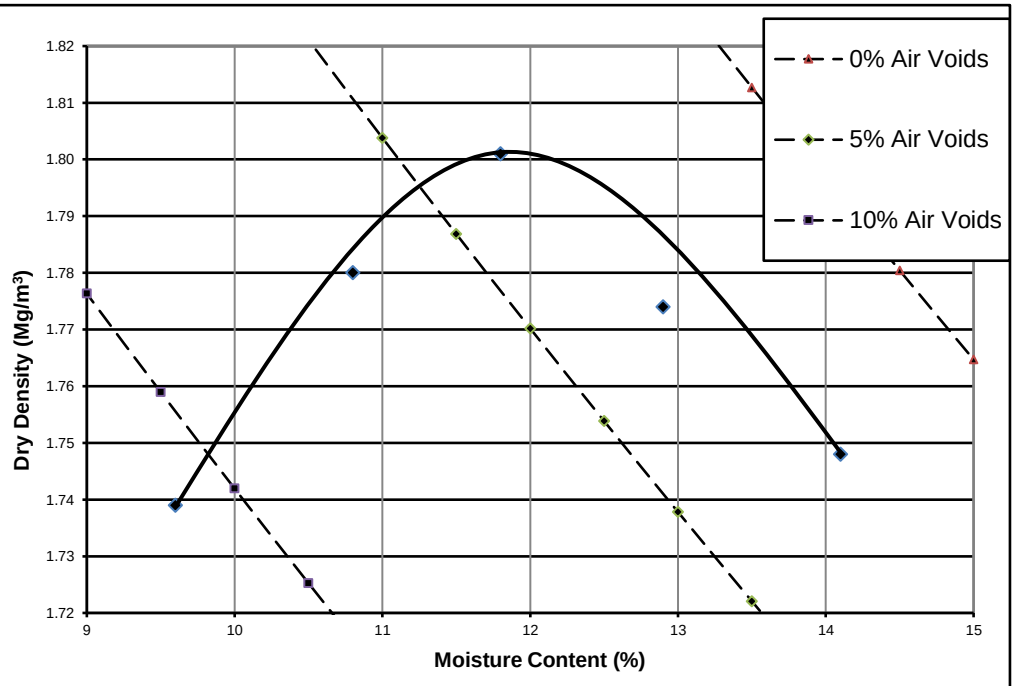
No
S107420
AI2-1 - 1.3
Unknown
16/12/2022
09/02/2023
AI2-1 - 1.3
Granular Material

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **JA**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X**
Separate batches

RESULTS:

Particle Density: 2.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	21
Retained on 20mm Sieve:	42
Moisture Content (%)	Dry Density Mg/m ³
9.6	1.74
10.8	1.78
11.8	1.80
12.9	1.77
14.1	1.75
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.80



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 20 February 2023
Test Report Ref: TR 927624

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AI2-1 - 1.3
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AI2-1 - 1.3
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	DW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.25 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.35 Mg/m ³
Apparent Particle density =	2.49 Mg/m ³
Water absorption (of dry mass) =	4.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Chantelle Kopec-Williams Job Coordinator
---------------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 21 February 2023
Test Report Ref: TR 927625

Page 1 of 1

LABORATORY TEST REPORT

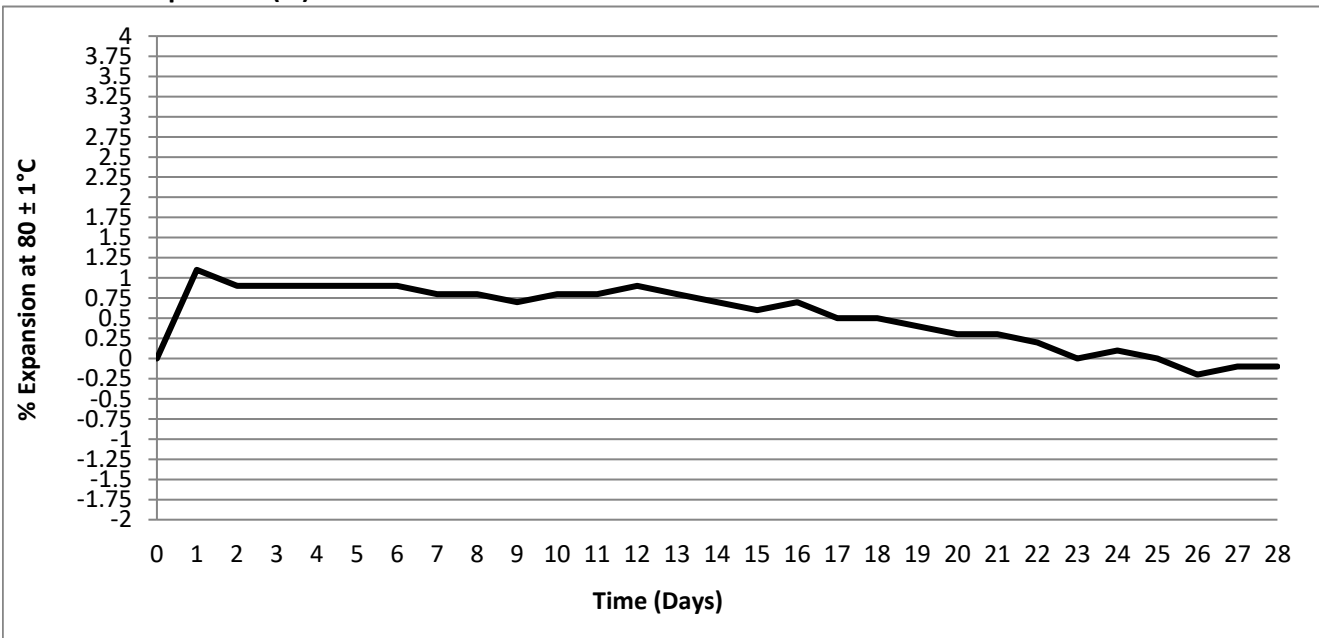
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S107420
Client Ref. No:	AI2-1 - 1.3
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	16/12/2022
Date of Start of Test:	20/02/2023
Sampling Location:	AI2-1 - 1.3
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular Material
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.07
Maximum Expansion (%) = 1.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 30

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 11 May 2023
Test Report Ref: TR 952084

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

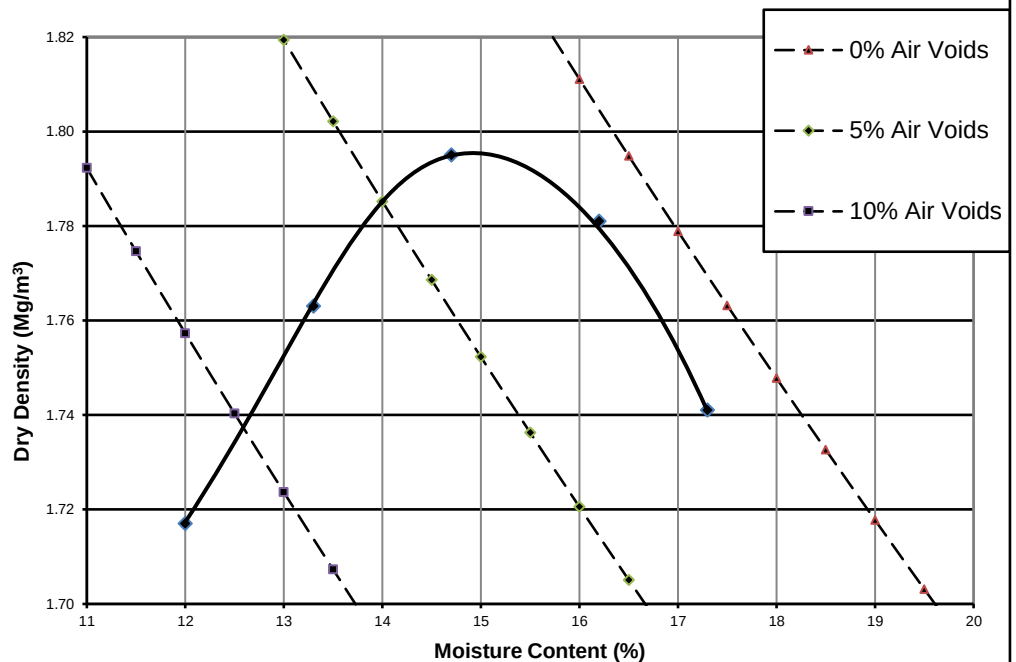
No
S107420
AH4-1 - 2
Unknown
16/12/2022
11/05/2023
AH4-1 - 2
Granular Material

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **Josh Alford**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X**
Separate batches

RESULTS:

Particle Density: 2.55Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11
Retained on 20mm Sieve:	37
Moisture Content (%)	Dry Density Mg/m ³
12.0	1.72
13.3	1.76
14.7	1.80
16.2	1.78
17.3	1.74
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.80



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams

Chantelle Kopec-Williams
Job Coordinator

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026502

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

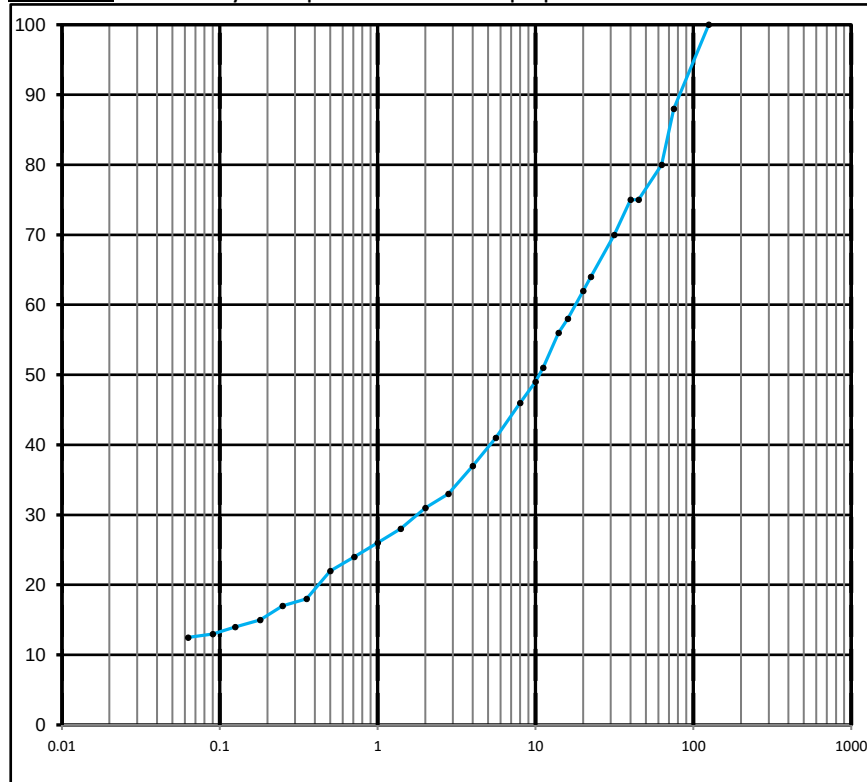
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AO5-1 @ 1.20m	Sampled By:	Client (Test results apply to sample as received)21
Date and Time of Sampling:	21/03/2024	Tested By:	BR
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AO5-1 @ 1.20m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	88	
63.0 mm	80	
45.0 mm	75	
40.0 mm	75	
31.5 mm	70	
22.4 mm	64	
20.0 mm	62	
16.0 mm	58	
14.0 mm	56	
11.2 mm	51	
10.0 mm	49	
8.0 mm	46	
5.6 mm	41	
4.0 mm	37	
2.8 mm	33	
2.0 mm	31	
1.4 mm	28	
1.0 mm	26	
0.710 mm	24	
0.500 mm	22	
0.355 mm	18	
0.250 mm	17	
0.180 mm	15	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.5	

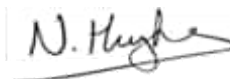
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026503

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

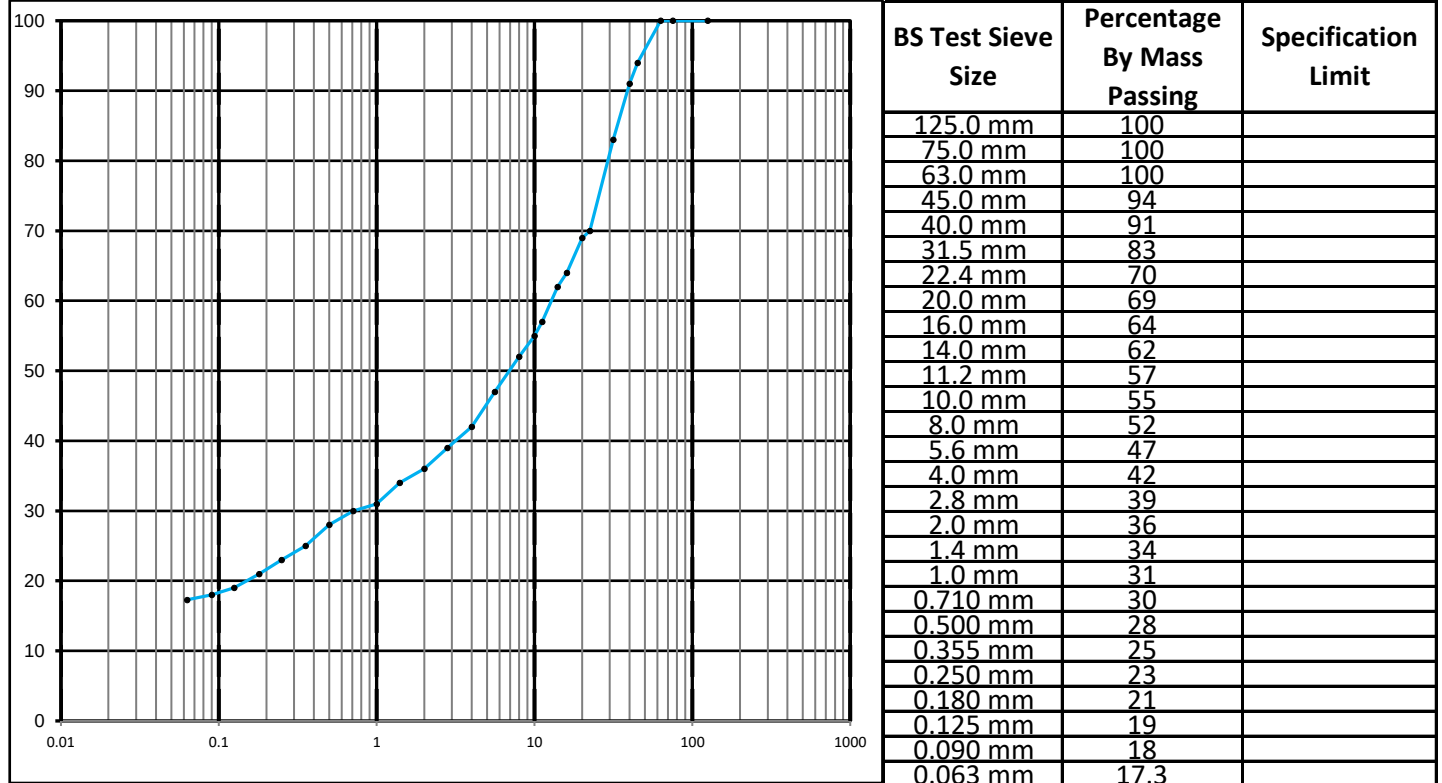
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AP5-1 @ 1.60m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	EK
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AP5-1 @ 1.60m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



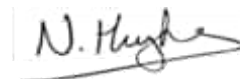
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026504

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

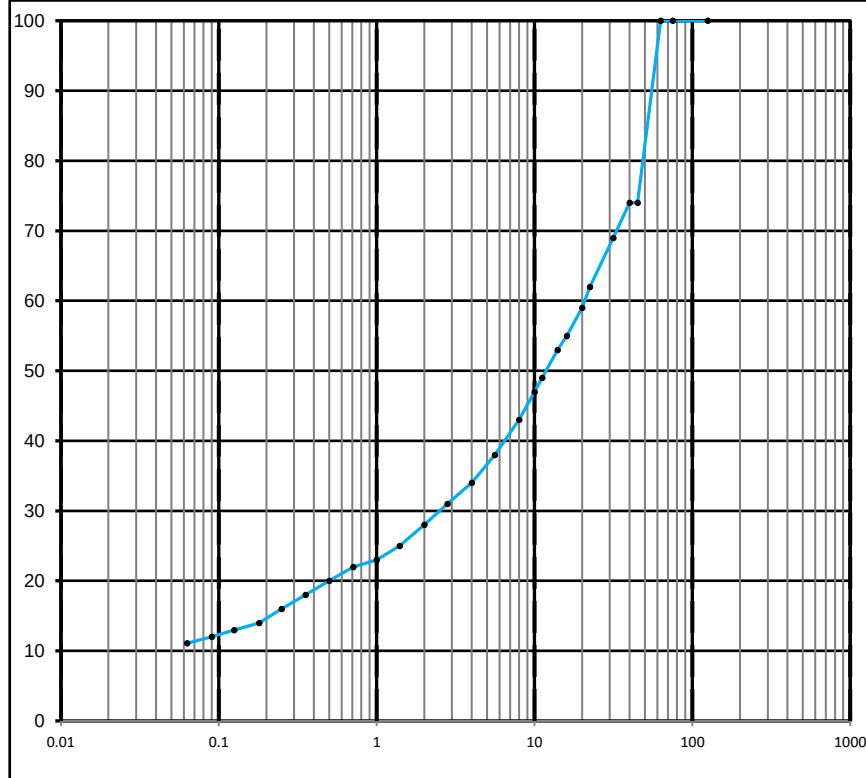
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AO6-1 @ 0.90m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	EK
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AO6-1 @ 0.90m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	74	
40.0 mm	74	
31.5 mm	69	
22.4 mm	62	
20.0 mm	59	
16.0 mm	55	
14.0 mm	53	
11.2 mm	49	
10.0 mm	47	
8.0 mm	43	
5.6 mm	38	
4.0 mm	34	
2.8 mm	31	
2.0 mm	28	
1.4 mm	25	
1.0 mm	23	
0.710 mm	22	
0.500 mm	20	
0.355 mm	18	
0.250 mm	16	
0.180 mm	14	
0.125 mm	13	
0.090 mm	12	
0.063 mm	11.1	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes

Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026505

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

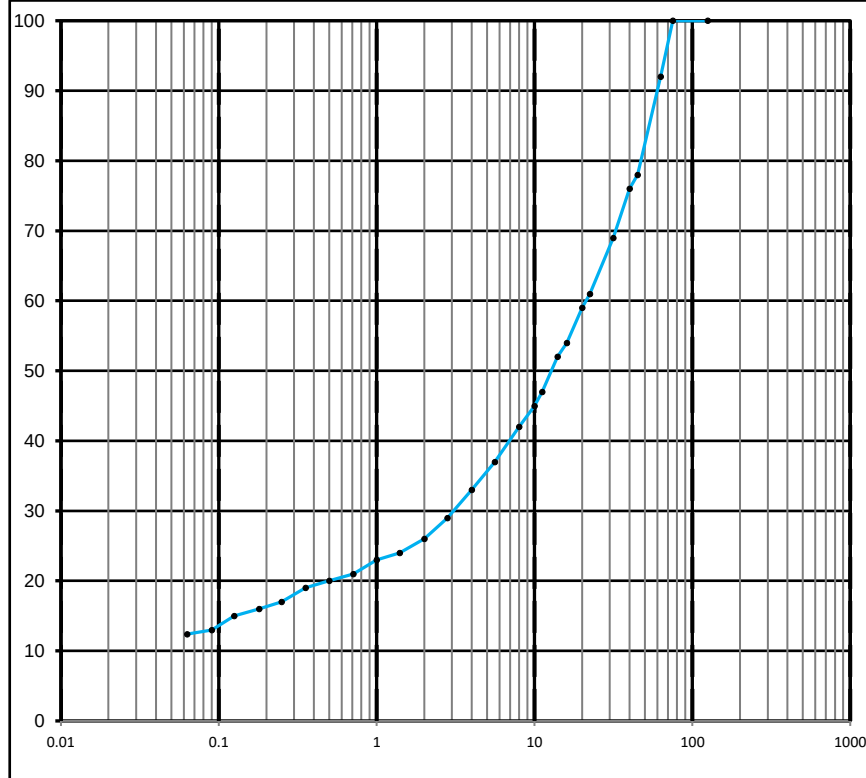
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AK9-1 @ 0.80m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	JH
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AK9-1 @ 0.80m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	92	
45.0 mm	78	
40.0 mm	76	
31.5 mm	69	
22.4 mm	61	
20.0 mm	59	
16.0 mm	54	
14.0 mm	52	
11.2 mm	47	
10.0 mm	45	
8.0 mm	42	
5.6 mm	37	
4.0 mm	33	
2.8 mm	29	
2.0 mm	26	
1.4 mm	24	
1.0 mm	23	
0.710 mm	21	
0.500 mm	20	
0.355 mm	19	
0.250 mm	17	
0.180 mm	16	
0.125 mm	15	
0.090 mm	13	
0.063 mm	12.4	

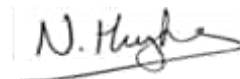
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes

Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026506

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

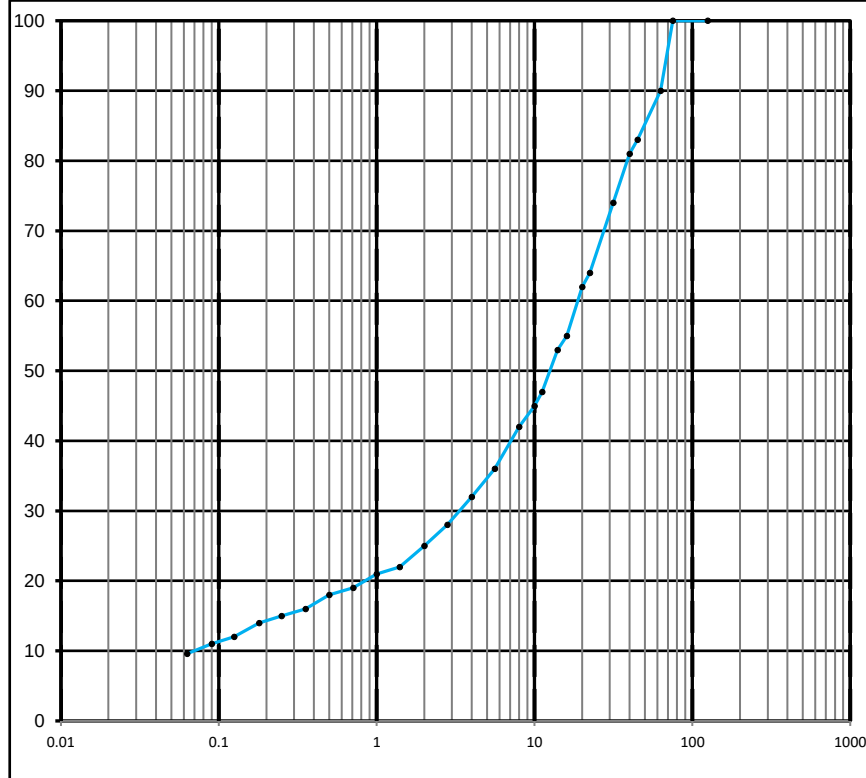
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AK8-1 @ 1.45m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	JH
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AK8-1 @ 1.45m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	90	
45.0 mm	83	
40.0 mm	81	
31.5 mm	74	
22.4 mm	64	
20.0 mm	62	
16.0 mm	55	
14.0 mm	53	
11.2 mm	47	
10.0 mm	45	
8.0 mm	42	
5.6 mm	36	
4.0 mm	32	
2.8 mm	28	
2.0 mm	25	
1.4 mm	22	
1.0 mm	21	
0.710 mm	19	
0.500 mm	18	
0.355 mm	16	
0.250 mm	15	
0.180 mm	14	
0.125 mm	12	
0.090 mm	11	
0.063 mm	9.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

N. Hughes

Neil Hughes

Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026507

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

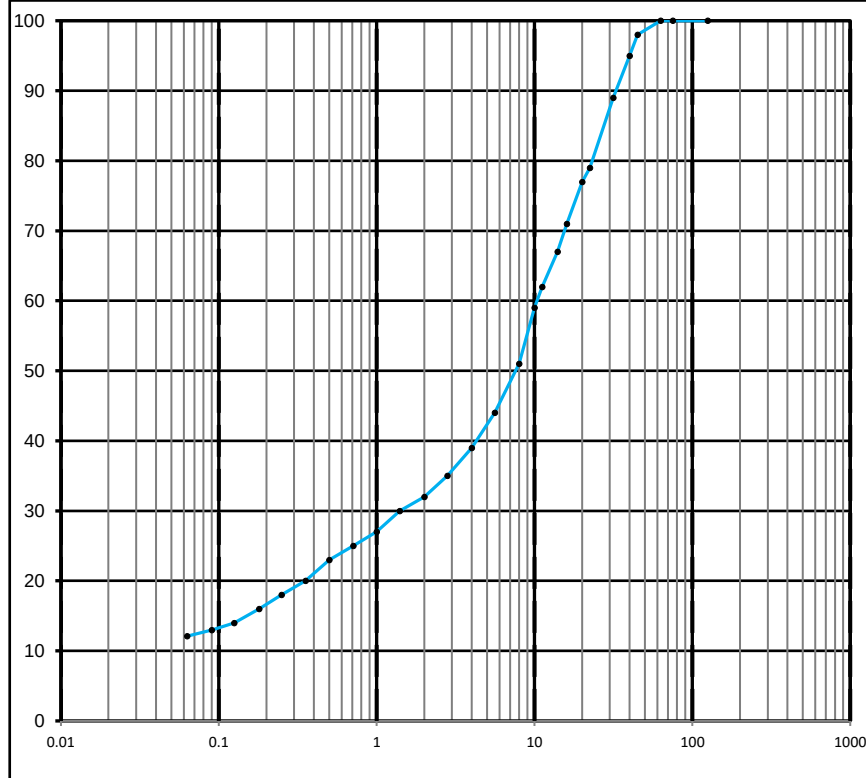
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AL9-1 @ 2.20m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	JH
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AL9-1 @ 2.20m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	98	
40.0 mm	95	
31.5 mm	89	
22.4 mm	79	
20.0 mm	77	
16.0 mm	71	
14.0 mm	67	
11.2 mm	62	
10.0 mm	59	
8.0 mm	51	
5.6 mm	44	
4.0 mm	39	
2.8 mm	35	
2.0 mm	32	
1.4 mm	30	
1.0 mm	27	
0.710 mm	25	
0.500 mm	23	
0.355 mm	20	
0.250 mm	18	
0.180 mm	16	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.1	

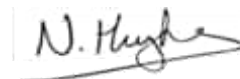
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 17 April 2024
Test Report Ref: TR 1026509

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

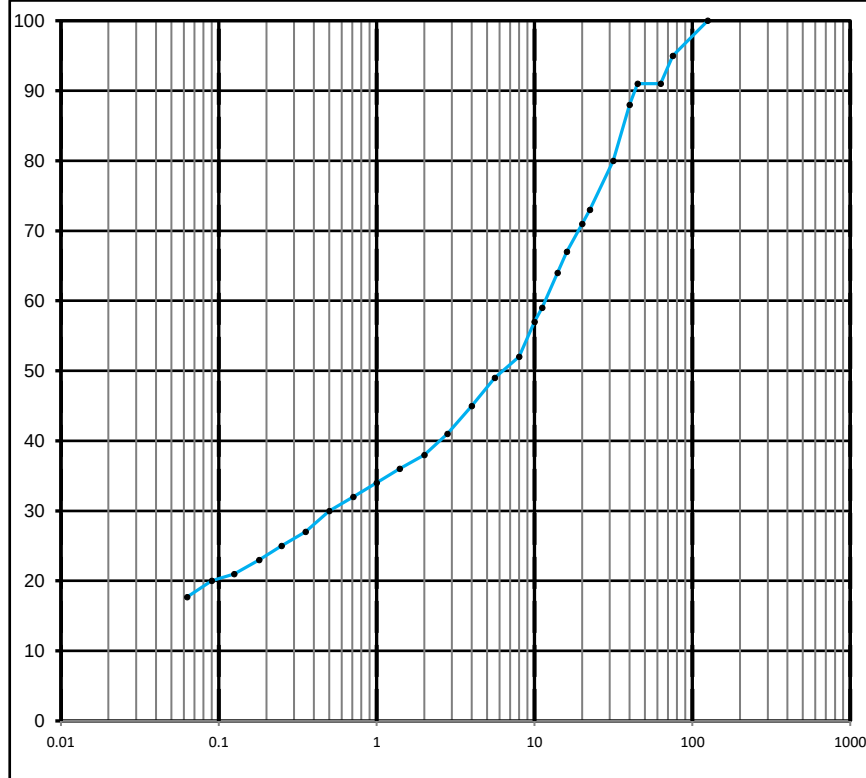
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S119843	Method of Sampling:	Unknown
Client Ref. No:	AJ9-1 @ 1.10m	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	21/03/2024	Tested By:	JH
Date of Receipt at Lab:	26/03/2024		
Date of Start of Test:	04/04/2024		
Sampling Location:	AJ9-1 @ 1.10m		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	95	
63.0 mm	91	
45.0 mm	91	
40.0 mm	88	
31.5 mm	80	
22.4 mm	73	
20.0 mm	71	
16.0 mm	67	
14.0 mm	64	
11.2 mm	59	
10.0 mm	57	
8.0 mm	52	
5.6 mm	49	
4.0 mm	45	
2.8 mm	41	
2.0 mm	38	
1.4 mm	36	
1.0 mm	34	
0.710 mm	32	
0.500 mm	30	
0.355 mm	27	
0.250 mm	25	
0.180 mm	23	
0.125 mm	21	
0.090 mm	20	
0.063 mm	17.7	

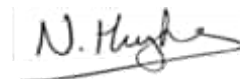
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026514

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AO5-1 @ 1.20m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AO5-1 @ 1.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)21/03/2024
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.9

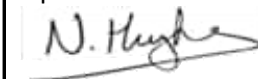
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026515

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AP5-1 @ 1.60m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AP5-1 @ 1.60m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026516

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AO6-1 @ 0.90m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AO6-1 @ 0.90m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.4

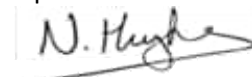
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026517

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AK9-1 @ 0.80m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AK9-1 @ 0.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.9

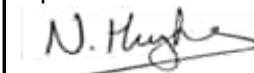
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026518

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AK8-1 @ 1.45m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AK8-1 @ 1.45m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.3

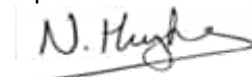
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026519

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AL9-1 @ 2.20m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AL9-1 @ 2.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.0

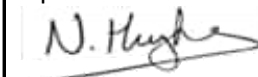
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 18 April 2024
Test Report Ref: TR 1026521

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AJ9-1 @ 1.10m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	04/04/2024
Sampling Location:	AJ9-1 @ 1.10m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Neil Hughes Assistant Technical Manager
---------------------------------	---

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026540

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AO5-1 @ 1.20m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AO5-1 @ 1.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)21/03/2024
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.47 Mg/m ³
Apparent Particle density (ρ_a) =	2.59 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.0 %

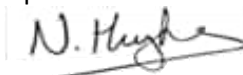
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026541

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AP5-1 @ 1.60m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AP5-1 @ 1.60m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.34 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.41 Mg/m ³
Apparent Particle density (ρ_a) =	2.50 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.7 %

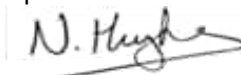
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026542

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AO6-1 @ 0.90m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AO6-1 @ 0.90m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.50 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.56 Mg/m ³
Apparent Particle density (ρ_a) =	2.68 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.7 %

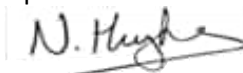
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026543

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AK9-1 @ 0.80m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AK9-1 @ 0.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.44 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.51 Mg/m ³
Apparent Particle density (ρ_a) =	2.63 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.9 %

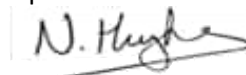
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026544

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AK8-1 @ 1.45m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AK8-1 @ 1.45m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.33 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.40 Mg/m ³
Apparent Particle density (ρ_a) =	2.51 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.1 %

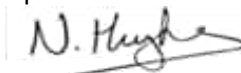
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 16 May 2024
Test Report Ref: TR 1026545

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AL9-1 @ 2.20m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	15/05/2024
Sampling Location:	AL9-1 @ 2.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.46 Mg/m ³
Apparent Particle density (ρ_a) =	2.55 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

Rodgers Leask Limited
St James House
St Mary's Wharf
Manfield Road
Derby
DE1 3TQ

Date: 22 April 2024
Test Report Ref: TR 1026547

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S119843
Client Ref. No:	AJ9-1 @ 1.10m
Date and Time of Sampling:	21/03/2024
Date of Receipt at Lab:	26/03/2024
Date of Start of Test:	19/04/2024
Sampling Location:	AJ9-1 @ 1.10m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.65 Mg/m ³
Apparent Particle density (ρ_a) =	2.78 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.8 %

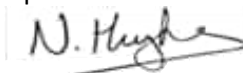
This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Neil Hughes
Assistant Technical Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030309

Page 1 of 1

Contract: Former Llanwern Steelworks

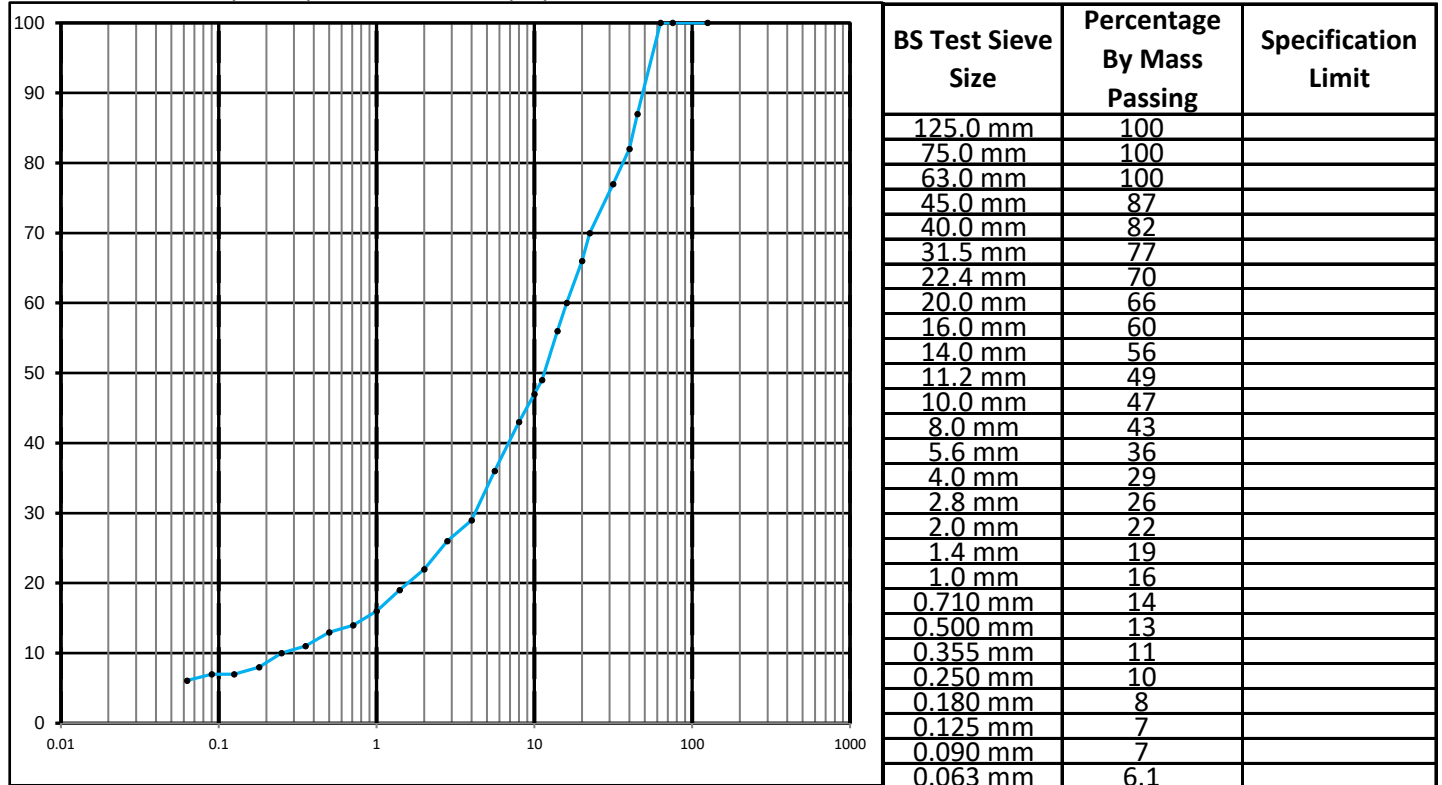
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AM9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.00m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030310

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

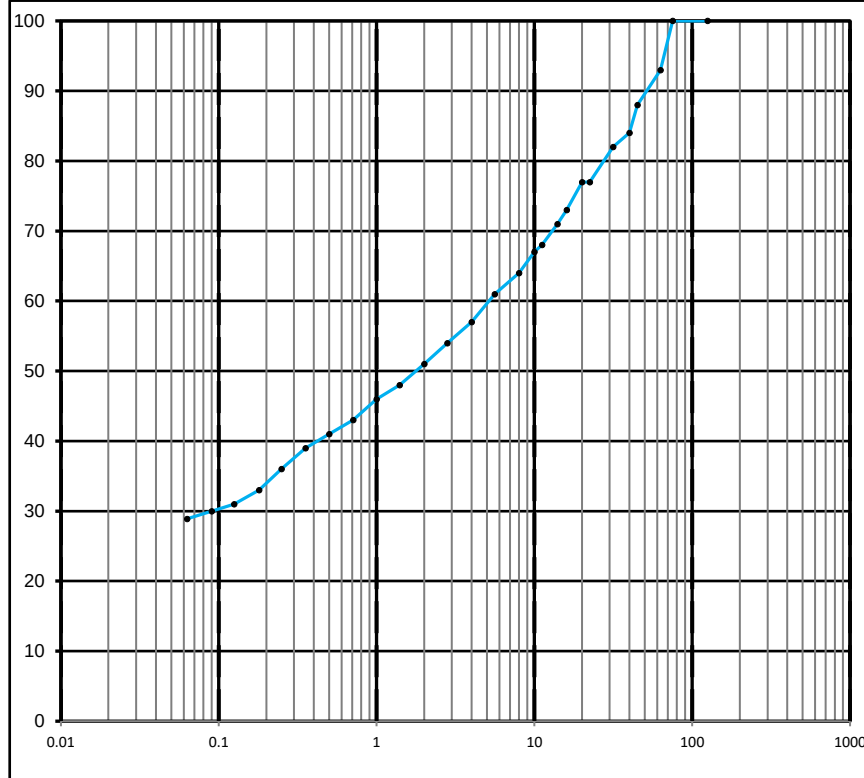
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AN3-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	0.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	93	
45.0 mm	88	
40.0 mm	84	
31.5 mm	82	
22.4 mm	77	
20.0 mm	77	
16.0 mm	73	
14.0 mm	71	
11.2 mm	68	
10.0 mm	67	
8.0 mm	64	
5.6 mm	61	
4.0 mm	57	
2.8 mm	54	
2.0 mm	51	
1.4 mm	48	
1.0 mm	46	
0.710 mm	43	
0.500 mm	41	
0.355 mm	39	
0.250 mm	36	
0.180 mm	33	
0.125 mm	31	
0.090 mm	30	
0.063 mm	28.9	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030311

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

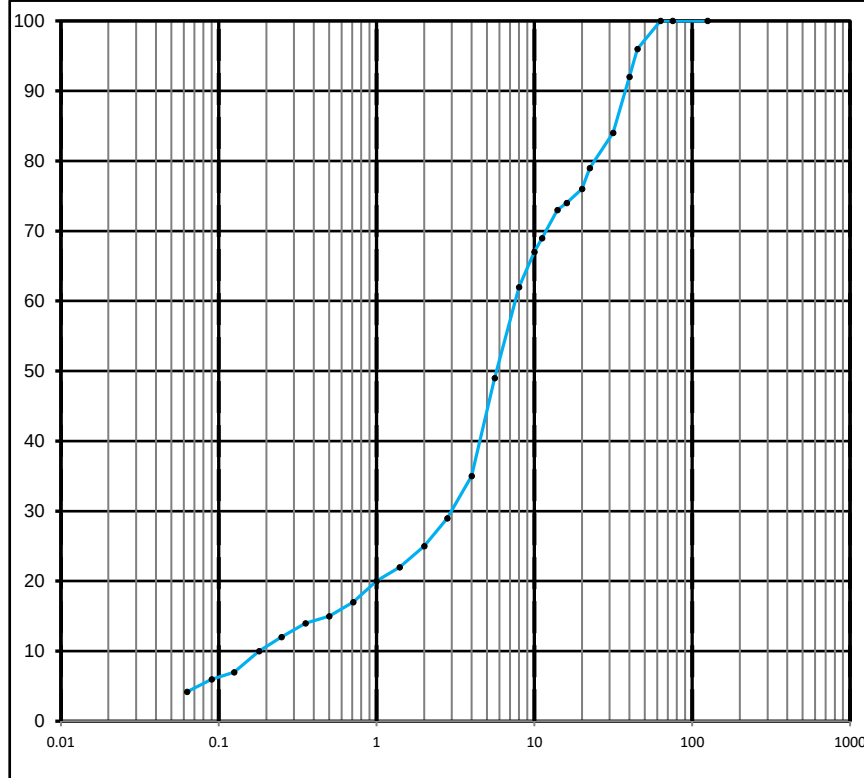
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AN4-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	JH
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.40m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	96	
40.0 mm	92	
31.5 mm	84	
22.4 mm	79	
20.0 mm	76	
16.0 mm	74	
14.0 mm	73	
11.2 mm	69	
10.0 mm	67	
8.0 mm	62	
5.6 mm	49	
4.0 mm	35	
2.8 mm	29	
2.0 mm	25	
1.4 mm	22	
1.0 mm	20	
0.710 mm	17	
0.500 mm	15	
0.355 mm	14	
0.250 mm	12	
0.180 mm	10	
0.125 mm	7	
0.090 mm	6	
0.063 mm	4.2	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030312

Page 1 of 1

Contract: Former Llanwern Steelworks

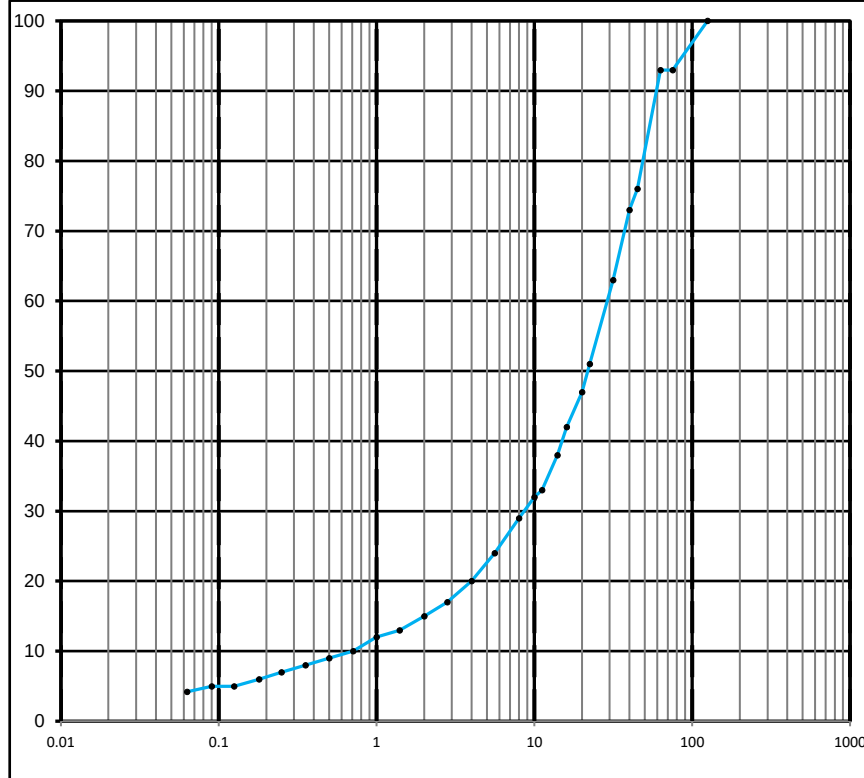
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AN9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.20m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	93	
63.0 mm	93	
45.0 mm	76	
40.0 mm	73	
31.5 mm	63	
22.4 mm	51	
20.0 mm	47	
16.0 mm	42	
14.0 mm	38	
11.2 mm	33	
10.0 mm	32	
8.0 mm	29	
5.6 mm	24	
4.0 mm	20	
2.8 mm	17	
2.0 mm	15	
1.4 mm	13	
1.0 mm	12	
0.710 mm	10	
0.500 mm	9	
0.355 mm	8	
0.250 mm	7	
0.180 mm	6	
0.125 mm	5	
0.090 mm	5	
0.063 mm	4.2	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030313

Page 1 of 1

Contract: Former Llanwern Steelworks

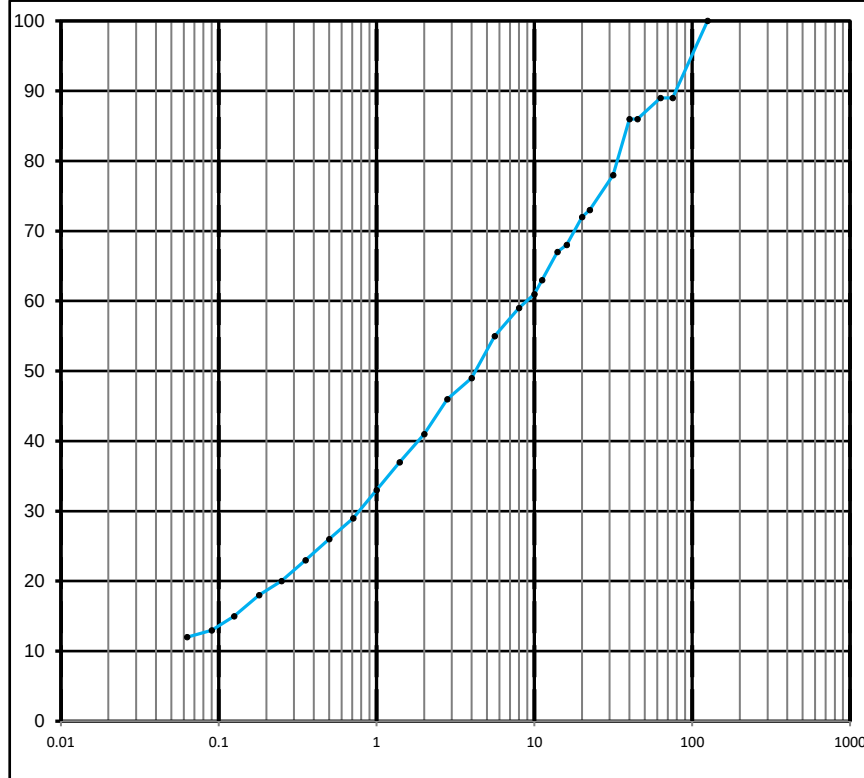
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	A03-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	0.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	89	
63.0 mm	89	
45.0 mm	86	
40.0 mm	86	
31.5 mm	78	
22.4 mm	73	
20.0 mm	72	
16.0 mm	68	
14.0 mm	67	
11.2 mm	63	
10.0 mm	61	
8.0 mm	59	
5.6 mm	55	
4.0 mm	49	
2.8 mm	46	
2.0 mm	41	
1.4 mm	37	
1.0 mm	33	
0.710 mm	29	
0.500 mm	26	
0.355 mm	23	
0.250 mm	20	
0.180 mm	18	
0.125 mm	15	
0.090 mm	13	
0.063 mm	12.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030314

Page 1 of 1

Contract: Former Llanwern Steelworks

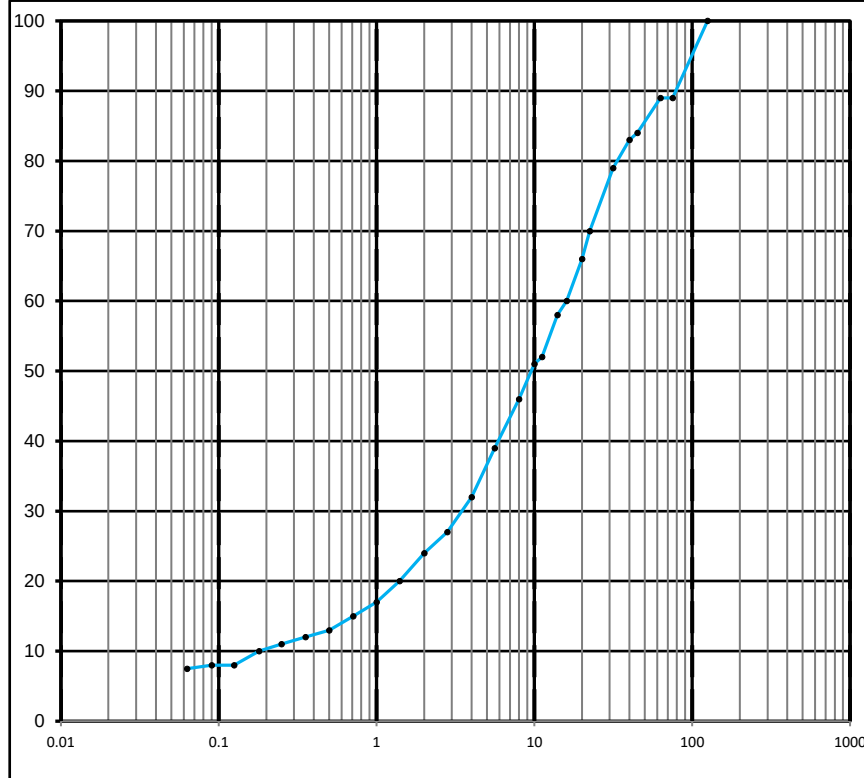
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AO9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	0.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	89	
63.0 mm	89	
45.0 mm	84	
40.0 mm	83	
31.5 mm	79	
22.4 mm	70	
20.0 mm	66	
16.0 mm	60	
14.0 mm	58	
11.2 mm	52	
10.0 mm	51	
8.0 mm	46	
5.6 mm	39	
4.0 mm	32	
2.8 mm	27	
2.0 mm	24	
1.4 mm	20	
1.0 mm	17	
0.710 mm	15	
0.500 mm	13	
0.355 mm	12	
0.250 mm	11	
0.180 mm	10	
0.125 mm	8	
0.090 mm	8	
0.063 mm	7.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030315

Page 1 of 1

Contract: Former Llanwern Steelworks

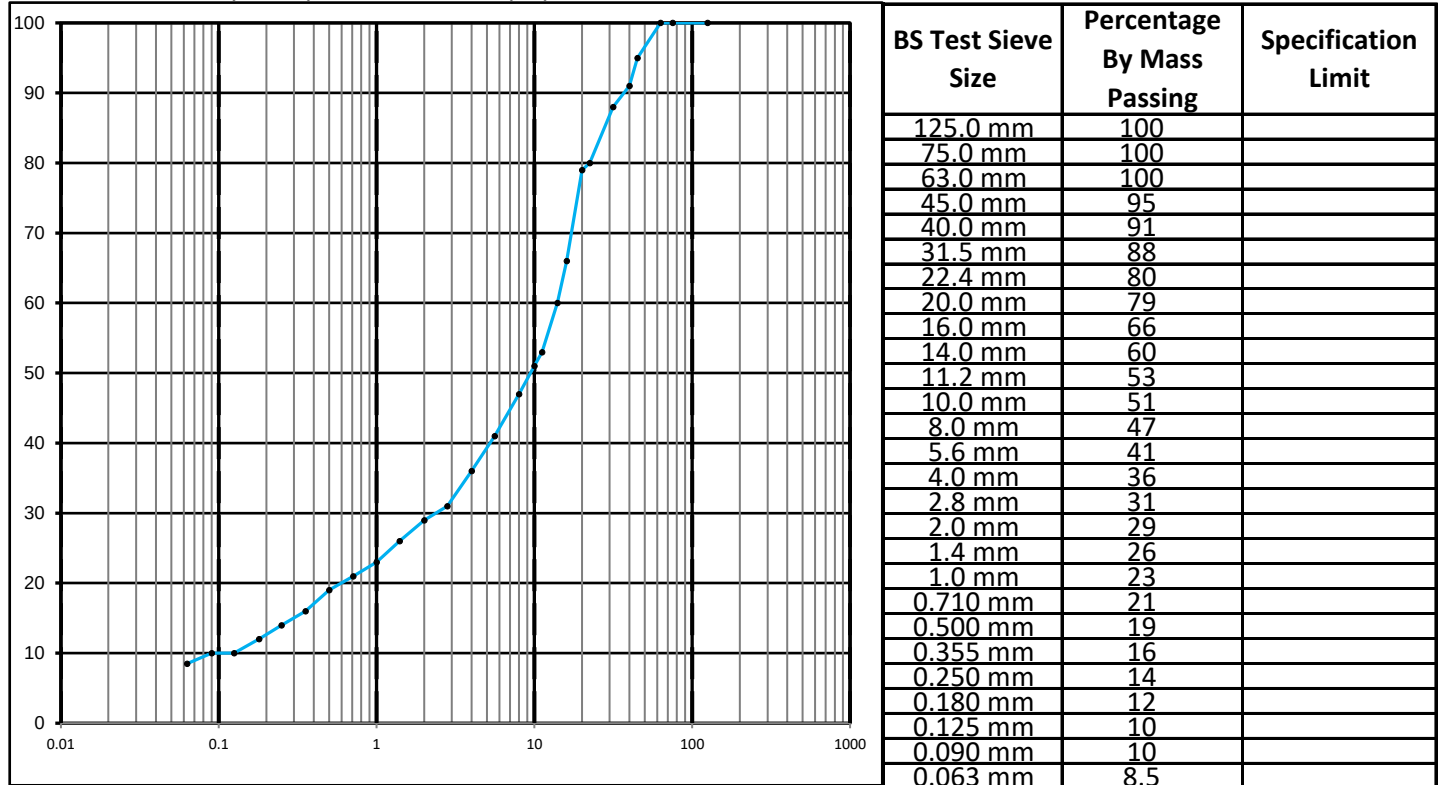
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AP3-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	0.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030317

Page 1 of 1

Contract: Former Llanwern Steelworks

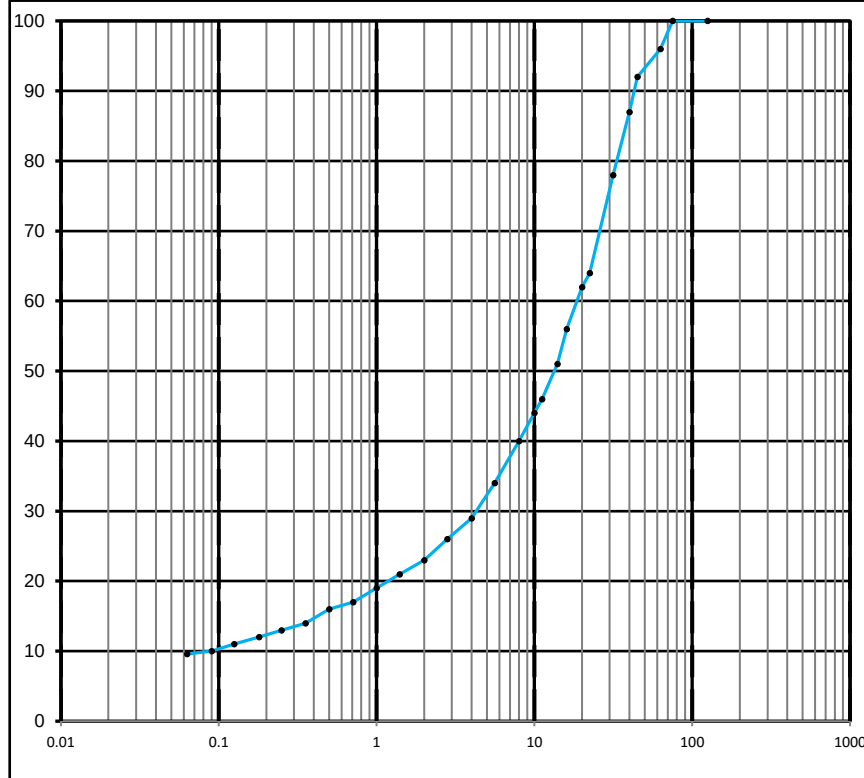
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AP9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	96	
45.0 mm	92	
40.0 mm	87	
31.5 mm	78	
22.4 mm	64	
20.0 mm	62	
16.0 mm	56	
14.0 mm	51	
11.2 mm	46	
10.0 mm	44	
8.0 mm	40	
5.6 mm	34	
4.0 mm	29	
2.8 mm	26	
2.0 mm	23	
1.4 mm	21	
1.0 mm	19	
0.710 mm	17	
0.500 mm	16	
0.355 mm	14	
0.250 mm	13	
0.180 mm	12	
0.125 mm	11	
0.090 mm	10	
0.063 mm	9.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030318

Page 1 of 1

Contract: Former Llanwern Steelworks

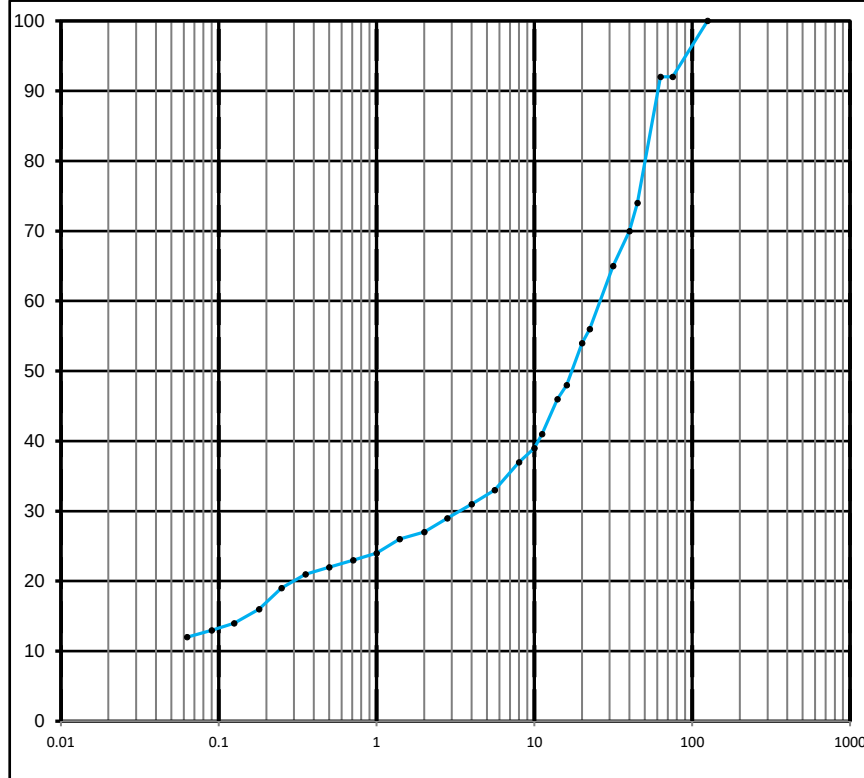
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AQ9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.40m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	92	
63.0 mm	92	
45.0 mm	74	
40.0 mm	70	
31.5 mm	65	
22.4 mm	56	
20.0 mm	54	
16.0 mm	48	
14.0 mm	46	
11.2 mm	41	
10.0 mm	39	
8.0 mm	37	
5.6 mm	33	
4.0 mm	31	
2.8 mm	29	
2.0 mm	27	
1.4 mm	26	
1.0 mm	24	
0.710 mm	23	
0.500 mm	22	
0.355 mm	21	
0.250 mm	19	
0.180 mm	16	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030319

Page 1 of 1

Contract: Former Llanwern Steelworks

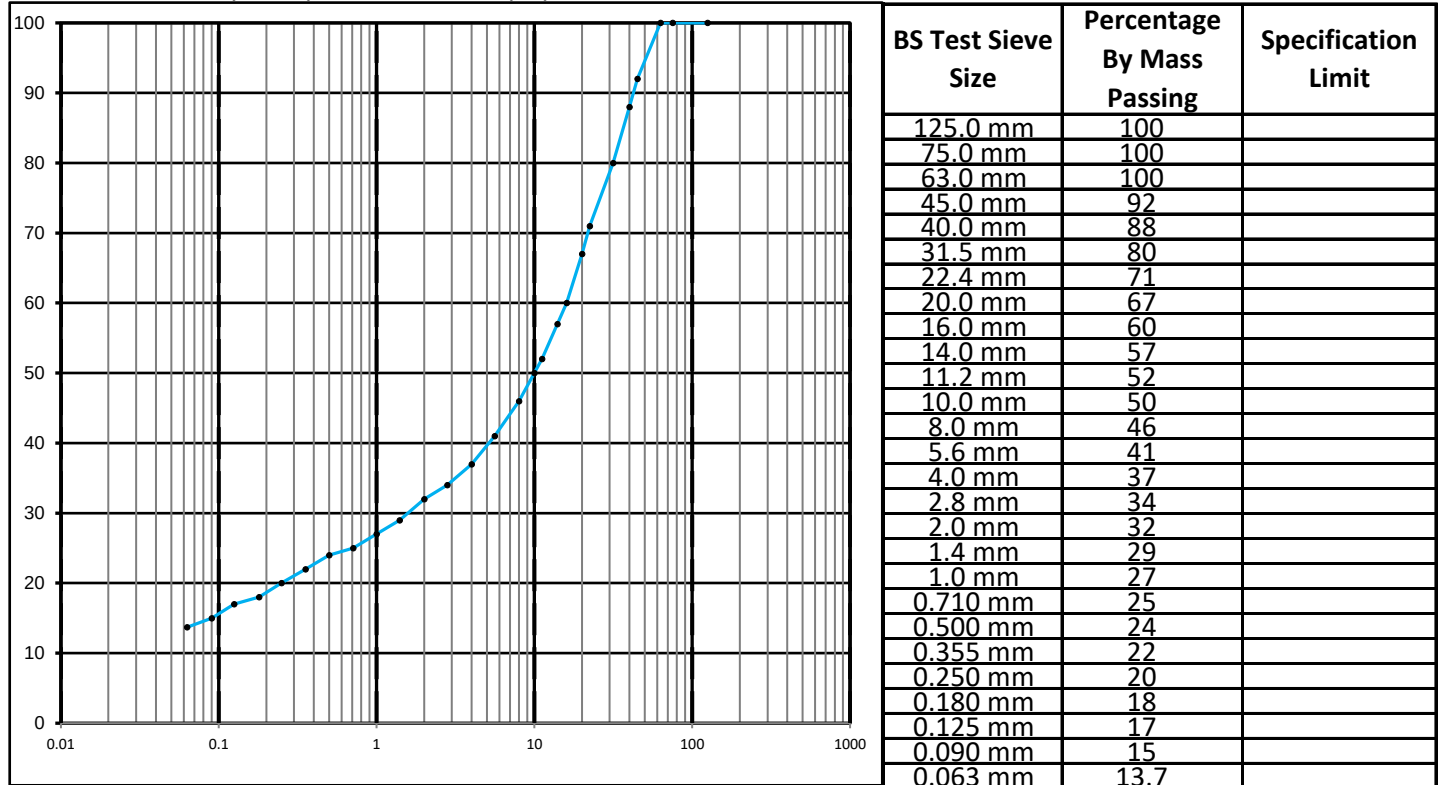
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AR1-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	JH
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	2.00m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030320

Page 1 of 1

Contract: Former Llanwern Steelworks

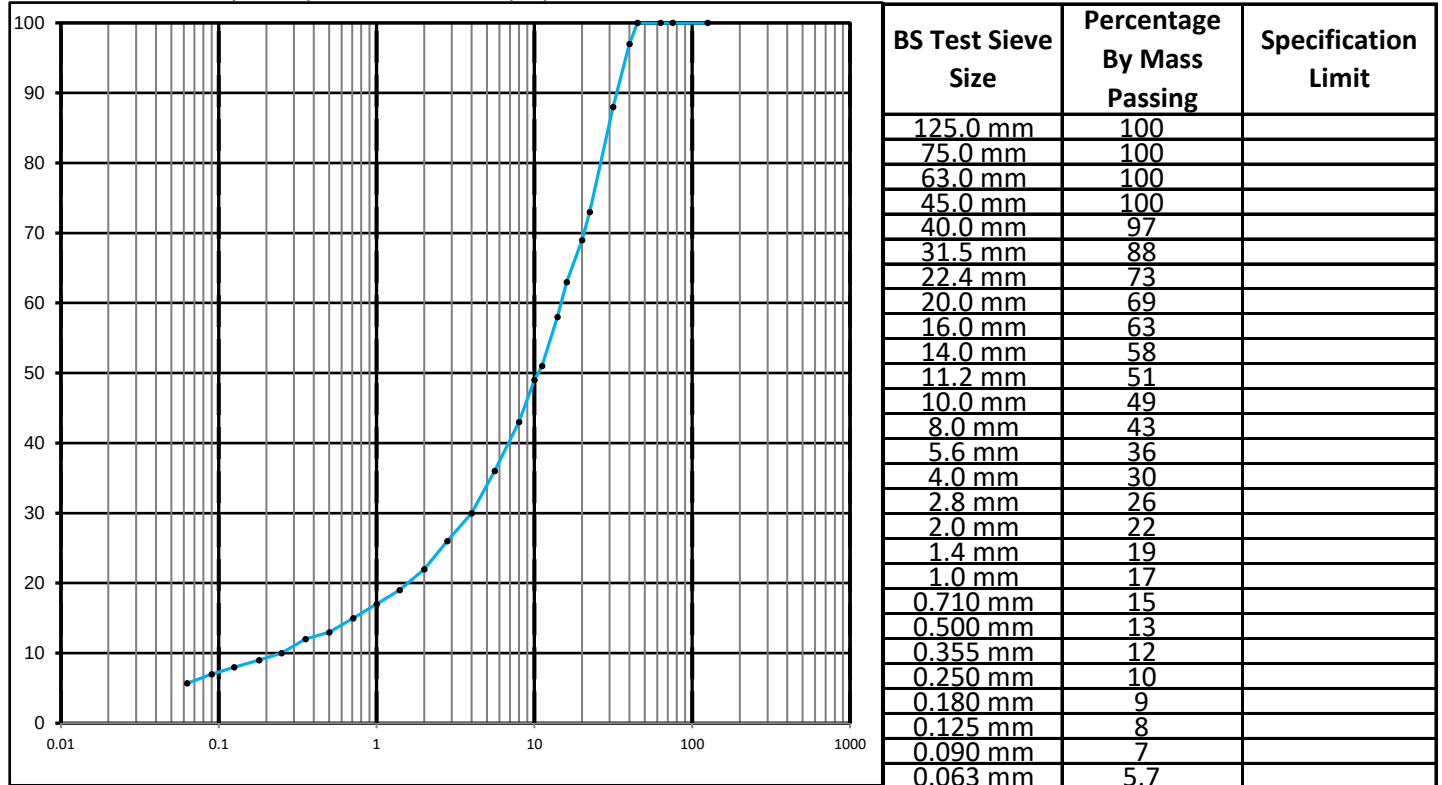
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AR9-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	JH
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.00m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030321

Page 1 of 1

Contract: Former Llanwern Steelworks

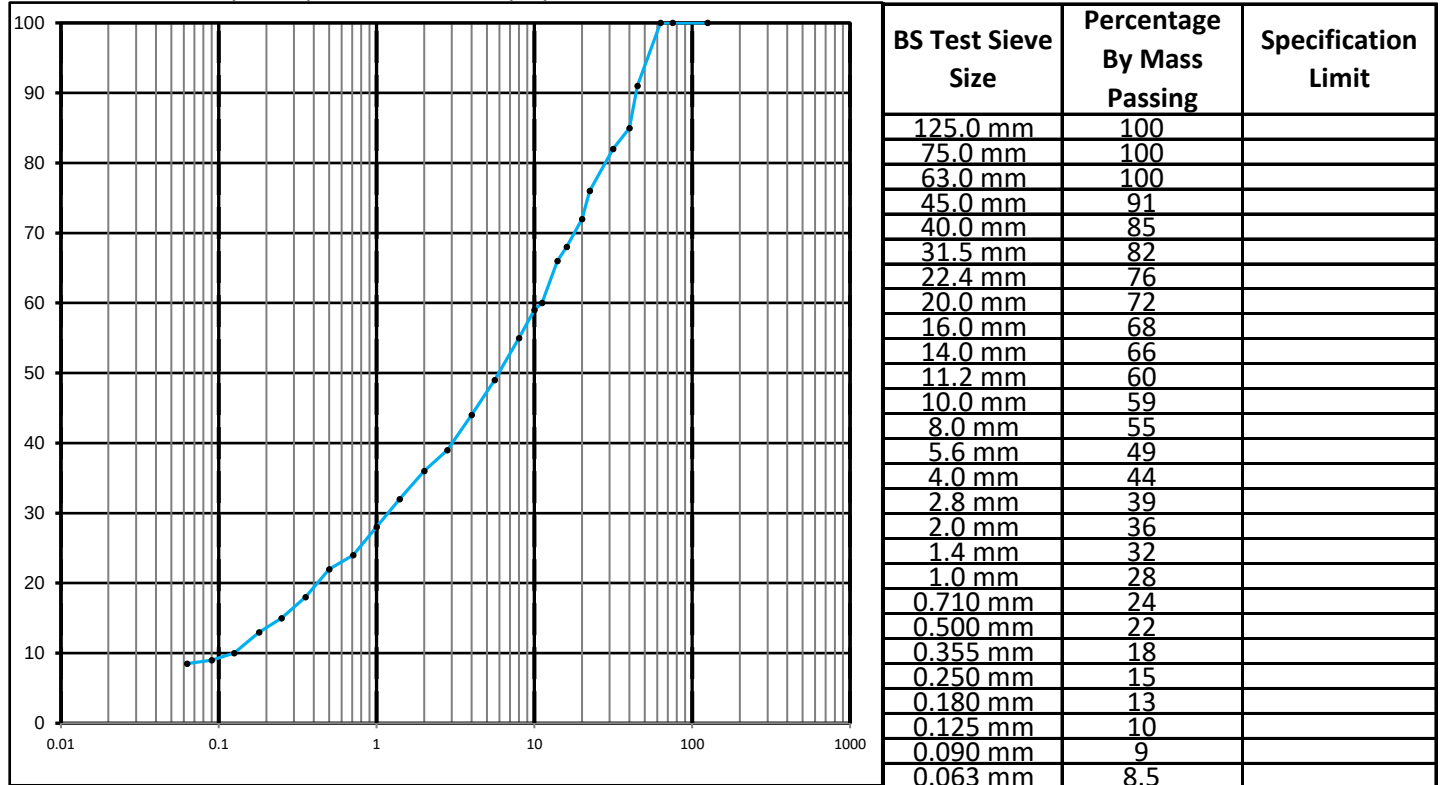
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AS2-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030322

Page 1 of 1

Contract: Former Llanwern Steelworks

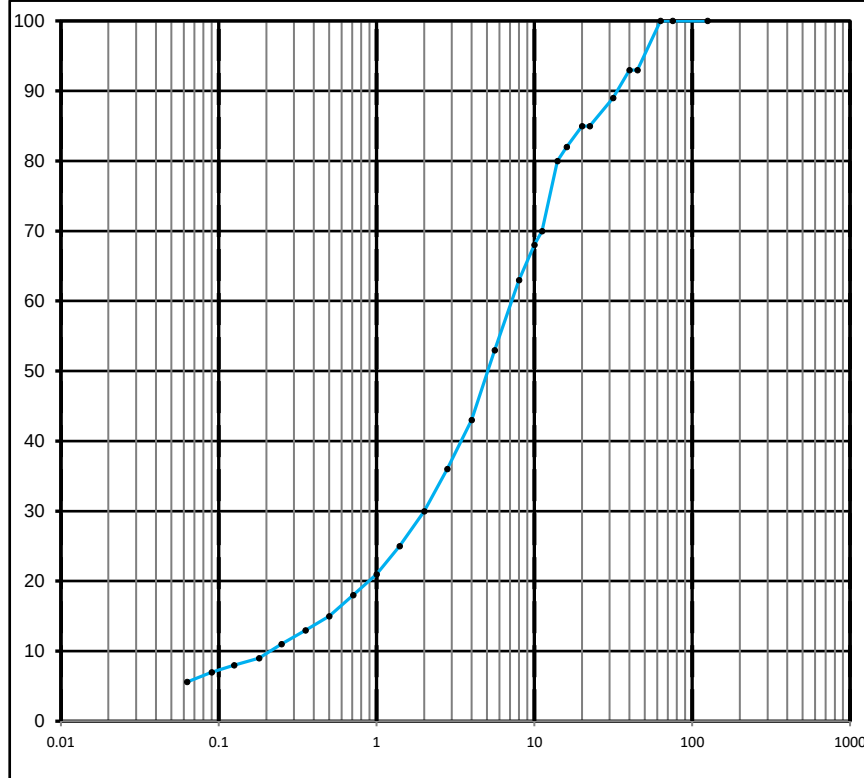
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample- washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AT3-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	JH
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	2.50m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	93	
40.0 mm	93	
31.5 mm	89	
22.4 mm	85	
20.0 mm	85	
16.0 mm	82	
14.0 mm	80	
11.2 mm	70	
10.0 mm	68	
8.0 mm	63	
5.6 mm	53	
4.0 mm	43	
2.8 mm	36	
2.0 mm	30	
1.4 mm	25	
1.0 mm	21	
0.710 mm	18	
0.500 mm	15	
0.355 mm	13	
0.250 mm	11	
0.180 mm	9	
0.125 mm	8	
0.090 mm	7	
0.063 mm	5.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030323

Page 1 of 1

Contract: Former Llanwern Steelworks

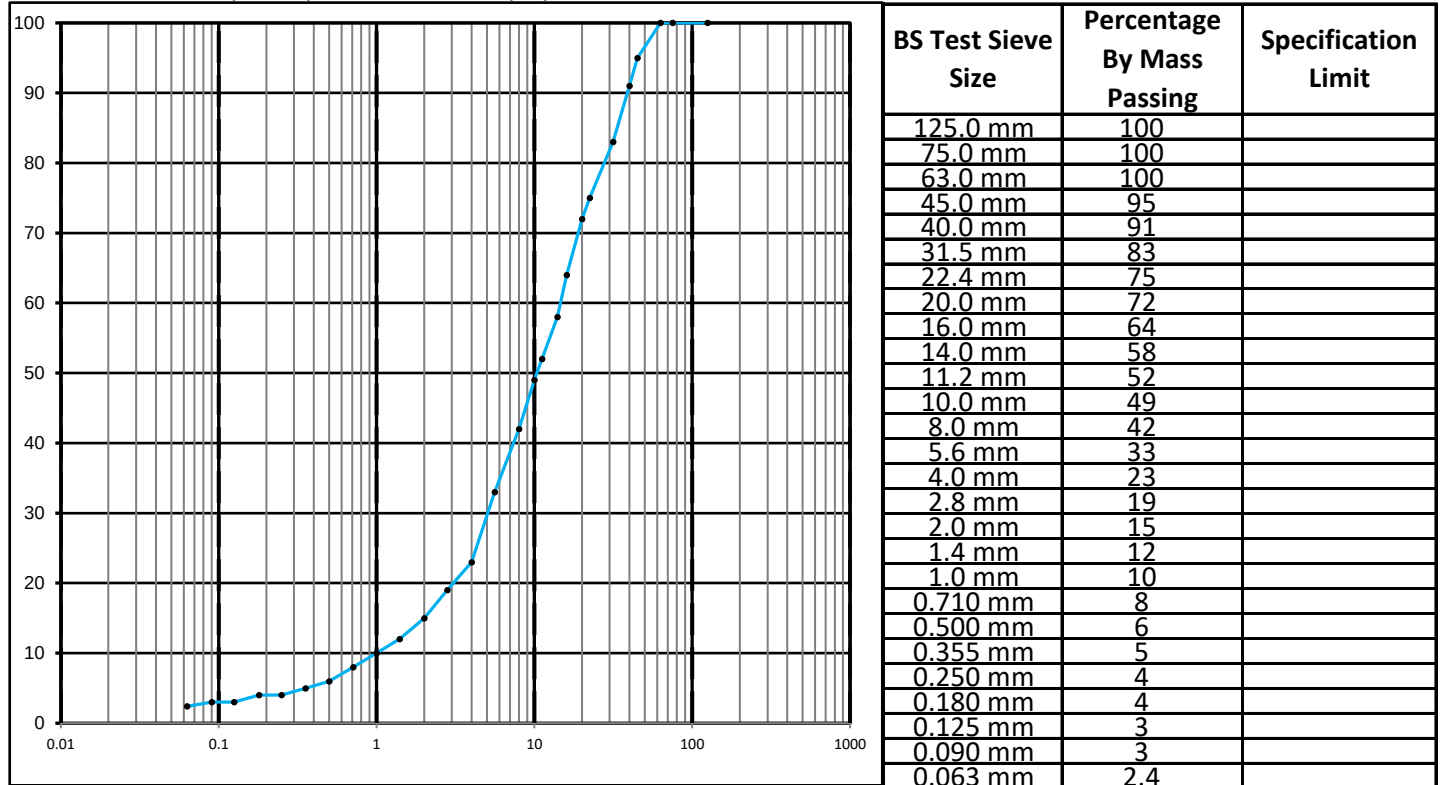
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AT7-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	16/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.80m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030325

Page 1 of 1

Contract: Former Llanwern Steelworks

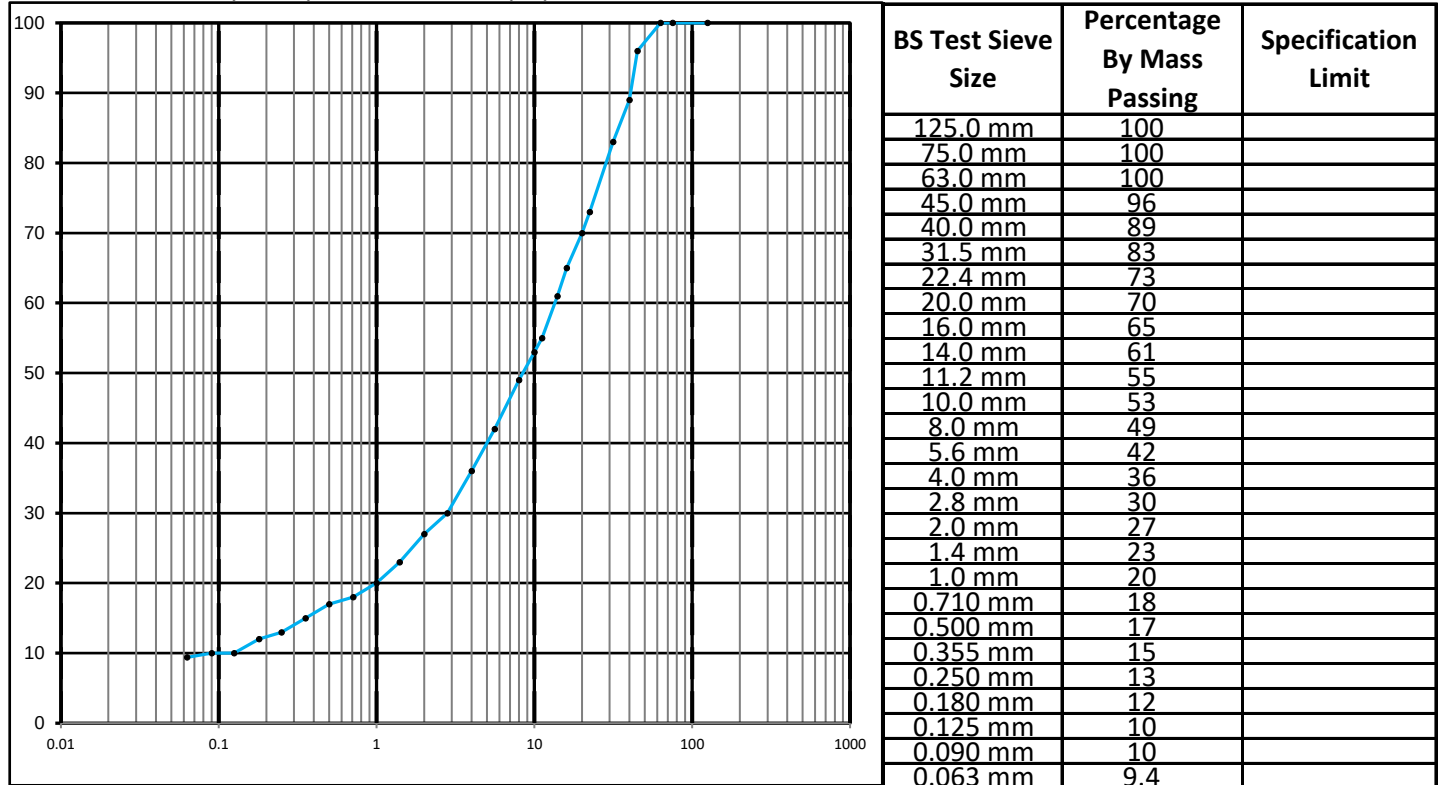
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AV4-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.80m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030326

Page 1 of 1

Contract: Former Llanwern Steelworks

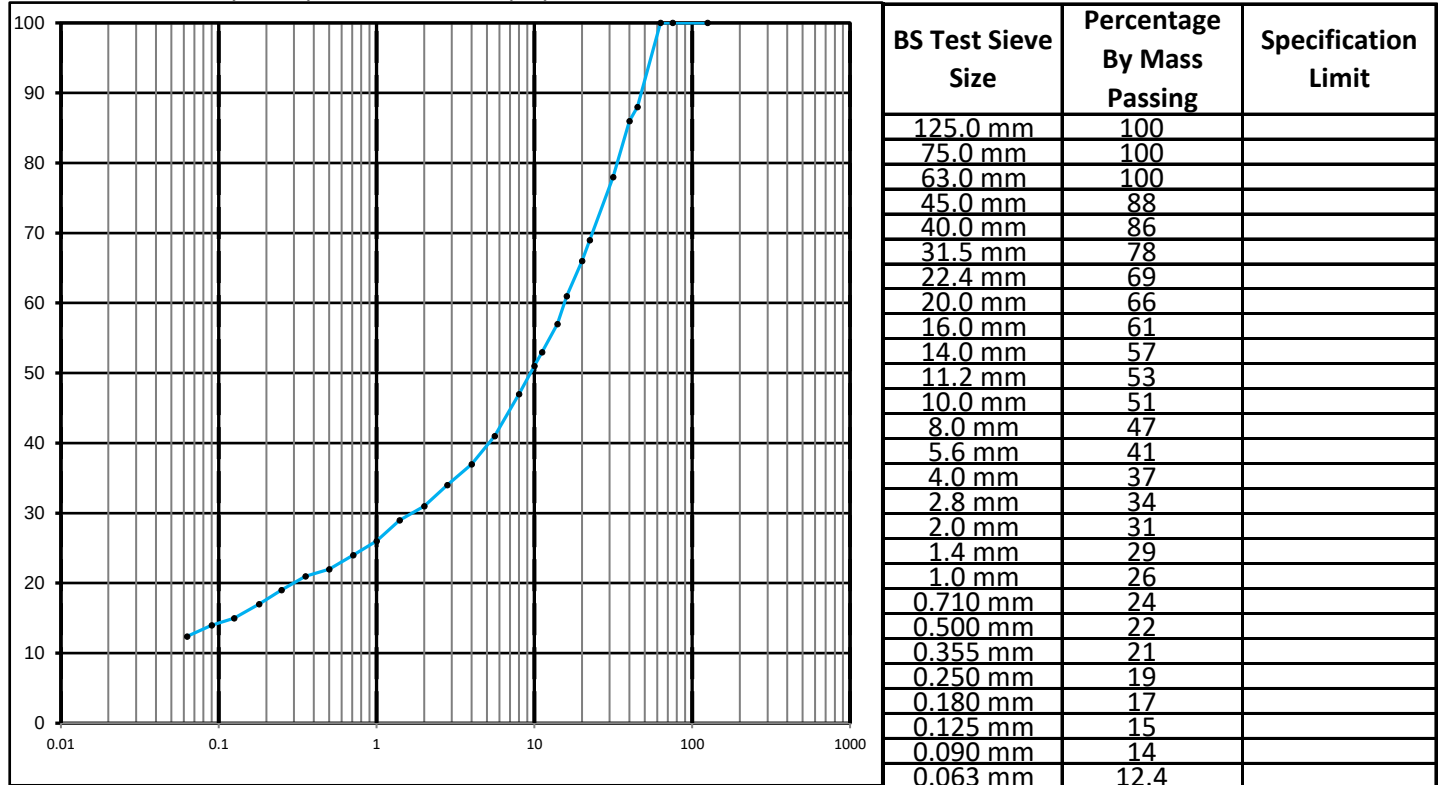
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AV5-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	JH
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.00m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 07 May 2024
Test Report Ref: TR 1030329

Page 1 of 1

Contract: Former Llanwern Steelworks

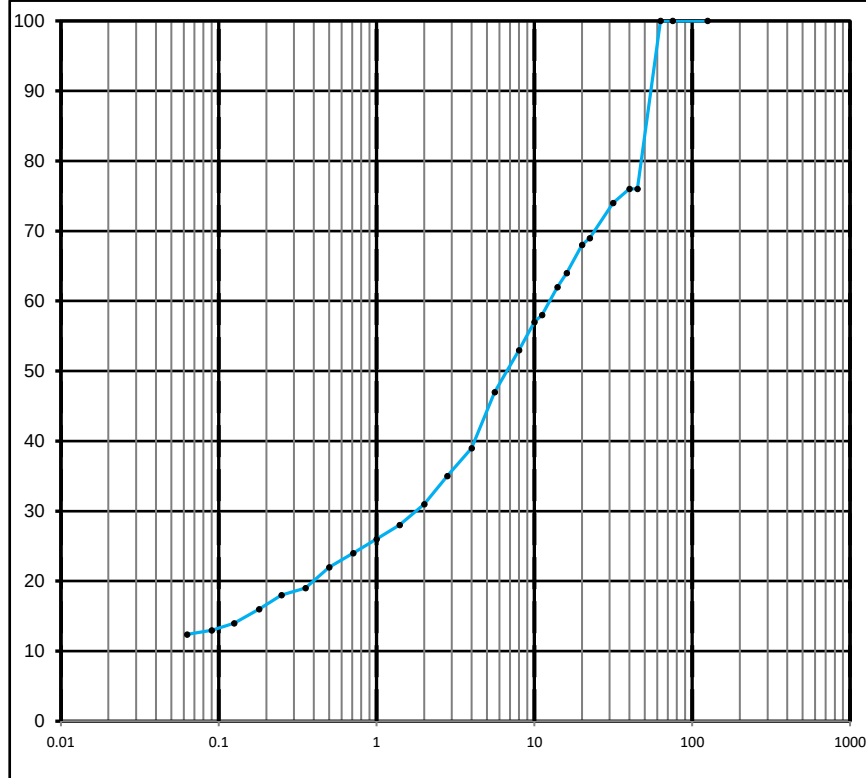
LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012.**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S120517	Method of Sampling:	Unknown
Client Ref. No:	AW6-1	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	09/04/2024	Tested By:	EK
Date of Receipt at Lab:	18/04/2024		
Date of Start of Test:	24/04/2024		
Sampling Location:	1.00m		
Material Description	Granular - 20mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	76	
40.0 mm	76	
31.5 mm	74	
22.4 mm	69	
20.0 mm	68	
16.0 mm	64	
14.0 mm	62	
11.2 mm	58	
10.0 mm	57	
8.0 mm	53	
5.6 mm	47	
4.0 mm	39	
2.8 mm	35	
2.0 mm	31	
1.4 mm	28	
1.0 mm	26	
0.710 mm	24	
0.500 mm	22	
0.355 mm	19	
0.250 mm	18	
0.180 mm	16	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030330

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AM9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030331

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030332

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN4-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.40m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030333

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030334

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AO3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030335

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AO9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 6.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030336

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AP3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 22.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030338

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AP9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030339

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AQ9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.40m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030340

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AR1-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	2.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030341

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AR9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030342

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AS2-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 20.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030343

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AT3-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	2.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030344

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AT7-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030346

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AV4-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030347

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AV5-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 08 May 2024
Test Report Ref: TR 1030350

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AW6-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	08/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	BR
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030372

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AM9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.35 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.42 Mg/m ³
Apparent Particle density (ρ_a) =	2.53 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030373

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.43 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.49 Mg/m ³
Apparent Particle density (ρ_a) =	2.59 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030374

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN4-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.40m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.45 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.52 Mg/m ³
Apparent Particle density (ρ_a) =	2.63 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: None	Report checked and approved by:  Chantelle Kopec-Williams CS Team
--------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030375

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	1.97 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.22 Mg/m ³
Apparent Particle density (ρ_a) =	2.61 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	12.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030376

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AO3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.18 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.28 Mg/m ³
Apparent Particle density (ρ_a) =	2.41 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	4.2 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030377

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AO9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.54 Mg/m ³
Apparent Particle density (ρ_a) =	2.64 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030378

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AP3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.12 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.23 Mg/m ³
Apparent Particle density (ρ_a) =	2.38 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	5.2 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030380

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AP9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.39 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.45 Mg/m ³
Apparent Particle density (ρ_a) =	2.54 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030381

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AQ9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.40m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.51 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.55 Mg/m ³
Apparent Particle density (ρ_a) =	2.61 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	1.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030382

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AR1-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	2.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.66 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.72 Mg/m ³
Apparent Particle density (ρ_a) =	2.82 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030383

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AR9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.23 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.33 Mg/m ³
Apparent Particle density (ρ_a) =	2.49 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	4.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030384

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AS2-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.67 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.77 Mg/m ³
Apparent Particle density (ρ_a) =	2.97 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030385

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AT3-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	2.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.76 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.85 Mg/m ³
Apparent Particle density (ρ_a) =	3.05 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030386

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AT7-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.62 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.69 Mg/m ³
Apparent Particle density (ρ_a) =	2.80 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030388

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AV4-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.80m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.94 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	3.03 Mg/m ³
Apparent Particle density (ρ_a) =	3.23 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	3.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030389

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AV5-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	2.71 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	2.78 Mg/m ³
Apparent Particle density (ρ_a) =	2.90 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: None	Report checked and approved by:  Chantelle Kopec-Williams CS Team
--------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 May 2024
Test Report Ref: TR 1030392

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2022 Clause 8.0

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AW6-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	10/05/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis (ρ_{rd}) =	1.88 Mg/m ³
Particle density on a saturated and surface-dried basis (ρ_{ssd}) =	1.93 Mg/m ³
Apparent Particle density (ρ_a) =	1.98 Mg/m ³
Water absorption (of dry mass) (WA_{24}) =	2.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030393

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

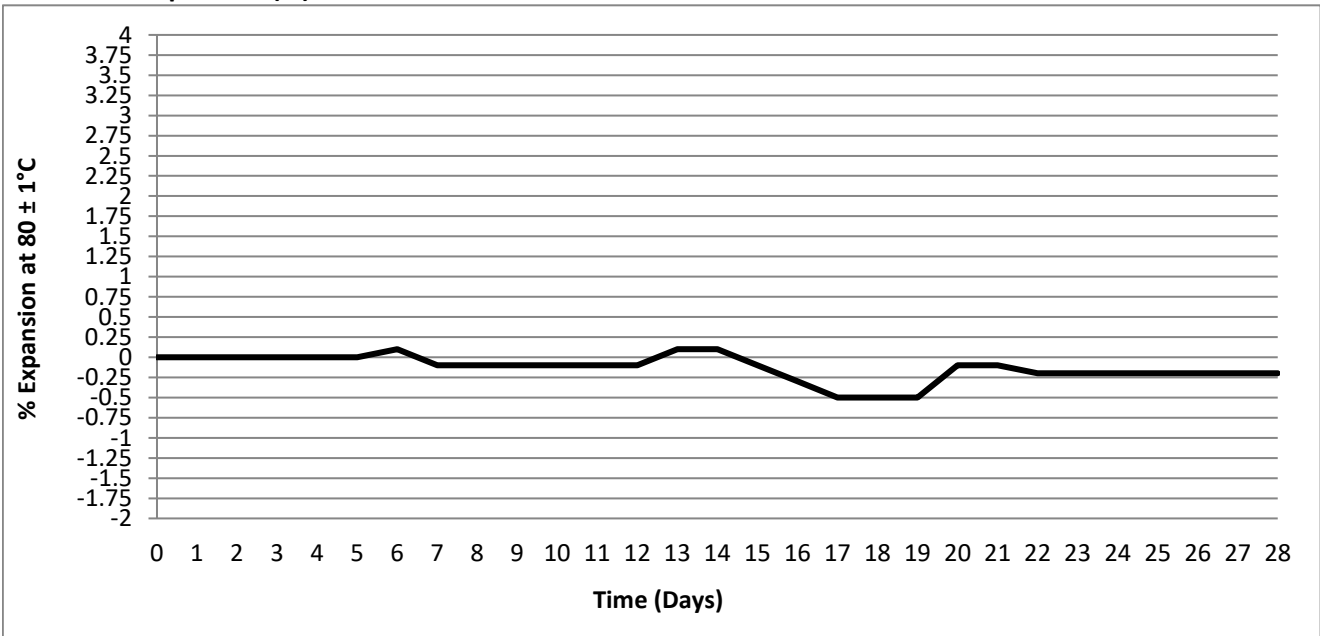
SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AM9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	1.00m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.21

Maximum Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 44.1	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030394

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

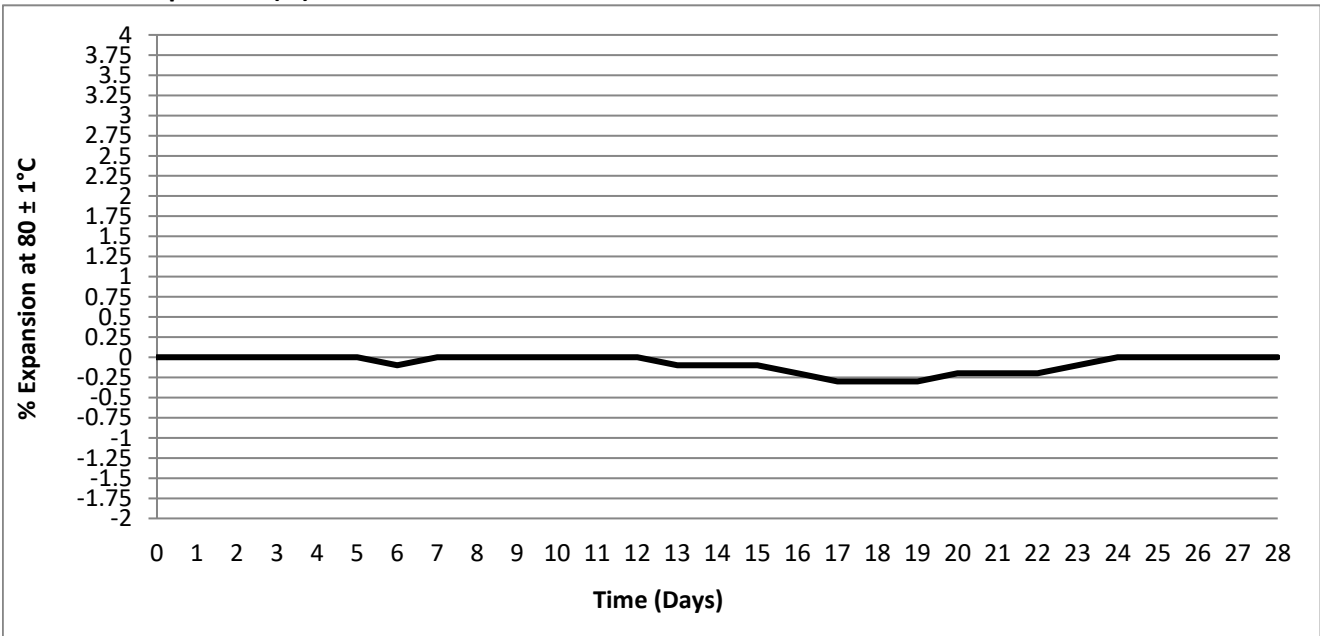
SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AN9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	1.20m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = 0.02

Maximum Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 49.7	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030395

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

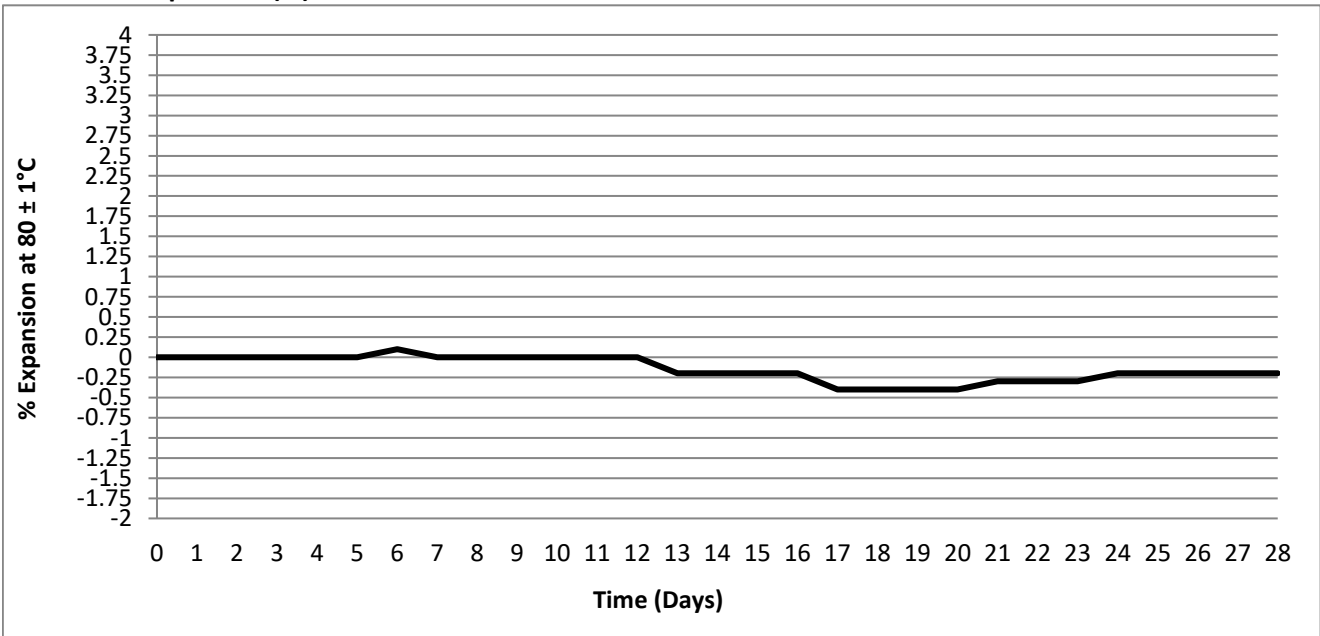
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AO3-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	0.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.15
Maximum Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 26.3	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030397

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

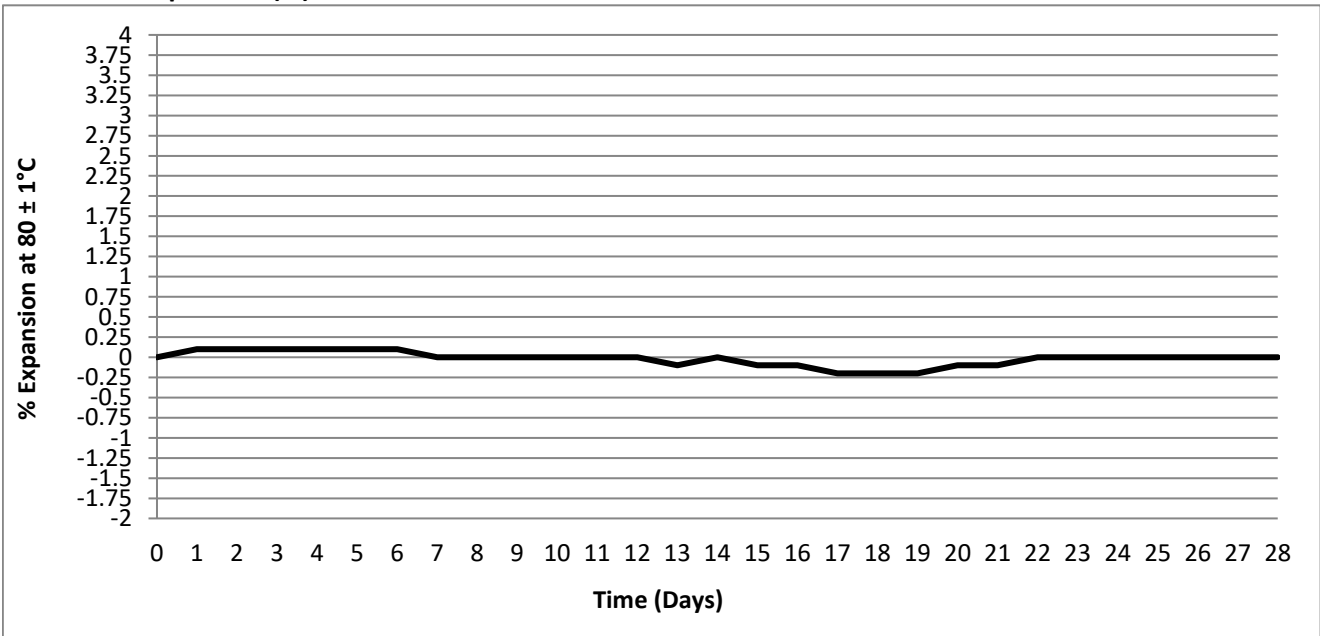
SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AP9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = 0.03

Maximum Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 62.6

Report checked and approved by:



Chantelle Kopec-Williams
CS Team

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030398

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

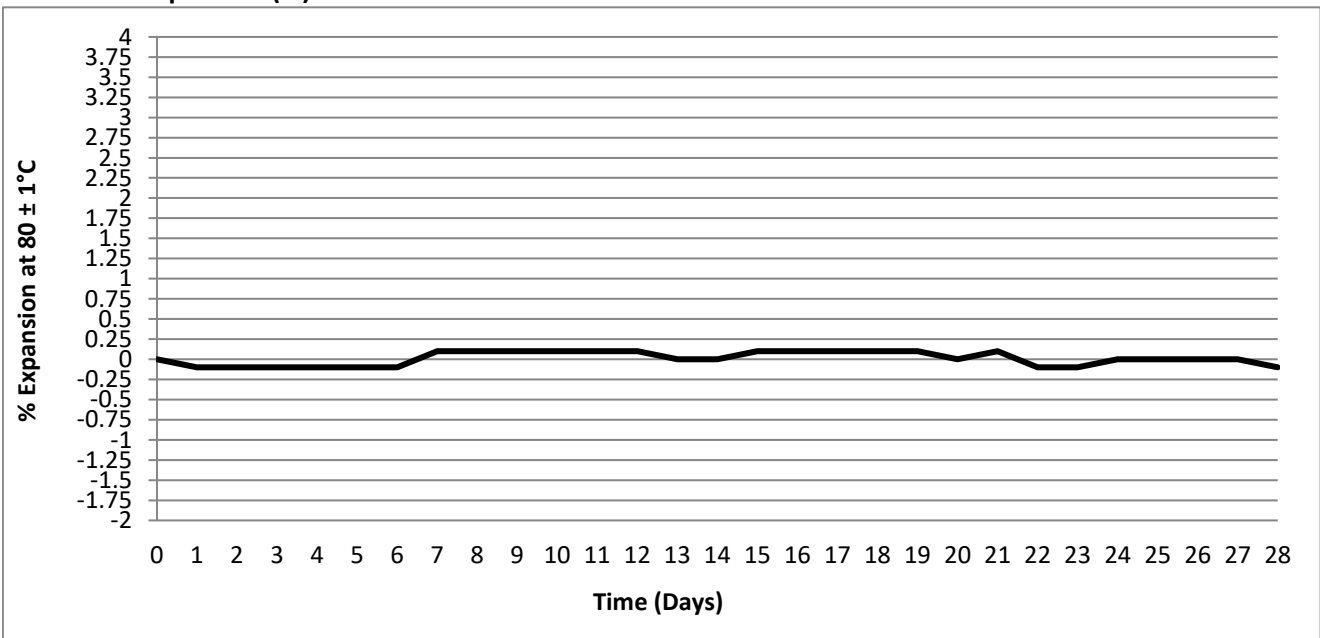
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AQ9-1
Date and Time of Sampling:	16/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	1.40m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.05
Maximum Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 56.7	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030399

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

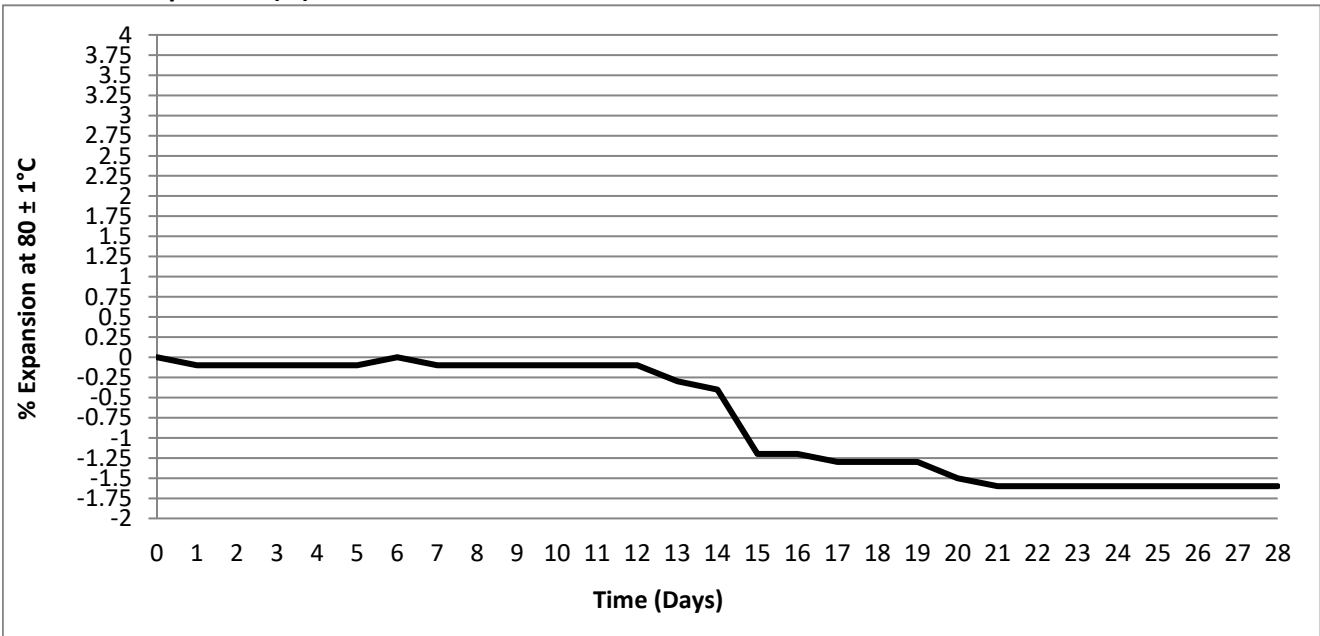
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AS2-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	1.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -1.58
Maximum Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 23.3	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 04 June 2024
Test Report Ref: TR 1030400

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

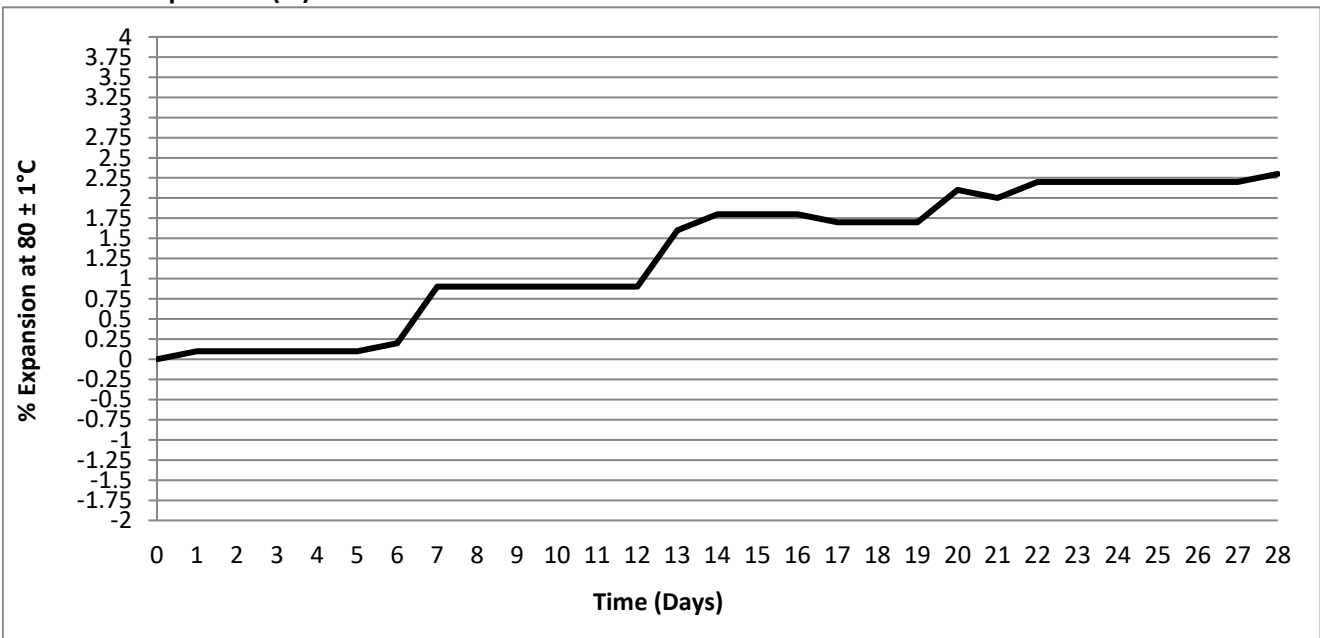
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S120517
Client Ref. No:	AT3-1
Date and Time of Sampling:	09/04/2024
Date of Receipt at Lab:	18/04/2024
Date of Start of Test:	04/06/2024
Sampling Location:	2.50m
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 20mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = 2.26
Maximum Expansion (%) = 2.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 26.2	Report checked and approved by:  Chantelle Kopec-Williams CS Team
---	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 779141

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

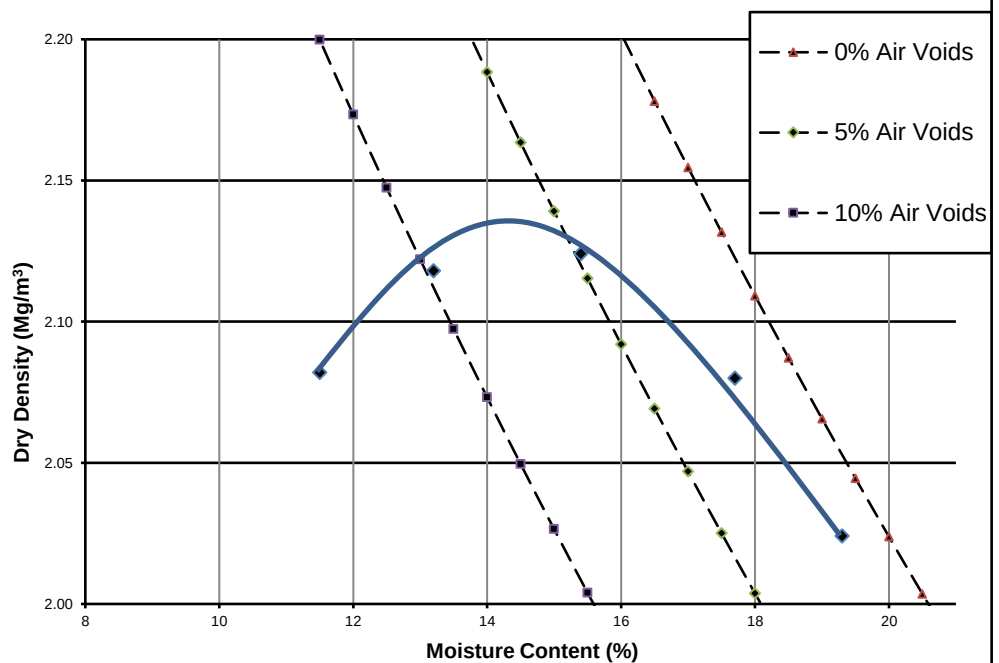
No
S92621
AT6-1
Unknown
22/01/2021
24/02/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	14 %
Retained on 20mm Sieve:	28 %
Moisture Content (%)	Dry Density Mg/m ³
11.5	2.08
13.2	2.12
15.4	2.12
17.7	2.08
19.3	2.02
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
15.0	2.13



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 779143

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

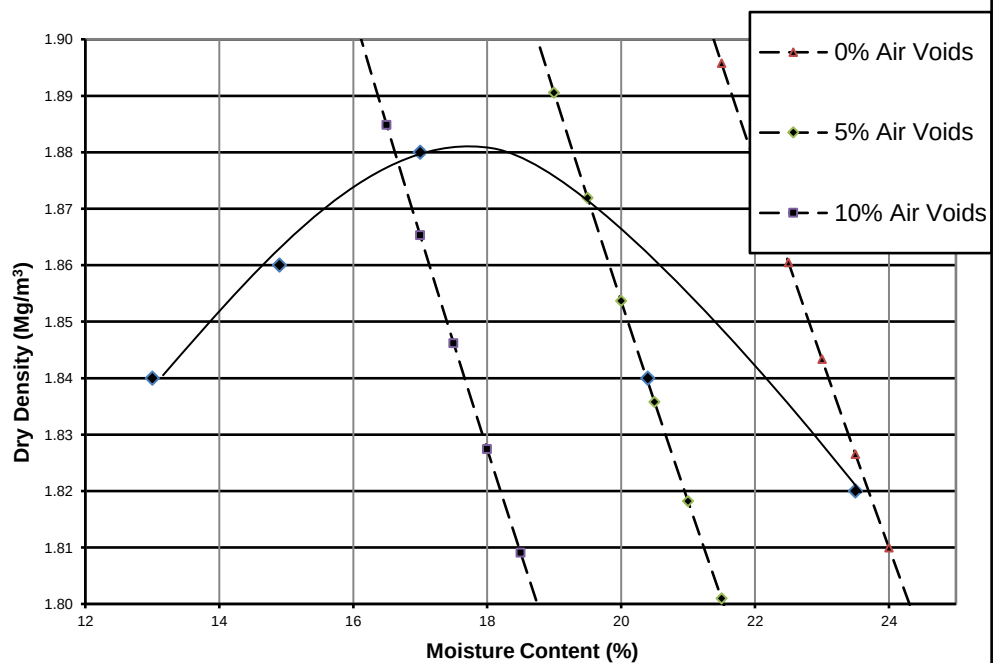
No
S92621
AR4-1
Unknown
22/01/2021
05/03/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	10 %
Moisture Content (%)	Dry Density Mg/m ³
13.0	1.84
14.9	1.86
17.0	1.88
20.4	1.84
23.5	1.82
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
17.0	1.88



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2021
Test Report Ref: TR 779160

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

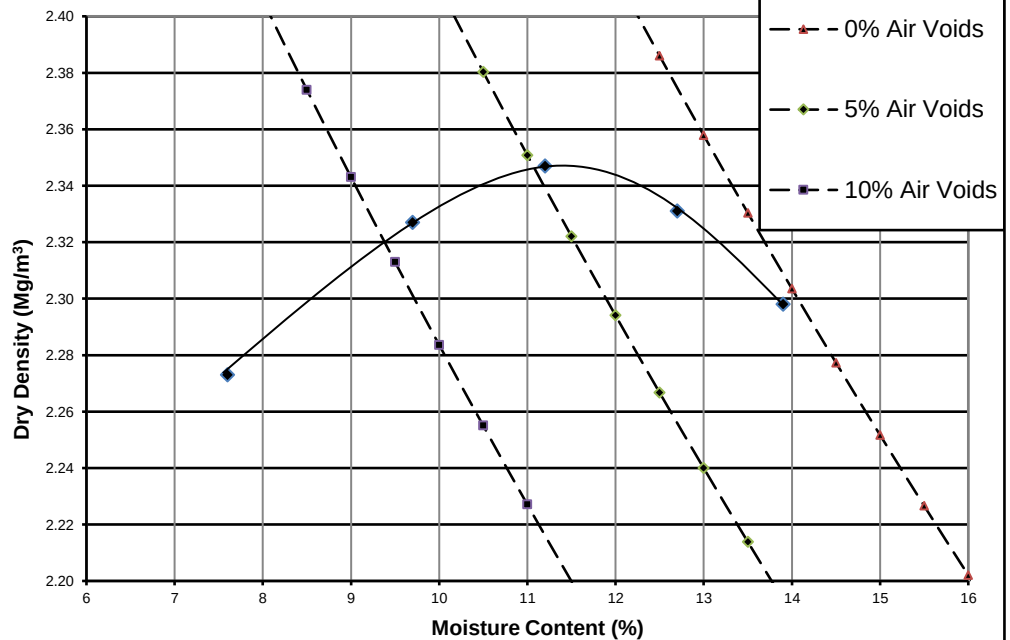
No
S92621
AS6
Unknown
22/01/2021
03/03/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client** (Test result apply to sample as received)
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	25 %
Moisture Content (%)	Dry Density Mg/m ³
7.6	2.27
9.7	2.33
11.2	2.35
12.7	2.33
13.9	2.30
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.35



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2021
Test Report Ref: TR 779162

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

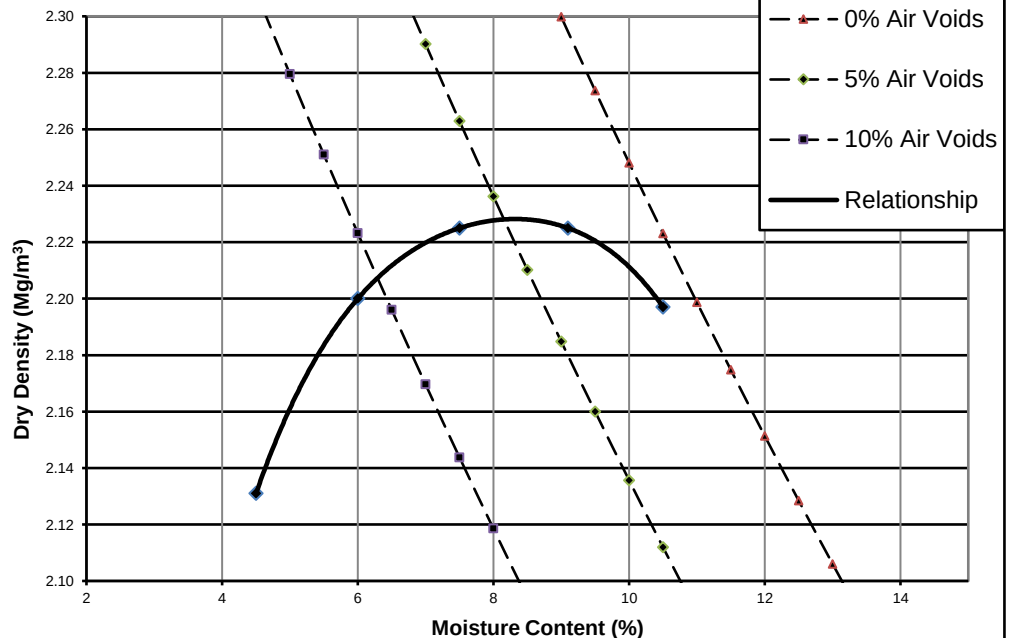
No
S92621
AS4-1
Unknown
22/01/2021
03/03/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client** (Test result apply to sample as received)
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.9Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	22 %
Moisture Content (%)	Dry Density Mg/m ³
4.5	2.13
6.0	2.20
7.5	2.23
9.1	2.23
10.5	2.20
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.3	2.23



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 779163

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

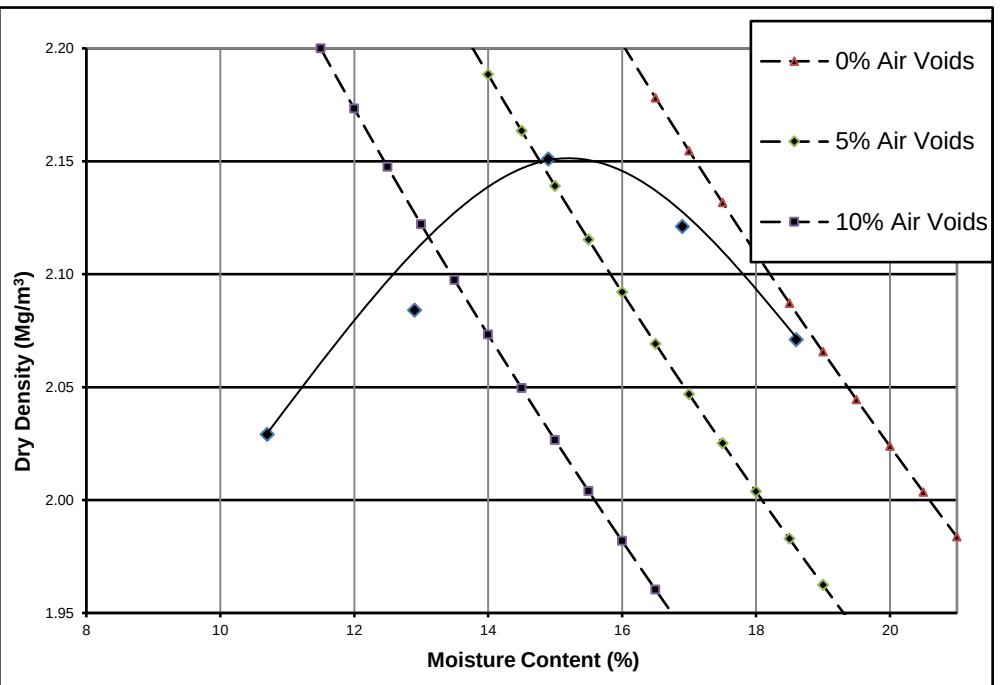
No
S92621
AU7-1
Unknown
22/01/2021
24/02/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	16 %
Moisture Content (%)	Dry Density Mg/m ³
10.7	2.03
12.9	2.08
14.9	2.15
16.9	2.12
18.6	2.07
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	2.15



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 785981

Page 1 of 1

LABORATORY TEST REPORT

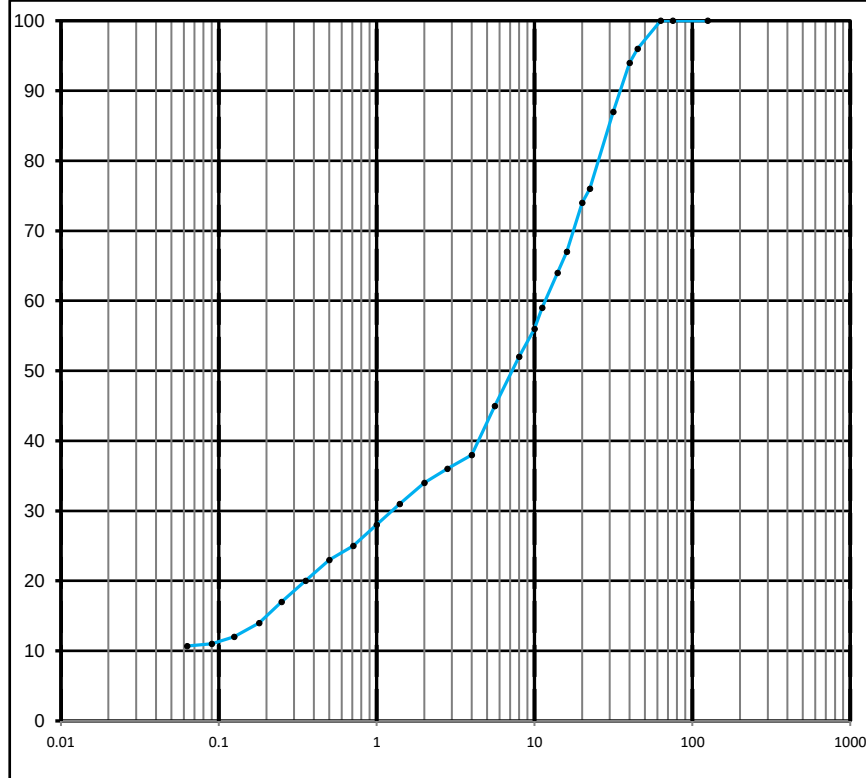
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AK10-1 @ 0.6M	Sampled By:	Client
Date and Time of Sampling:	19/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	96	
40.0 mm	94	
31.5 mm	87	
22.4 mm	76	
20.0 mm	74	
16.0 mm	67	
14.0 mm	64	
11.2 mm	59	
10.0 mm	56	
8.0 mm	52	
5.6 mm	45	
4.0 mm	38	
2.8 mm	36	
2.0 mm	34	
1.4 mm	31	
1.0 mm	28	
0.710 mm	25	
0.500 mm	23	
0.355 mm	20	
0.250 mm	17	
0.180 mm	14	
0.125 mm	12	
0.090 mm	11	
0.063 mm	10.7	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 785982

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AK10-1 @ 0.6M
Date and Time of Sampling:	19/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 May 2021
Test Report Ref: TR 785983

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

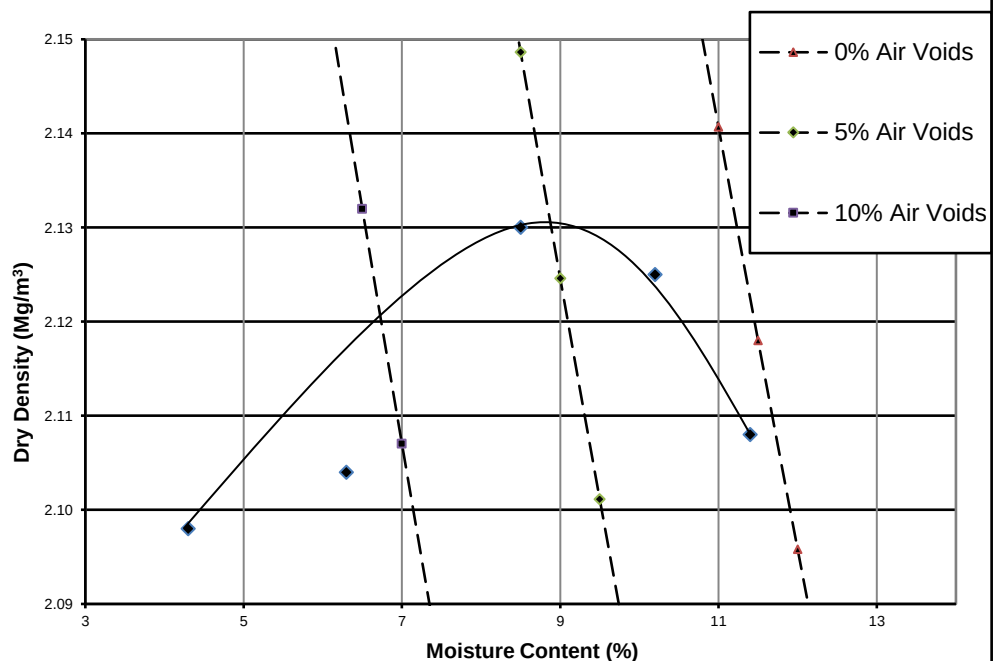
No
S93278
AK10-1 @ 0.6M
19/01/2021
22/02/2021
07/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	2 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
4.3	2.10
6.3	2.10
8.5	2.13
10.2	2.13
11.4	2.11
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.0	2.13



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 785984

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AK10-1 @ 0.6M
Date and Time of Sampling:	19/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.53 Mg/m ³
Apparent Particle density =	2.63 Mg/m ³
Water absorption (of dry mass) =	2.5%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786012

Page 1 of 1

LABORATORY TEST REPORT

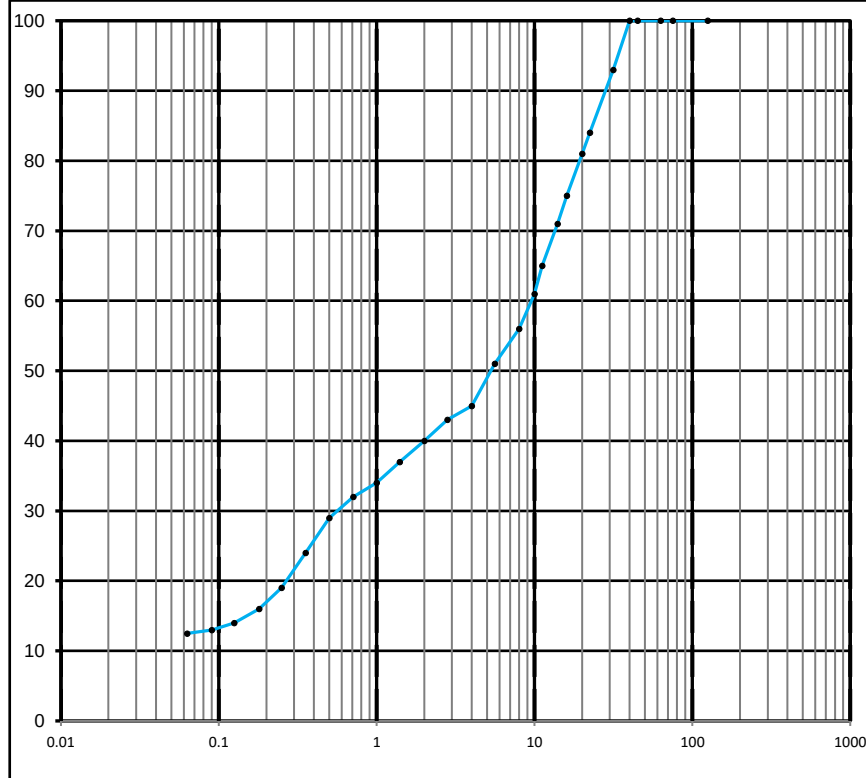
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AH6-1 @ 0.5M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	100	
31.5 mm	93	
22.4 mm	84	
20.0 mm	81	
16.0 mm	75	
14.0 mm	71	
11.2 mm	65	
10.0 mm	61	
8.0 mm	56	
5.6 mm	51	
4.0 mm	45	
2.8 mm	43	
2.0 mm	40	
1.4 mm	37	
1.0 mm	34	
0.710 mm	32	
0.500 mm	29	
0.355 mm	24	
0.250 mm	19	
0.180 mm	16	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786013

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH6-1 @ 0.5M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786014

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

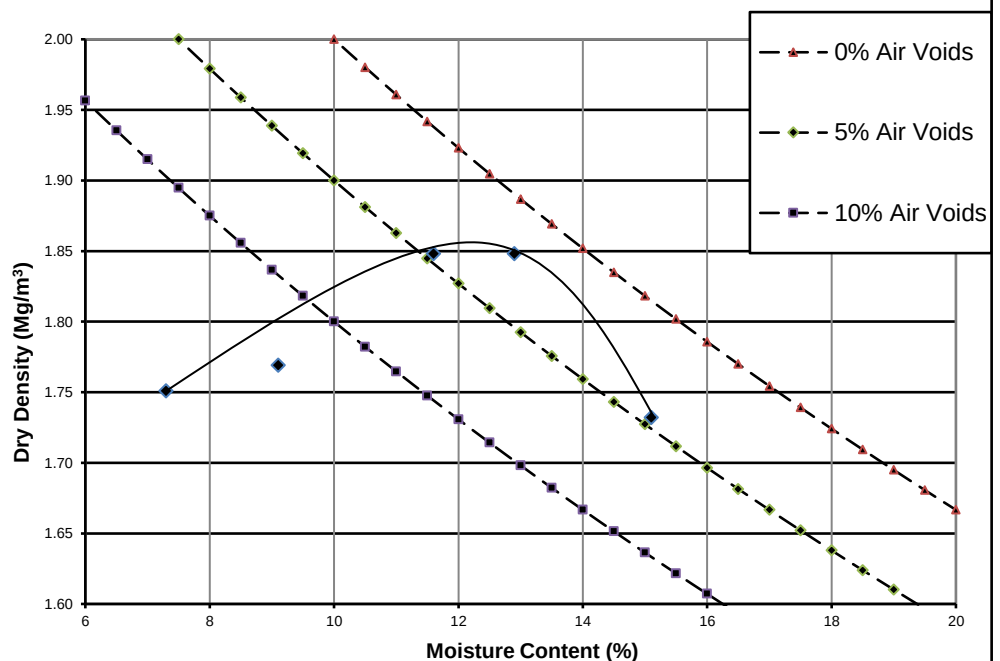
No
S93278
AH6-1 @ 0.5M
Unknown
22/02/2021
12/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.1**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.5Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	1 %
Retained on 20mm Sieve:	16 %
Moisture Content (%)	Dry Density Mg/m ³
7.3	1.75
9.1	1.77
11.6	1.85
12.9	1.85
15.1	1.73
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.86



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786015

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH6-1 @ 0.5M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.93 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.99 Mg/m ³
Apparent Particle density =	2.06 Mg/m ³
Water absorption (of dry mass) =	3.1%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786017

Page 1 of 1

LABORATORY TEST REPORT

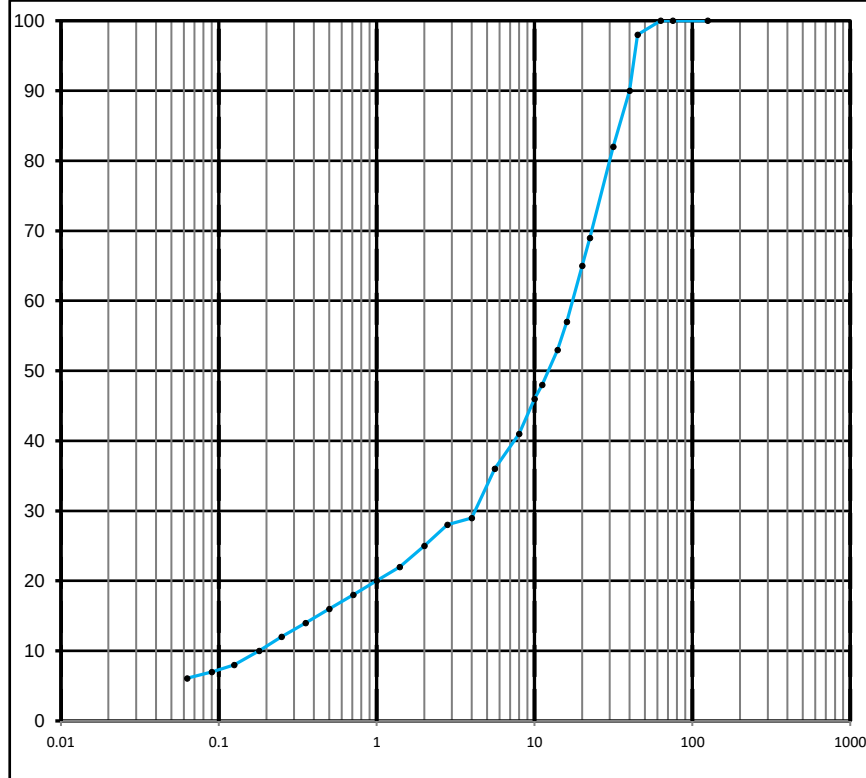
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AH7-1 @ 0.4M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	98	
40.0 mm	90	
31.5 mm	82	
22.4 mm	69	
20.0 mm	65	
16.0 mm	57	
14.0 mm	53	
11.2 mm	48	
10.0 mm	46	
8.0 mm	41	
5.6 mm	36	
4.0 mm	29	
2.8 mm	28	
2.0 mm	25	
1.4 mm	22	
1.0 mm	20	
0.710 mm	18	
0.500 mm	16	
0.355 mm	14	
0.250 mm	12	
0.180 mm	10	
0.125 mm	8	
0.090 mm	7	
0.063 mm	6.1	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786018

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH7-1 @ 0.4M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 May 2021
Test Report Ref: TR 786019

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

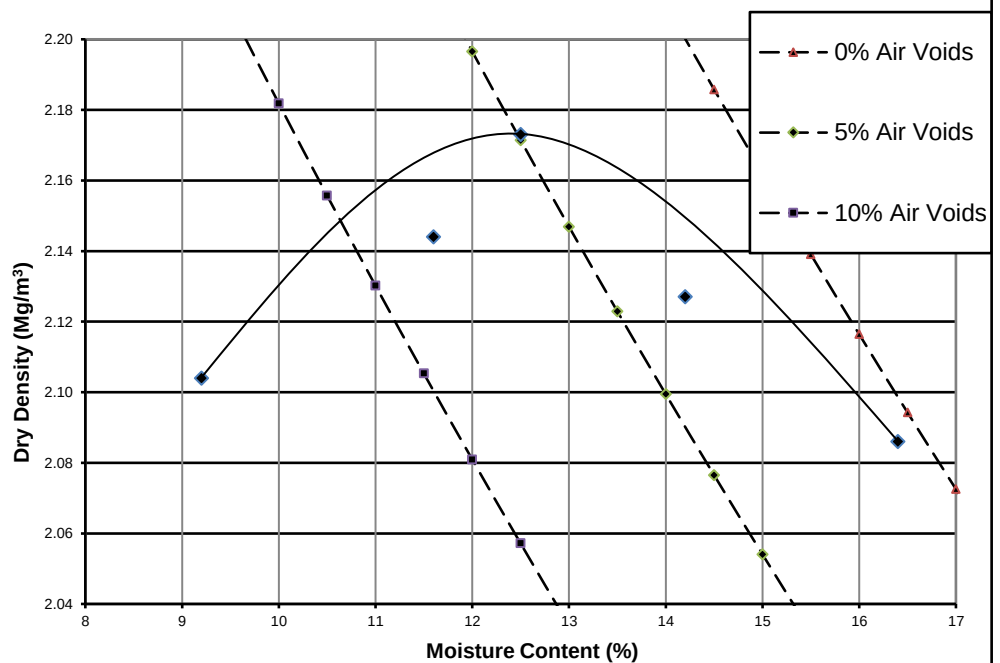
No
S93278
AH7-1 @ 0.4M
Unknown
22/02/2021
14/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	32 %
Moisture Content (%)	Dry Density Mg/m ³
9.2	2.10
11.6	2.14
12.5	2.17
14.2	2.13
16.4	2.09
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
13.0	2.17



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786020

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH7-1 @ 0.4M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.39 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.46 Mg/m ³
Apparent Particle density =	2.58 Mg/m ³
Water absorption (of dry mass) =	3%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786021

Page 1 of 1

LABORATORY TEST REPORT

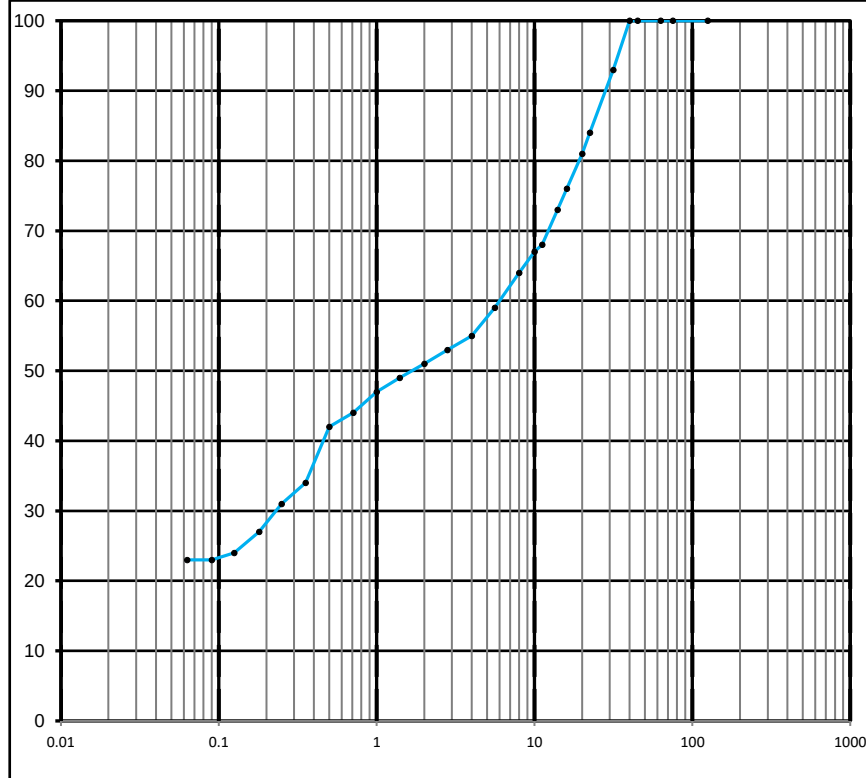
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AH8 @ 0.1M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	100	
31.5 mm	93	
22.4 mm	84	
20.0 mm	81	
16.0 mm	76	
14.0 mm	73	
11.2 mm	68	
10.0 mm	67	
8.0 mm	64	
5.6 mm	59	
4.0 mm	55	
2.8 mm	53	
2.0 mm	51	
1.4 mm	49	
1.0 mm	47	
0.710 mm	44	
0.500 mm	42	
0.355 mm	34	
0.250 mm	31	
0.180 mm	27	
0.125 mm	24	
0.090 mm	23	
0.063 mm	23.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786022

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH8 @ 0.1M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 May 2021
Test Report Ref: TR 786023

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

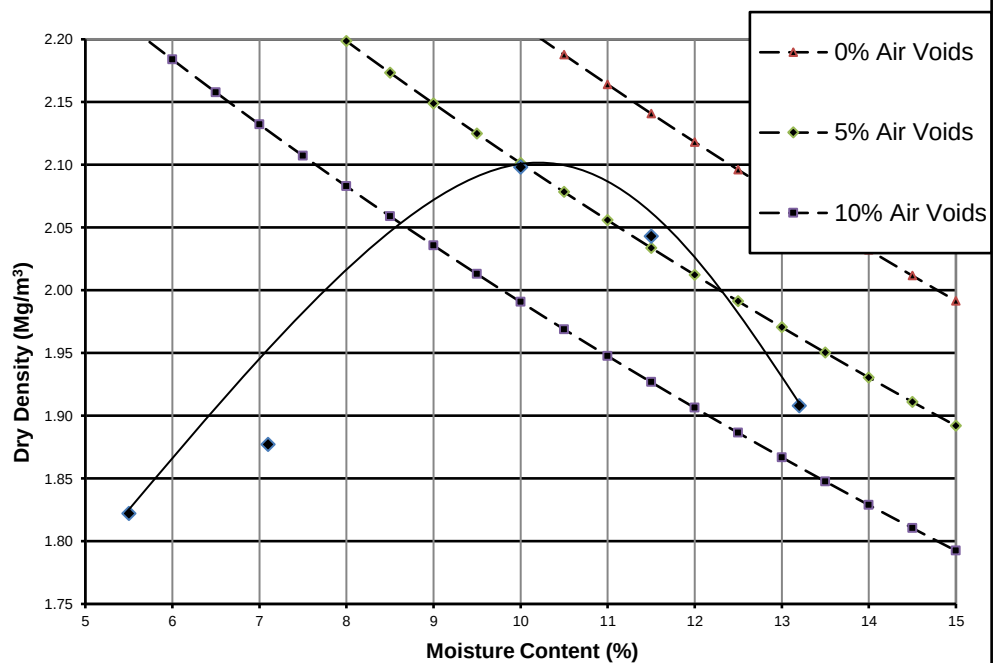
No
S93278
AH8 @ 0.1M
Unknown
22/02/2021
06/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.84Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	18 %
Moisture Content (%)	Dry Density Mg/m ³
5.5	1.82
7.1	1.88
10.0	2.10
11.5	2.04
13.2	1.91
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.10



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786024

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH8 @ 0.1M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.63 Mg/m ³
Apparent Particle density =	2.72 Mg/m ³
Water absorption (of dry mass) =	2.2%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786026

Page 1 of 1

LABORATORY TEST REPORT

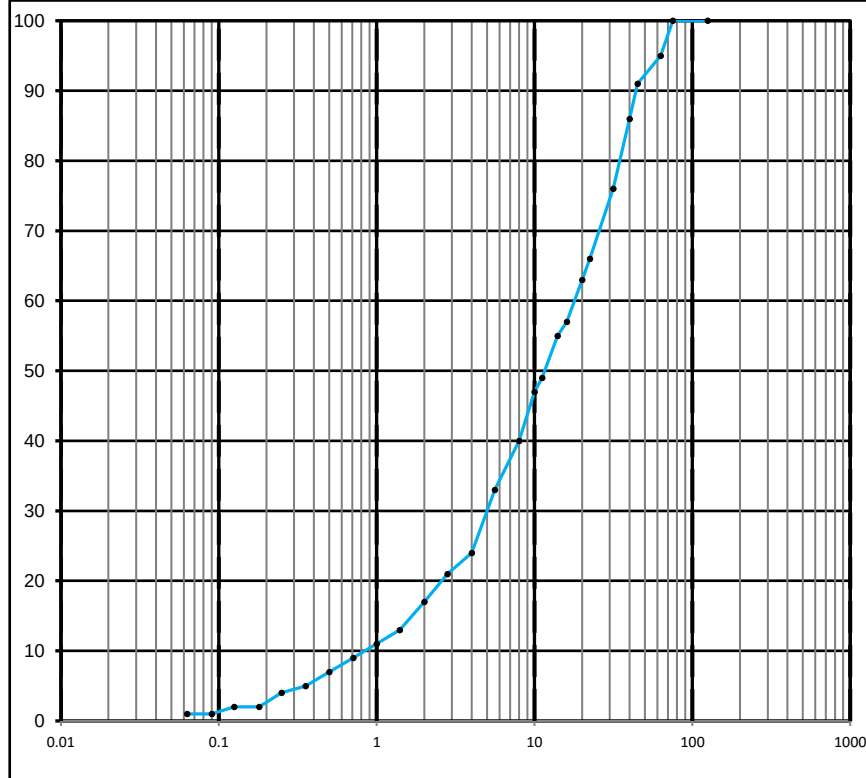
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AG7-1 @ 0.5M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
45.0 mm	91	
40.0 mm	86	
31.5 mm	76	
22.4 mm	66	
20.0 mm	63	
16.0 mm	57	
14.0 mm	55	
11.2 mm	49	
10.0 mm	47	
8.0 mm	40	
5.6 mm	33	
4.0 mm	24	
2.8 mm	21	
2.0 mm	17	
1.4 mm	13	
1.0 mm	11	
0.710 mm	9	
0.500 mm	7	
0.355 mm	5	
0.250 mm	4	
0.180 mm	2	
0.125 mm	2	
0.090 mm	1	
0.063 mm	1.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786027

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG7-1 @ 0.5M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 May 2021
Test Report Ref: TR 786028

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

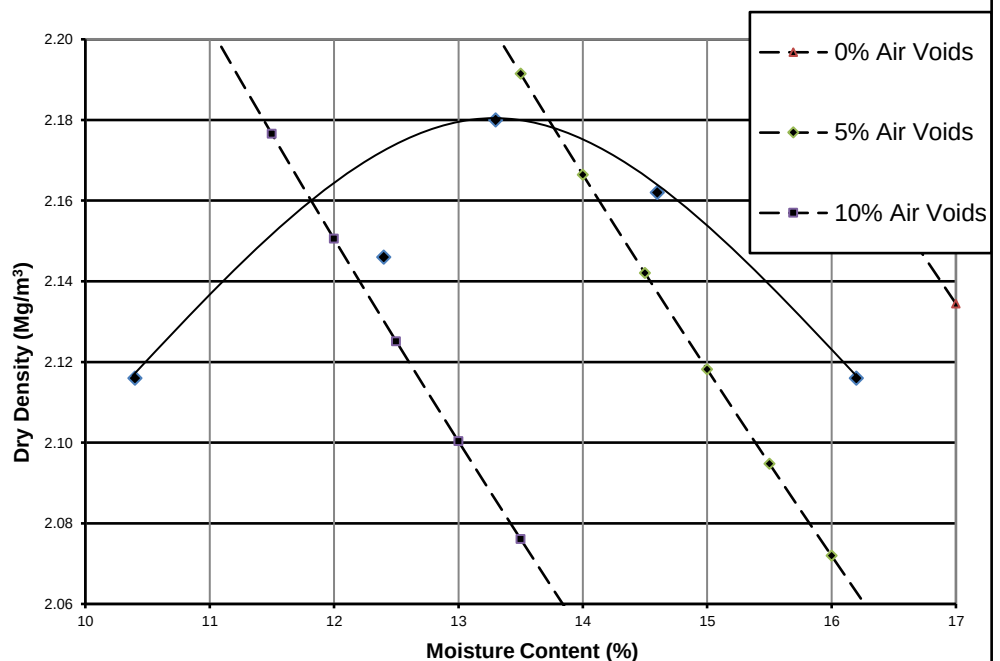
No
S93278
AG7-1 @ 0.5M
Unknown
22/02/2021
12/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.35Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	10 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
10.4	2.12
12.4	2.15
13.3	2.18
14.6	2.16
16.2	2.12
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
13.0	2.18



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786029

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG7-1 @ 0.5M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.58 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.69 Mg/m ³
Apparent Particle density =	2.90 Mg/m ³
Water absorption (of dry mass) =	4.2%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786030

Page 1 of 1

LABORATORY TEST REPORT

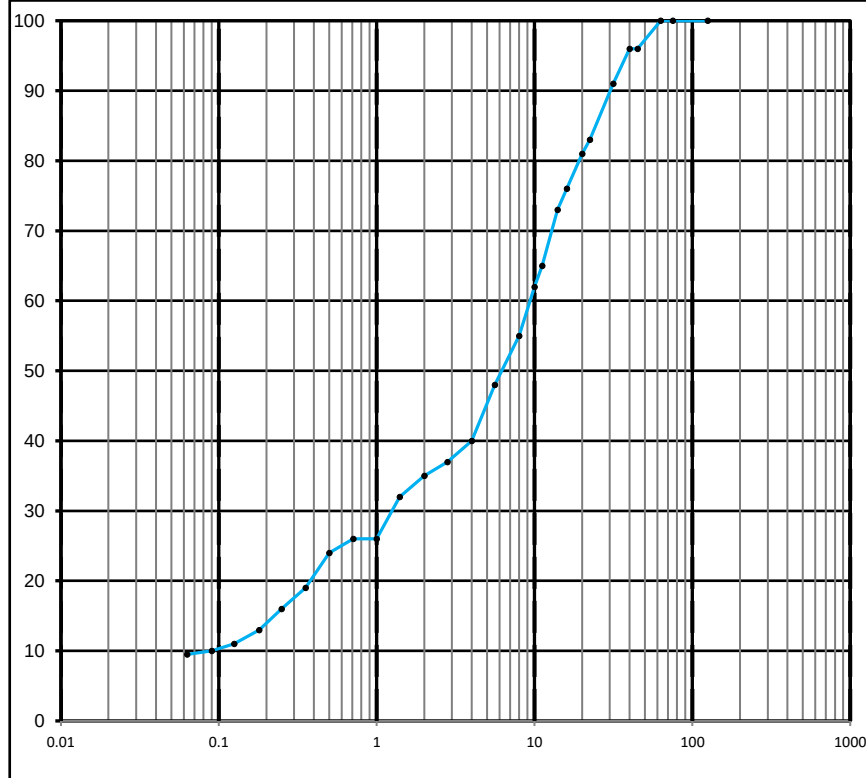
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AG8 @ 0.2M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	96	
40.0 mm	96	
31.5 mm	91	
22.4 mm	83	
20.0 mm	81	
16.0 mm	76	
14.0 mm	73	
11.2 mm	65	
10.0 mm	62	
8.0 mm	55	
5.6 mm	48	
4.0 mm	40	
2.8 mm	37	
2.0 mm	35	
1.4 mm	32	
1.0 mm	26	
0.710 mm	26	
0.500 mm	24	
0.355 mm	19	
0.250 mm	16	
0.180 mm	13	
0.125 mm	11	
0.090 mm	10	
0.063 mm	9.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786031

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG8 @ 0.2M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 May 2021
Test Report Ref: TR 786032

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

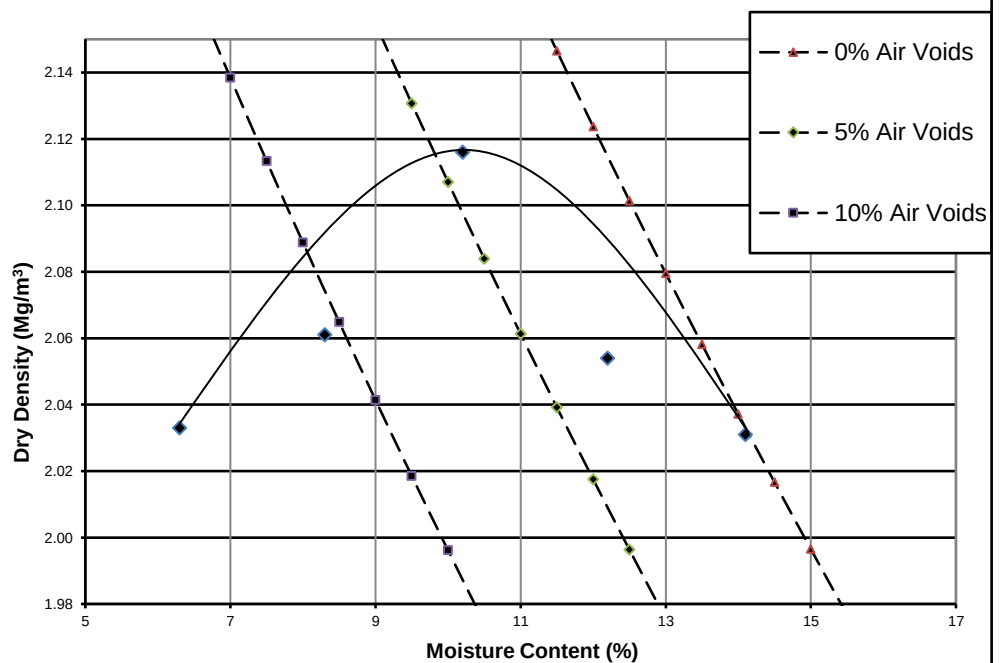
No
S93278
AG8 @ 0.2M
Unknown
22/02/2021
13/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **JH**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.85Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	8 %
Moisture Content (%)	Dry Density Mg/m ³
6.3	2.03
8.3	2.06
10.2	2.12
12.2	2.05
14.1	2.03
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.12



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786033

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG8 @ 0.2M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.42 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.50 Mg/m ³
Apparent Particle density =	2.63 Mg/m ³
Water absorption (of dry mass) =	3.2%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786103

Page 1 of 1

LABORATORY TEST REPORT

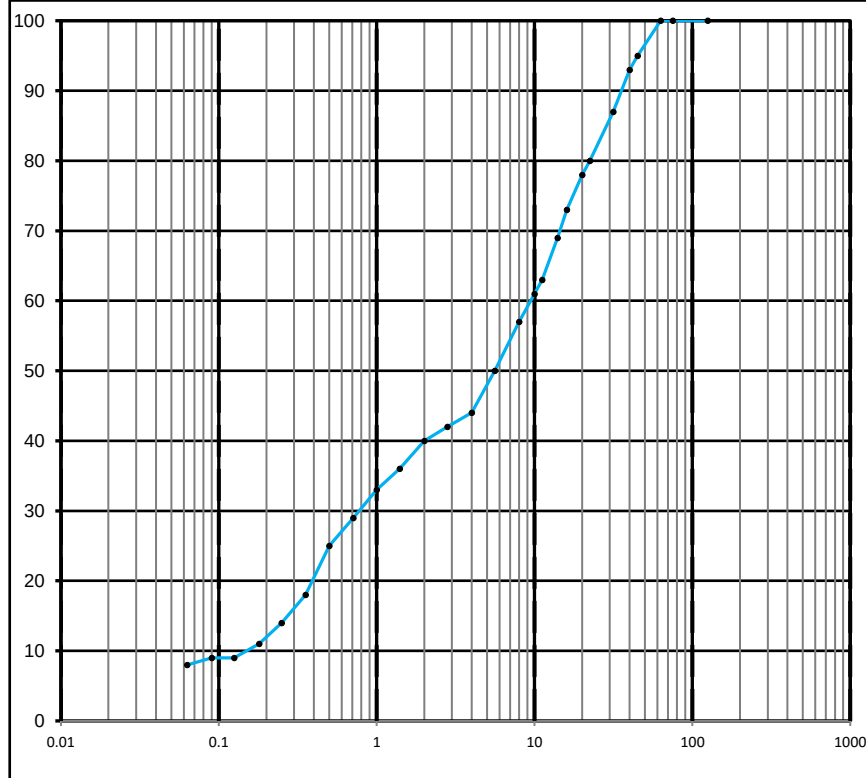
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AI3-1 @ 0.5M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	95	
40.0 mm	93	
31.5 mm	87	
22.4 mm	80	
20.0 mm	78	
16.0 mm	73	
14.0 mm	69	
11.2 mm	63	
10.0 mm	61	
8.0 mm	57	
5.6 mm	50	
4.0 mm	44	
2.8 mm	42	
2.0 mm	40	
1.4 mm	36	
1.0 mm	33	
0.710 mm	29	
0.500 mm	25	
0.355 mm	18	
0.250 mm	14	
0.180 mm	11	
0.125 mm	9	
0.090 mm	9	
0.063 mm	8.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786104

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	A13-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 23.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786105

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

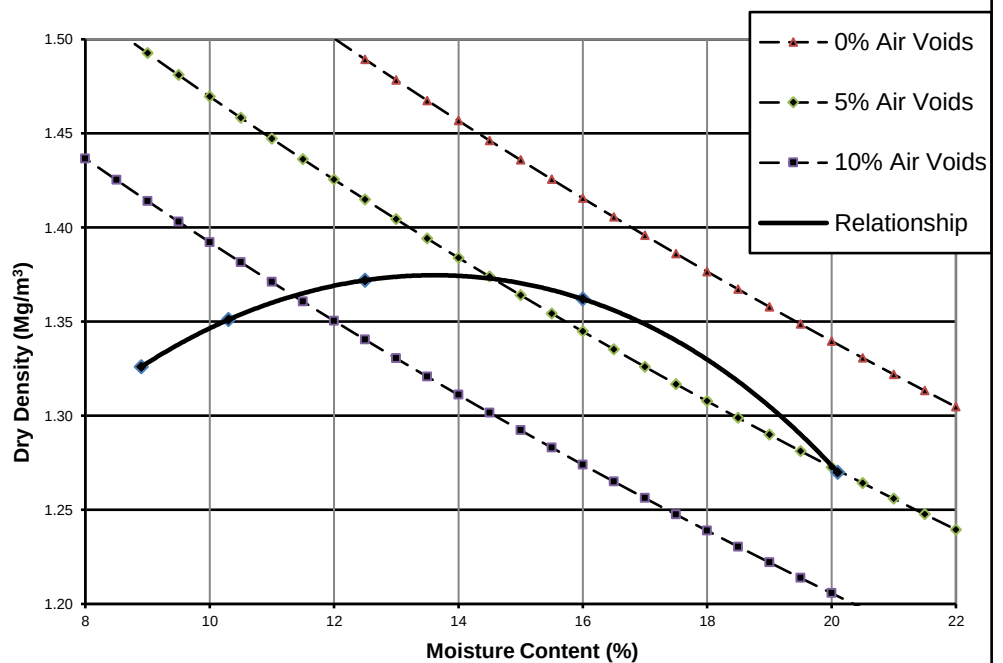
No
S93278
A13-1 @ 0.5M
20/01/2021
22/02/2021
12/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 1.83Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	13 %
Moisture Content (%)	Dry Density Mg/m ³
8.9	1.33
10.3	1.35
12.5	1.37
16.0	1.36
20.1	1.27
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.37



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786106

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AI3-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.79 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.92 Mg/m ³
Apparent Particle density =	2.06 Mg/m ³
Water absorption (of dry mass) =	7.4%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Mathew Sayer Aggregate Team Manager
---------------------------------	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786109

Page 1 of 1

LABORATORY TEST REPORT

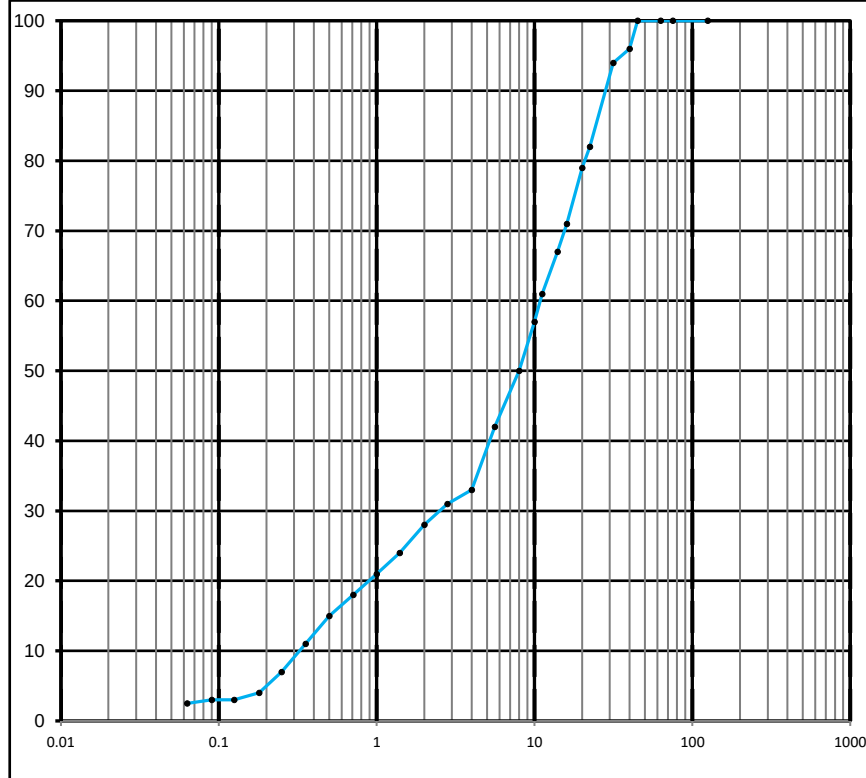
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AI2-1 @ 0.5M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	96	
31.5 mm	94	
22.4 mm	82	
20.0 mm	79	
16.0 mm	71	
14.0 mm	67	
11.2 mm	61	
10.0 mm	57	
8.0 mm	50	
5.6 mm	42	
4.0 mm	33	
2.8 mm	31	
2.0 mm	28	
1.4 mm	24	
1.0 mm	21	
0.710 mm	18	
0.500 mm	15	
0.355 mm	11	
0.250 mm	7	
0.180 mm	4	
0.125 mm	3	
0.090 mm	3	
0.063 mm	2.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 May 2021
Test Report Ref: TR 786112

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

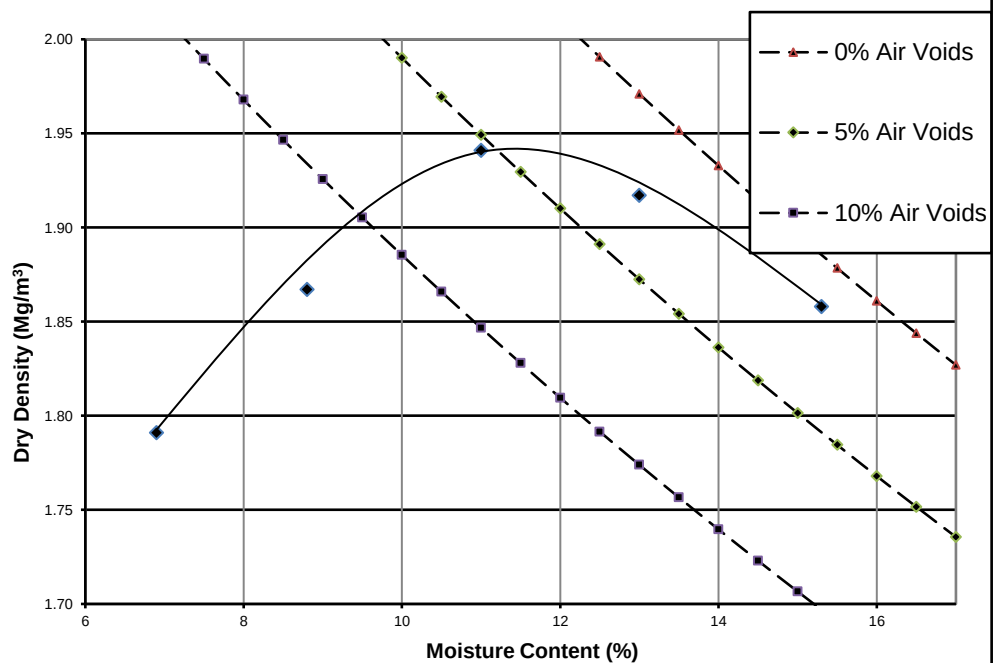
No
S93278
A12-1 @ 0.5M
20/01/2021
22/02/2021
27/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	15 %
Moisture Content (%)	Dry Density Mg/m ³
6.9	1.79
8.8	1.87
11.0	1.94
13.0	1.92
15.3	1.86
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	1.94



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786113

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AI2-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.56 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.66 Mg/m ³
Apparent Particle density =	2.86 Mg/m ³
Water absorption (of dry mass) =	4.2%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786115

Page 1 of 1

LABORATORY TEST REPORT

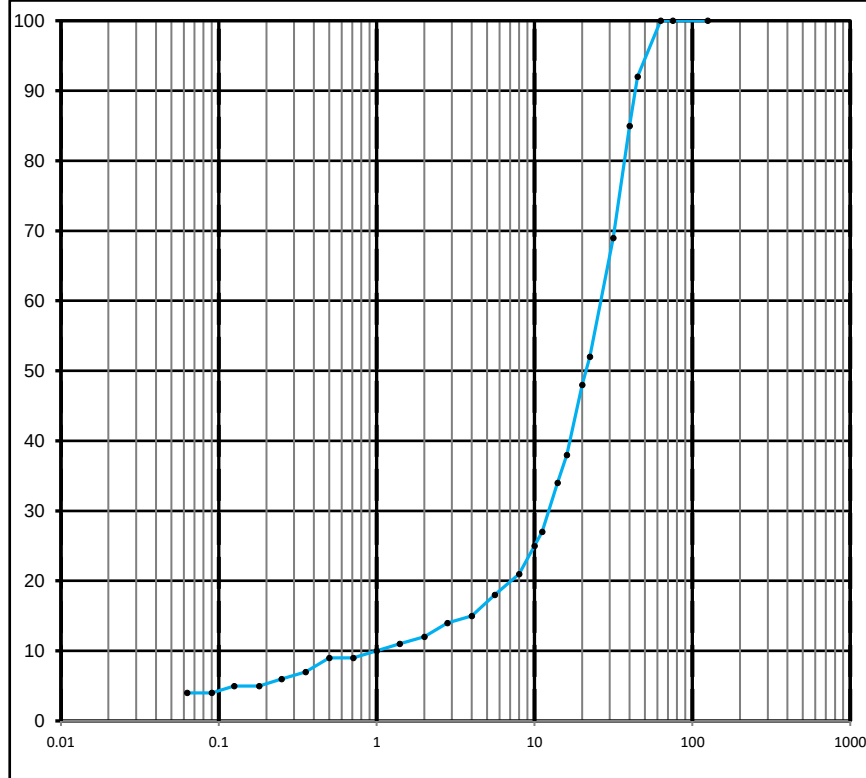
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AJ2-1 @ 1.5M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	92	
40.0 mm	85	
31.5 mm	69	
22.4 mm	52	
20.0 mm	48	
16.0 mm	38	
14.0 mm	34	
11.2 mm	27	
10.0 mm	25	
8.0 mm	21	
5.6 mm	18	
4.0 mm	15	
2.8 mm	14	
2.0 mm	12	
1.4 mm	11	
1.0 mm	10	
0.710 mm	9	
0.500 mm	9	
0.355 mm	7	
0.250 mm	6	
0.180 mm	5	
0.125 mm	5	
0.090 mm	4	
0.063 mm	4.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786116

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ2-1 @ 1.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 7.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 May 2021
Test Report Ref: TR 786118

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

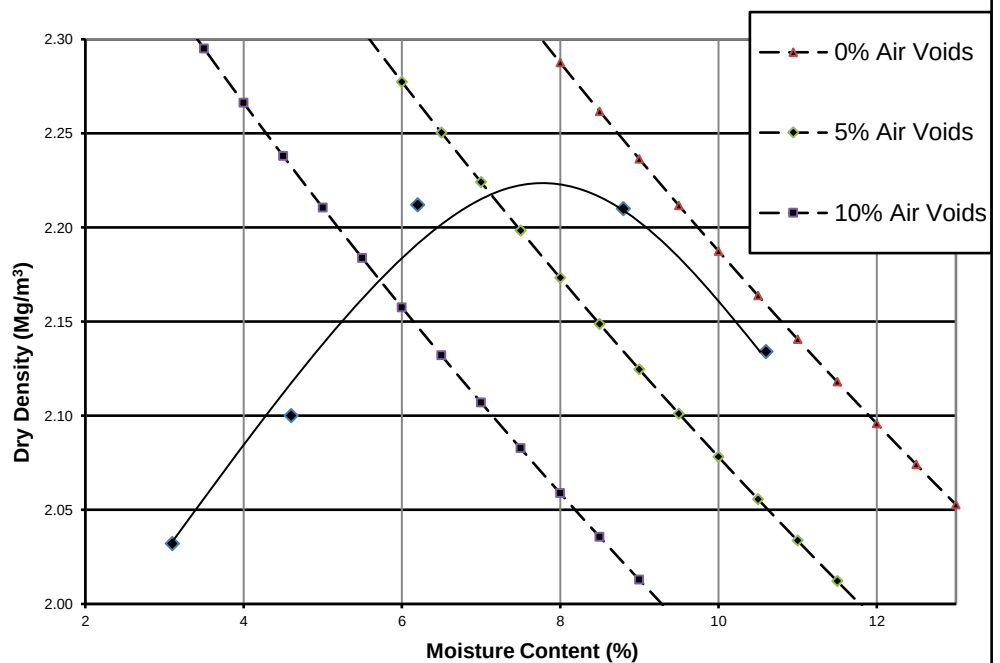
No
S93278
AJ2-1 @ 1.5M
20/01/2021
22/02/2021
18/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **JH**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	9 %
Moisture Content (%)	Dry Density Mg/m ³
3.1	2.03
4.6	2.10
6.2	2.21
8.8	2.21
10.6	2.13
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.0	2.22



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786119

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ2-1 @ 1.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.56 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.61 Mg/m ³
Apparent Particle density =	2.69 Mg/m ³
Water absorption (of dry mass) =	1.9%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786122

Page 1 of 1

LABORATORY TEST REPORT

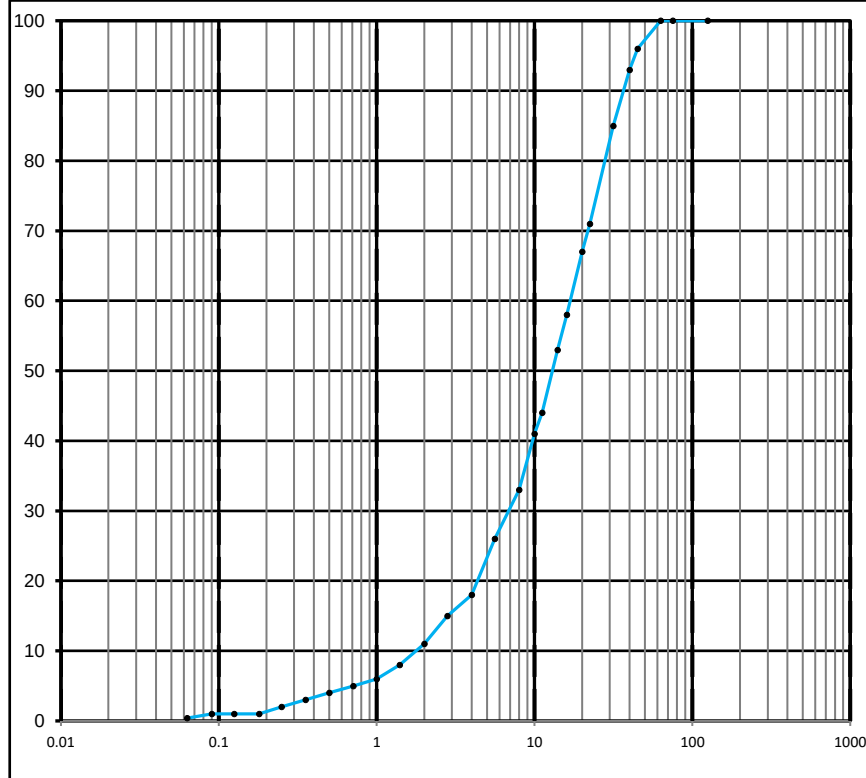
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AF4-1 @ 0.5M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	96	
40.0 mm	93	
31.5 mm	85	
22.4 mm	71	
20.0 mm	67	
16.0 mm	58	
14.0 mm	53	
11.2 mm	44	
10.0 mm	41	
8.0 mm	33	
5.6 mm	26	
4.0 mm	18	
2.8 mm	15	
2.0 mm	11	
1.4 mm	8	
1.0 mm	6	
0.710 mm	5	
0.500 mm	4	
0.355 mm	3	
0.250 mm	2	
0.180 mm	1	
0.125 mm	1	
0.090 mm	1	
0.063 mm	0.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786123

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF4-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 May 2021
Test Report Ref: TR 786124

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

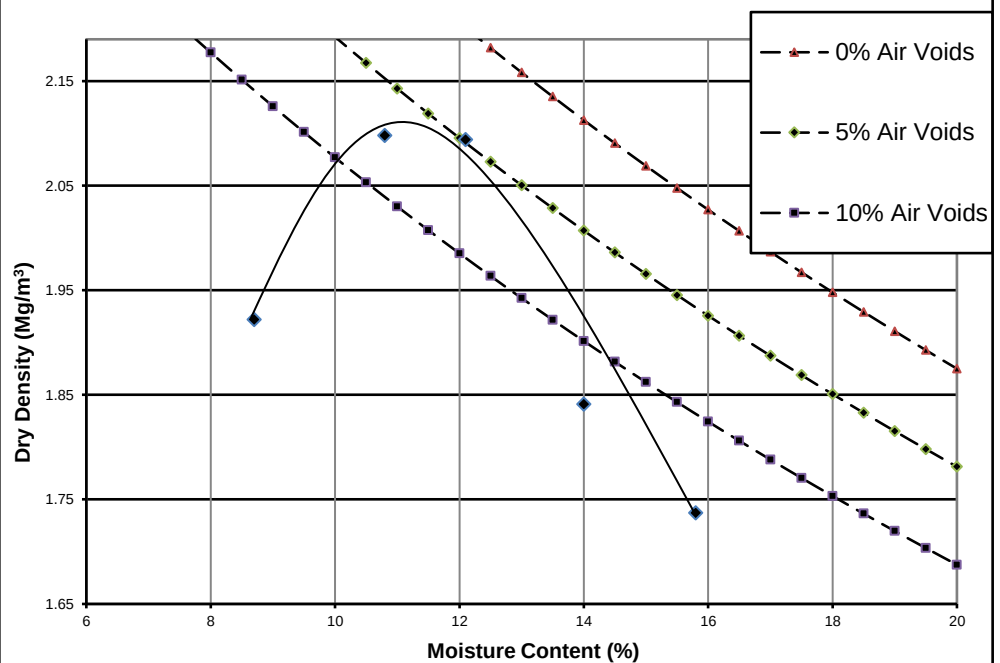
No
S93278
AF4-1 @ 0.5M
20/01/2021
22/02/2021
12/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	27 %
Moisture Content (%)	Dry Density Mg/m ³
8.7	1.92
10.8	2.10
12.1	2.09
14.0	1.84
15.8	1.74
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.12



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786126

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF4-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.86 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.97 Mg/m ³
Apparent Particle density =	3.23 Mg/m ³
Water absorption (of dry mass) =	4%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786127

Page 1 of 1

LABORATORY TEST REPORT

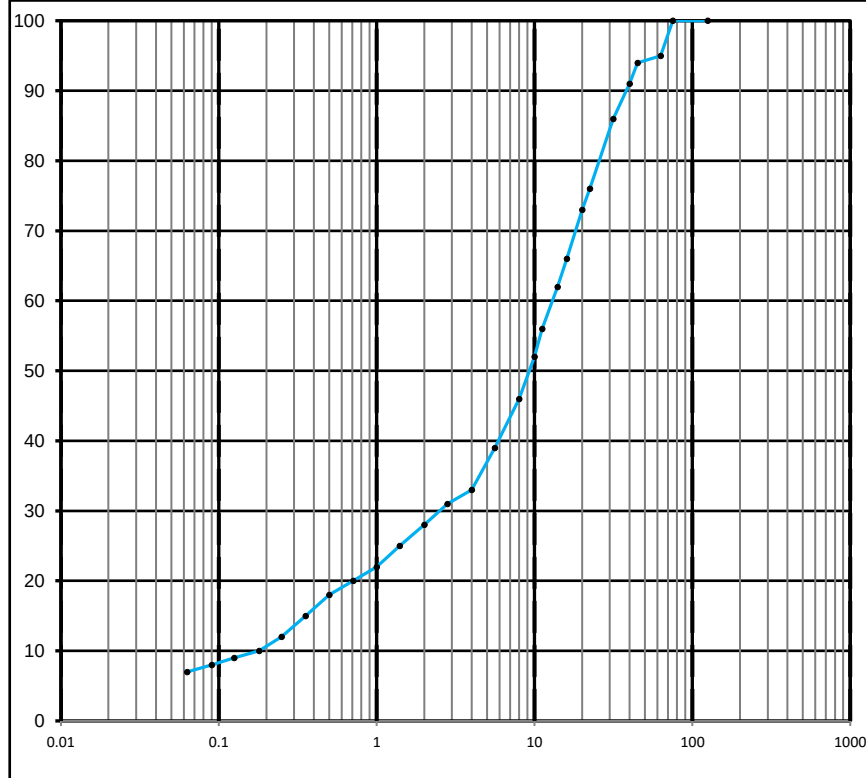
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AG6-1 @ 0.3M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
45.0 mm	94	
40.0 mm	91	
31.5 mm	86	
22.4 mm	76	
20.0 mm	73	
16.0 mm	66	
14.0 mm	62	
11.2 mm	56	
10.0 mm	52	
8.0 mm	46	
5.6 mm	39	
4.0 mm	33	
2.8 mm	31	
2.0 mm	28	
1.4 mm	25	
1.0 mm	22	
0.710 mm	20	
0.500 mm	18	
0.355 mm	15	
0.250 mm	12	
0.180 mm	10	
0.125 mm	9	
0.090 mm	8	
0.063 mm	7.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 06 May 2021
Test Report Ref: TR 786129

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

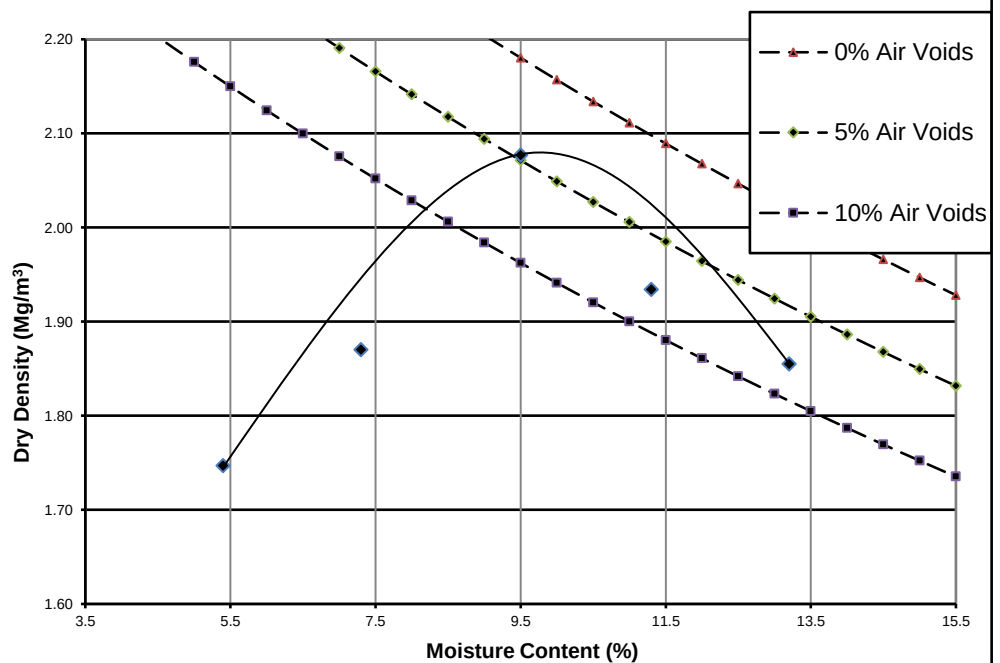
No
S93278
AG6-1 @ 0.3M
20/01/2021
22/02/2021
29/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	20 %
Moisture Content (%)	Dry Density Mg/m ³
5.4	1.75
7.3	1.87
9.5	2.08
11.3	1.93
13.2	1.86
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.5	2.08



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786130

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG6-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.99 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.10 Mg/m ³
Apparent Particle density =	2.24 Mg/m ³
Water absorption (of dry mass) =	5.5%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786132

Page 1 of 1

LABORATORY TEST REPORT

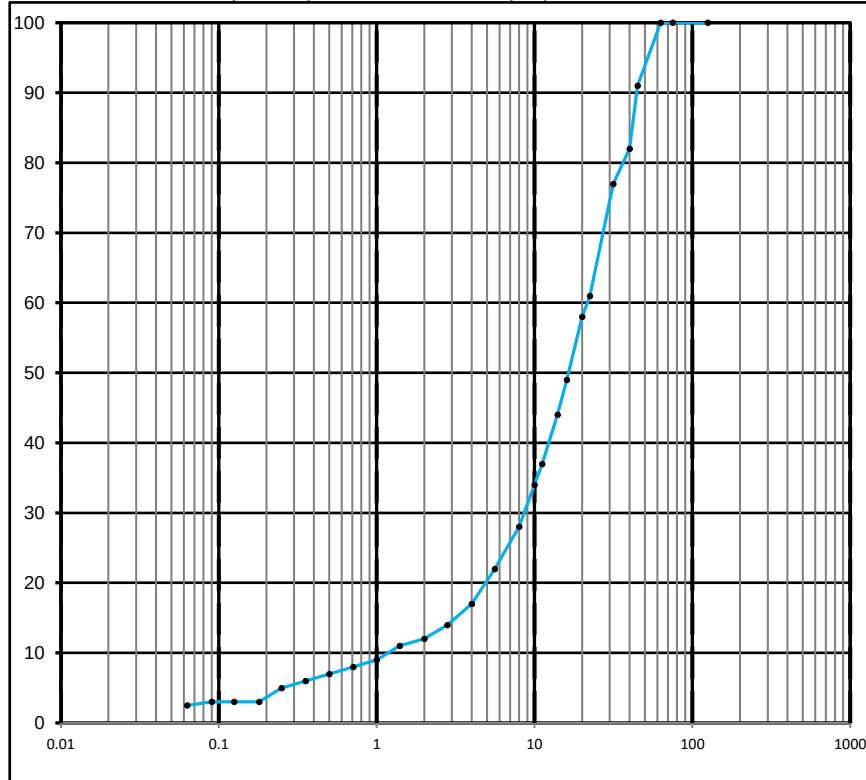
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AG3-1 - 1.9M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	91	
40.0 mm	82	
31.5 mm	77	
22.4 mm	61	
20.0 mm	58	
16.0 mm	49	
14.0 mm	44	
11.2 mm	37	
10.0 mm	34	
8.0 mm	28	
5.6 mm	22	
4.0 mm	17	
2.8 mm	14	
2.0 mm	12	
1.4 mm	11	
1.0 mm	9	
0.710 mm	8	
0.500 mm	7	
0.355 mm	6	
0.250 mm	5	
0.180 mm	3	
0.125 mm	3	
0.090 mm	3	
0.063 mm	2.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786133

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG3-1 - 1.9M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 May 2021
Test Report Ref: TR 786134

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

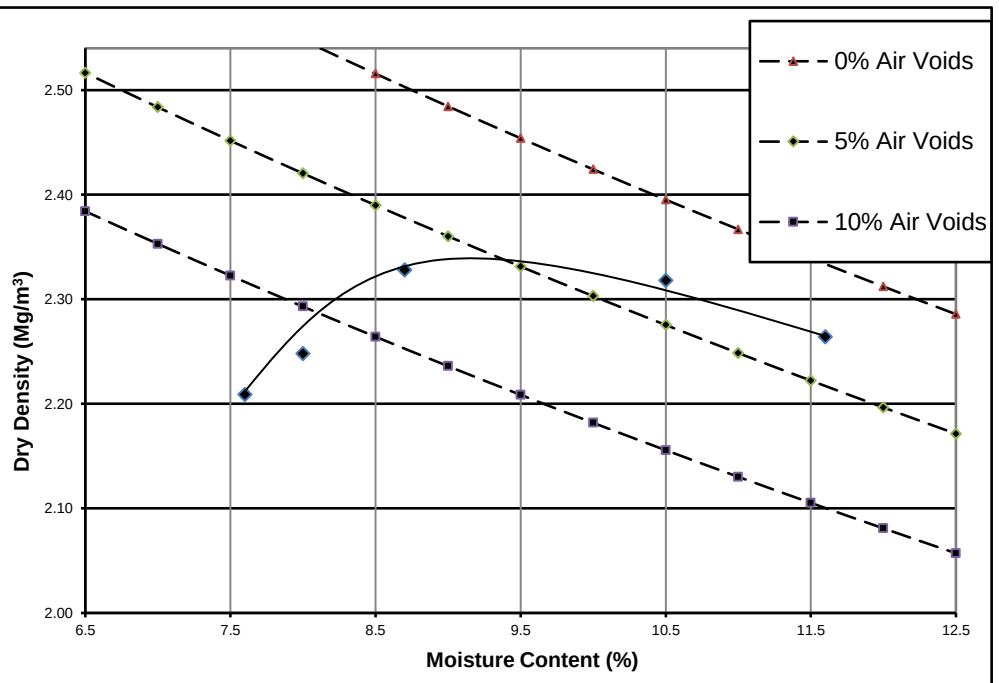
No
S93278
AG3-1 - 1.9M
20/01/2021
22/02/2021
13/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **JH**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	26 %
Retained on 20mm Sieve:	31 %
Moisture Content (%)	Dry Density Mg/m ³
7.6	2.21
8.0	2.25
8.7	2.33
10.5	2.32
11.6	2.26
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.5	2.35



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786135

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG3-1 - 1.9M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.87 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.96 Mg/m ³
Apparent Particle density =	3.15 Mg/m ³
Water absorption (of dry mass) =	3%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786136

Page 1 of 1

LABORATORY TEST REPORT

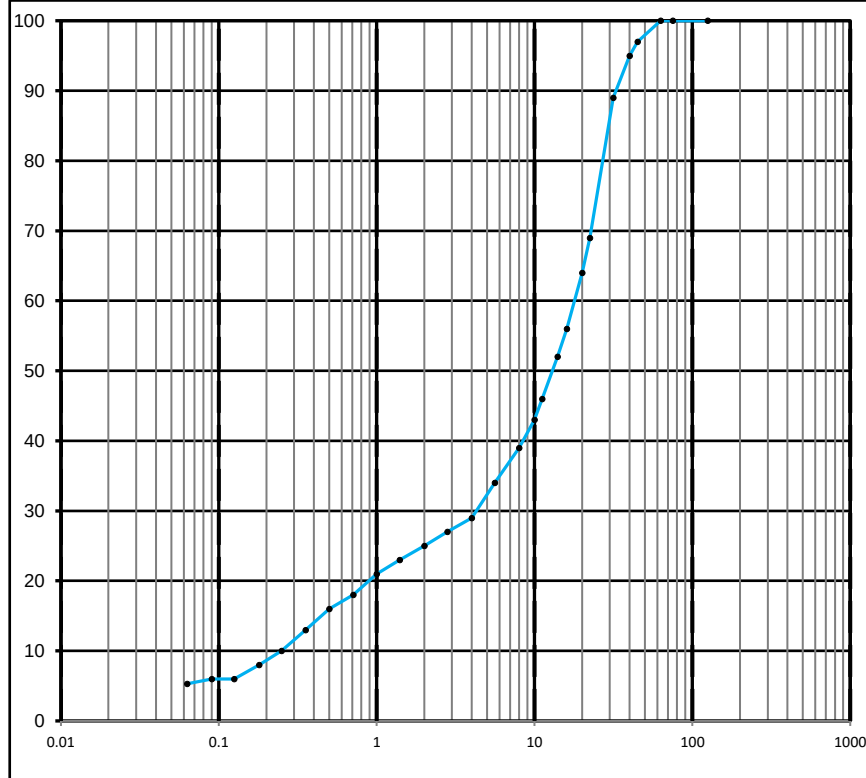
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AE1-1 @ 0.3M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	97	
40.0 mm	95	
31.5 mm	89	
22.4 mm	69	
20.0 mm	64	
16.0 mm	56	
14.0 mm	52	
11.2 mm	46	
10.0 mm	43	
8.0 mm	39	
5.6 mm	34	
4.0 mm	29	
2.8 mm	27	
2.0 mm	25	
1.4 mm	23	
1.0 mm	21	
0.710 mm	18	
0.500 mm	16	
0.355 mm	13	
0.250 mm	10	
0.180 mm	8	
0.125 mm	6	
0.090 mm	6	
0.063 mm	5.3	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 May 2021
Test Report Ref: TR 786137

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AE1-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 May 2021
Test Report Ref: TR 786138

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

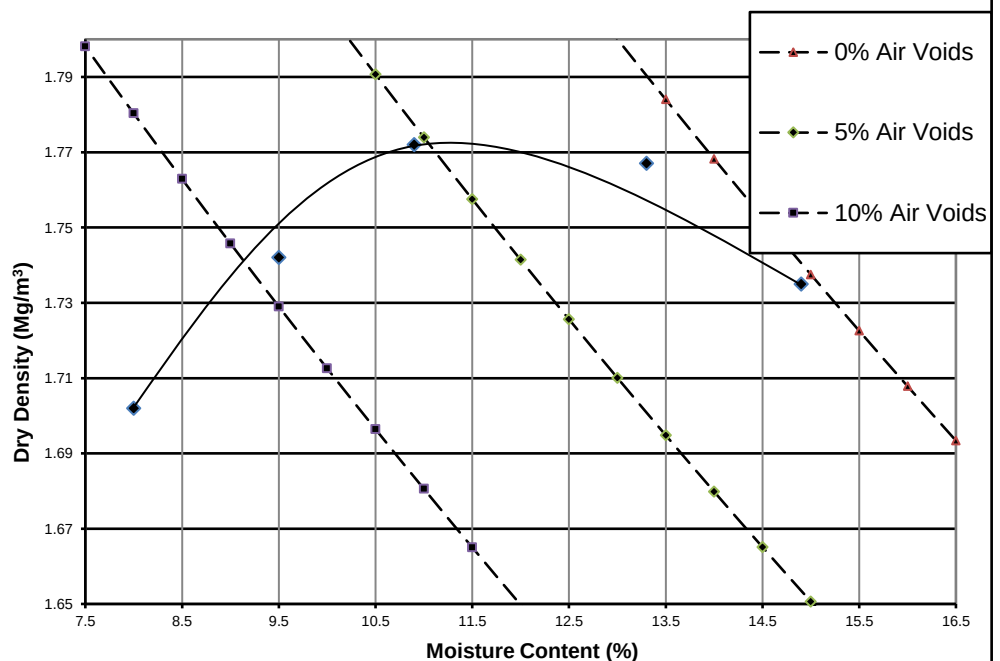
No
S93278
AE1-1 @ 0.3M
20/01/2021
22/02/2021
18/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **JH**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.35Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	14 %
Moisture Content (%)	Dry Density Mg/m ³
8.0	1.70
9.5	1.74
10.9	1.77
13.3	1.77
14.9	1.74
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.77



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786139

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AE1-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.94 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.02 Mg/m ³
Apparent Particle density =	2.10 Mg/m ³
Water absorption (of dry mass) =	4.1%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 786145

Page 1 of 1

LABORATORY TEST REPORT

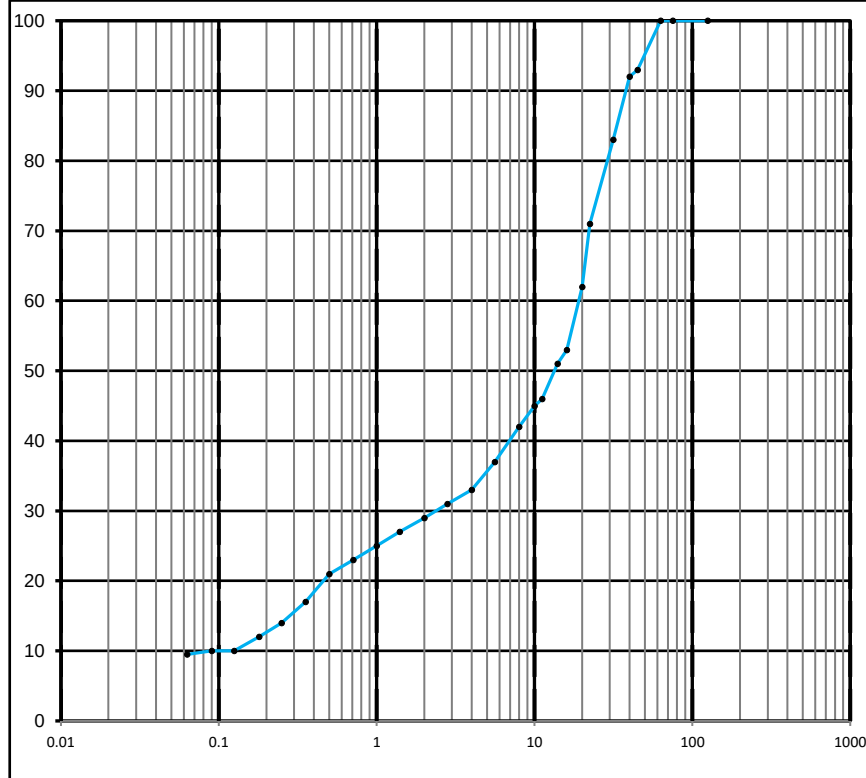
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AJ3-1 @ 0.3M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	93	
40.0 mm	92	
31.5 mm	83	
22.4 mm	71	
20.0 mm	62	
16.0 mm	53	
14.0 mm	51	
11.2 mm	46	
10.0 mm	45	
8.0 mm	42	
5.6 mm	37	
4.0 mm	33	
2.8 mm	31	
2.0 mm	29	
1.4 mm	27	
1.0 mm	25	
0.710 mm	23	
0.500 mm	21	
0.355 mm	17	
0.250 mm	14	
0.180 mm	12	
0.125 mm	10	
0.090 mm	10	
0.063 mm	9.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786146

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ3-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 20.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786147

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

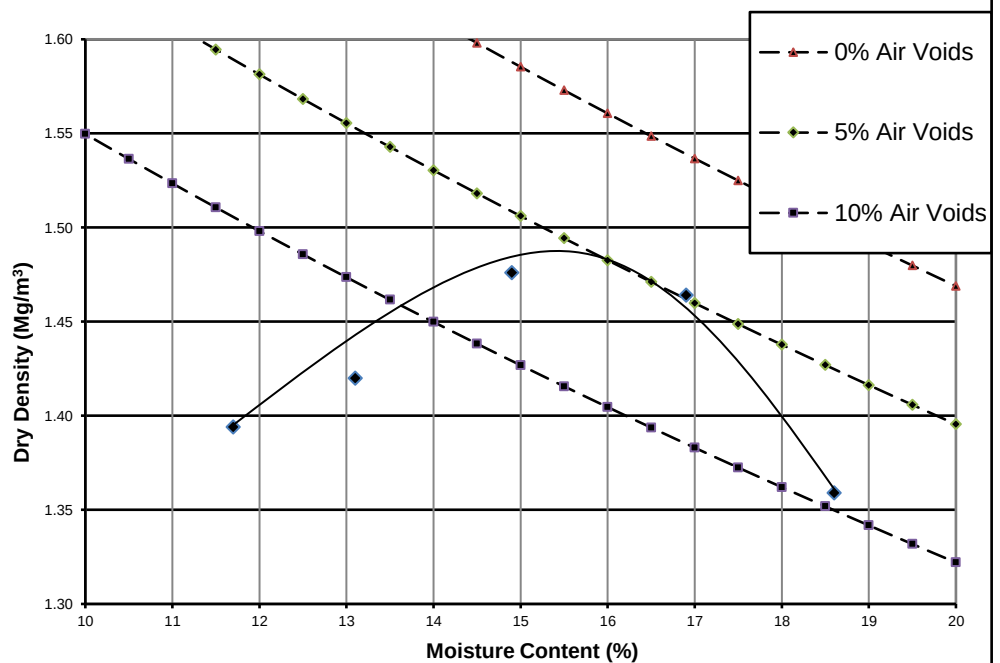
No
S93278
AJ3-1 @ 0.3M
20/01/2021
22/02/2021
11/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.08Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7 %
Retained on 20mm Sieve:	31 %
Moisture Content (%)	Dry Density Mg/m ³
11.7	1.39
13.1	1.42
14.9	1.48
16.9	1.46
18.6	1.36
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
16.0	1.46



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 May 2021
Test Report Ref: TR 786148

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ3-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	29/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.35 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.42 Mg/m ³
Apparent Particle density =	1.46 Mg/m ³
Water absorption (of dry mass) =	5.7%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786154

Page 1 of 1

LABORATORY TEST REPORT

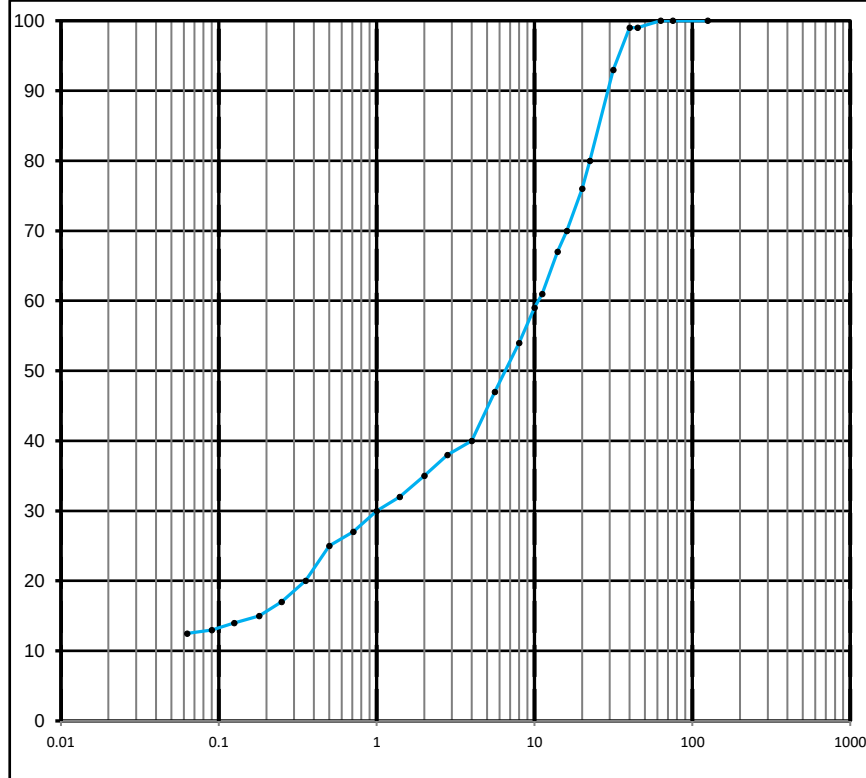
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AF1-1 @ 0.7M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	99	
40.0 mm	99	
31.5 mm	93	
22.4 mm	80	
20.0 mm	76	
16.0 mm	70	
14.0 mm	67	
11.2 mm	61	
10.0 mm	59	
8.0 mm	54	
5.6 mm	47	
4.0 mm	40	
2.8 mm	38	
2.0 mm	35	
1.4 mm	32	
1.0 mm	30	
0.710 mm	27	
0.500 mm	25	
0.355 mm	20	
0.250 mm	17	
0.180 mm	15	
0.125 mm	14	
0.090 mm	13	
0.063 mm	12.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 786155

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.7M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 25 May 2021
Test Report Ref: TR 786156

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

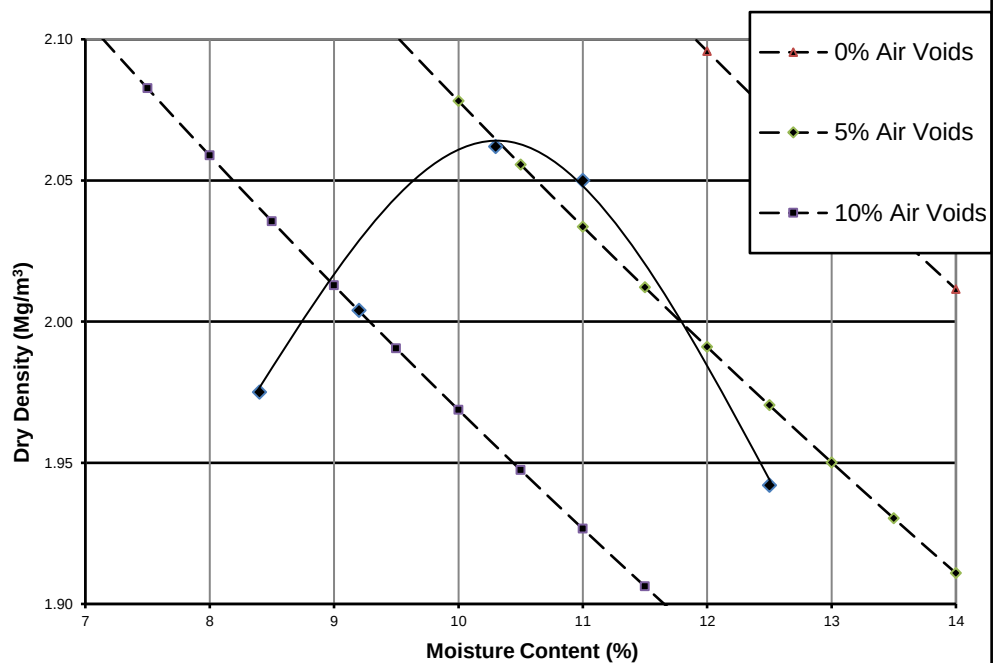
No
S93278
AF1-1 @ 0.7M
20/01/2021
22/02/2021
13/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **JH**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	9 %
Moisture Content (%)	Dry Density Mg/m ³
8.4	1.98
9.2	2.00
10.3	2.06
11.0	2.05
12.5	1.94
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.06



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786157

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.7M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.49 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.57 Mg/m ³
Apparent Particle density =	2.70 Mg/m ³
Water absorption (of dry mass) =	3.1%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786159

Page 1 of 1

LABORATORY TEST REPORT

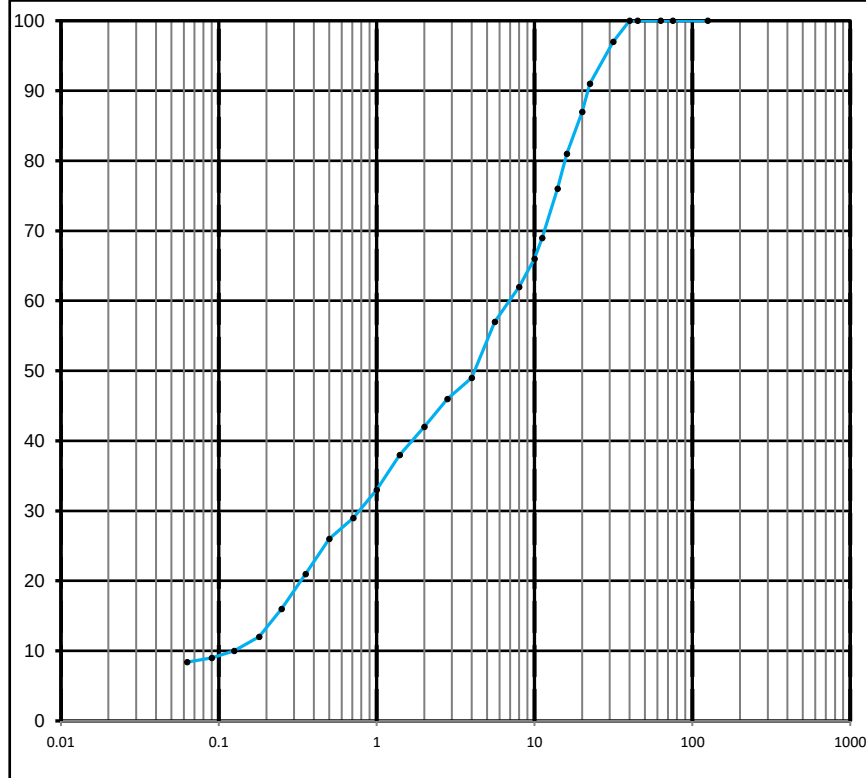
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AD1-1 @ 0.4M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	100	
31.5 mm	97	
22.4 mm	91	
20.0 mm	87	
16.0 mm	81	
14.0 mm	76	
11.2 mm	69	
10.0 mm	66	
8.0 mm	62	
5.6 mm	57	
4.0 mm	49	
2.8 mm	46	
2.0 mm	42	
1.4 mm	38	
1.0 mm	33	
0.710 mm	29	
0.500 mm	26	
0.355 mm	21	
0.250 mm	16	
0.180 mm	12	
0.125 mm	10	
0.090 mm	9	
0.063 mm	8.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786160

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AD1-1 @ 0.4M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 20.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 May 2021
Test Report Ref: TR 786161

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

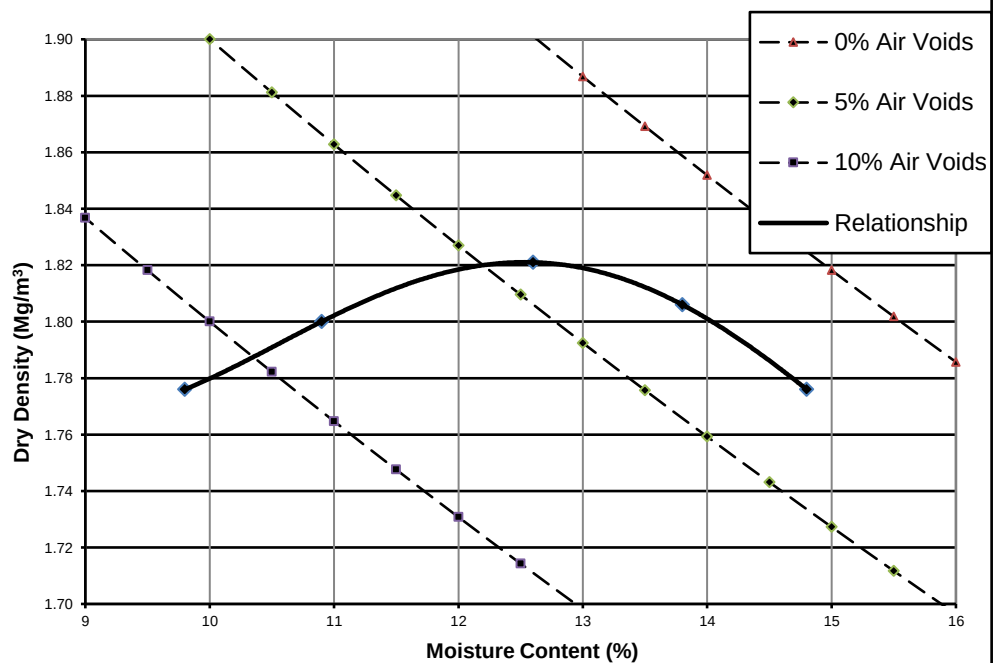
No
S93278
AD1-1 @ 0.4M
20/01/2021
22/02/2021
15/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.5Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	13 %
Moisture Content (%)	Dry Density Mg/m ³
9.8	1.78
10.9	1.80
12.6	1.82
13.8	1.81
14.8	1.78
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.82



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786162

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AD1-1 @ 0.4M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.84 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.94 Mg/m ³
Apparent Particle density =	2.03 Mg/m ³
Water absorption (of dry mass) =	5.1%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786163

Page 1 of 1

LABORATORY TEST REPORT

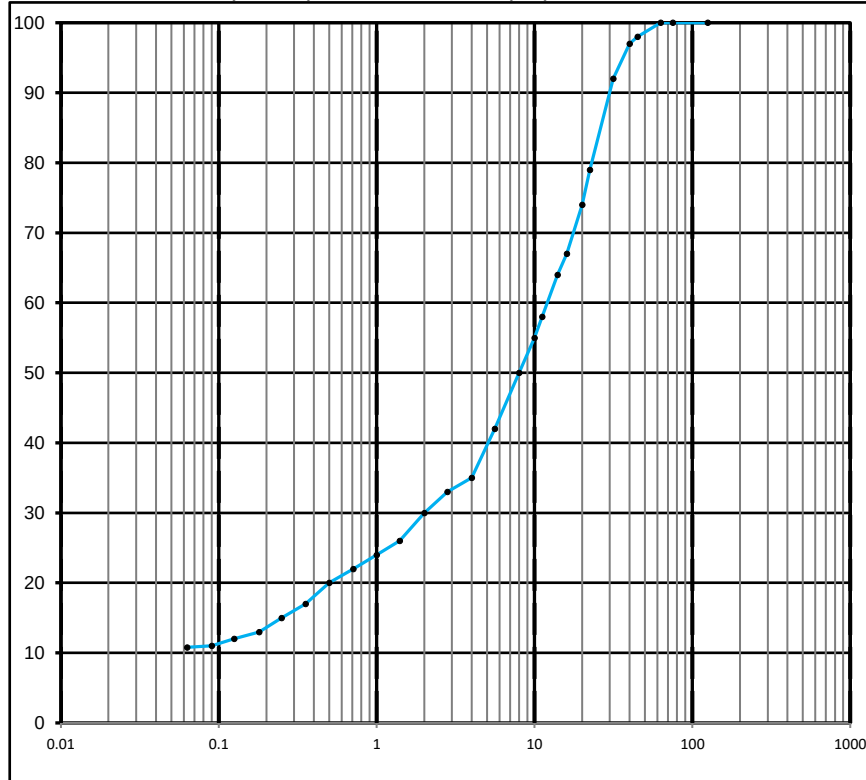
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AC1-1 @ 1.1M	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	UnknownUnknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	98	
40.0 mm	97	
31.5 mm	92	
22.4 mm	79	
20.0 mm	74	
16.0 mm	67	
14.0 mm	64	
11.2 mm	58	
10.0 mm	55	
8.0 mm	50	
5.6 mm	42	
4.0 mm	35	
2.8 mm	33	
2.0 mm	30	
1.4 mm	26	
1.0 mm	24	
0.710 mm	22	
0.500 mm	20	
0.355 mm	17	
0.250 mm	15	
0.180 mm	13	
0.125 mm	12	
0.090 mm	11	
0.063 mm	10.8	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786164

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AC1-1 @ 1.1M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	UnknownUnknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 May 2021
Test Report Ref: TR 786165

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

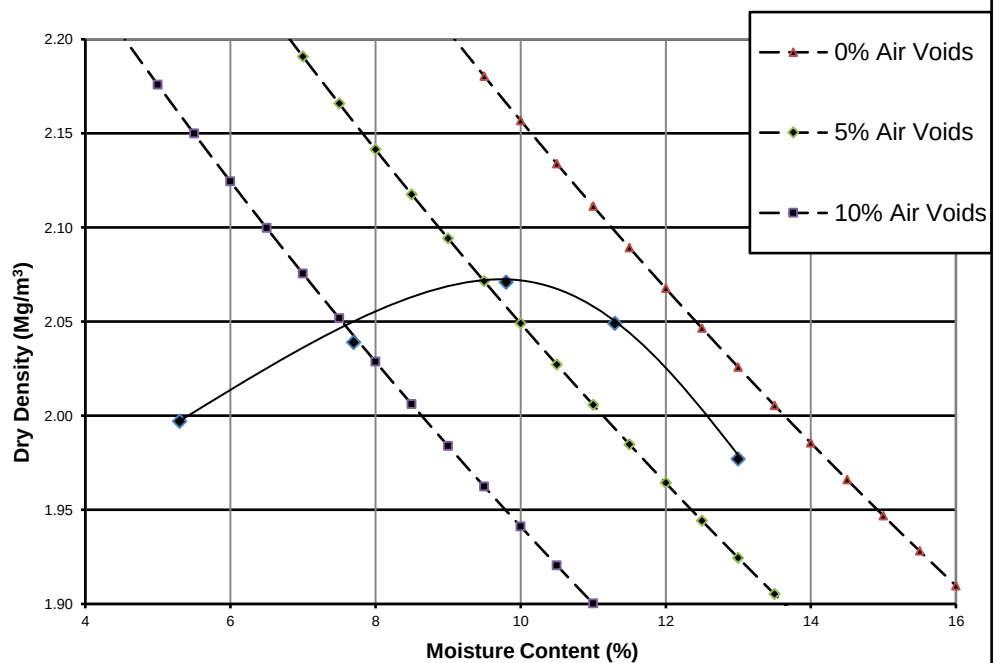
No
S93278
AC1-1 @ 1.1M
20/01/2021
22/02/2021
13/05/2021
UnknownUnknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure:
Sample Preparation Method: **3.2.5.3 Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	23 %
Moisture Content (%)	Dry Density Mg/m ³
5.3	2.00
7.7	2.04
9.8	2.07
11.3	2.05
13.0	1.98
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.07



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786166

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AC1-1 @ 1.1M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	UnknownUnknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.38 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.66 Mg/m ³
Water absorption (of dry mass) =	4.4%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 22 April 2021
Test Report Ref: TR 786285

Page 1 of 1

LABORATORY TEST REPORT

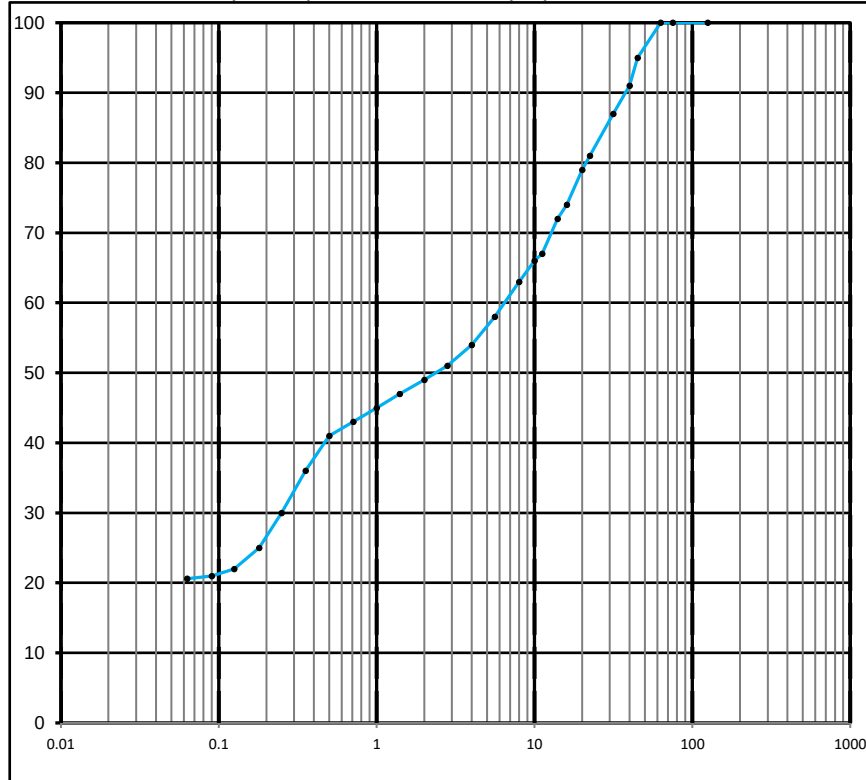
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AF2-1 @ 0.2M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	95	
40.0 mm	91	
31.5 mm	87	
22.4 mm	81	
20.0 mm	79	
16.0 mm	74	
14.0 mm	72	
11.2 mm	67	
10.0 mm	66	
8.0 mm	63	
5.6 mm	58	
4.0 mm	54	
2.8 mm	51	
2.0 mm	49	
1.4 mm	47	
1.0 mm	45	
0.710 mm	43	
0.500 mm	41	
0.355 mm	36	
0.250 mm	30	
0.180 mm	25	
0.125 mm	22	
0.090 mm	21	
0.063 mm	20.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786286

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF2-1 @ 0.2M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 May 2021
Test Report Ref: TR 786287

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

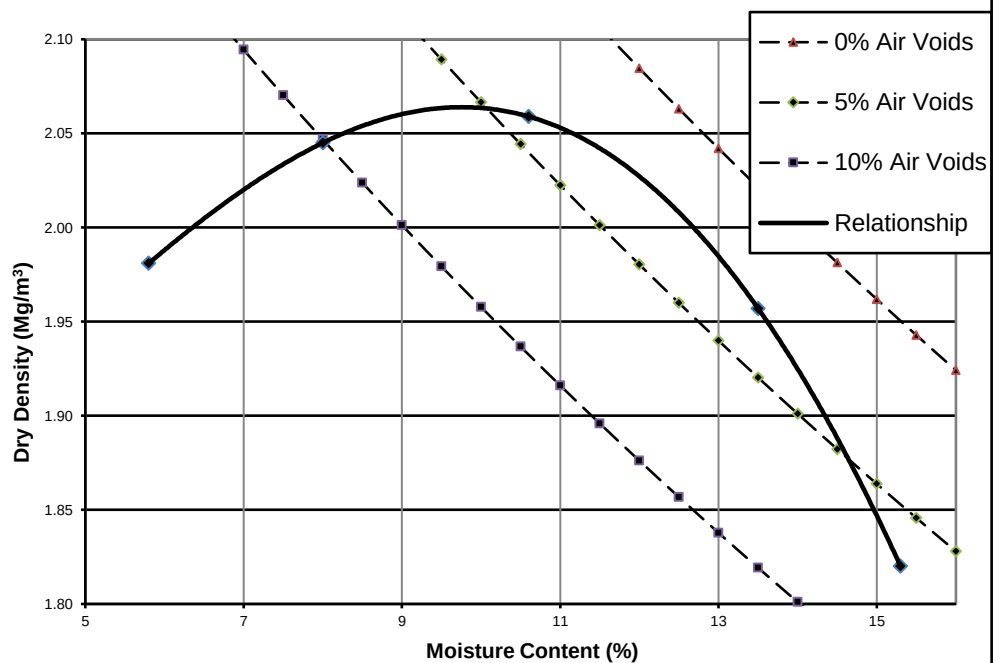
No
S93278
AF2-1 @ 0.2M
Unknown
22/02/2021
10/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.78Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	14 %
Moisture Content (%)	Dry Density Mg/m ³
5.8	1.98
8.0	2.05
10.6	2.06
13.5	1.96
15.3	1.82
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.07



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786288

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF2-1 @ 0.2M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.41 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.50 Mg/m ³
Apparent Particle density =	2.63 Mg/m ³
Water absorption (of dry mass) =	3.3%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786289

Page 1 of 1

LABORATORY TEST REPORT

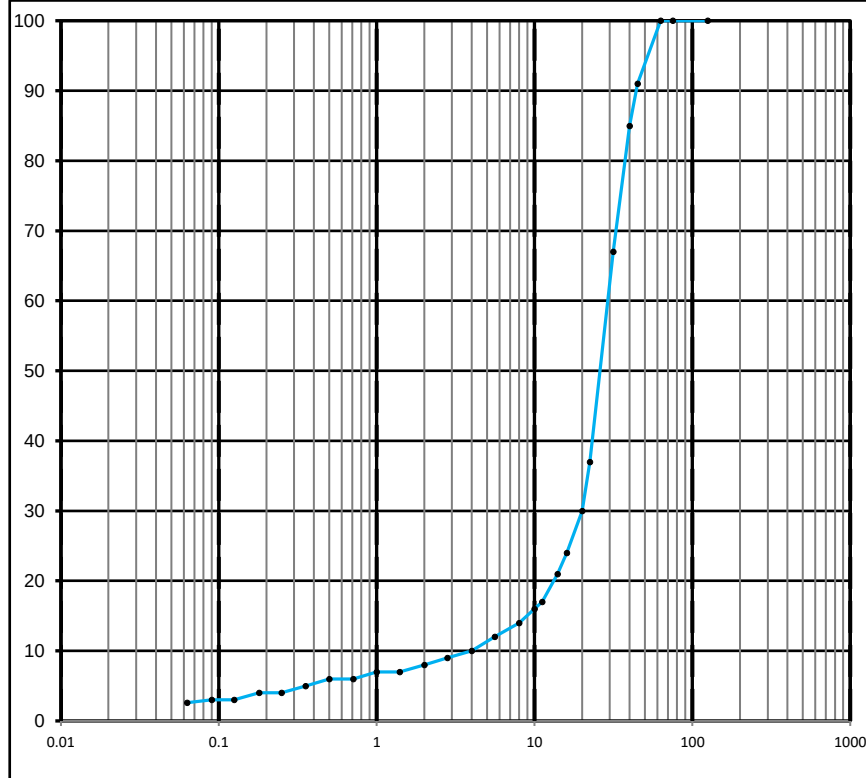
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93278	Method of Sampling:	Unknown
Client Ref. No:	AF1-1 @ 0.9M	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/02/2021		
Date of Start of Test:	31/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	91	
40.0 mm	85	
31.5 mm	67	
22.4 mm	37	
20.0 mm	30	
16.0 mm	24	
14.0 mm	21	
11.2 mm	17	
10.0 mm	16	
8.0 mm	14	
5.6 mm	12	
4.0 mm	10	
2.8 mm	9	
2.0 mm	8	
1.4 mm	7	
1.0 mm	7	
0.710 mm	6	
0.500 mm	6	
0.355 mm	5	
0.250 mm	4	
0.180 mm	4	
0.125 mm	3	
0.090 mm	3	
0.063 mm	2.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 786290

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.9M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 4.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 May 2021
Test Report Ref: TR 786291

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

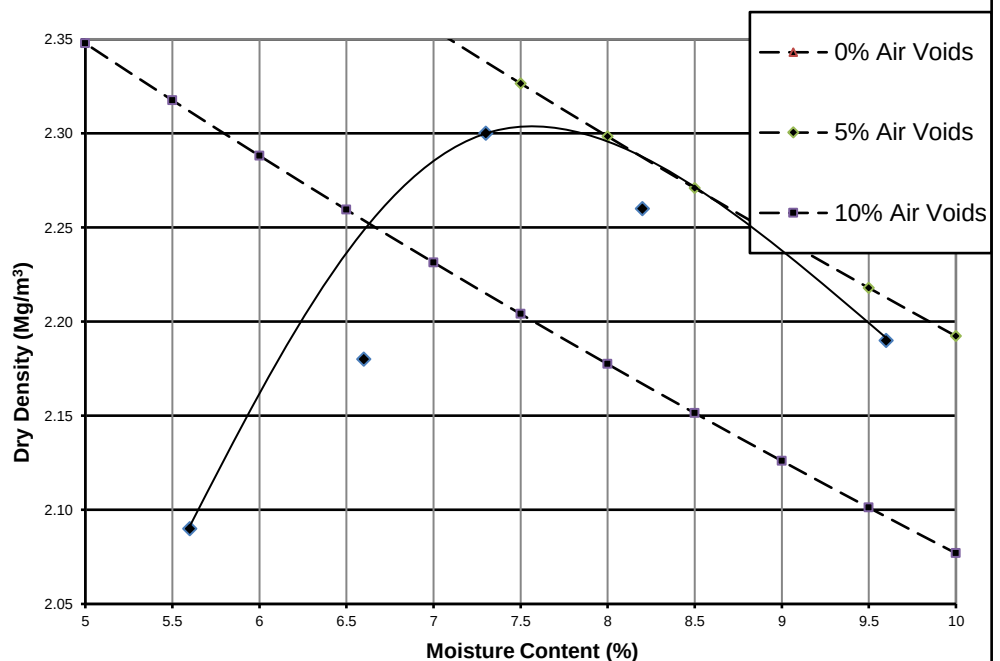
No
S93278
AF1-1 @ 0.9M
Unknown
22/02/2021
27/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	19 %
Retained on 20mm Sieve:	20 %
Moisture Content (%)	Dry Density Mg/m ³
5.6	2.09
6.6	2.18
7.3	2.30
8.2	2.26
9.6	2.19
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
7.5	2.30



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 28 April 2021
Test Report Ref: TR 786292

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.9M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	27/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.62 Mg/m ³
Apparent Particle density =	2.69 Mg/m ³
Water absorption (of dry mass) =	1.7%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 777549

Page 1 of 1

LABORATORY TEST REPORT

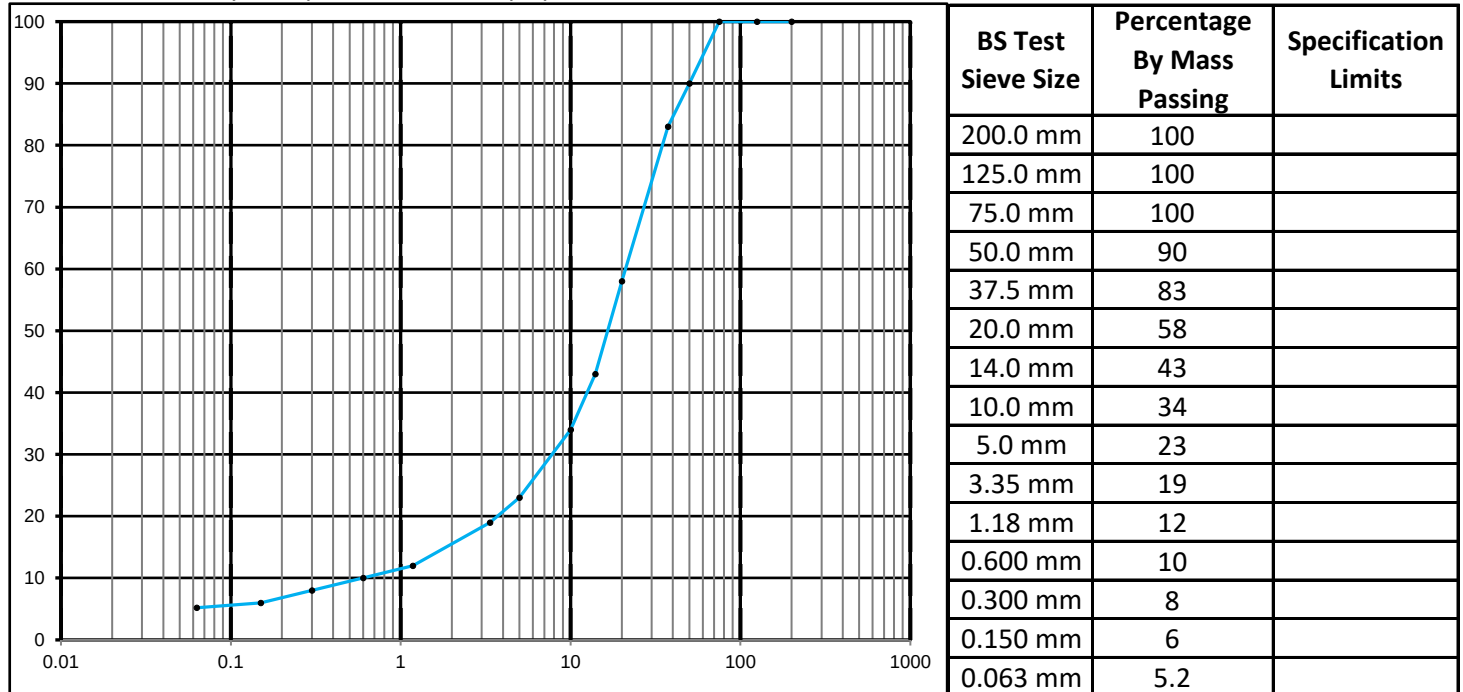
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ1-1 - 1.0	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 777550

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ1-1 - 1.0
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 777606

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

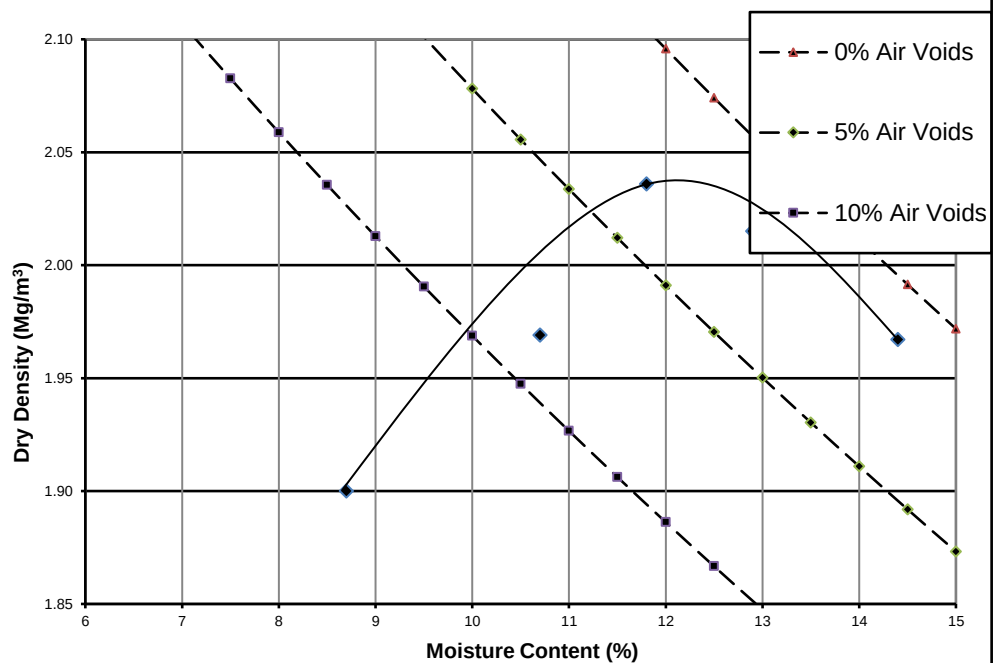
No
S92460
AM12-1
Unknown
14/01/2021
31/03/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Separate**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	13 %
Retained on 20mm Sieve:	41 %
Moisture Content (%)	Dry Density Mg/m ³
8.7	1.90
10.7	1.97
11.8	2.04
12.9	2.02
14.4	1.97
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.04



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 April 2021
Test Report Ref: TR 777607

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	09/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.54 Mg/m ³
Apparent Particle density =	2.65 Mg/m ³
Water absorption (of dry mass) =	2.8%

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 February 2021
Test Report Ref: TR 778893

Page 1 of 1

LABORATORY TEST REPORT

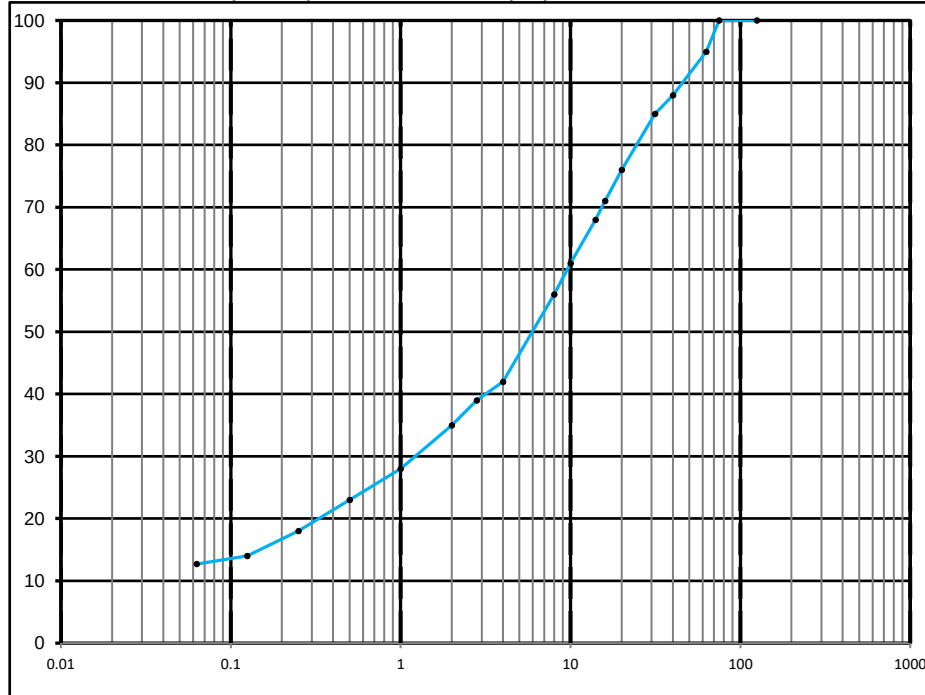
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AT6-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
40.0 mm	88	
31.5 mm	85	
20.0 mm	76	
16.0 mm	71	
14.0 mm	68	
10.0 mm	61	
8.0 mm	56	
4.0 mm	42	
2.8 mm	39	
2.0 mm	35	
1.0 mm	28	
0.500 mm	23	
0.250 mm	18	
0.125 mm	14	
0.063 mm	12.7	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 February 2021
Test Report Ref: TR 778894

Page 1 of 1

LABORATORY TEST REPORT

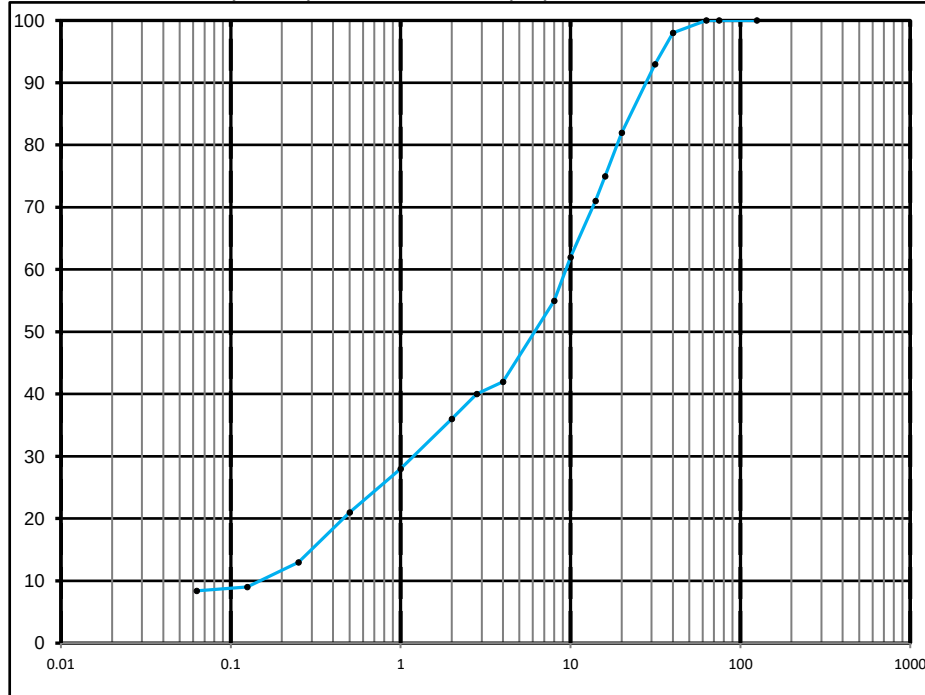
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AS7	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	98	
31.5 mm	93	
20.0 mm	82	
16.0 mm	75	
14.0 mm	71	
10.0 mm	62	
8.0 mm	55	
4.0 mm	42	
2.8 mm	40	
2.0 mm	36	
1.0 mm	28	
0.500 mm	21	
0.250 mm	13	
0.125 mm	9	
0.063 mm	8.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 778895

Page 1 of 1

LABORATORY TEST REPORT

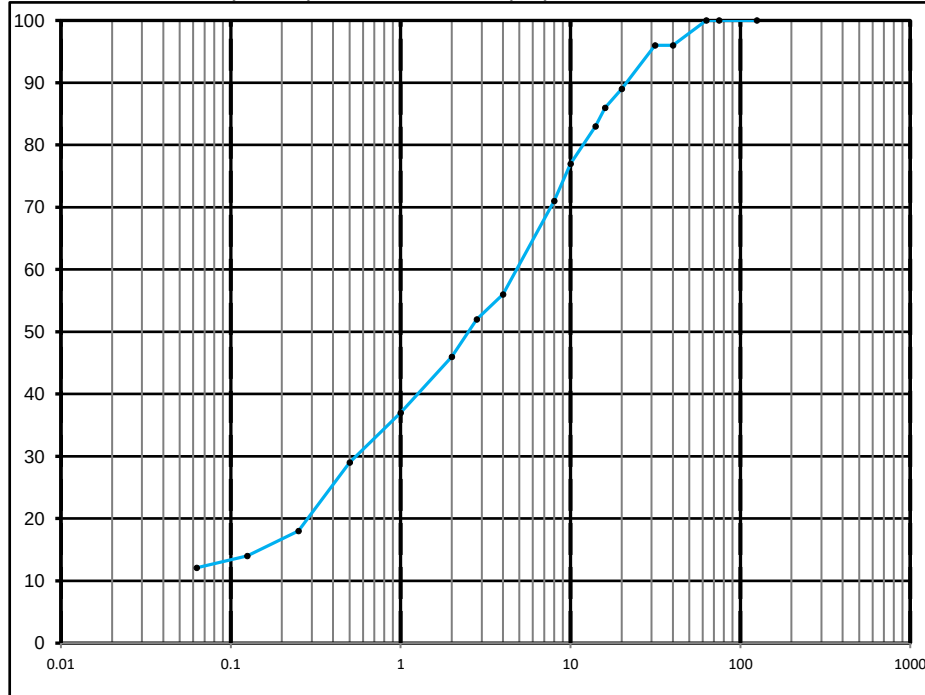
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AR4-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	96	
31.5 mm	96	
20.0 mm	89	
16.0 mm	86	
14.0 mm	83	
10.0 mm	77	
8.0 mm	71	
4.0 mm	56	
2.8 mm	52	
2.0 mm	46	
1.0 mm	37	
0.500 mm	29	
0.250 mm	18	
0.125 mm	14	
0.063 mm	12.1	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 February 2021
Test Report Ref: TR 778912

Page 1 of 1

LABORATORY TEST REPORT

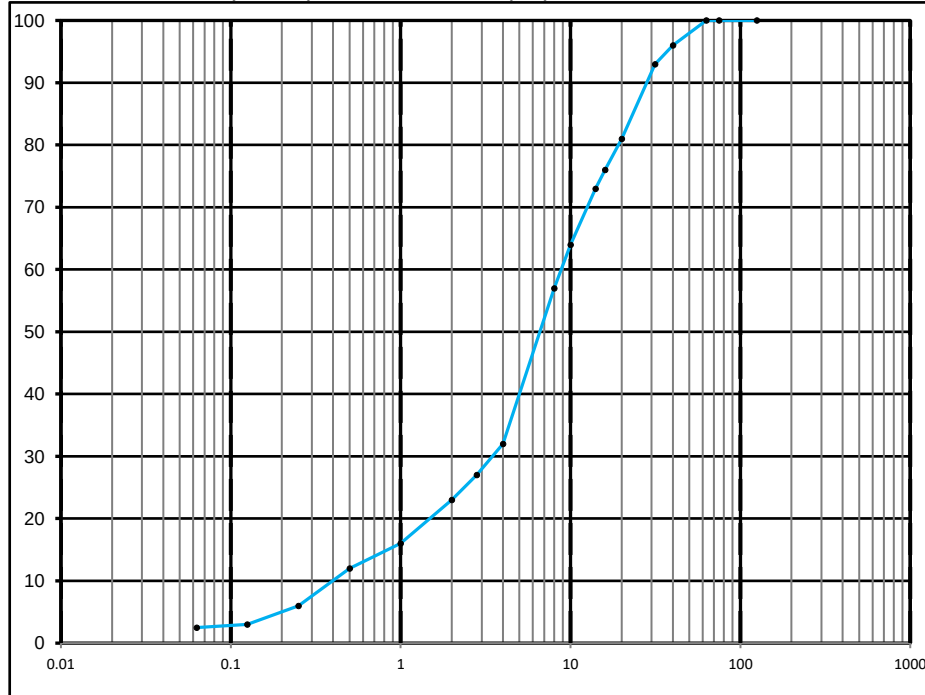
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AS6	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	96	
31.5 mm	93	
20.0 mm	81	
16.0 mm	76	
14.0 mm	73	
10.0 mm	64	
8.0 mm	57	
4.0 mm	32	
2.8 mm	27	
2.0 mm	23	
1.0 mm	16	
0.500 mm	12	
0.250 mm	6	
0.125 mm	3	
0.063 mm	2.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 February 2021
Test Report Ref: TR 778914

Page 1 of 1

LABORATORY TEST REPORT

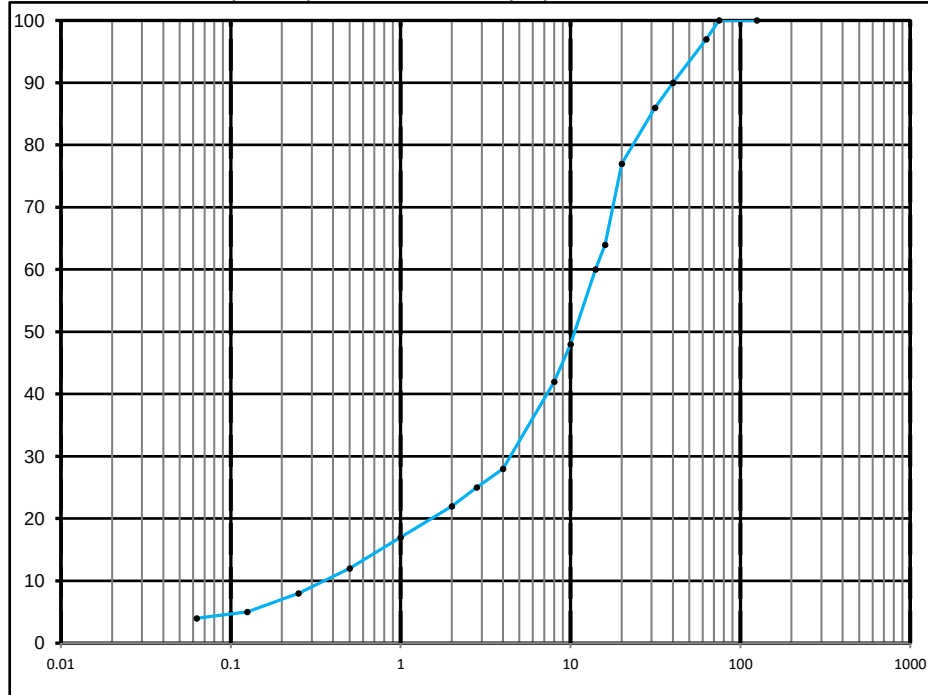
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AS4-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	97	
40.0 mm	90	
31.5 mm	86	
20.0 mm	77	
16.0 mm	64	
14.0 mm	60	
10.0 mm	48	
8.0 mm	42	
4.0 mm	28	
2.8 mm	25	
2.0 mm	22	
1.0 mm	17	
0.500 mm	12	
0.250 mm	8	
0.125 mm	5	
0.063 mm	4.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 778915

Page 1 of 1

LABORATORY TEST REPORT

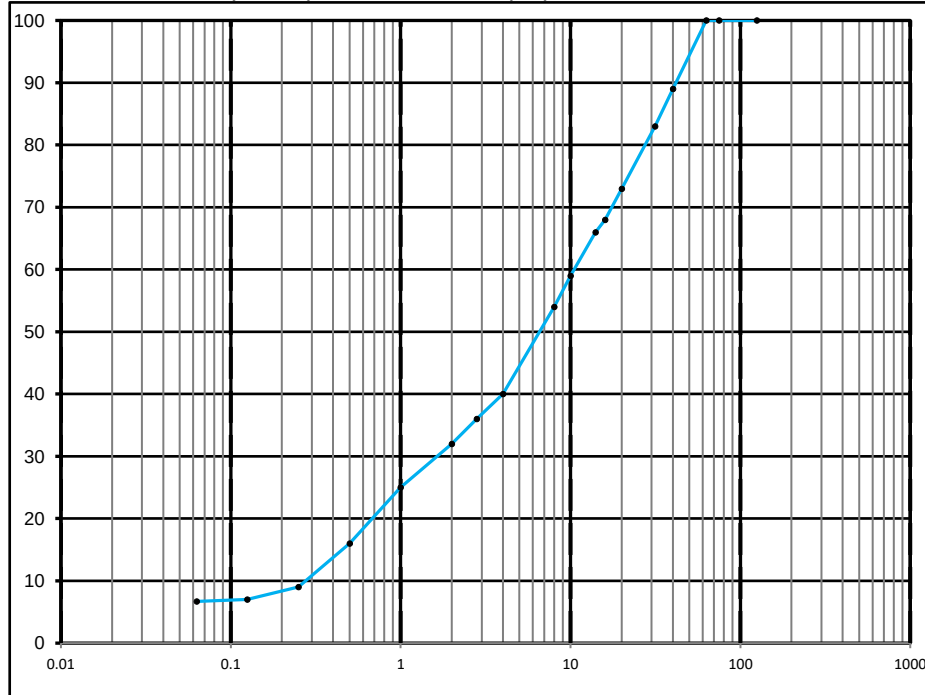
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92621	Method of Sampling:	Unknown
Client Ref. No:	AU7-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	22/01/2021		
Date of Start of Test:	11/02/2021		
Sampling Location:	Unknown		
Material Description	Granular		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	89	
31.5 mm	83	
20.0 mm	73	
16.0 mm	68	
14.0 mm	66	
10.0 mm	59	
8.0 mm	54	
4.0 mm	40	
2.8 mm	36	
2.0 mm	32	
1.0 mm	25	
0.500 mm	16	
0.250 mm	9	
0.125 mm	7	
0.063 mm	6.7	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 February 2021
Test Report Ref: TR 778965

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AT6-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 21.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 778966

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS7
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 26.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 778967

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AR4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 31.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2021
Test Report Ref: TR 778984

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No	
Laboratory Ref. No:	S92621	
Client Ref. No:	AS6	
Date and Time of Sampling:	Unknown	
Date of Receipt at Lab:	22/01/2021	
Date of Start of Test:	11/02/2021	
Sampling Location:	Unknown	
Name of Source:	Former Llanwern Steelworks	
Method of Sampling:	Unknown	
Sampled By:	Client	(Test result apply to sample as received)
Tested By:	JP	
Material Description:	Granular	
Target Specification:	N/A	

RESULTS:

Water Content (%) = 12.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 March 2021
Test Report Ref: TR 778986

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test result apply to sample as received)
Tested By:	JP
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 778987

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AU7-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 779037

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AT6-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.96 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.07 Mg/m ³
Apparent Particle density =	3.32 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 779038

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS7
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.27 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.37 Mg/m ³
Apparent Particle density =	2.53 Mg/m ³
Water absorption (of dry mass) =	4.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 March 2021
Test Report Ref: TR 779039

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AR4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	01/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.72 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.85 Mg/m ³
Apparent Particle density =	3.12 Mg/m ³
Water absorption (of dry mass) =	4.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 779065

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS6
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.88 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.97 Mg/m ³
Apparent Particle density =	3.19 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 779069

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.67 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.72 Mg/m ³
Apparent Particle density =	2.80 Mg/m ³
Water absorption (of dry mass) =	1.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 April 2021
Test Report Ref: TR 779072

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AU7-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.77 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.88 Mg/m ³
Apparent Particle density =	3.12 Mg/m ³
Water absorption (of dry mass) =	4.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 779142

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

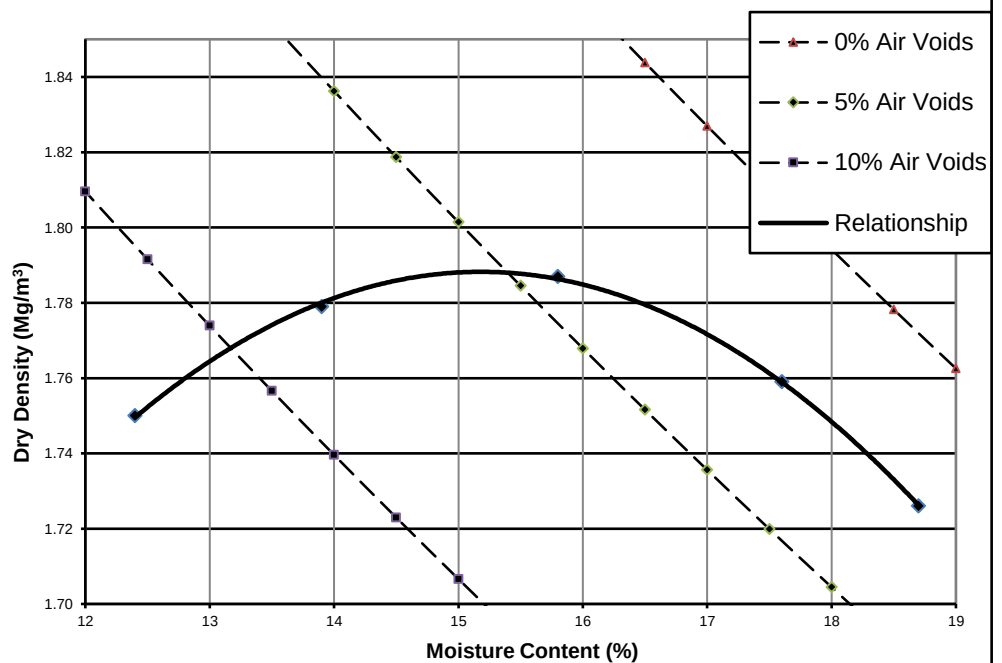
No
S92621
AS7
Unknown
22/01/2021
05/03/2021
Unknown
Granular

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **3.2.5.3 Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7 %
Retained on 20mm Sieve:	15 %
Moisture Content (%)	Dry Density Mg/m ³
12.4	1.75
13.9	1.78
15.8	1.79
17.6	1.76
18.7	1.73
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.79



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 April 2021
Test Report Ref: TR 779231

Page 1 of 1

LABORATORY TEST REPORT

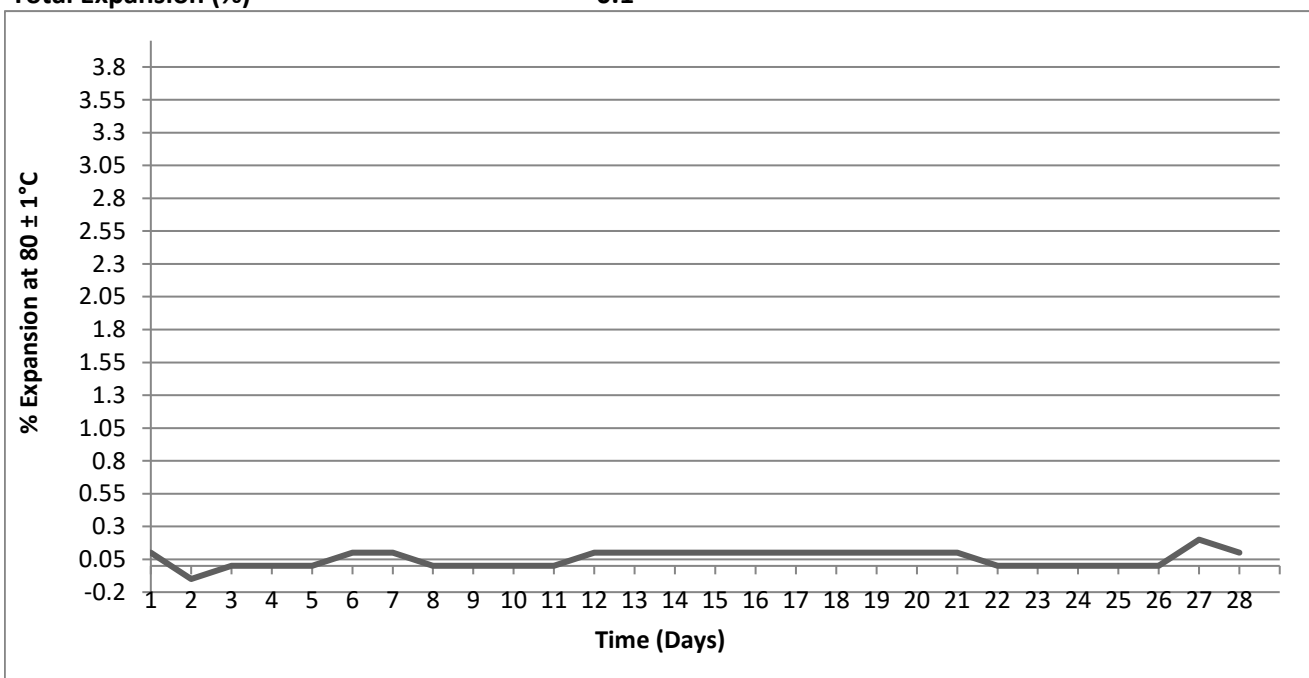
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AT6-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	16/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 26

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 April 2021
Test Report Ref: TR 779232

Page 1 of 1

LABORATORY TEST REPORT

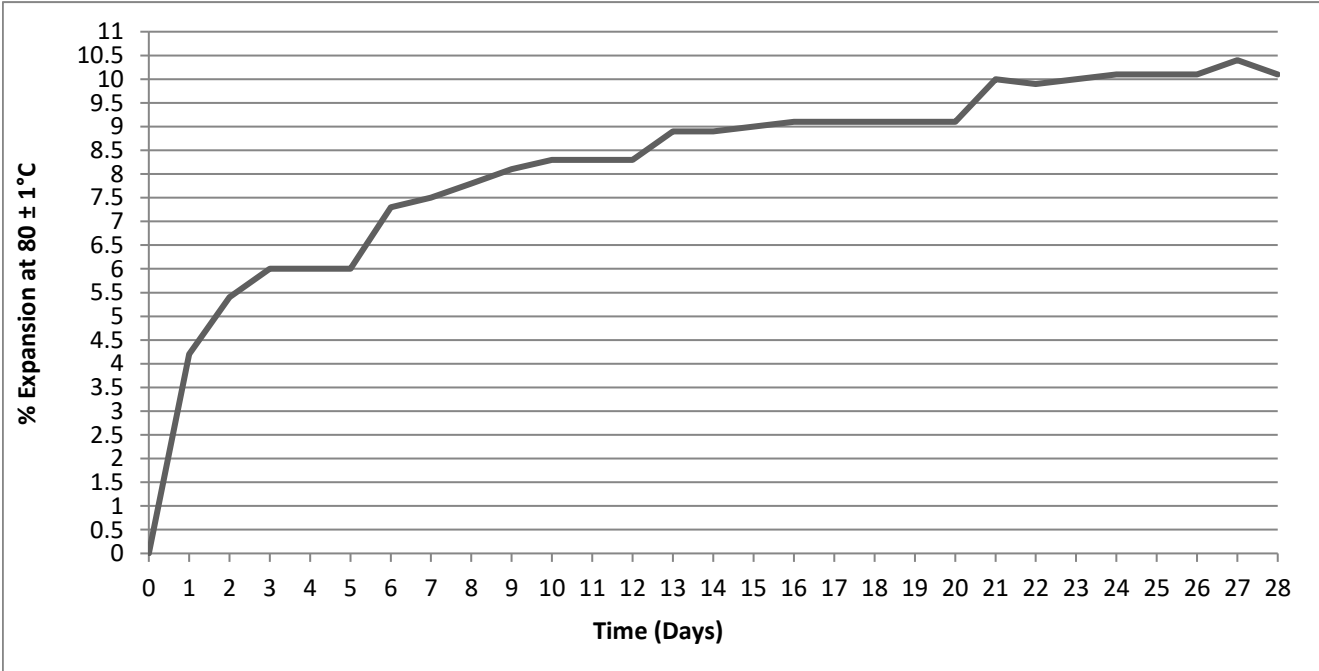
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS6
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	16/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 10.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 18

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 April 2021
Test Report Ref: TR 779233

Page 1 of 1

LABORATORY TEST REPORT

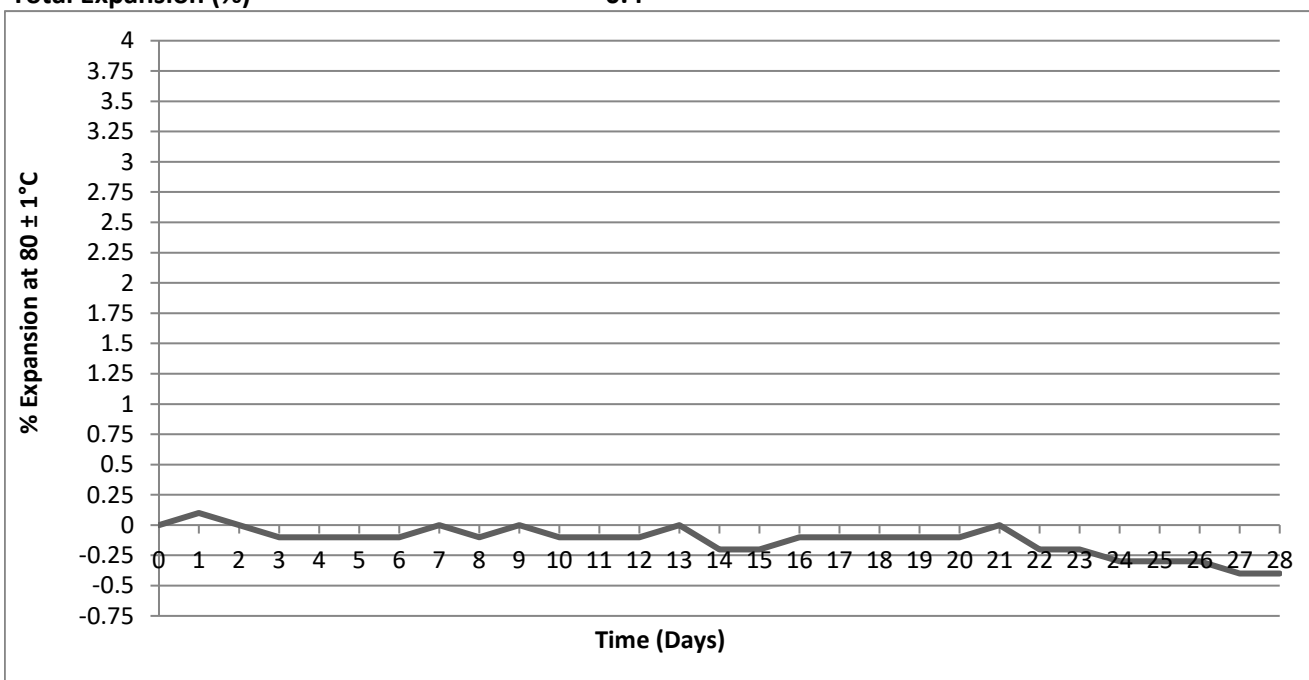
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92621
Client Ref. No:	AS4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/01/2021
Date of Start of Test:	16/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.4



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 23

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 May 2021
Test Report Ref: TR 787924

Page 1 of 1

LABORATORY TEST REPORT

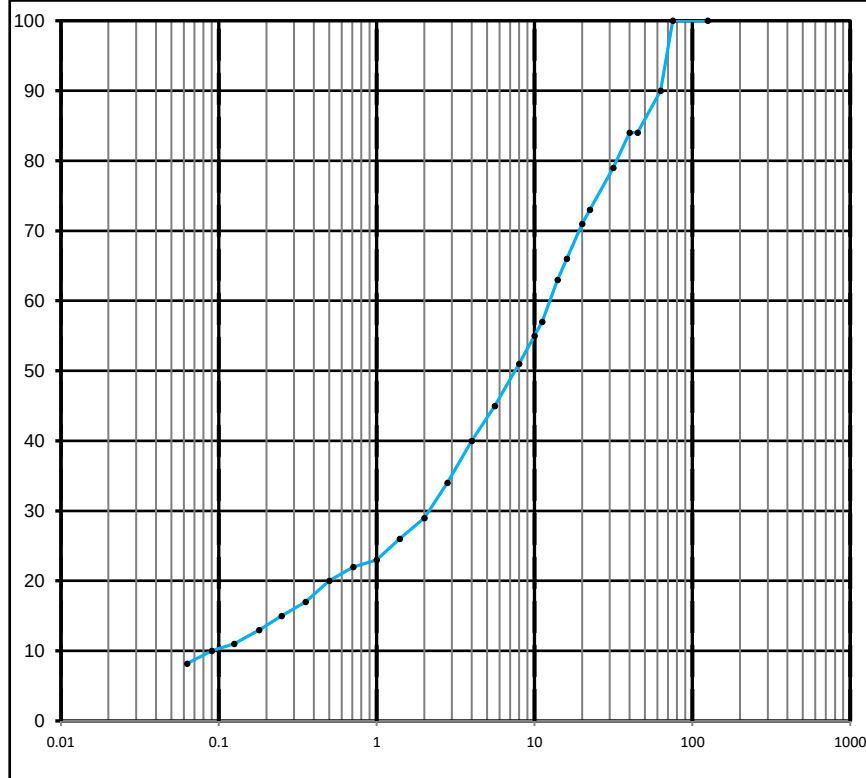
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93381	Method of Sampling:	Unknown
Client Ref. No:	AI-I-1 - 0.2	Sampled By:	Client
Date and Time of Sampling:	18/02/2021	Tested By:	JP
Date of Receipt at Lab:	27/02/2021		
Date of Start of Test:	21/04/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	90	
45.0 mm	84	
40.0 mm	84	
31.5 mm	79	
22.4 mm	73	
20.0 mm	71	
16.0 mm	66	
14.0 mm	63	
11.2 mm	57	
10.0 mm	55	
8.0 mm	51	
5.6 mm	45	
4.0 mm	40	
2.8 mm	34	
2.0 mm	29	
1.4 mm	26	
1.0 mm	23	
0.710 mm	22	
0.500 mm	20	
0.355 mm	17	
0.250 mm	15	
0.180 mm	13	
0.125 mm	11	
0.090 mm	10	
0.063 mm	8.2	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer

Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 June 2021
Test Report Ref: TR 787925

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93381
Client Ref. No:	AI-I-1 - 0.2
Date and Time of Sampling:	18/02/2021
Date of Receipt at Lab:	27/02/2021
Date of Start of Test:	21/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 June 2021
Test Report Ref: TR 787926

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

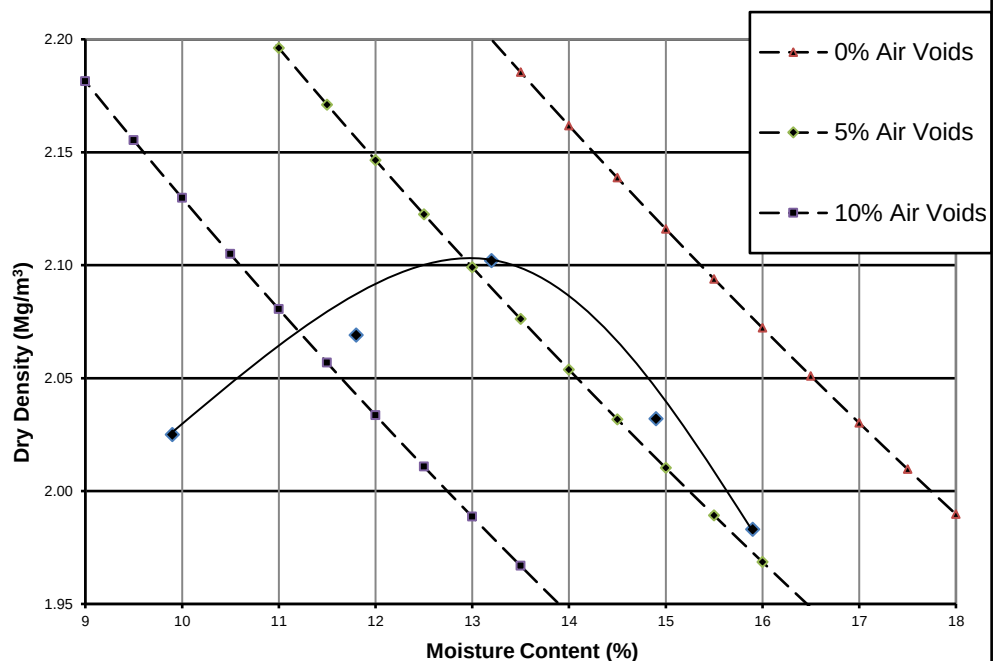
No
S93381
AI-I-1 - 0.2
18/02/2021
27/02/2021
26/05/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IH**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.1Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7 %
Retained on 20mm Sieve:	13 %
Moisture Content (%)	Dry Density Mg/m ³
9.9	2.03
11.8	2.07
13.2	2.10
14.9	2.03
15.9	1.98
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.10



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 May 2021
Test Report Ref: TR 787927

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93381
Client Ref. No:	AI-I-1 - 0.2
Date and Time of Sampling:	18/02/2021
Date of Receipt at Lab:	27/02/2021
Date of Start of Test:	17/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.54 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.64 Mg/m ³
Apparent Particle density =	2.82 Mg/m ³
Water absorption (of dry mass) =	3.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786167

Page 1 of 1

LABORATORY TEST REPORT

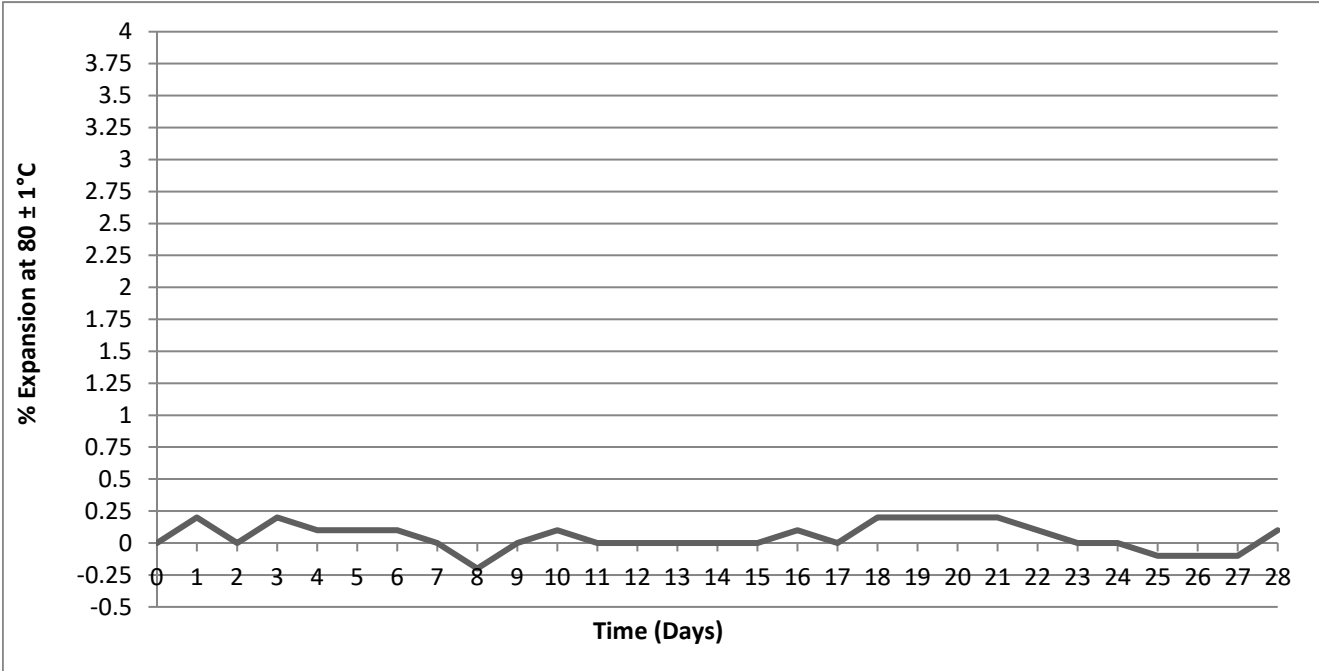
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AC1-1 @ 1.1M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	UnknownUnknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 23

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 August 2021
Test Report Ref: TR 786140

Page 1 of 1

LABORATORY TEST REPORT

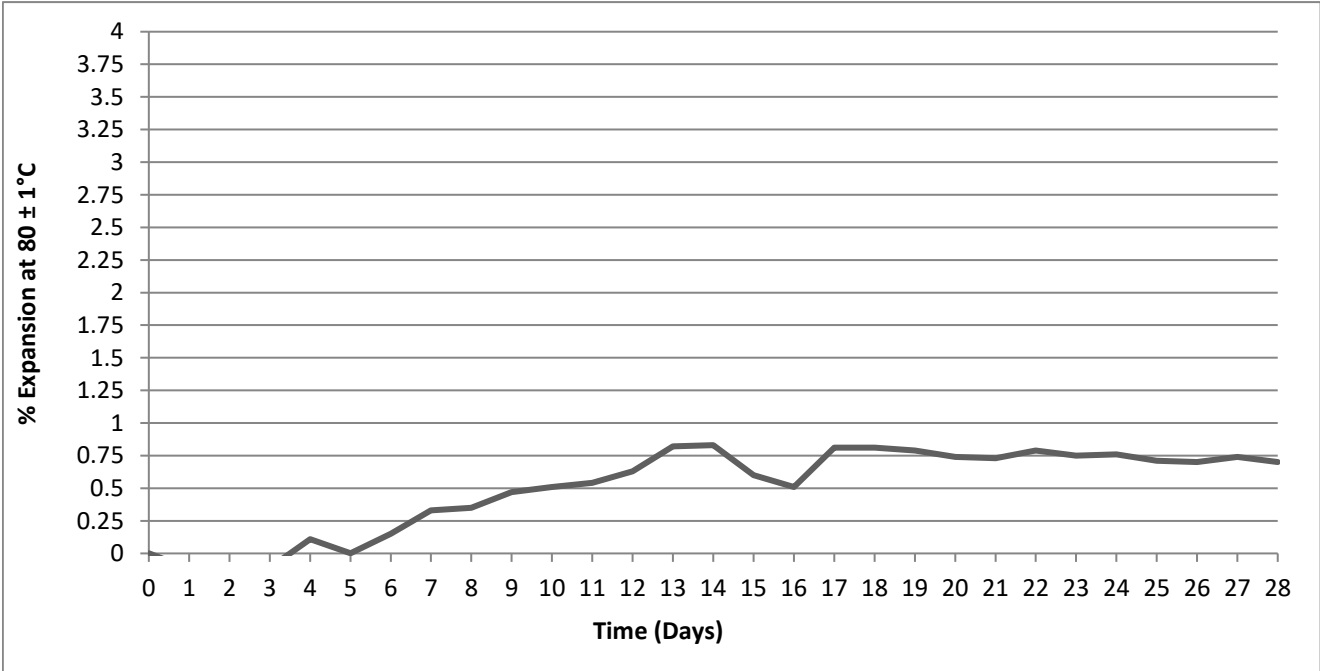
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AE1-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	05/07/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.7



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 15

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786158

Page 1 of 1

LABORATORY TEST REPORT

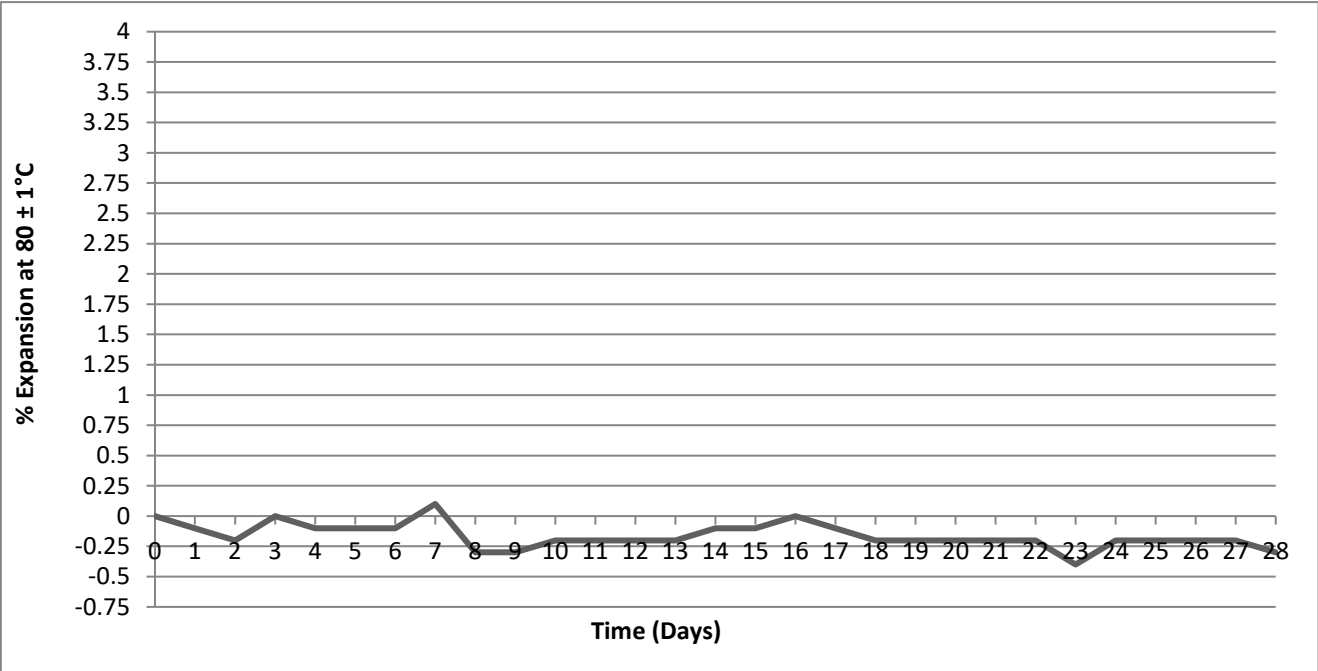
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.7M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 58

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 August 2021
Test Report Ref: TR 786293

Page 1 of 1

LABORATORY TEST REPORT

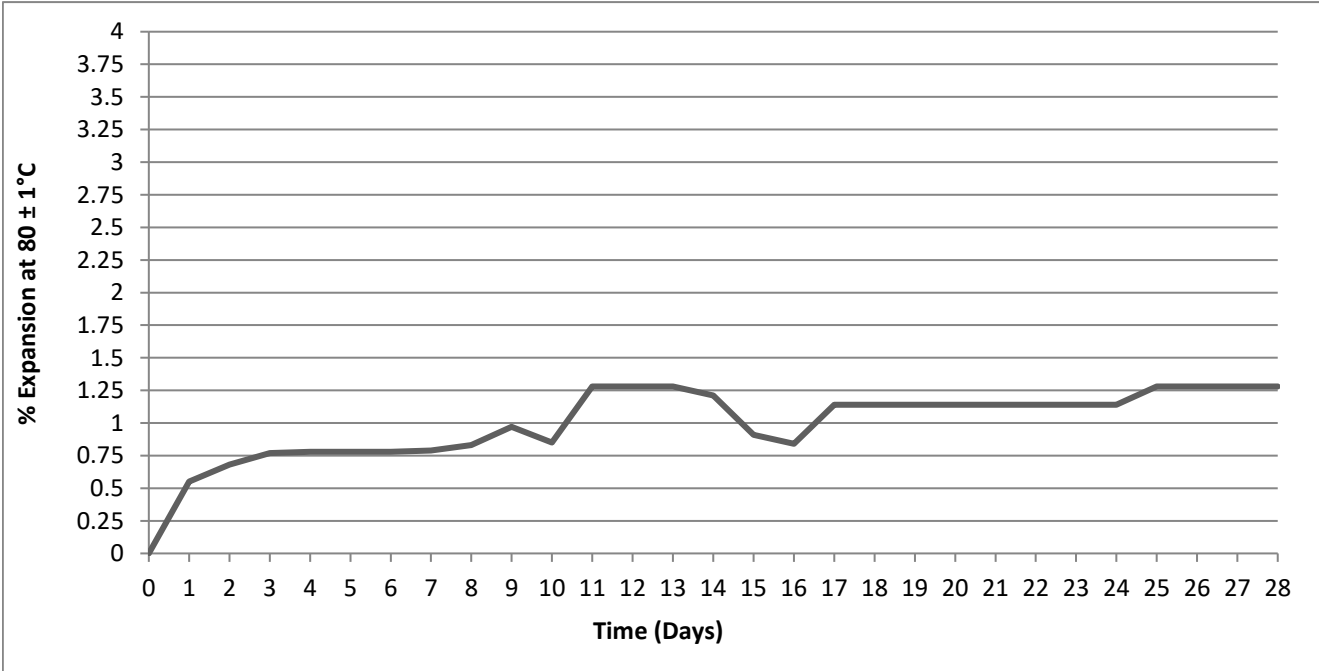
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AF1-1 @ 0.9M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	05/07/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 61

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777562

Page 1 of 1

LABORATORY TEST REPORT

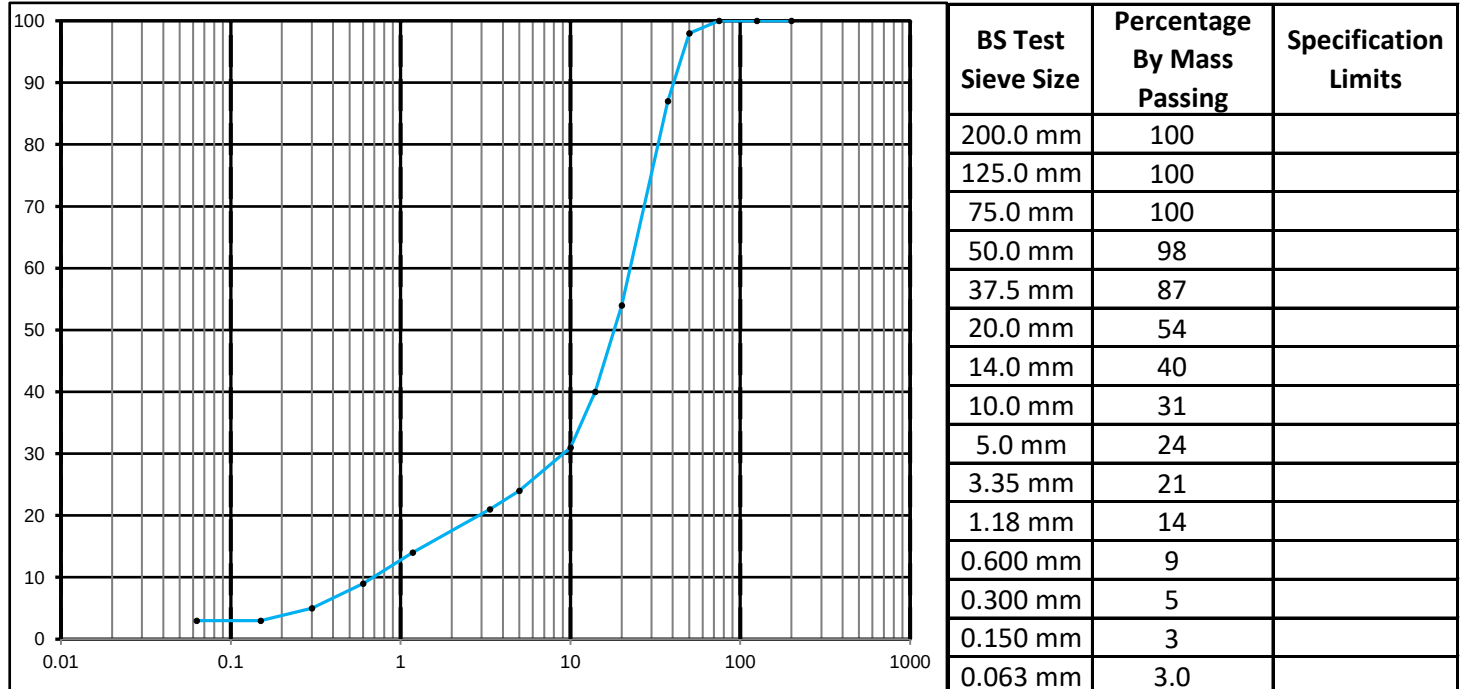
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AG1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777563

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AG1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 777564

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

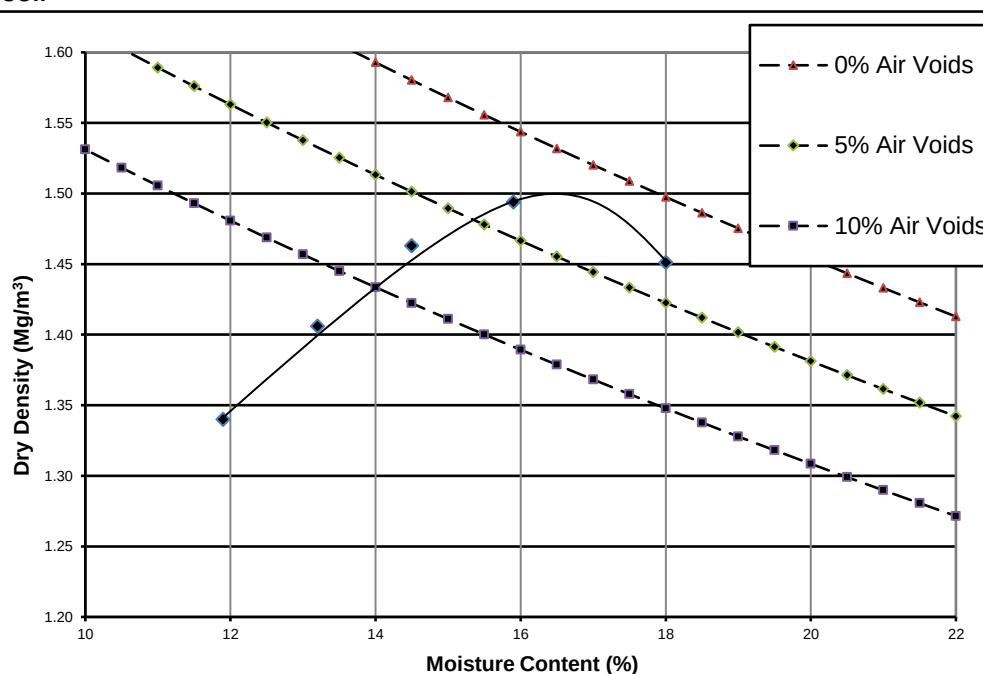
No
S92460
AG1-1
Unknown
14/01/2021
13/02/2001
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.05Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	11 %
Moisture Content (%)	Dry Density Mg/m ³
11.9	1.34
13.2	1.41
14.5	1.46
15.9	1.49
18.0	1.45
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
16.0	1.49



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777565

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AG1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.39 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.44 Mg/m ³
Apparent Particle density =	2.51 Mg/m ³
Water absorption (of dry mass) =	2.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777566

Page 1 of 1

LABORATORY TEST REPORT

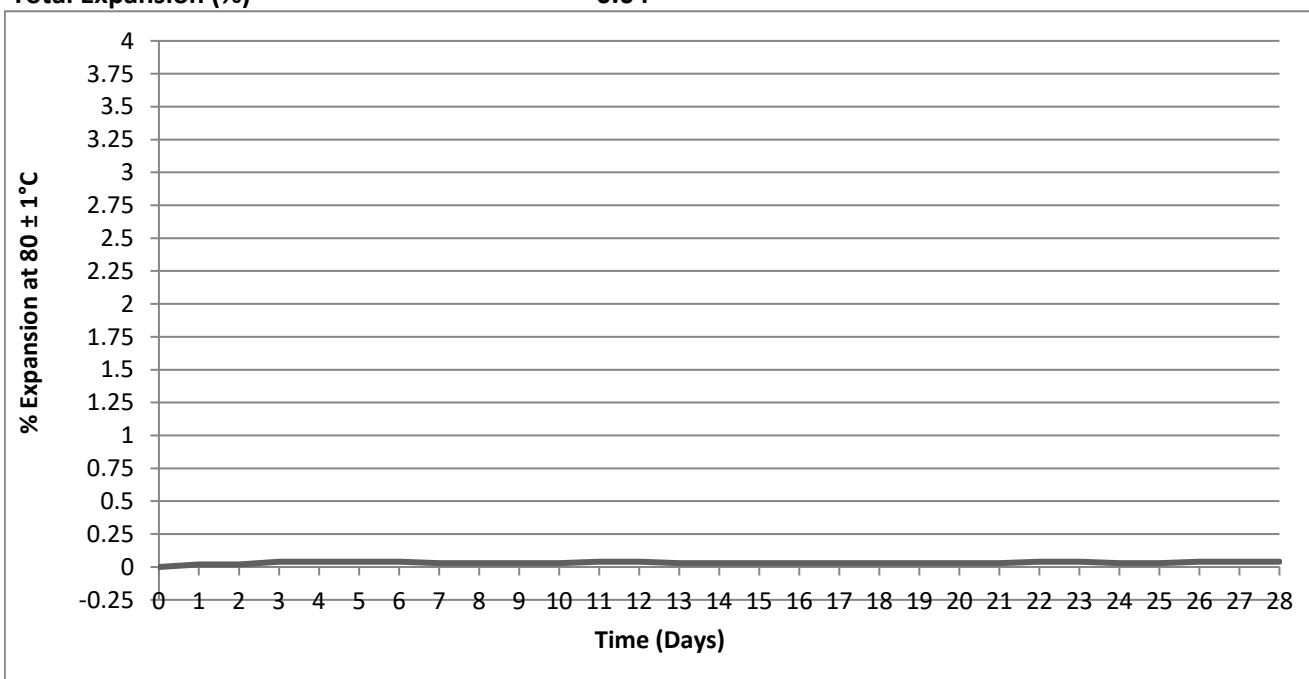
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AG1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.04



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 47

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784431

Page 1 of 1

LABORATORY TEST REPORT

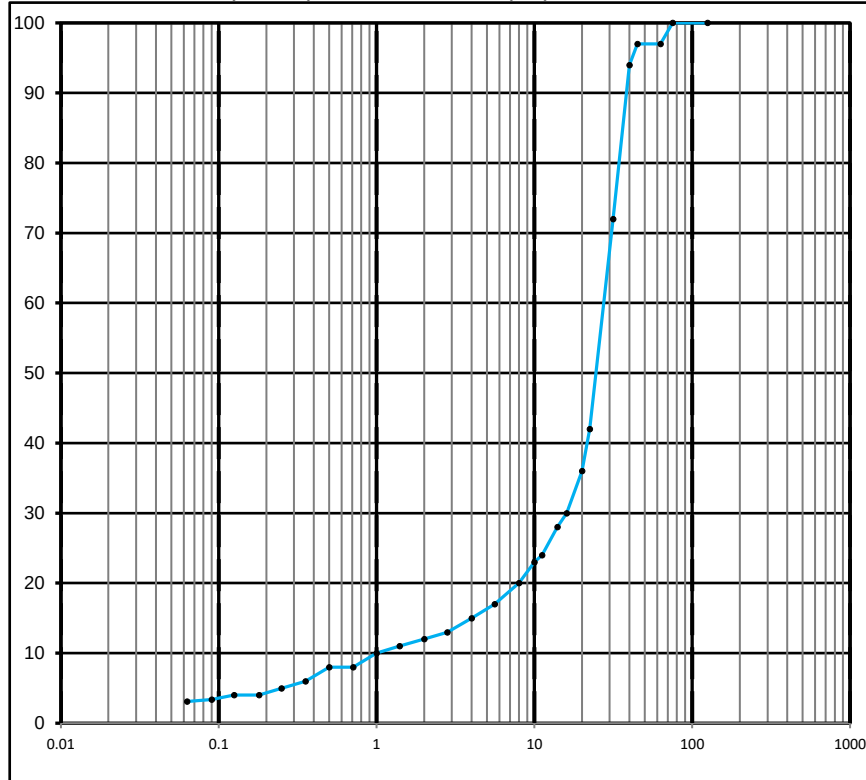
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AG2-1 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	97	
45.0 mm	97	
40.0 mm	94	
31.5 mm	72	
22.4 mm	42	
20.0 mm	36	
16.0 mm	30	
14.0 mm	28	
11.2 mm	24	
10.0 mm	23	
8.0 mm	20	
5.6 mm	17	
4.0 mm	15	
2.8 mm	13	
2.0 mm	12	
1.4 mm	11	
1.0 mm	10	
0.710 mm	8	
0.500 mm	8	
0.355 mm	6	
0.250 mm	5	
0.180 mm	4	
0.125 mm	4	
0.090 mm	3.4	
0.063 mm	3.1	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784432

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AG2-1 - 0.5m
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 28.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 April 2021
Test Report Ref: TR 784433

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

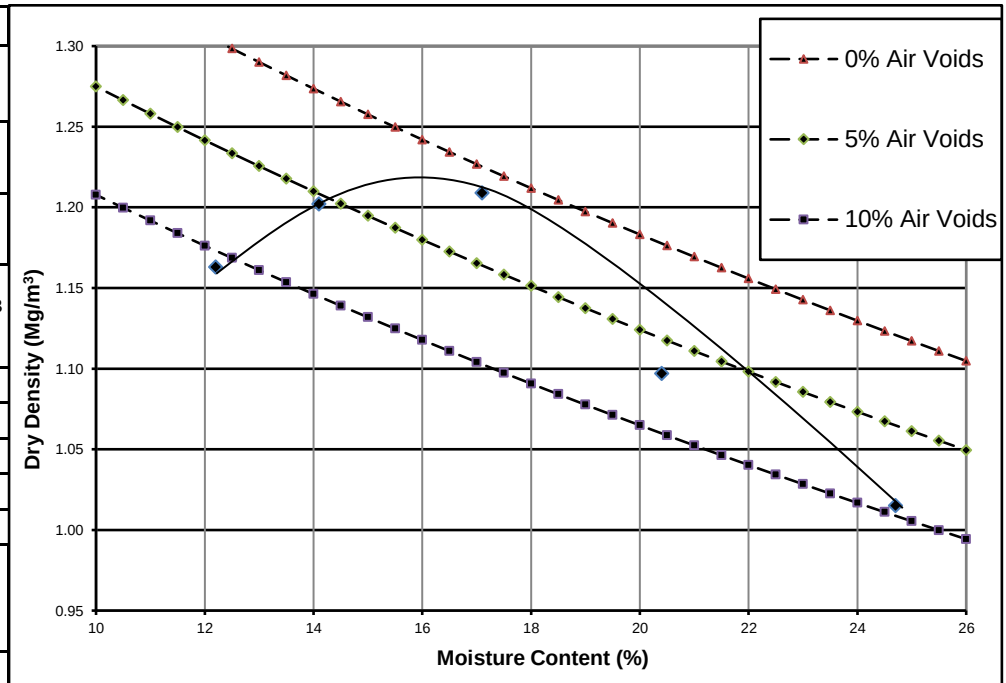
Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No **S93086**
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**
AG2-1 - 0.5m
20/01/2021
12/02/2021
09/04/2021
Unknown
Granular - 40mm Down

RESULTS:

Particle Density: 1.55Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	1 %
Retained on 20mm Sieve:	61 %
Moisture Content (%)	Dry Density Mg/m ³
12.2	1.16
14.1	1.20
17.1	1.21
20.4	1.10
24.7	1.02
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
16.0	1.22



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784434

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AG2-1 - 0.5m
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.15 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.23 Mg/m ³
Apparent Particle density =	1.25 Mg/m ³
Water absorption (of dry mass) =	6.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784435

Page 1 of 1

LABORATORY TEST REPORT

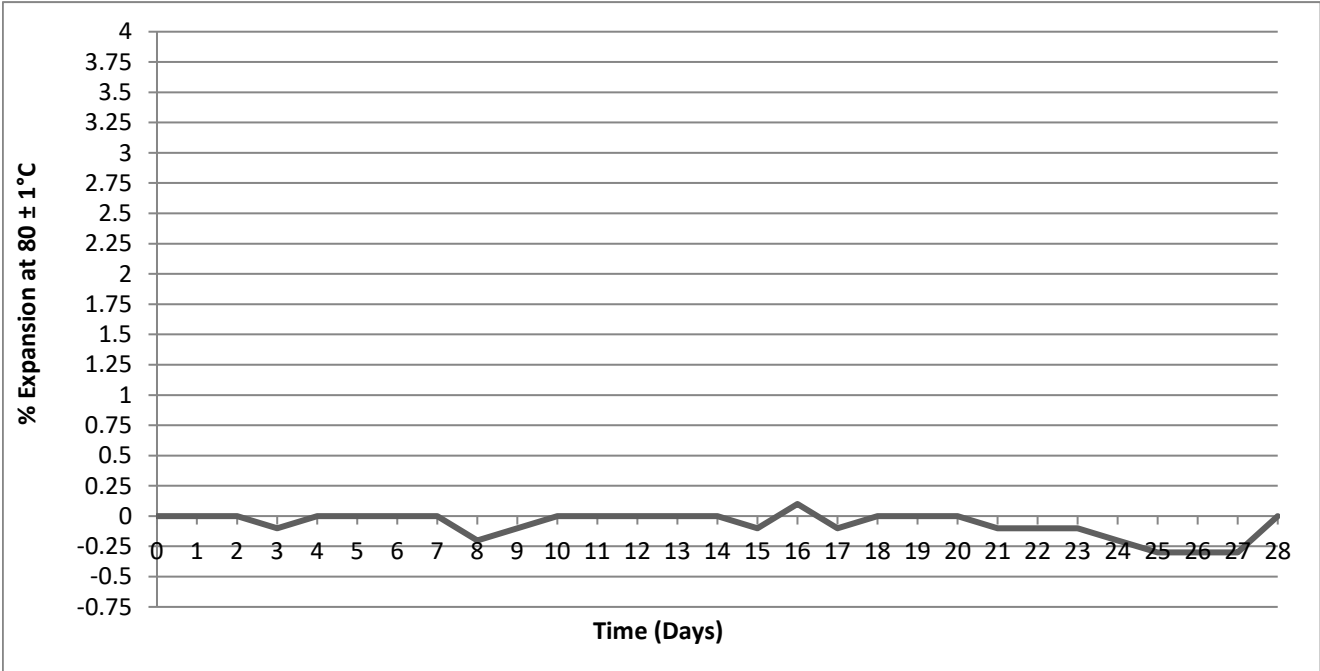
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AG2-1 - 0.5m
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 40

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 April 2021
Test Report Ref: TR 786128

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG6-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786131

Page 1 of 1

LABORATORY TEST REPORT

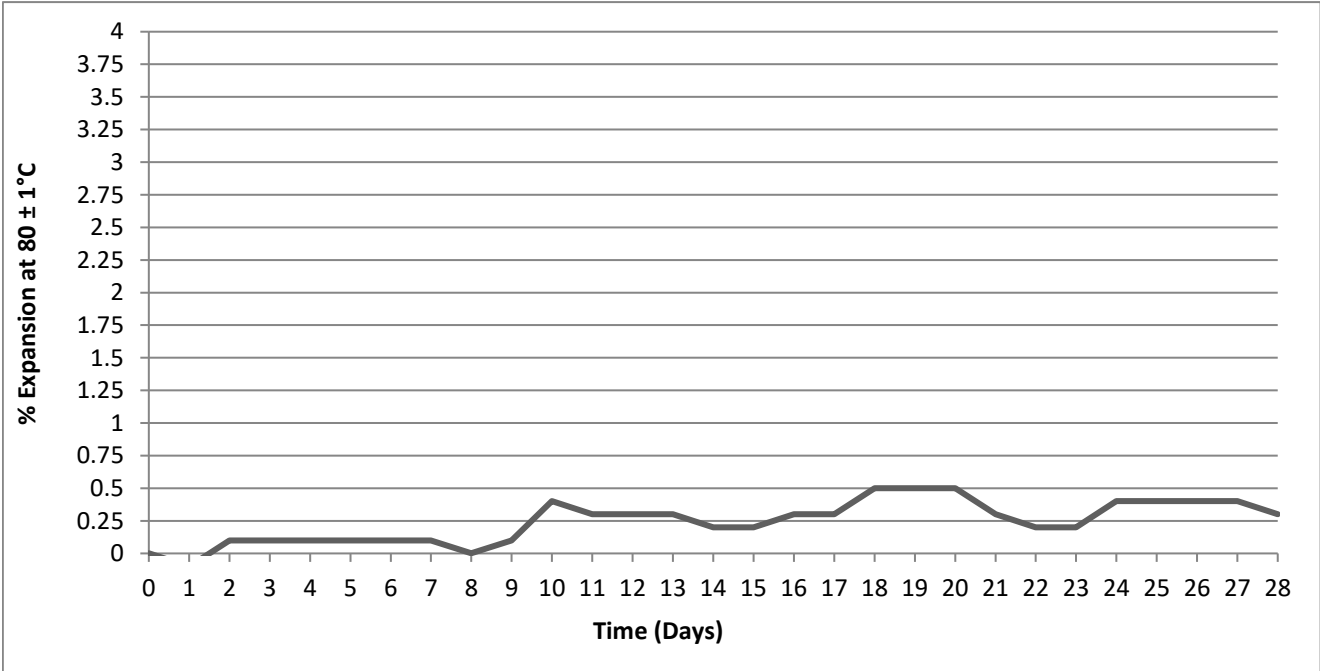
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG6-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 21

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786034

Page 1 of 1

LABORATORY TEST REPORT

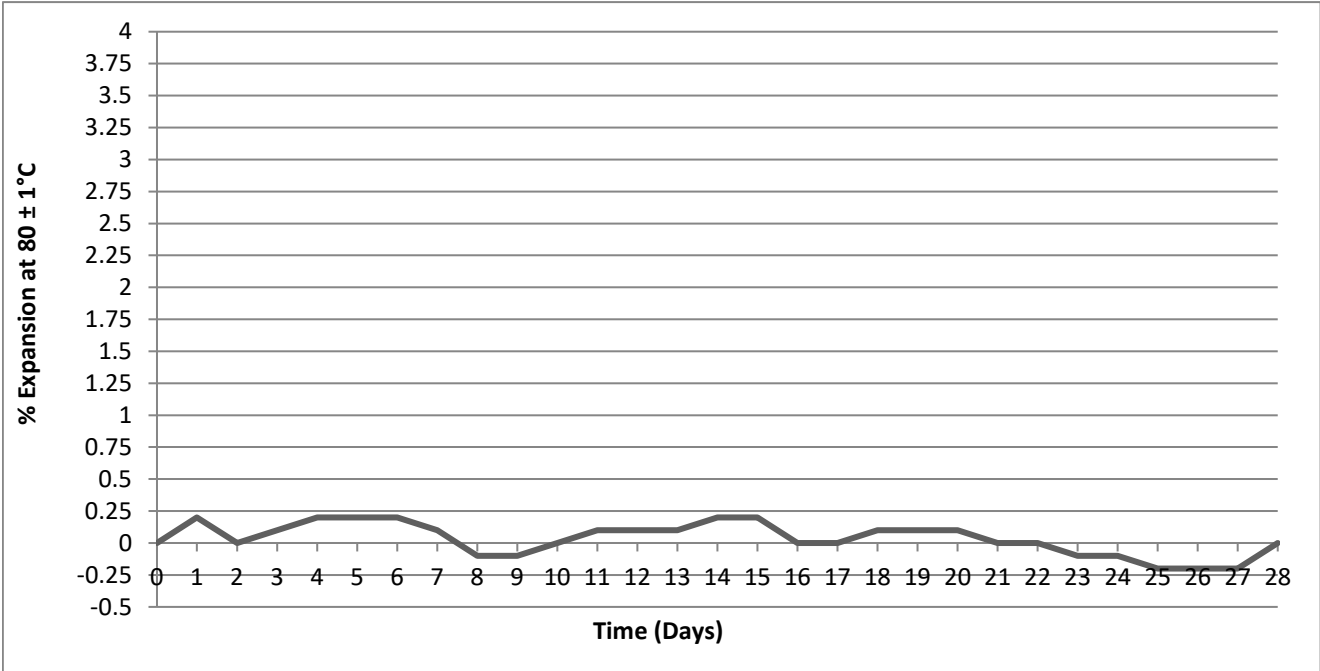
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AG8 @ 0.2M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 35

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777558

Page 1 of 1

LABORATORY TEST REPORT

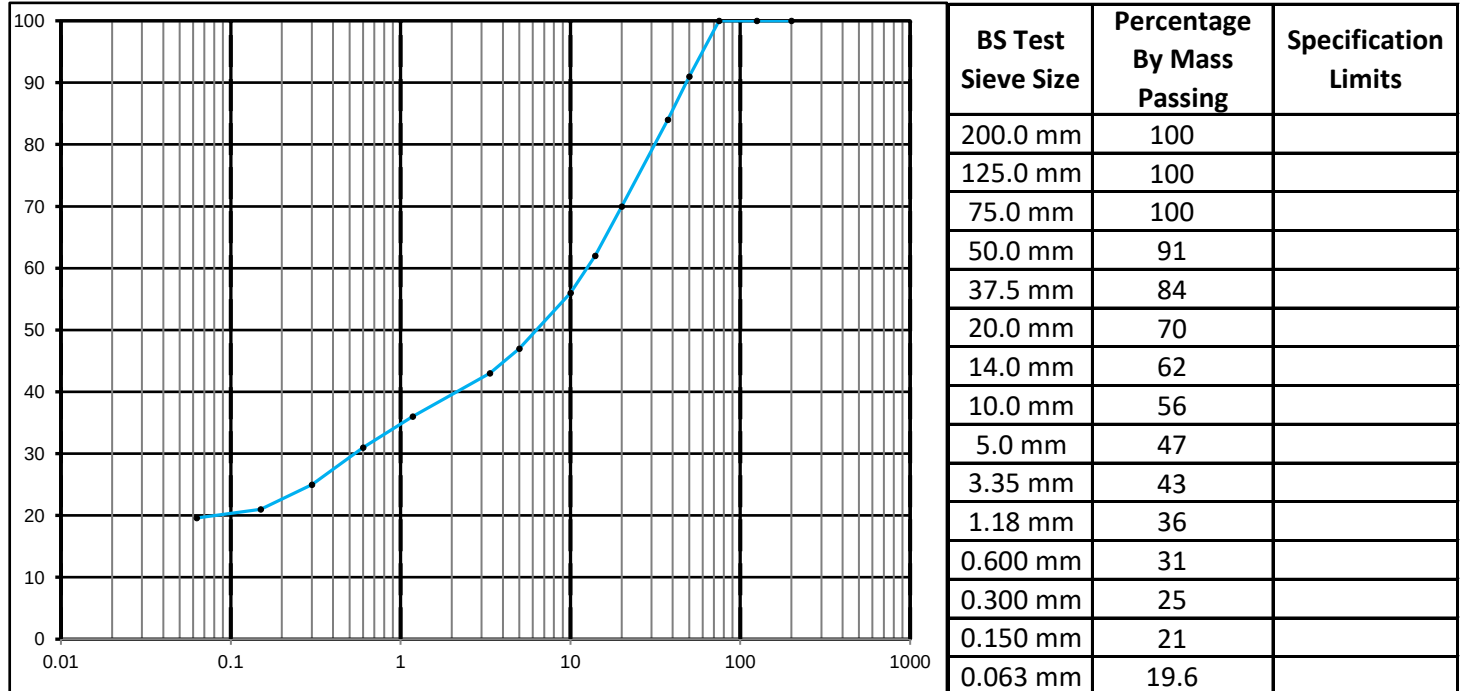
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AH1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777559

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AH1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 February 2021
Test Report Ref: TR 777560

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

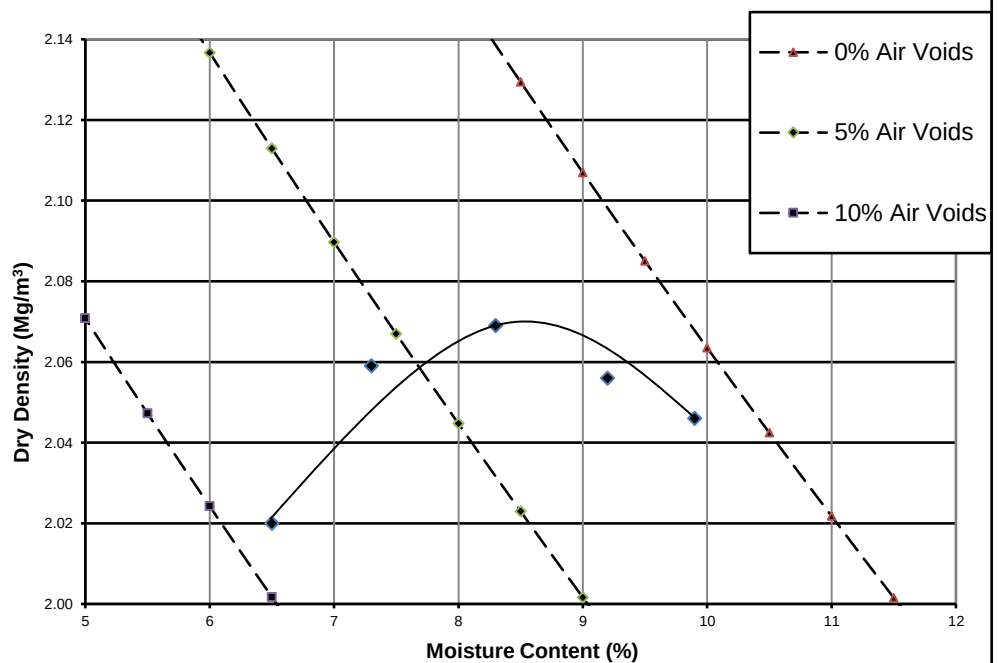
No
S92460
AH1-1
Unknown
14/01/2021
01/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **Clause X**
Sample Preparation Method:

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	32 %
Moisture Content (%)	Dry Density Mg/m ³
6.5	2.02
7.3	2.06
8.3	2.07
9.2	2.06
9.9	2.05
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.1	2.07



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777561

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AH1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.63 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.68 Mg/m ³
Apparent Particle density =	2.77 Mg/m ³
Water absorption (of dry mass) =	2.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784436

Page 1 of 1

LABORATORY TEST REPORT

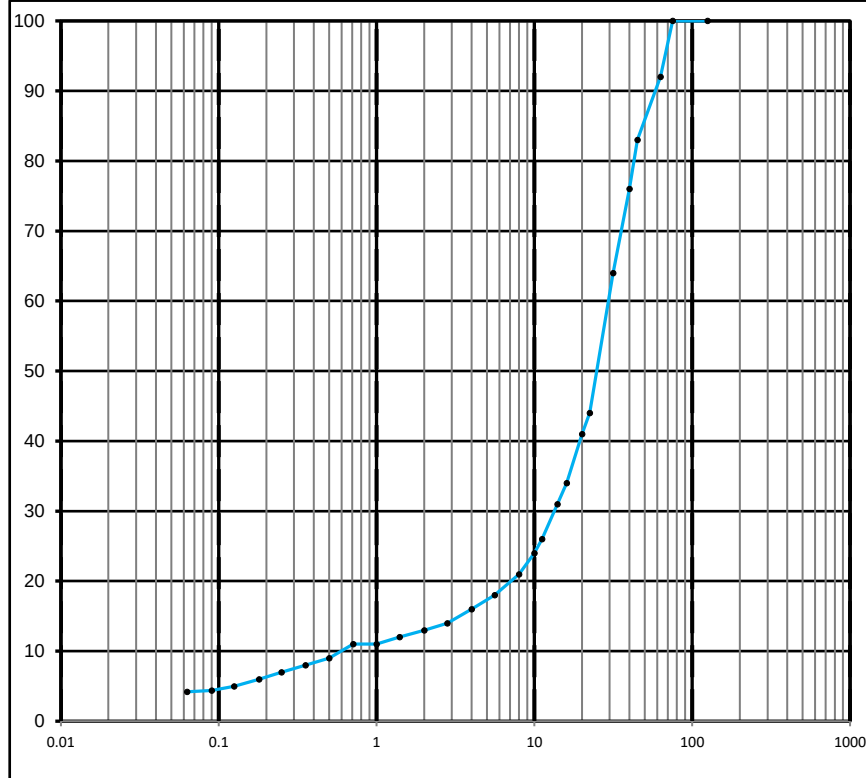
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AH2-1 - 1.5m	Sampled By:	Client
Date and Time of Sampling:	20/01/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	92	
45.0 mm	83	
40.0 mm	76	
31.5 mm	64	
22.4 mm	44	
20.0 mm	41	
16.0 mm	34	
14.0 mm	31	
11.2 mm	26	
10.0 mm	24	
8.0 mm	21	
5.6 mm	18	
4.0 mm	16	
2.8 mm	14	
2.0 mm	13	
1.4 mm	12	
1.0 mm	11	
0.710 mm	11	
0.500 mm	9	
0.355 mm	8	
0.250 mm	7	
0.180 mm	6	
0.125 mm	5	
0.090 mm	4.4	
0.063 mm	4.2	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784437

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AH2-1 - 1.5m
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 April 2021
Test Report Ref: TR 784438

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

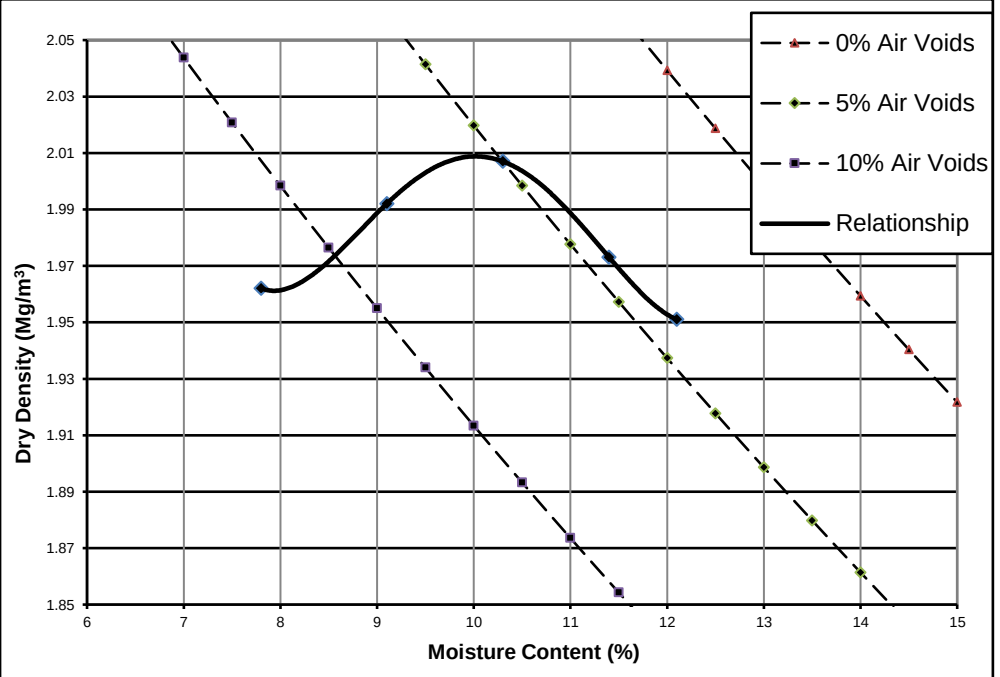
Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No **S93086**
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**
AH2-1 - 1.5m
20/01/2021
12/02/2021
06/04/2021
Unknown
Granular - 40mm Down

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	45 %
Retained on 20mm Sieve:	67 %
Moisture Content (%)	Dry Density Mg/m ³
7.8	1.96
9.1	1.99
10.3	2.01
11.4	1.97
12.1	1.95
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.01



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784439

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AH2-1 - 1.5m
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.33 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.41 Mg/m ³
Apparent Particle density =	2.53 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784304

Page 1 of 1

LABORATORY TEST REPORT

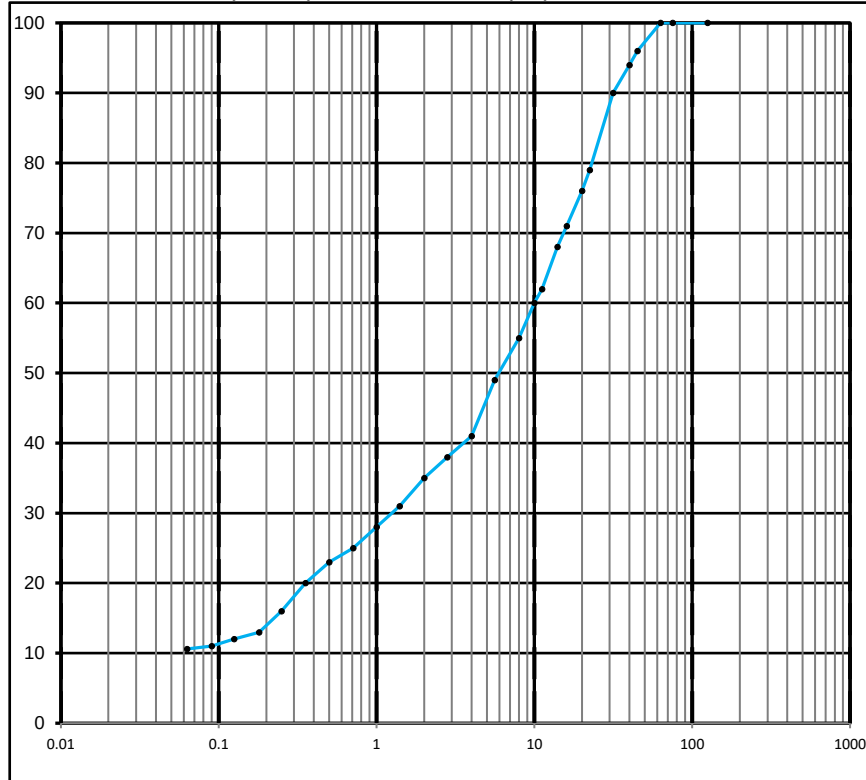
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AH3-1 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	96	
40.0 mm	94	
31.5 mm	90	
22.4 mm	79	
20.0 mm	76	
16.0 mm	71	
14.0 mm	68	
11.2 mm	62	
10.0 mm	60	
8.0 mm	55	
5.6 mm	49	
4.0 mm	41	
2.8 mm	38	
2.0 mm	35	
1.4 mm	31	
1.0 mm	28	
0.710 mm	25	
0.500 mm	23	
0.355 mm	20	
0.250 mm	16	
0.180 mm	13	
0.125 mm	12	
0.090 mm	11	
0.063 mm	10.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784305

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AH3-1 - 0.5m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 16 April 2021
Test Report Ref: TR 784306

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

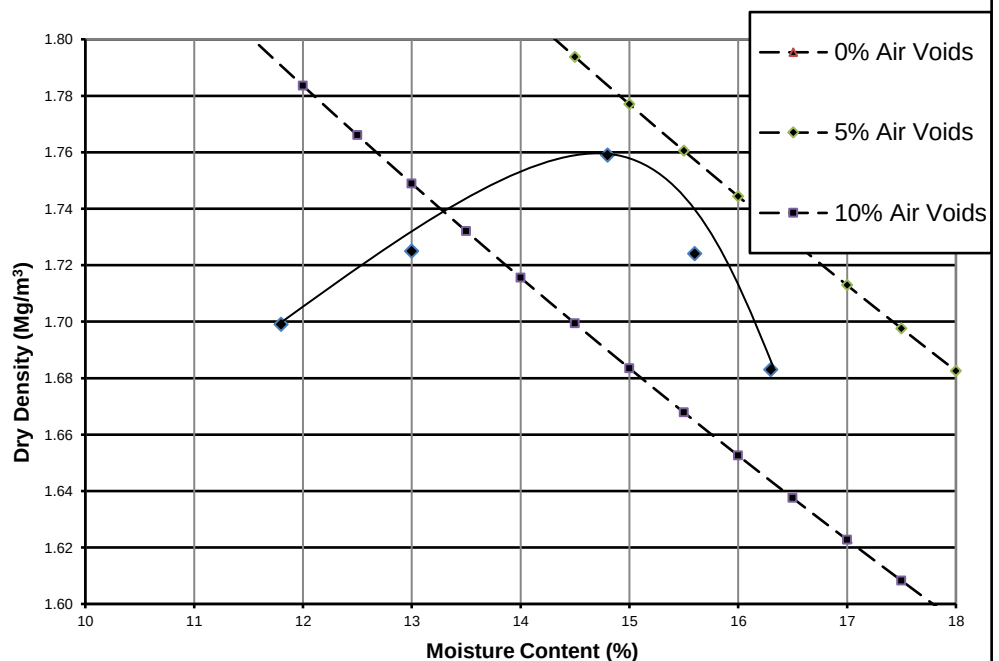
No
S93086
AH3-1 - 0.5m
Unknown
12/02/2021
10/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
11.8	1.70
13.0	1.73
14.8	1.76
15.6	1.72
16.3	1.68
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
14.0	1.76



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784307

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AH3-1 - 0.5m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.23 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.35 Mg/m ³
Apparent Particle density =	2.54 Mg/m ³
Water absorption (of dry mass) =	5.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 August 2021
Test Report Ref: TR 786016

Page 1 of 1

LABORATORY TEST REPORT

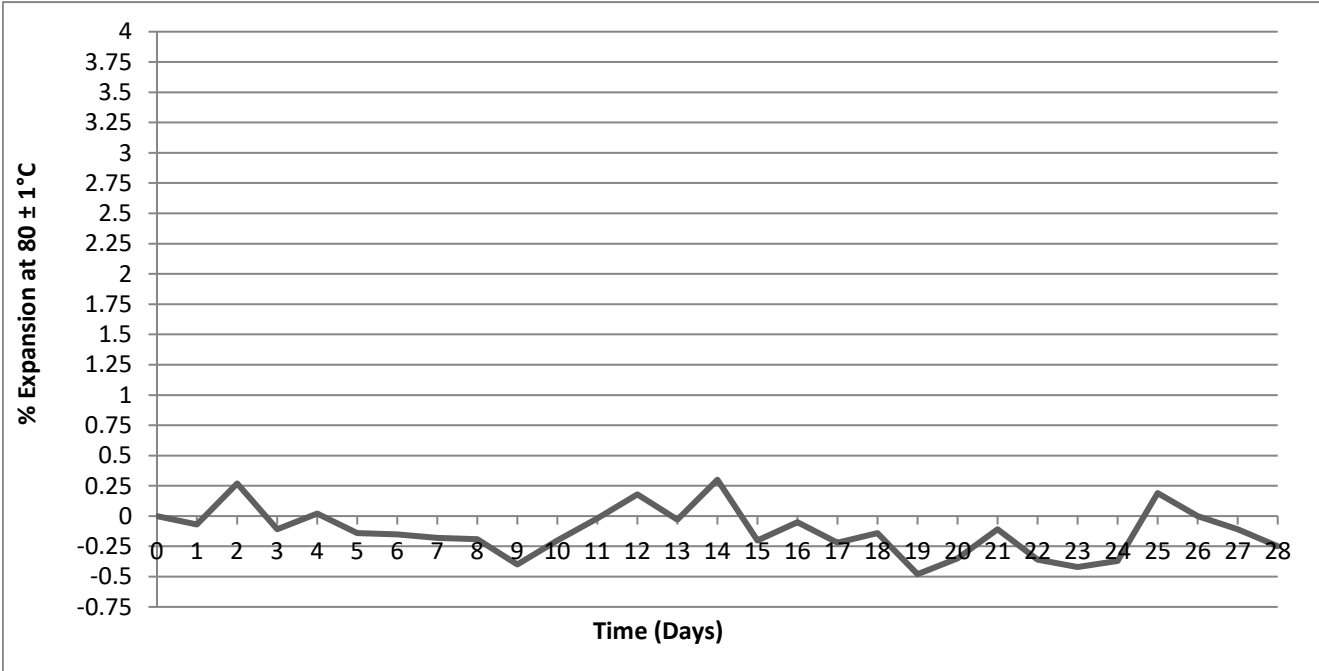
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH6-1 @ 0.5M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	05/07/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 16

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786025

Page 1 of 1

LABORATORY TEST REPORT

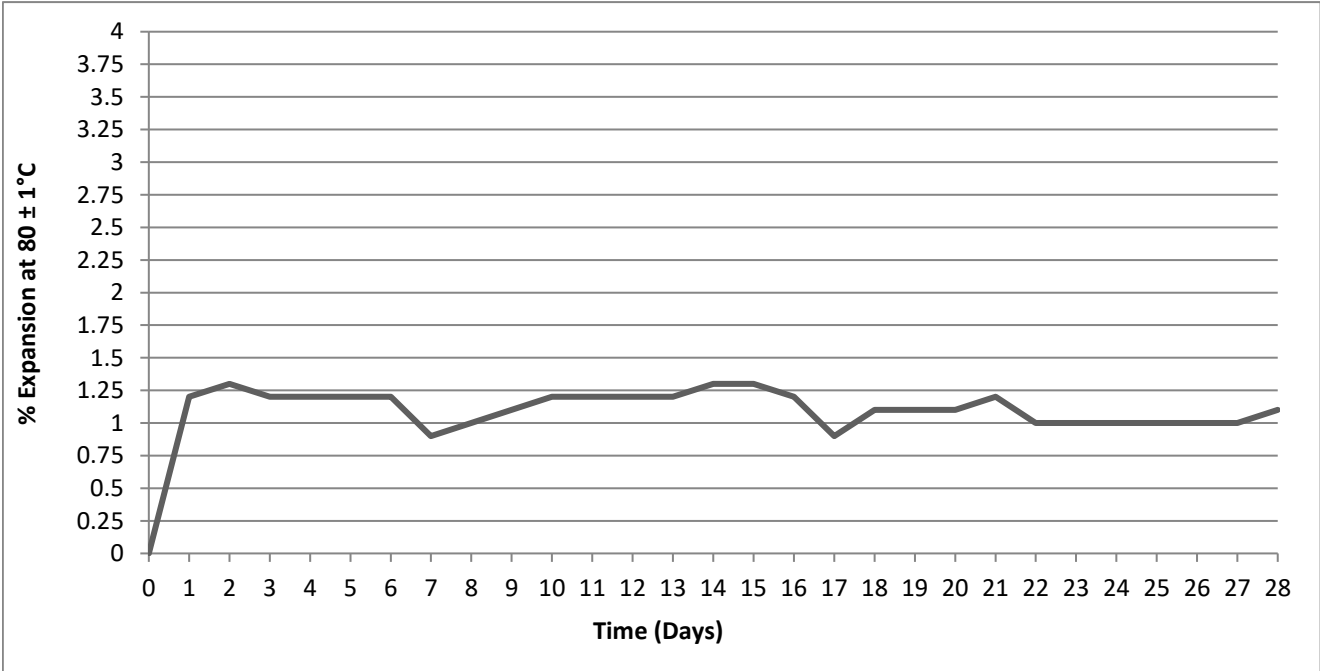
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AH8 @ 0.1M
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 18

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777553

Page 1 of 1

LABORATORY TEST REPORT

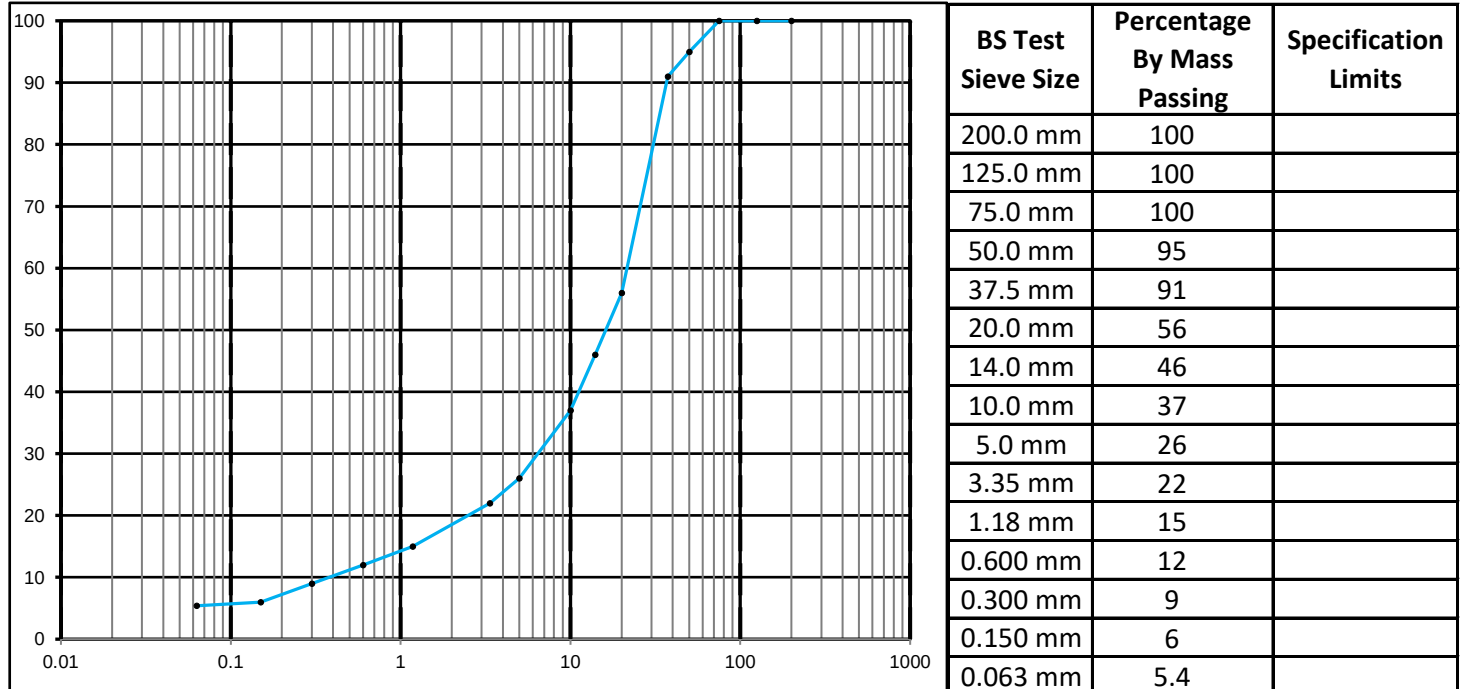
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AI1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777554

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AI1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 17.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 22 February 2021
Test Report Ref: TR 777555

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

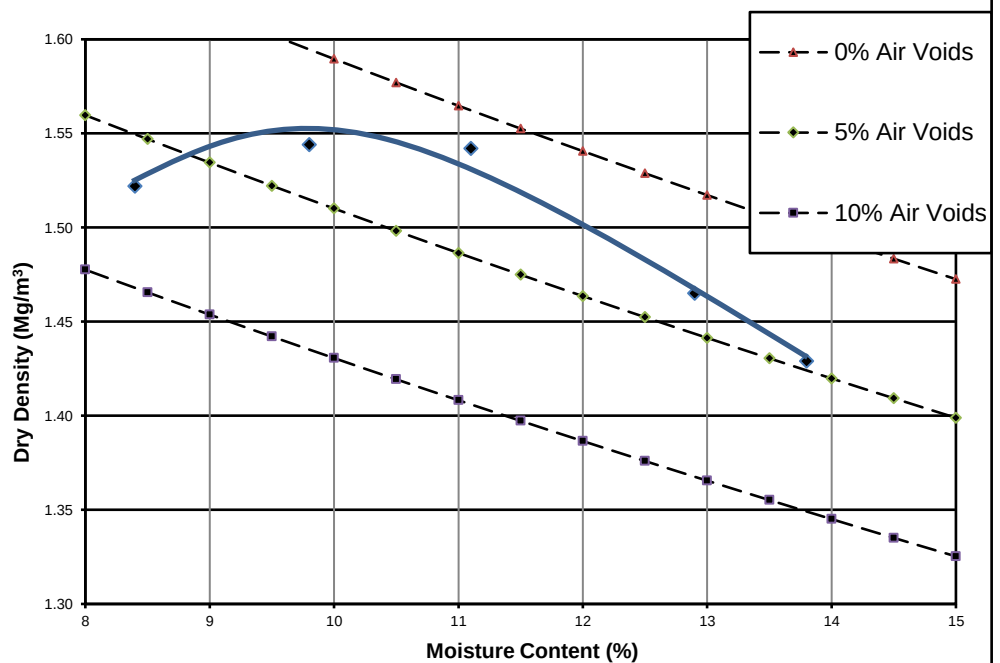
No
S92460
AI1-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 1.89Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	60 %
Moisture Content (%)	Dry Density Mg/m ³
8.4	1.52
9.8	1.54
11.1	1.54
12.9	1.47
13.8	1.43
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	1.55



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777556

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AI1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.34 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.42 Mg/m ³
Apparent Particle density =	1.47 Mg/m ³
Water absorption (of dry mass) =	0.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777557

Page 1 of 1

LABORATORY TEST REPORT

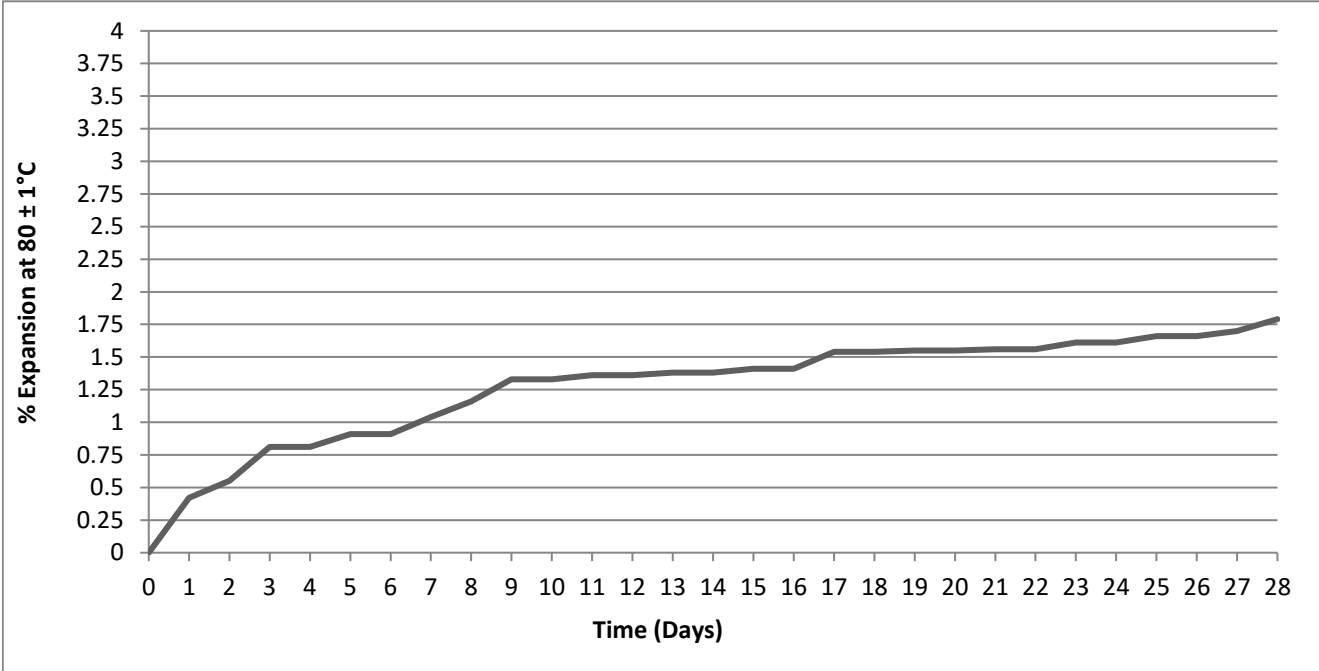
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AI1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.79



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 49

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 April 2021
Test Report Ref: TR 786111

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AI2-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	31/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 786107

Page 1 of 1

LABORATORY TEST REPORT

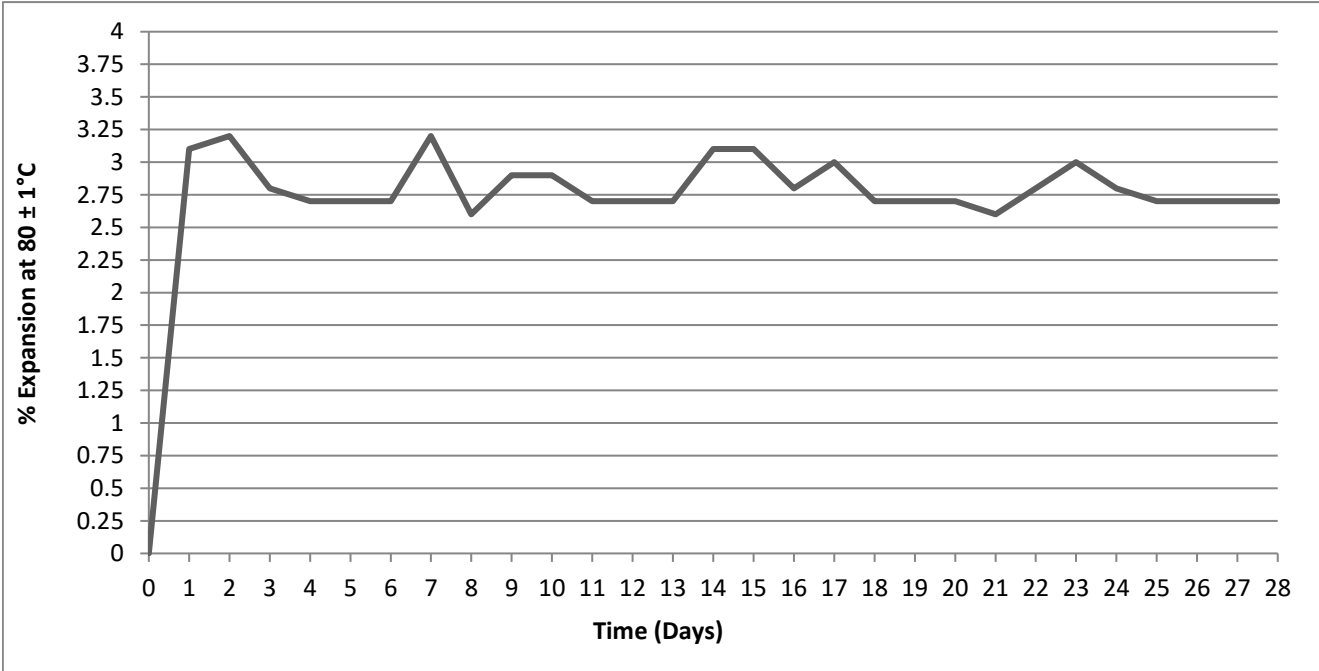
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AI3-1 @ 0.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.7



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 13

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 787577

Page 1 of 1

LABORATORY TEST REPORT

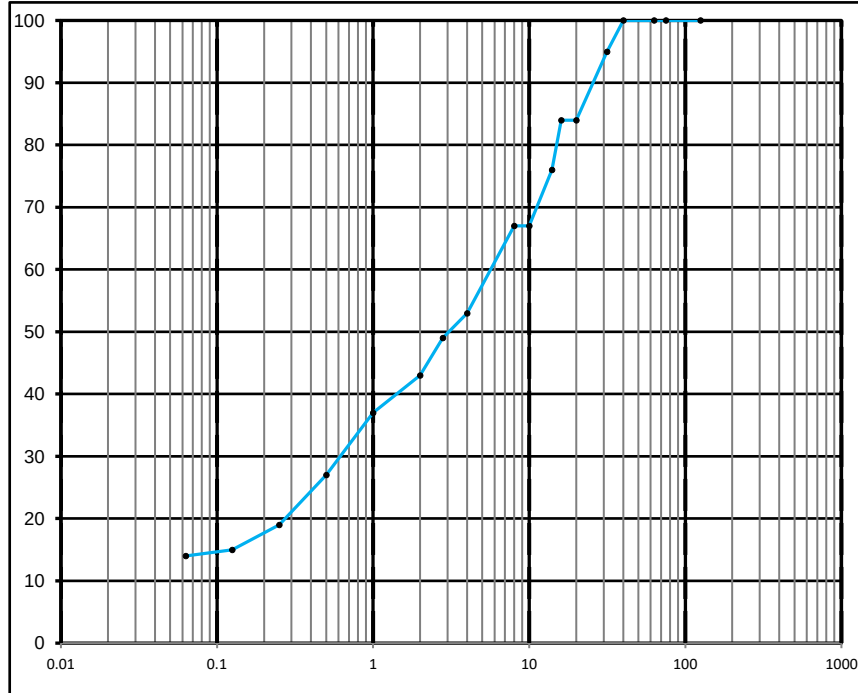
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	A16 - 0.1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	02/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	100	
31.5 mm	95	
20.0 mm	84	
16.0 mm	84	
14.0 mm	76	
10.0 mm	67	
8.0 mm	67	
4.0 mm	53	
2.8 mm	49	
2.0 mm	43	
1.0 mm	37	
0.500 mm	27	
0.250 mm	19	
0.125 mm	15	
0.063 mm	14.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 787579

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	A16 - 0.1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

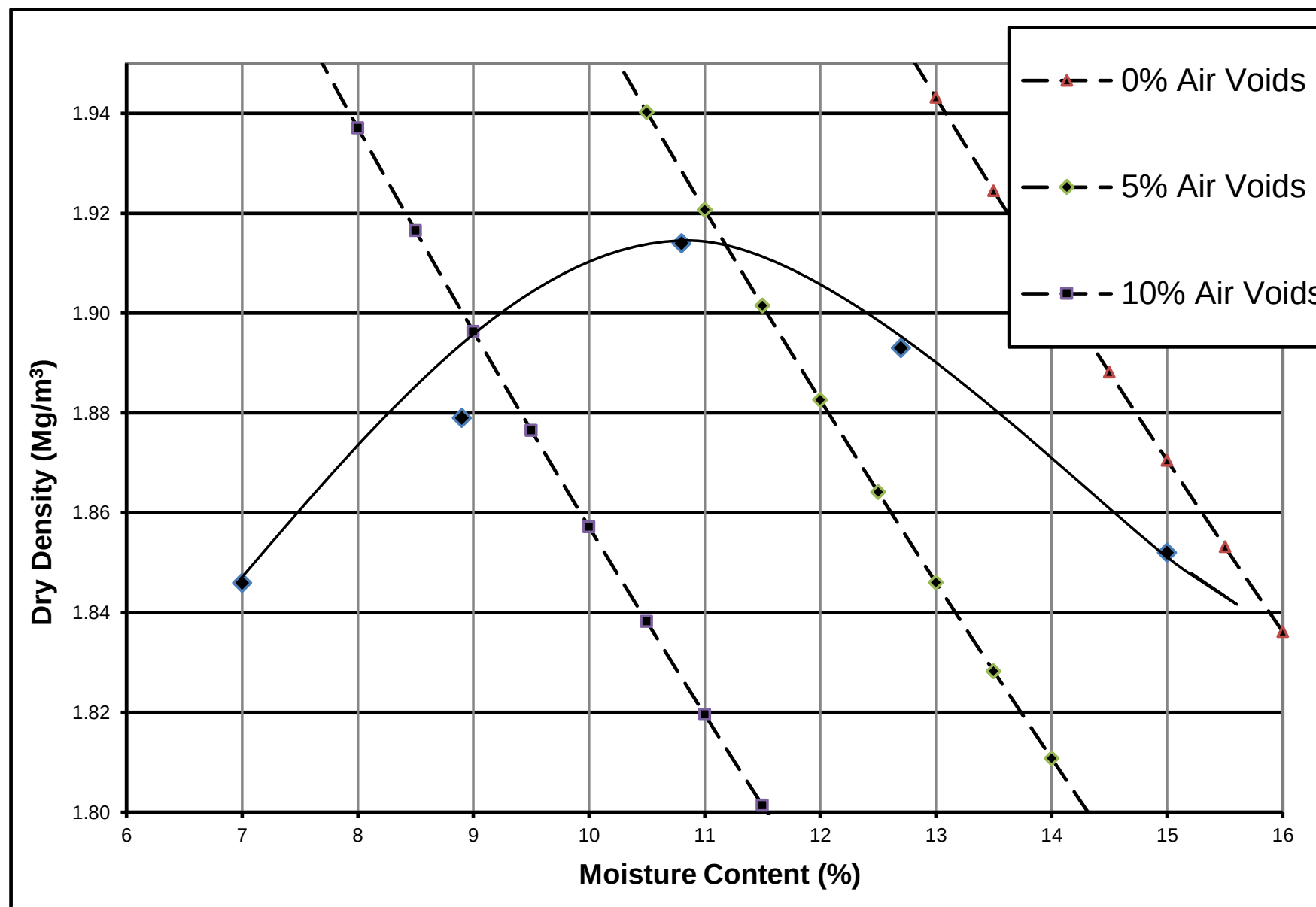
Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator



St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 787583

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AI6 - 0.1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	19/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.29 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.38 Mg/m ³
Apparent Particle density =	2.52 Mg/m ³
Water absorption (of dry mass) =	3.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 June 2021
Test Report Ref: TR 787585

Page 1 of 1

LABORATORY TEST REPORT

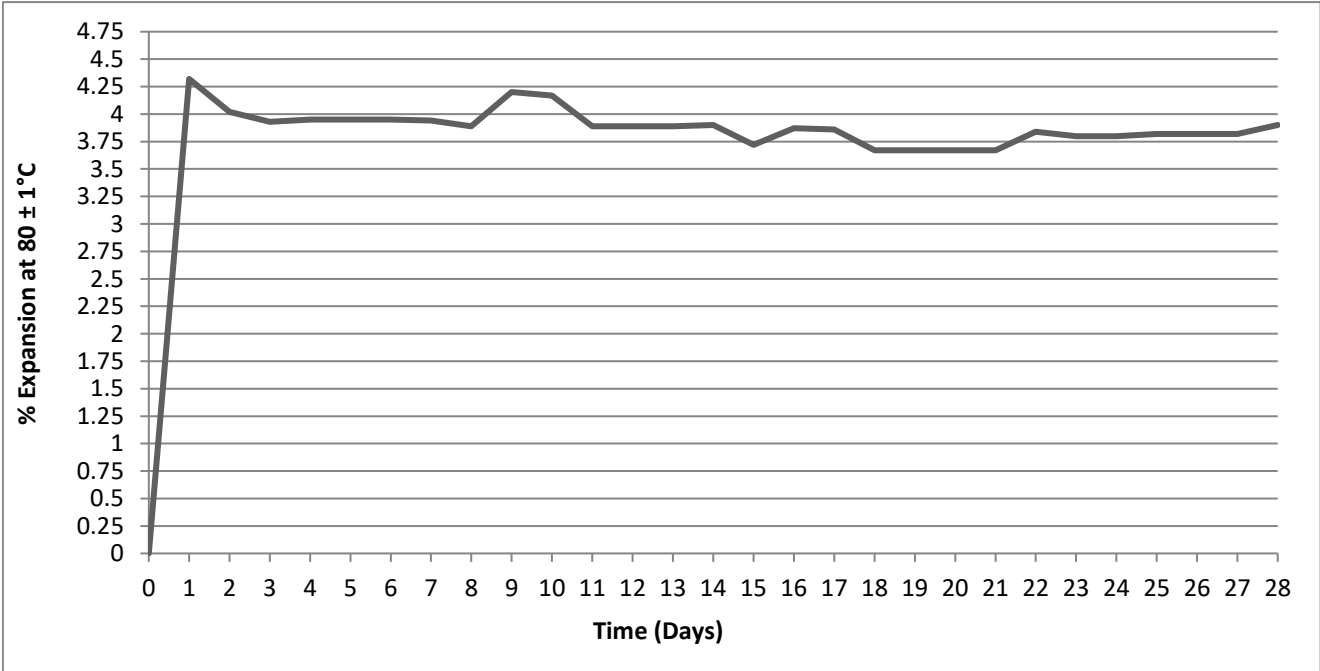
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	A16 - 0.1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	10/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 3.9



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 16

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782663

Page 1 of 1

LABORATORY TEST REPORT

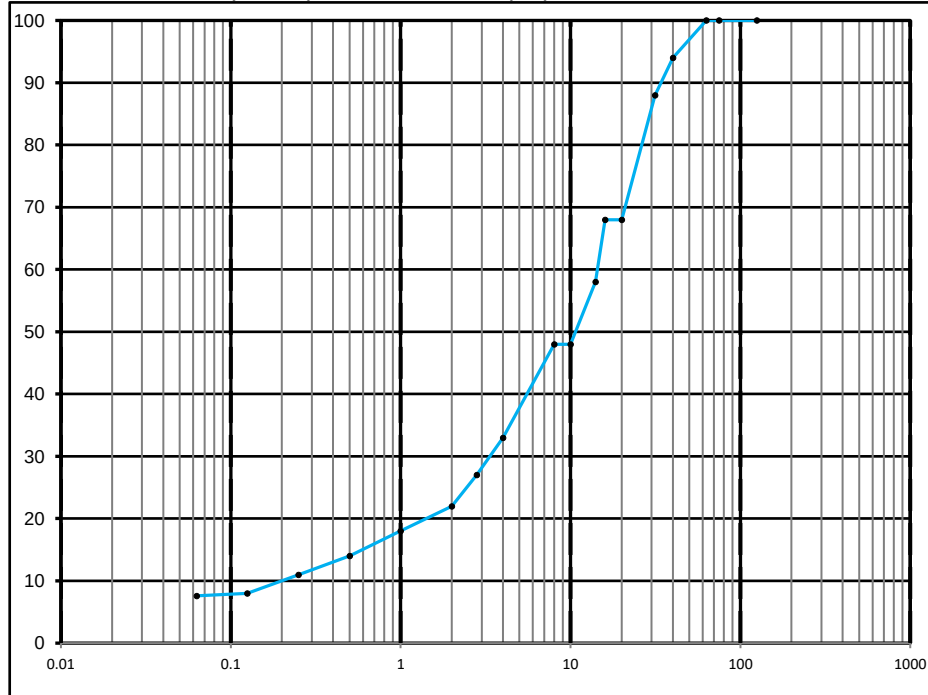
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	A17-1 - 0.4	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	02/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	94	
31.5 mm	88	
20.0 mm	68	
16.0 mm	68	
14.0 mm	58	
10.0 mm	48	
8.0 mm	48	
4.0 mm	33	
2.8 mm	27	
2.0 mm	22	
1.0 mm	18	
0.500 mm	14	
0.250 mm	11	
0.125 mm	8	
0.063 mm	7.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782664

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AI7-1 - 0.4
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	02/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 March 2021
Test Report Ref: TR 782665

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

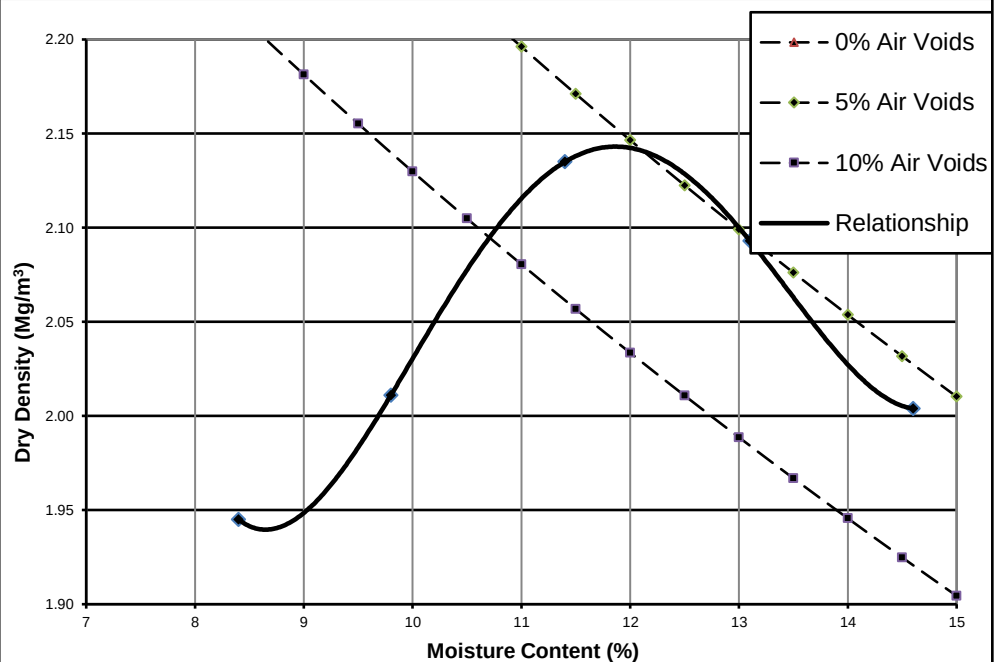
No
S92900
AI7-1 - 0.4
Unknown
04/02/2021
19/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.1Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	16 %
Retained on 20mm Sieve:	35 %
Moisture Content (%)	Dry Density Mg/m ³
8.4	1.95
9.8	2.01
11.4	2.14
13.1	2.09
14.6	2.00
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.14



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 June 2021
Test Report Ref: TR 782666

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AI7-1 - 0.4
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	10/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	MS
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.69 Mg/m ³
Apparent Particle density =	2.91 Mg/m ³
Water absorption (of dry mass) =	4.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 June 2021
Test Report Ref: TR 782667

Page 1 of 1

LABORATORY TEST REPORT

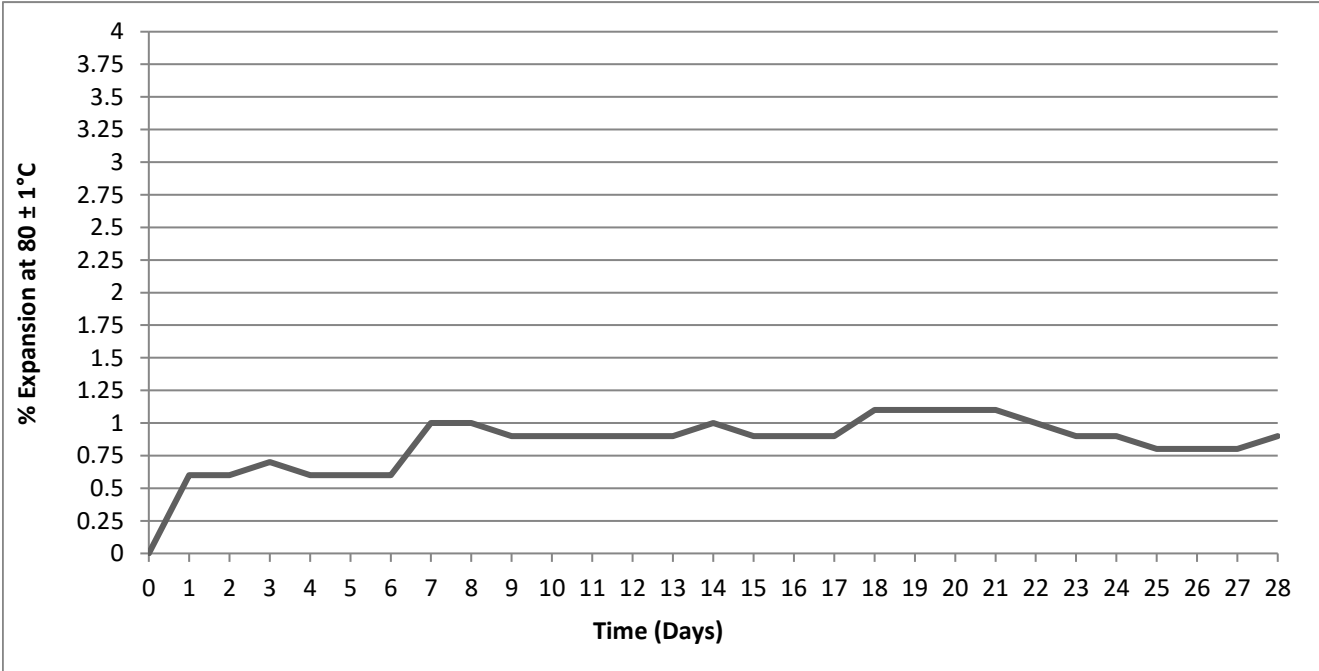
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AI7-1 - 0.4
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	10/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.9



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 32

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782659

Page 1 of 1

LABORATORY TEST REPORT

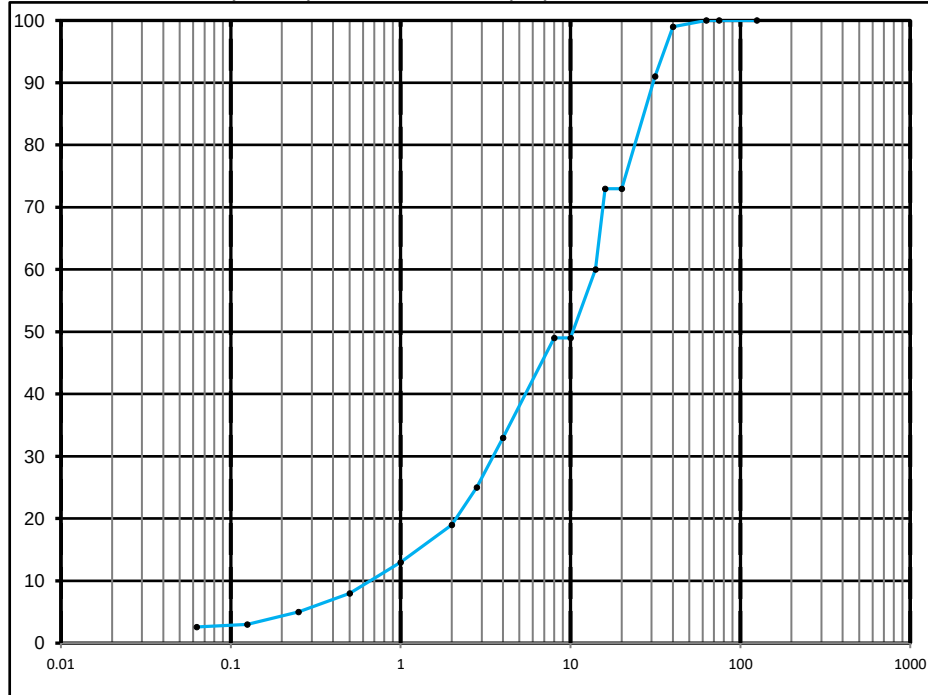
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	A18-1 - 0.4	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	99	
31.5 mm	91	
20.0 mm	73	
16.0 mm	73	
14.0 mm	60	
10.0 mm	49	
8.0 mm	49	
4.0 mm	33	
2.8 mm	25	
2.0 mm	19	
1.0 mm	13	
0.500 mm	8	
0.250 mm	5	
0.125 mm	3	
0.063 mm	2.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782660

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	A18-1 - 0.4
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 March 2021
Test Report Ref: TR 782661

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

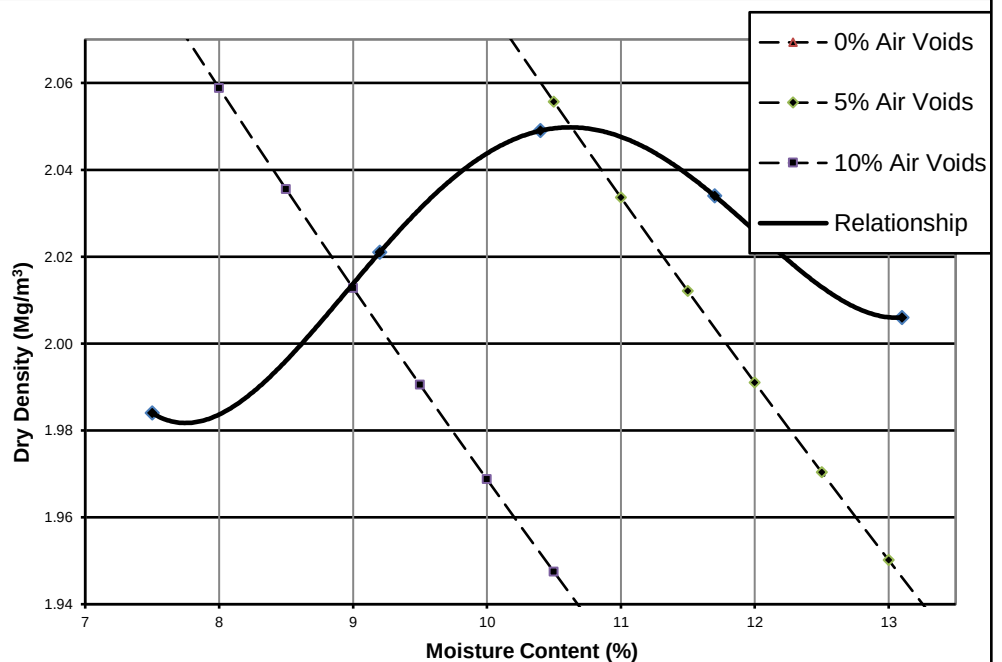
No
S92900
AI8-1 - 0.4
Unknown
04/02/2021
15/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	28 %
Moisture Content (%)	Dry Density Mg/m ³
7.5	1.98
9.2	2.02
10.4	2.05
11.7	2.03
13.1	2.01
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.04



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782662

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AI8-1 - 0.4
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	19/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.36 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.72 Mg/m ³
Water absorption (of dry mass) =	5.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777551

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

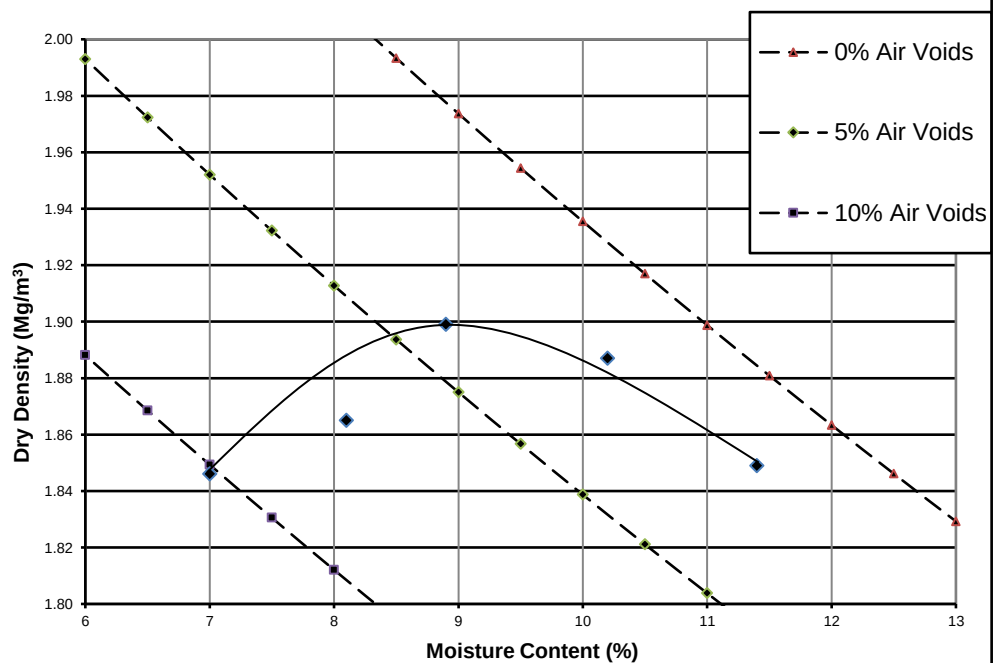
No
S92460
AJ1-1 - 1.0
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X single**

RESULTS:

Particle Density: 2.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	38 %
Moisture Content (%)	Dry Density Mg/m ³
7.0	1.85
8.1	1.87
8.9	1.90
10.2	1.89
11.4	1.85
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.4	1.90



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777552

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ1-1 - 1.0
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.25 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.38 Mg/m ³
Apparent Particle density =	2.60 Mg/m ³
Water absorption (of dry mass) =	5.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777646

Page 1 of 1

LABORATORY TEST REPORT

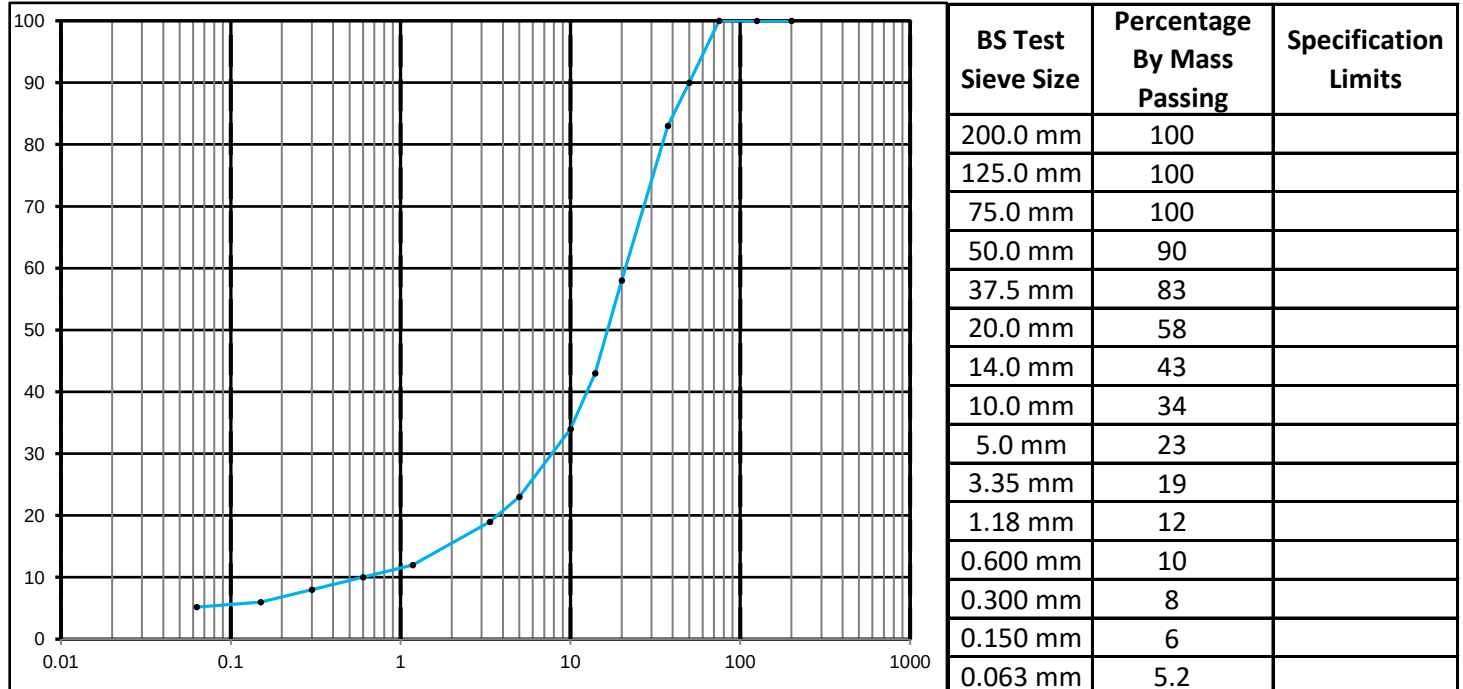
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777647

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 777648

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

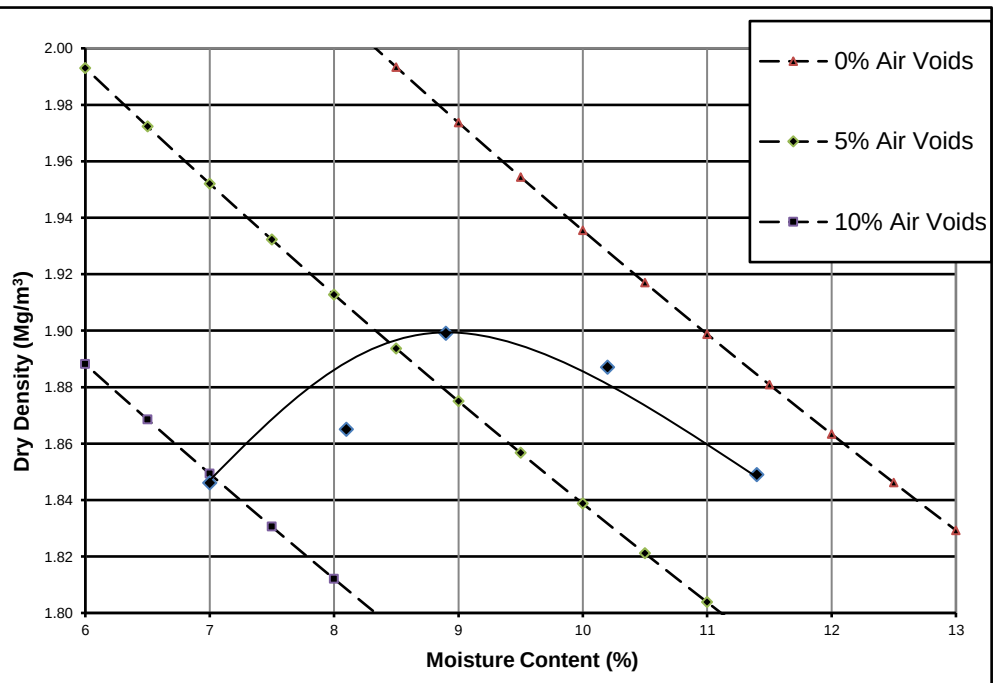
No
S92460
AJ1-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	38 %
Moisture Content (%)	Dry Density Mg/m ³
7.0	1.85
8.1	1.87
8.9	1.90
10.2	1.89
11.4	1.85
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.4	1.90



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777649

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.25 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.38 Mg/m ³
Apparent Particle density =	2.60 Mg/m ³
Water absorption (of dry mass) =	5.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 September 2021
Test Report Ref: TR 786120

Page 1 of 1

LABORATORY TEST REPORT

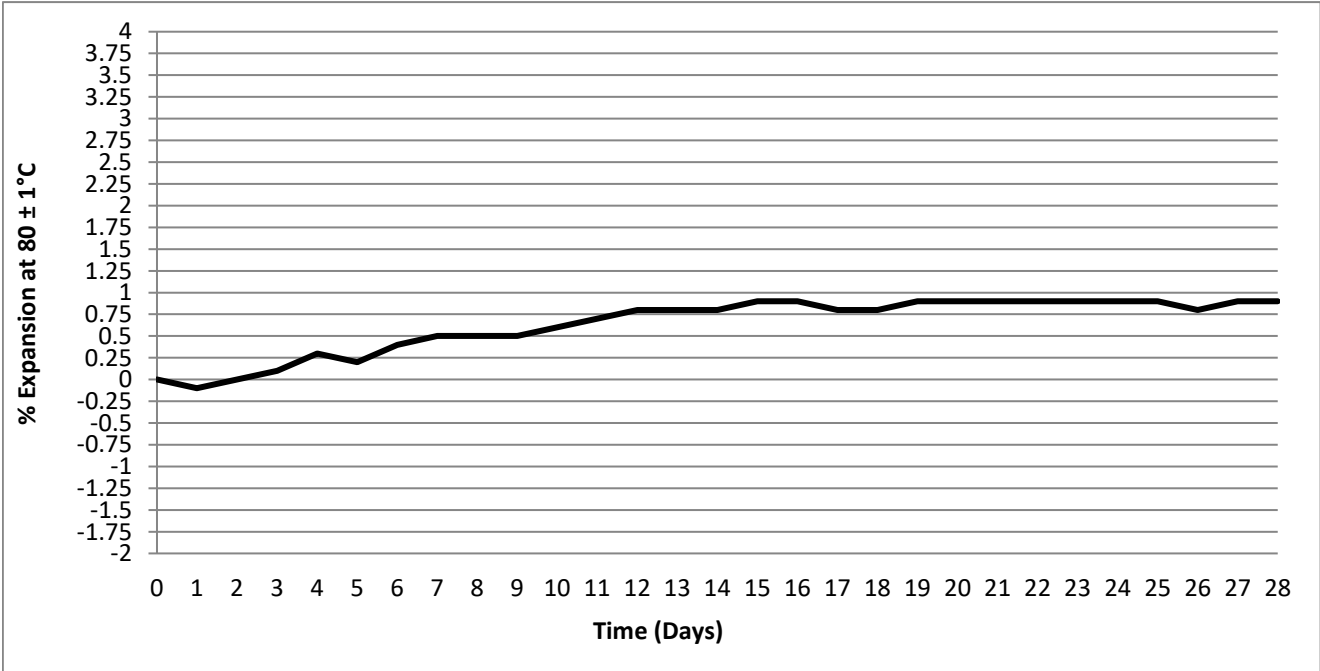
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ2-1 @ 1.5M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	08/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.9



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 60

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 13 August 2021
Test Report Ref: TR 786149

Page 1 of 1

LABORATORY TEST REPORT

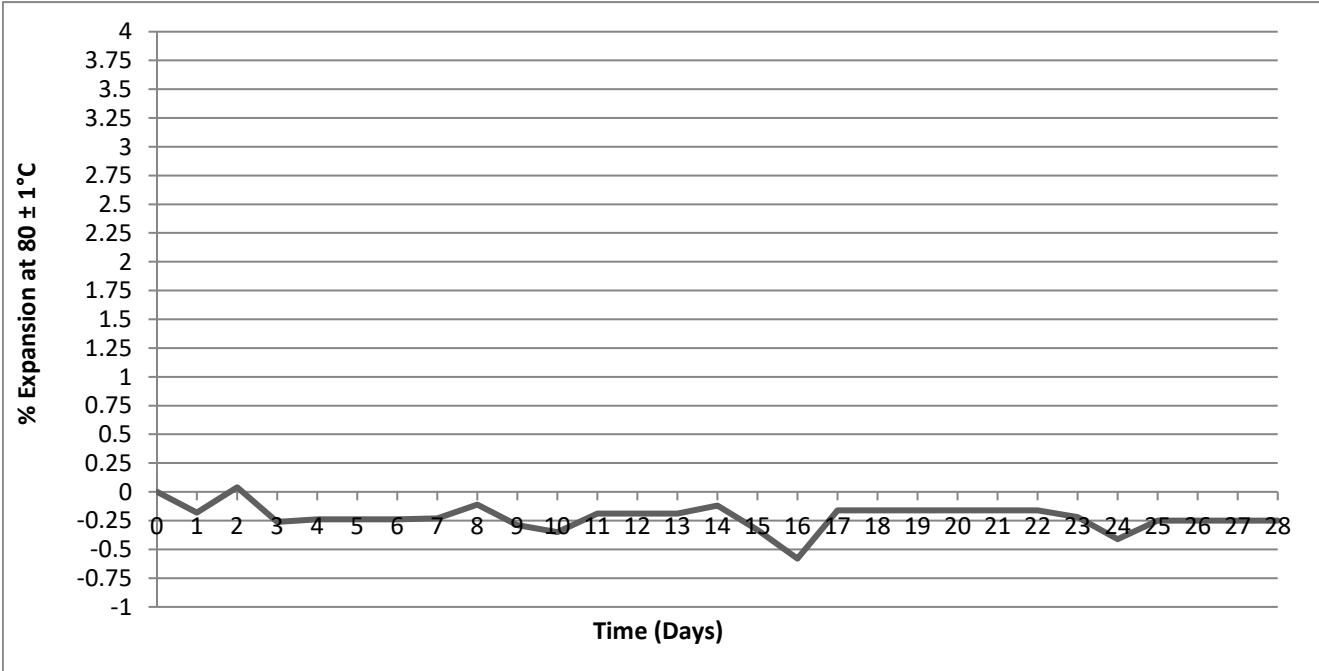
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93278
Client Ref. No:	AJ3-1 @ 0.3M
Date and Time of Sampling:	20/01/2021
Date of Receipt at Lab:	22/02/2021
Date of Start of Test:	05/07/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = -0.3



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 30

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775718

Page 1 of 1

LABORATORY TEST REPORT

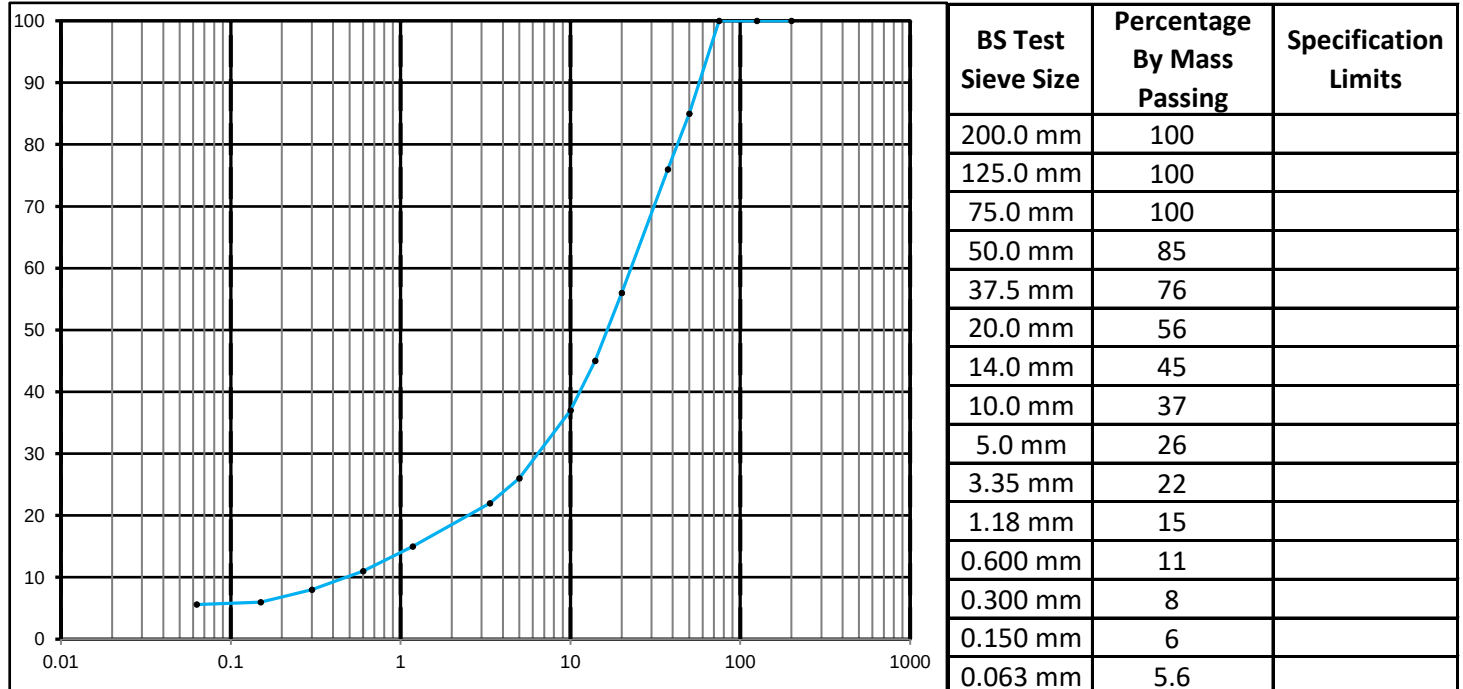
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AJ4-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775719

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775720

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

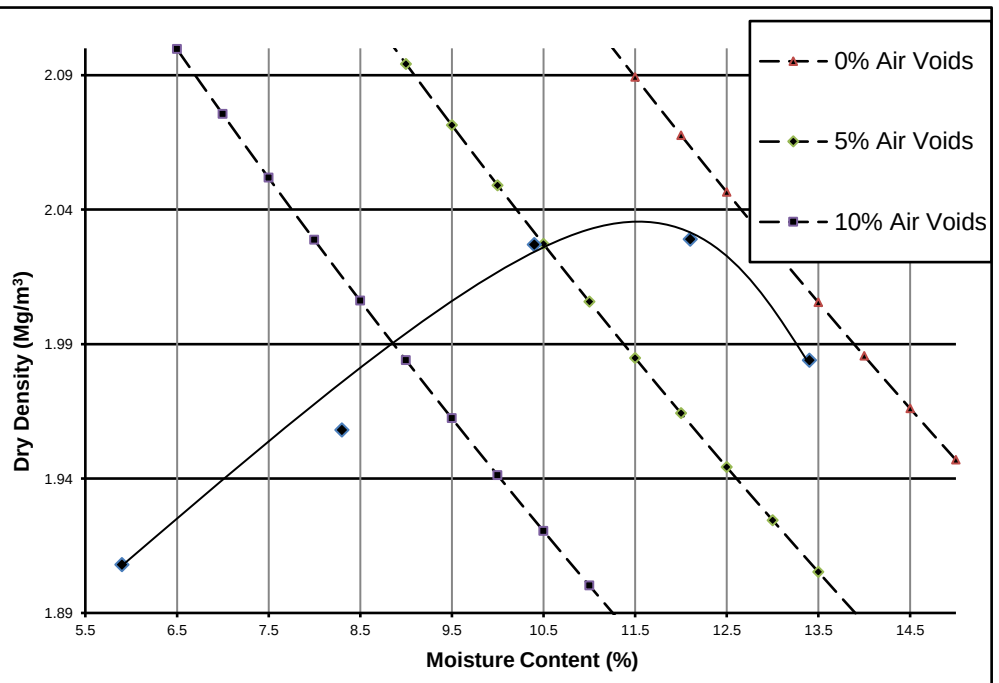
No
S92292
AJ4-1
Unknown
05/01/2021
01/02/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	5 %
Retained on 20mm Sieve:	12 %
Moisture Content (%)	Dry Density Mg/m ³
5.9	1.91
8.3	1.96
10.4	2.03
12.1	2.03
13.4	1.98
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.03



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775721

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.50 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.61 Mg/m ³
Apparent Particle density =	2.81 Mg/m ³
Water absorption (of dry mass) =	4.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775722

Page 1 of 1

LABORATORY TEST REPORT

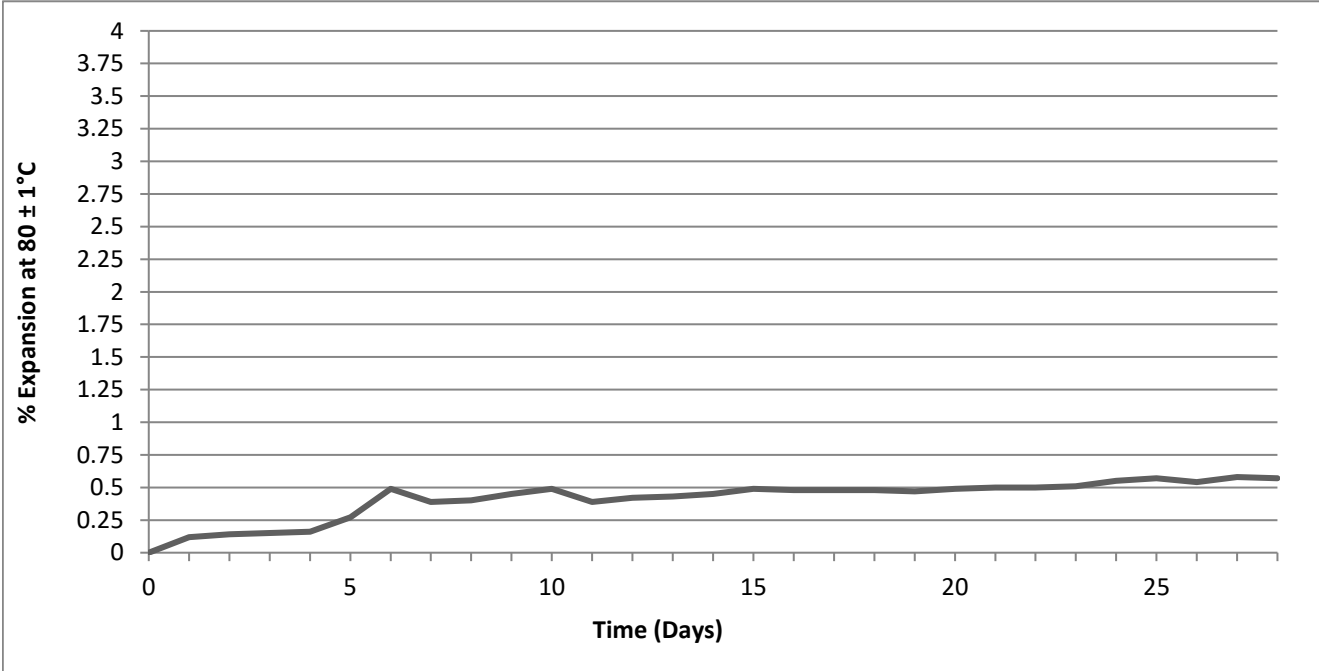
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.57



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 39

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777436

Page 1 of 1

LABORATORY TEST REPORT

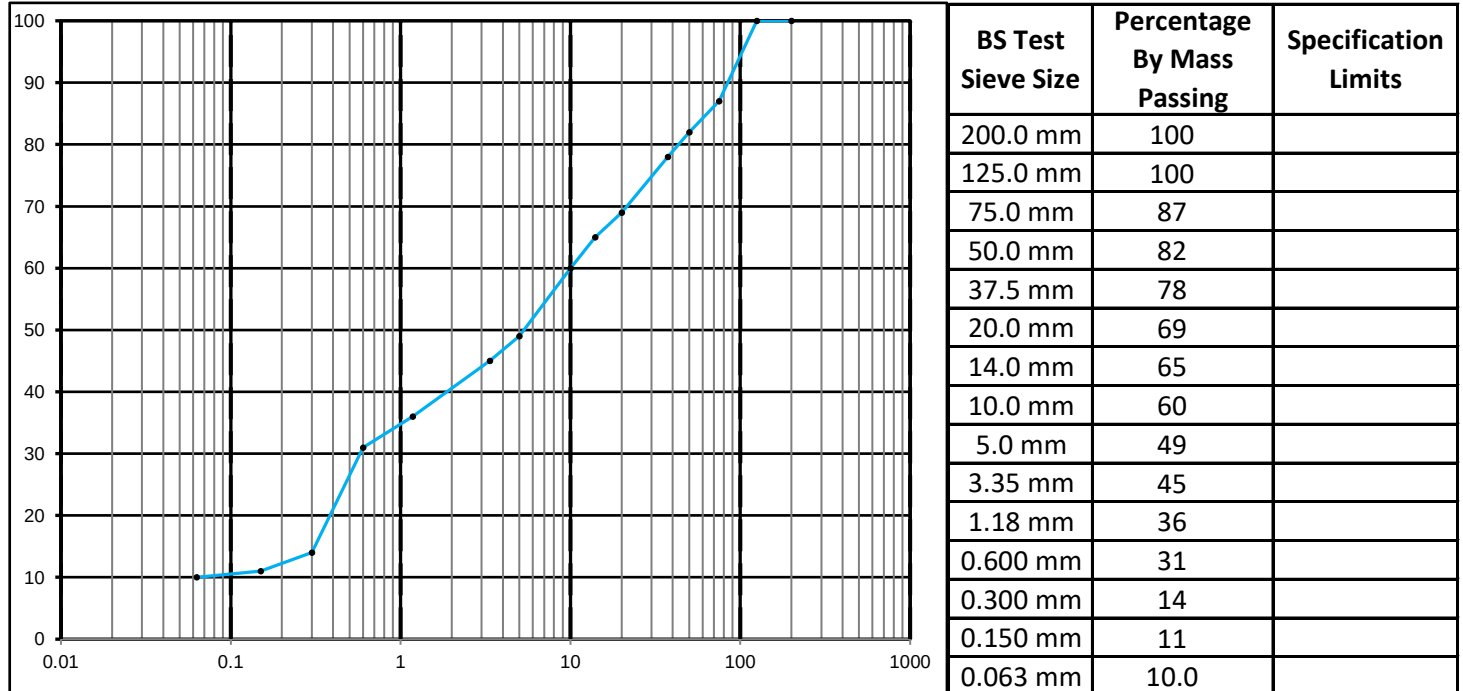
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ4-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777437

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777438

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

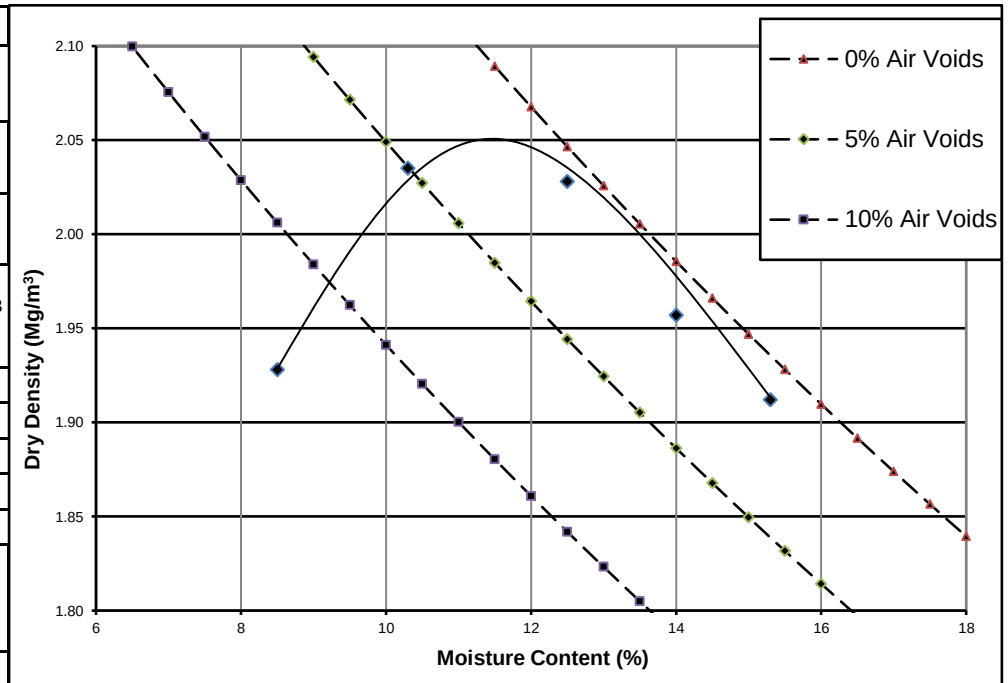
No
S92460
AJ4-1
Unknown
14/01/2021
03/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	80 %
Retained on 20mm Sieve:	66 %
Moisture Content (%)	Dry Density Mg/m ³
8.5	1.93
10.3	2.04
12.5	2.03
14.0	1.96
15.3	1.91
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.05



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777439

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.03 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.16 Mg/m ³
Apparent Particle density =	2.33 Mg/m ³
Water absorption (of dry mass) =	6.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777440

Page 1 of 1

LABORATORY TEST REPORT

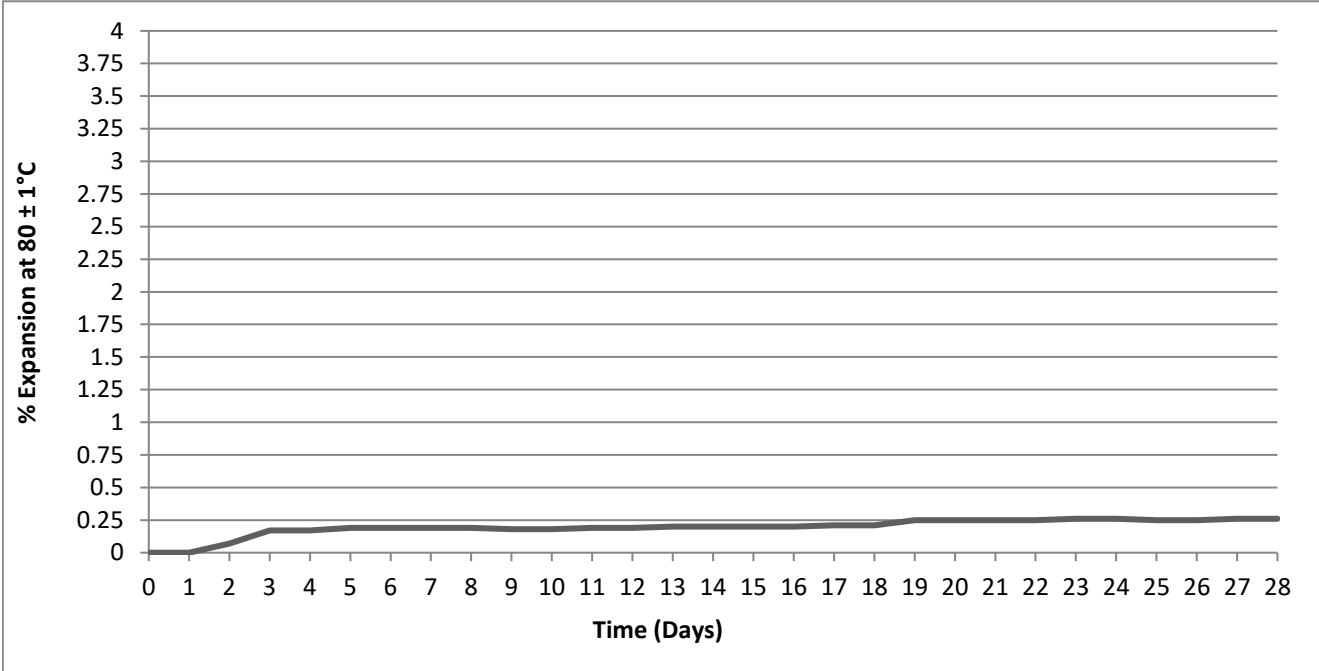
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ4-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.26



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 31

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777441

Page 1 of 1

LABORATORY TEST REPORT

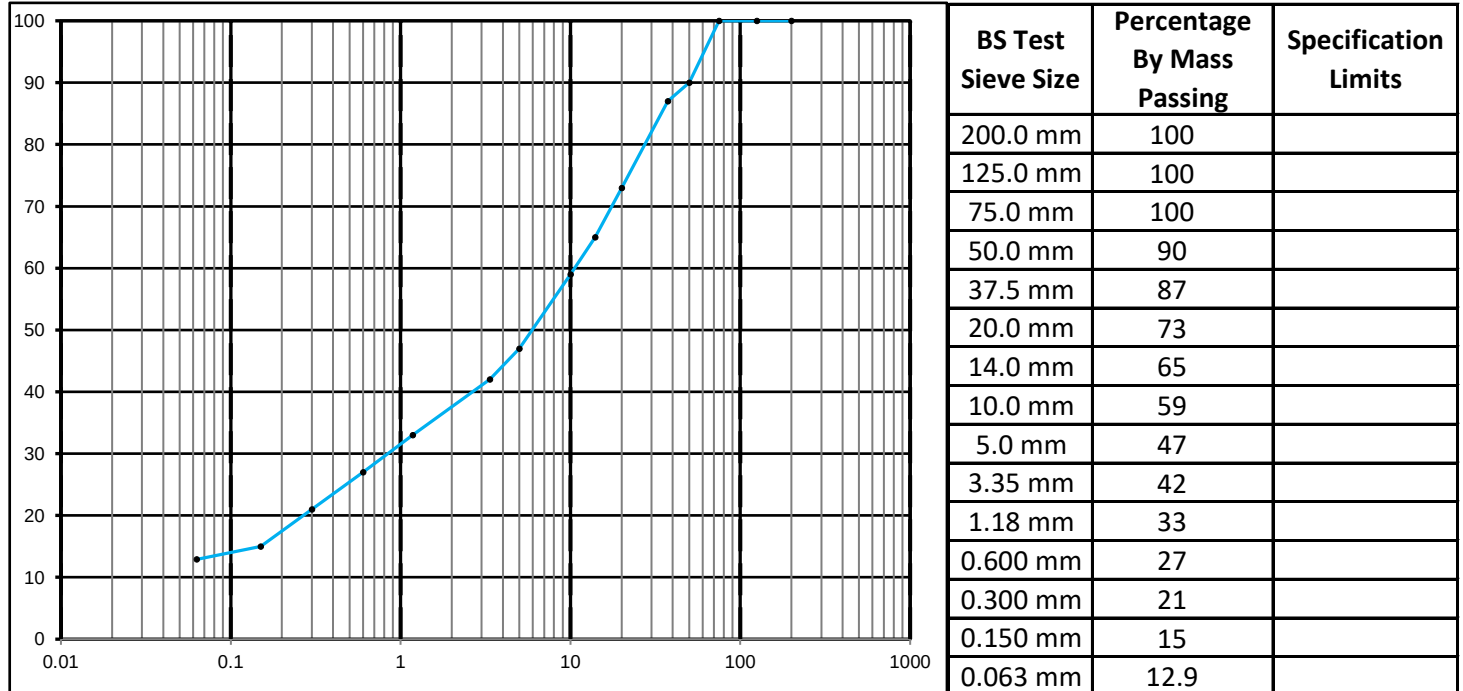
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ6-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777442

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ6-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777443

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

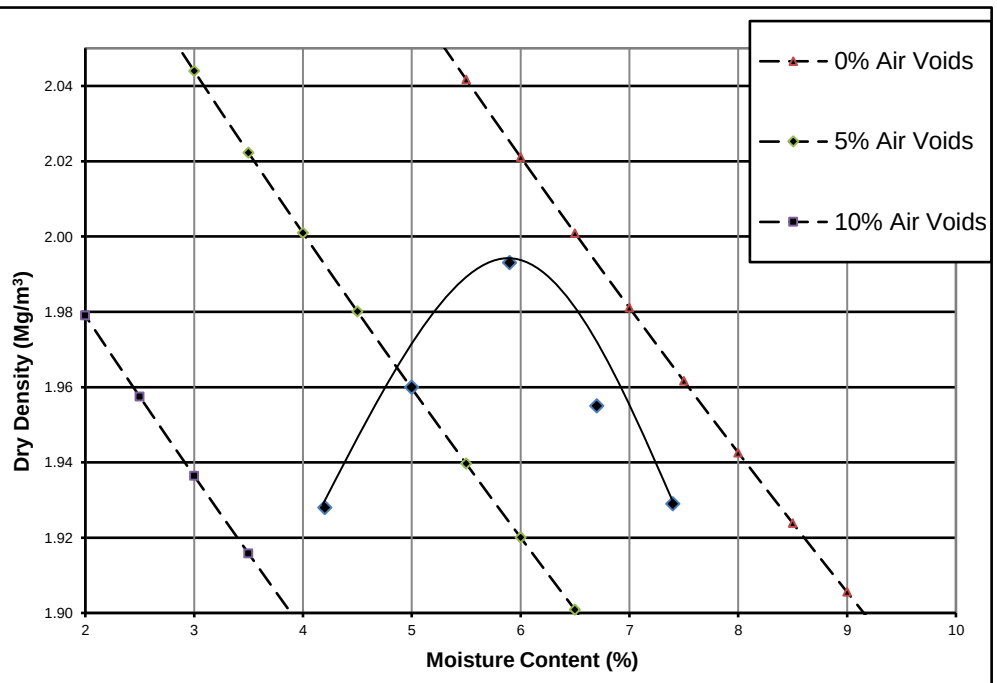
No
S92460
AJ6-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
4.2	1.93
5.0	1.96
5.9	1.99
6.7	1.96
7.4	1.93
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
5.7	1.99



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777444

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ6-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.63 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 777445

Page 1 of 1

LABORATORY TEST REPORT

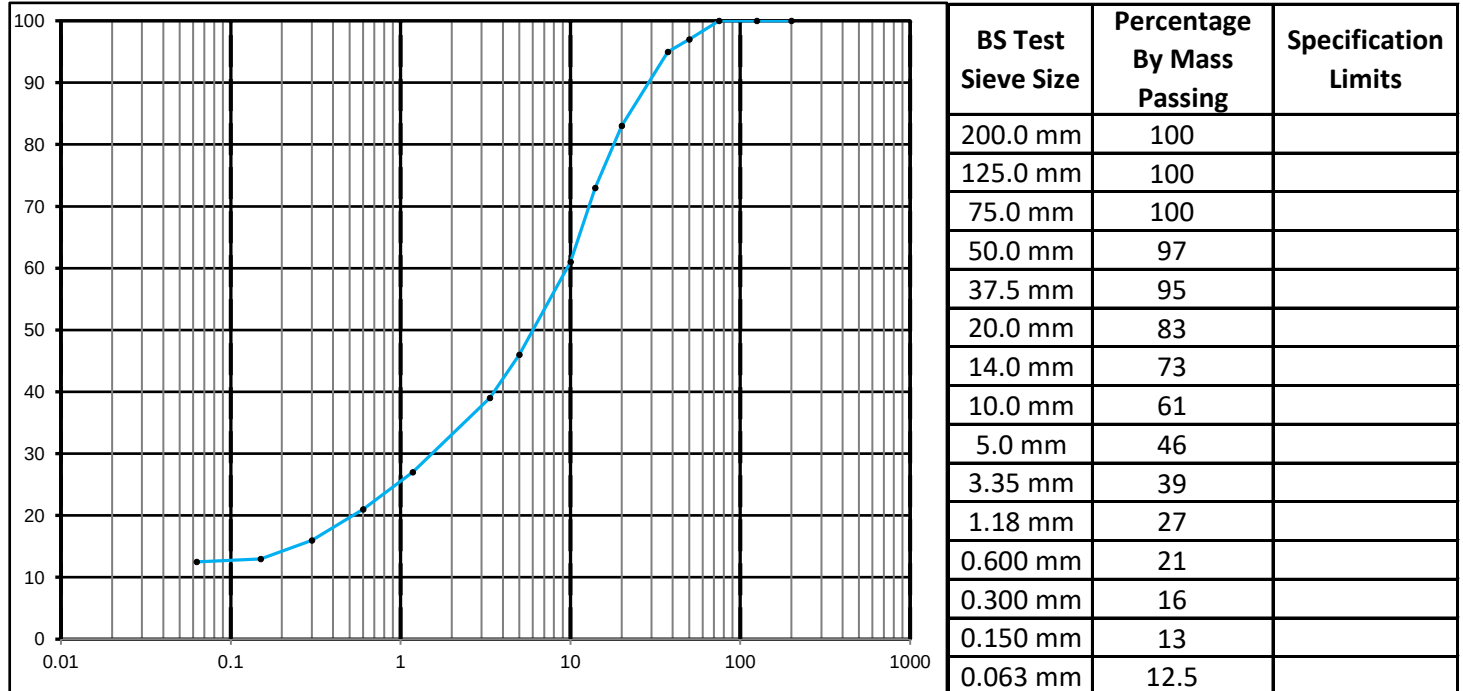
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ7-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 777446

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ7-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 17.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777447

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

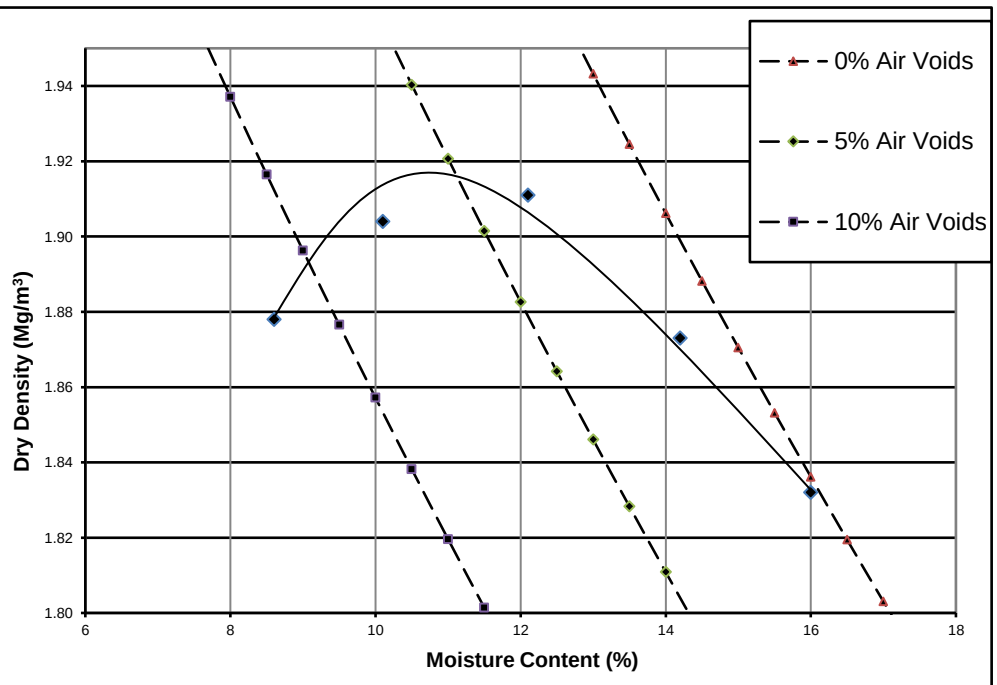
No
S92460
AJ7-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	90 %
Retained on 20mm Sieve:	74 %
Moisture Content (%)	Dry Density Mg/m ³
8.6	1.88
10.1	1.90
12.1	1.91
14.2	1.87
16.0	1.83
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	1.91



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777448

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ7-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.34 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.41 Mg/m ³
Apparent Particle density =	2.50 Mg/m ³
Water absorption (of dry mass) =	2.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777449

Page 1 of 1

LABORATORY TEST REPORT

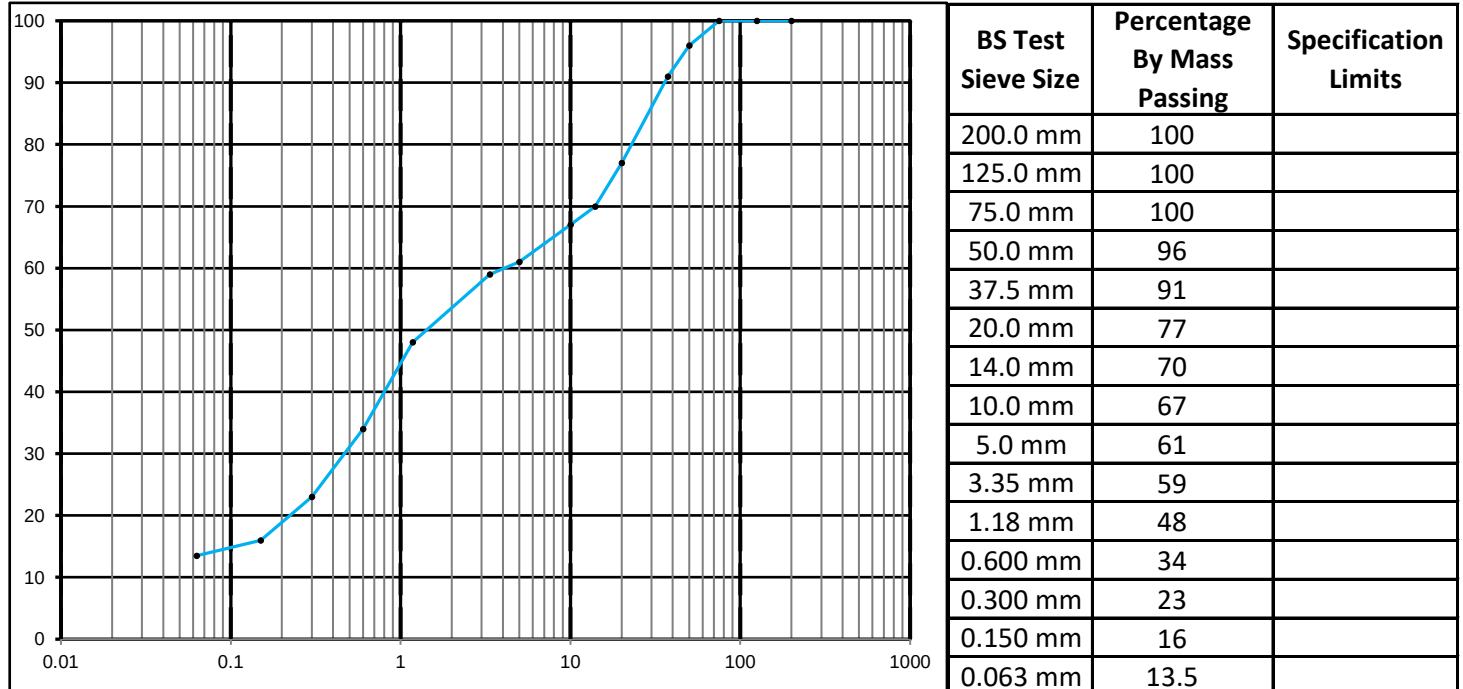
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AJ8-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777450

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ8-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 29.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777451

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

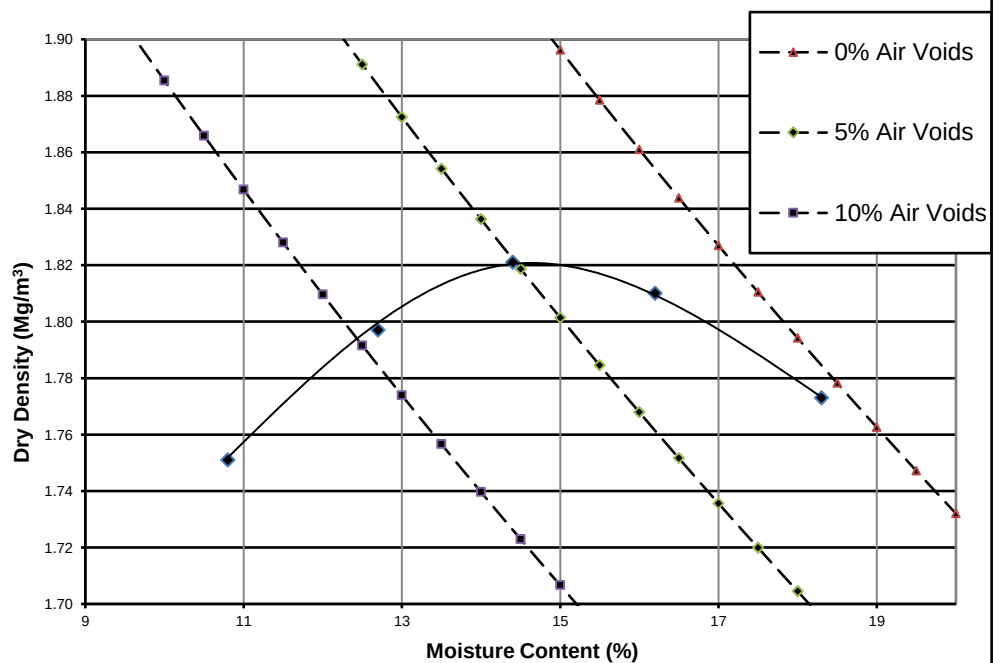
No
S92460
AJ8-1
Unknown
14/01/2021
09/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	13 %
Retained on 20mm Sieve:	27 %
Moisture Content (%)	Dry Density Mg/m ³
10.8	1.75
12.7	1.80
14.4	1.82
16.2	1.81
18.3	1.77
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.82



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777452

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ8-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.71 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.74 Mg/m ³
Apparent Particle density =	2.81 Mg/m ³
Water absorption (of dry mass) =	1.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777453

Page 1 of 1

LABORATORY TEST REPORT

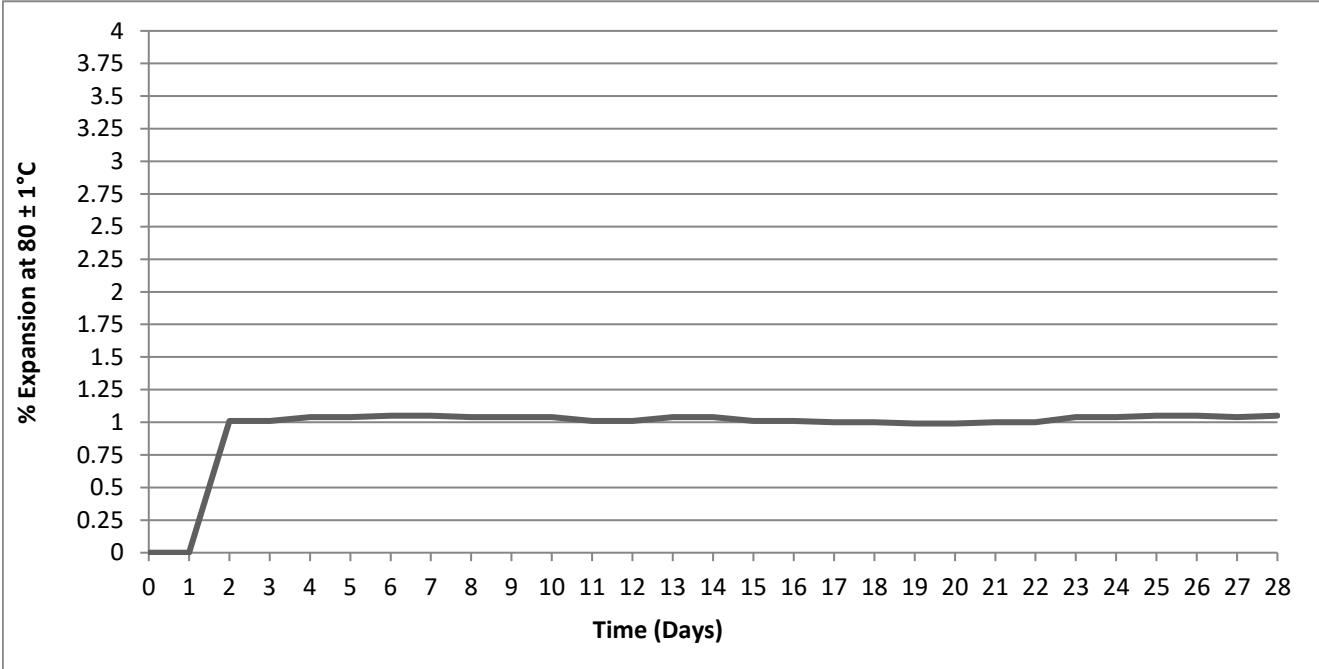
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AJ8-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.05



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 30	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777544

Page 1 of 1

LABORATORY TEST REPORT

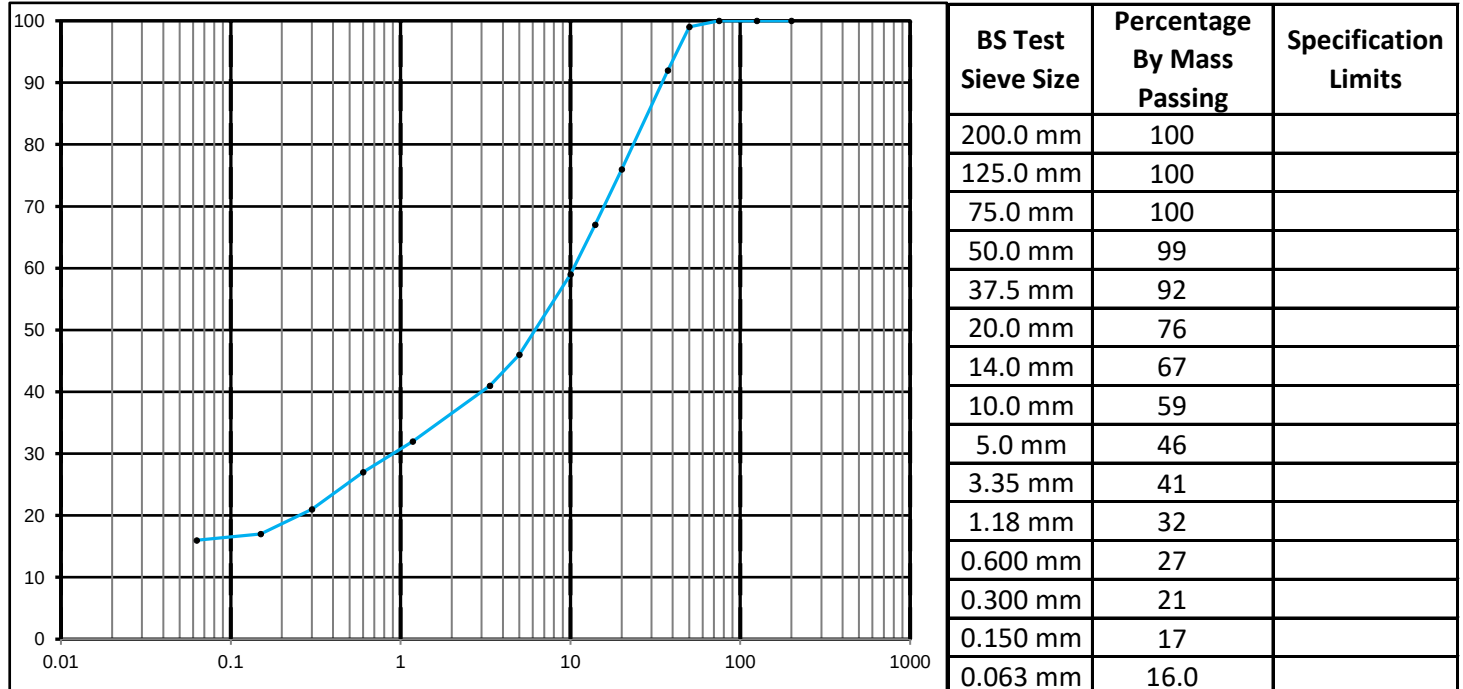
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AK1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777545

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AK1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777546

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

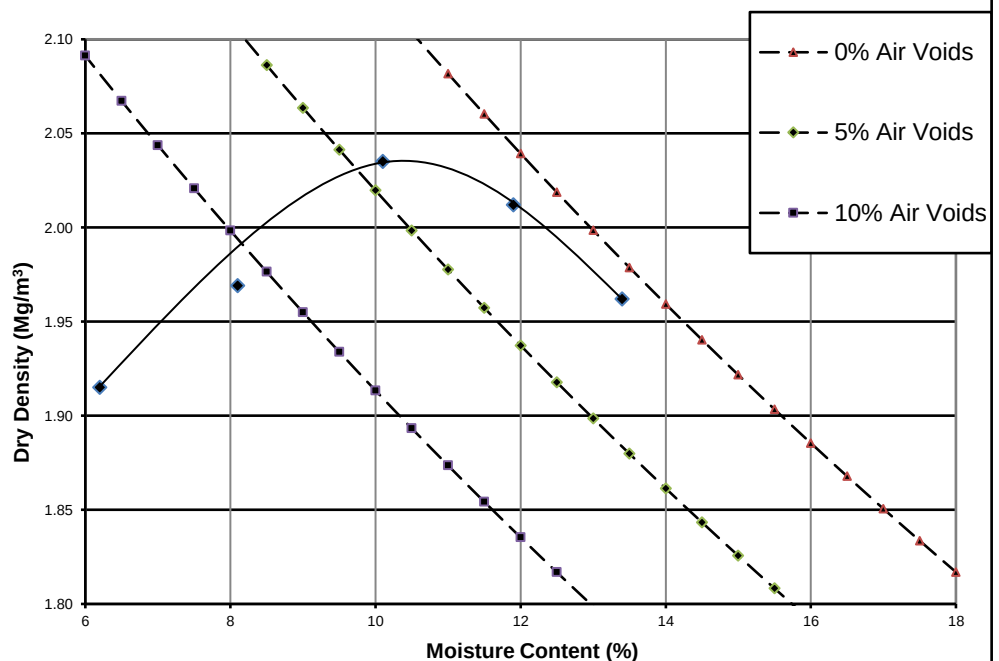
No
S92460
AK1-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	93 %
Retained on 20mm Sieve:	81 %
Moisture Content (%)	Dry Density Mg/m ³
6.2	1.92
8.1	1.97
10.1	2.04
11.9	2.01
13.4	1.96
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.03



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777547

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AK1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.42 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.50 Mg/m ³
Apparent Particle density =	2.62 Mg/m ³
Water absorption (of dry mass) =	3.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777548

Page 1 of 1

LABORATORY TEST REPORT

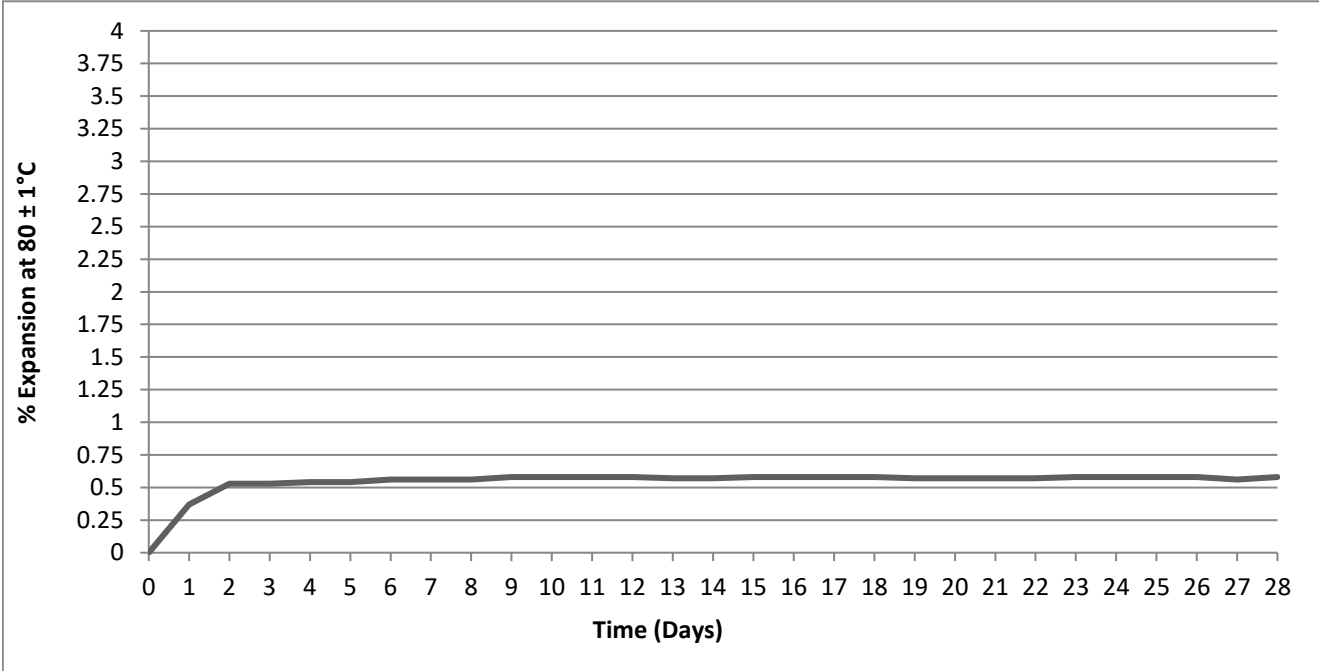
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AK1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.58



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 32

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777540

Page 1 of 1

LABORATORY TEST REPORT

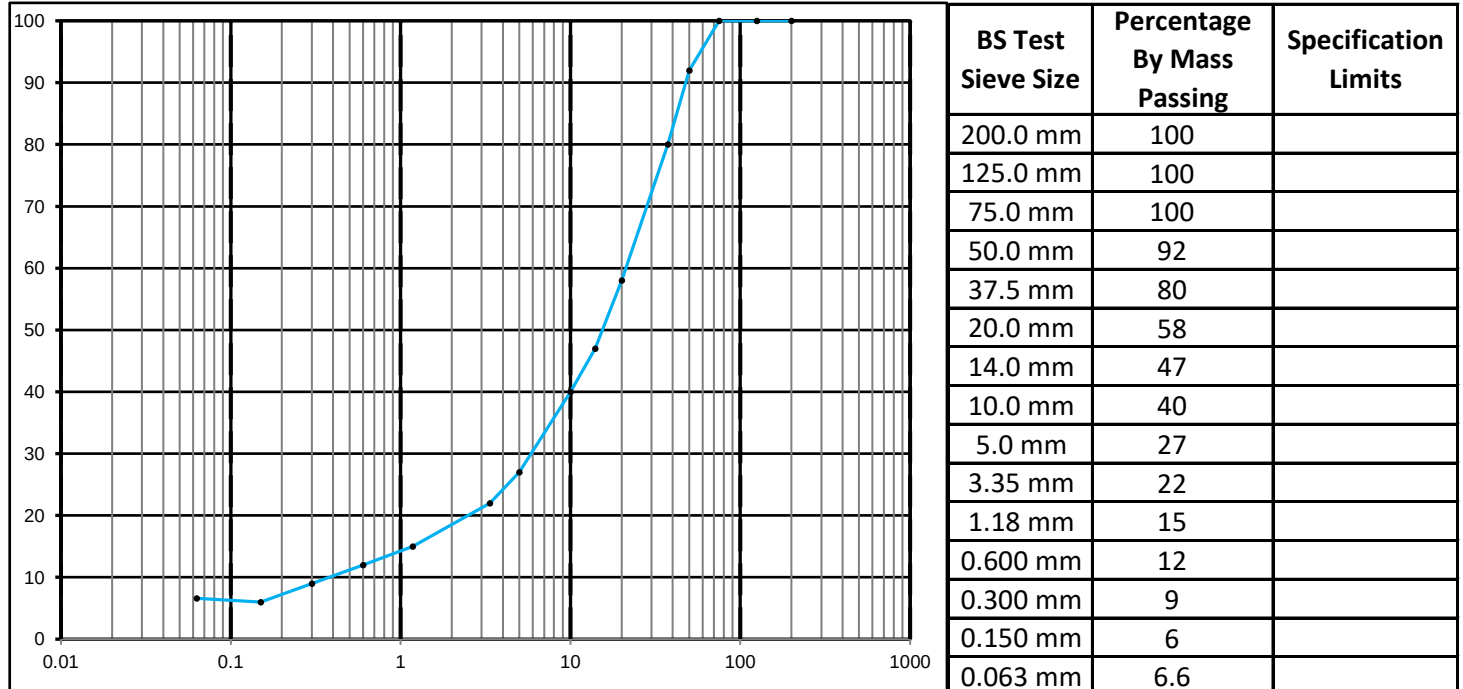
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AK2-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777541

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AK2-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777542

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

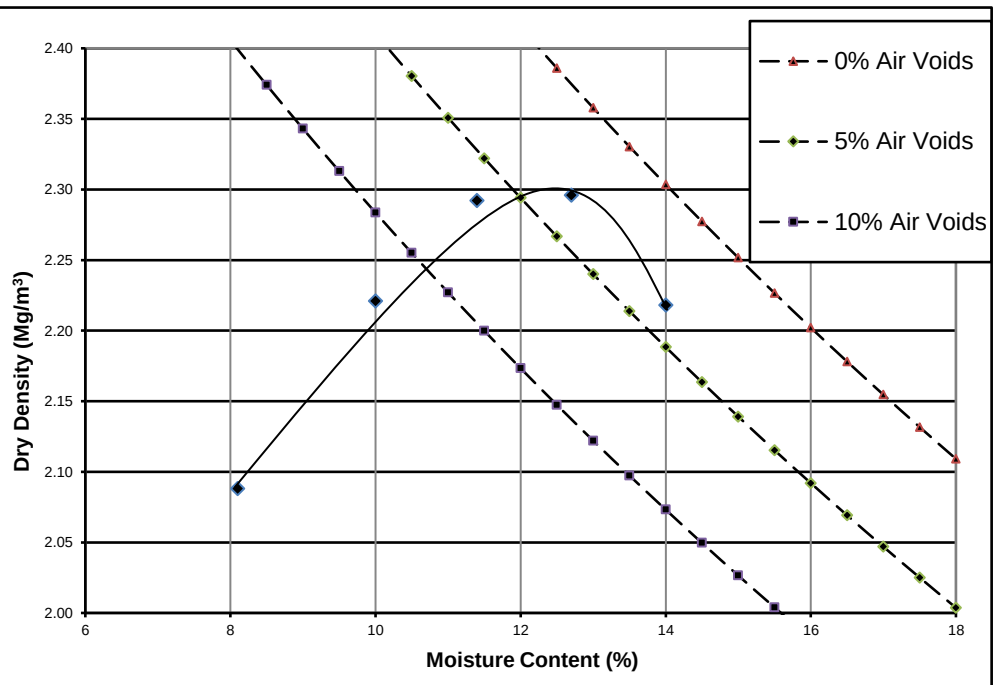
No
S92460
AK2-1
Unknown
14/01/2021
05/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 3.4Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	19.7 %
Moisture Content (%)	Dry Density Mg/m ³
8.1	2.09
10.0	2.22
11.4	2.29
12.7	2.30
14.0	2.22
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
12.0	2.30



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777543

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AK2-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.95 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.02 Mg/m ³
Apparent Particle density =	3.17 Mg/m ³
Water absorption (of dry mass) =	2.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775870

Page 1 of 1

LABORATORY TEST REPORT

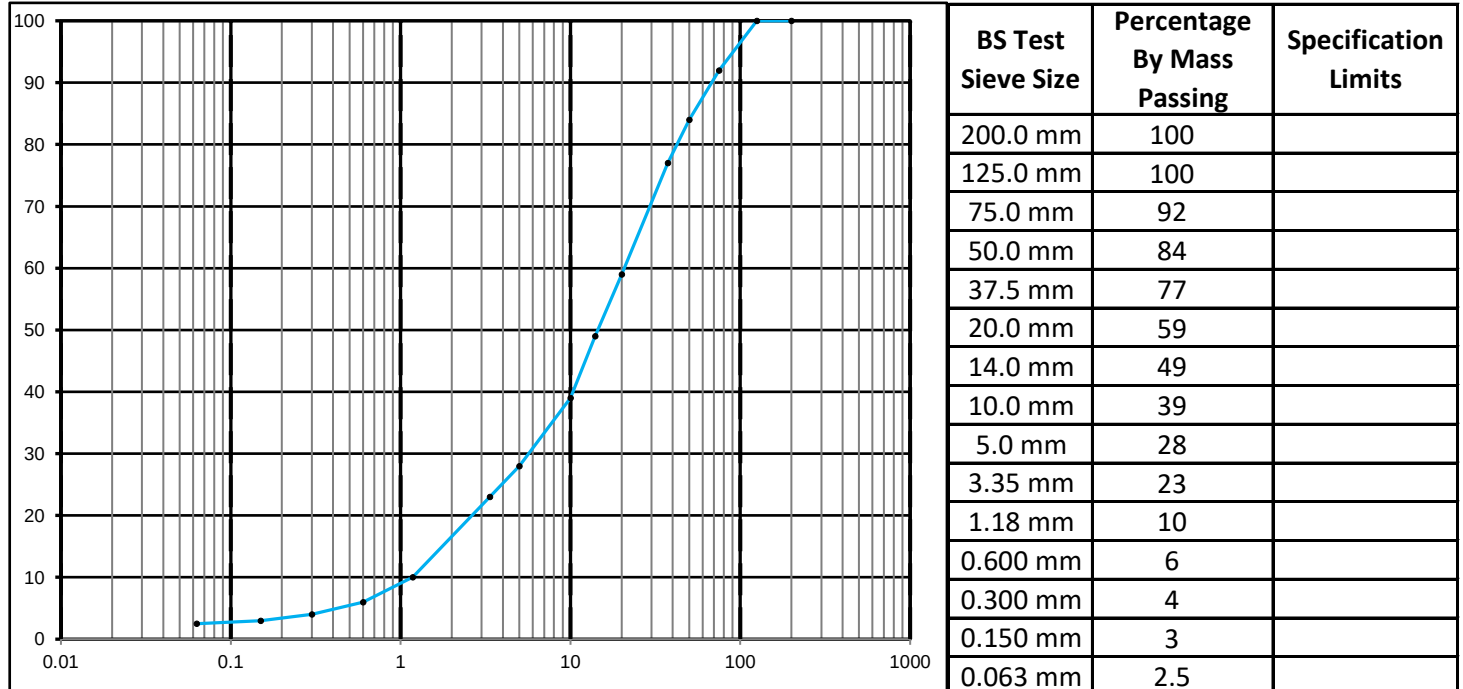
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Llanwern
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AK3-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775871

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AK3-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 February 2021
Test Report Ref: TR 775872

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

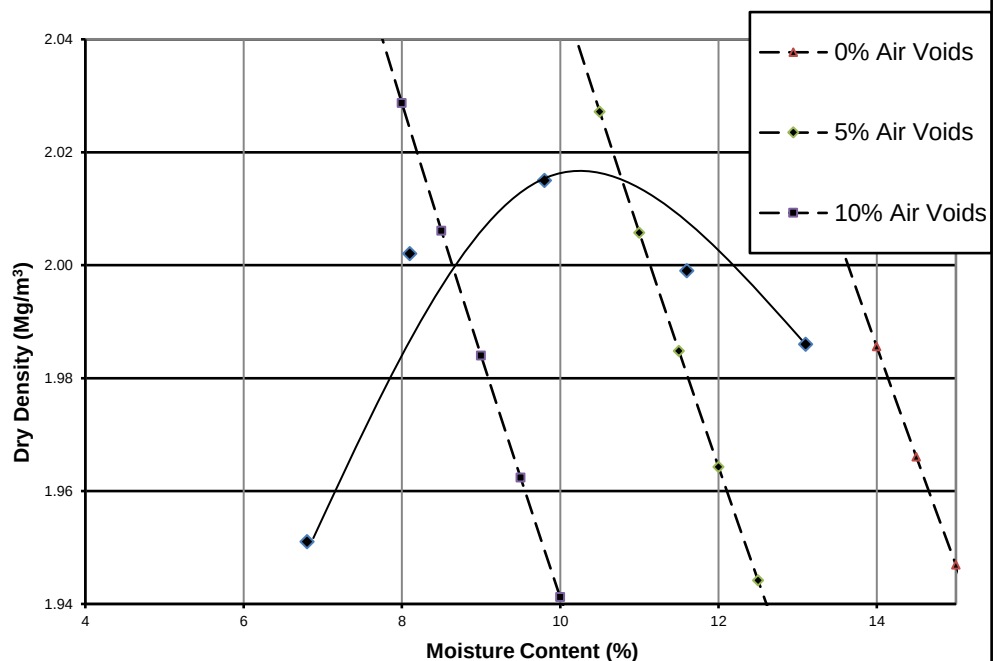
No
S92292
AK3-1
17/12/2020
05/01/2021
23/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Found using Gas Jar Method)

Retained on 37.5mm Sieve:	8 %
Retained on 20mm Sieve:	19 %
Moisture Content (%)	Dry Density Mg/m ³
6.8	1.95
8.1	2.00
9.8	2.02
11.6	2.00
13.1	1.99
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.5	2.01



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775873

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AK3-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.32 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.40 Mg/m ³
Apparent Particle density =	2.52 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968582

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

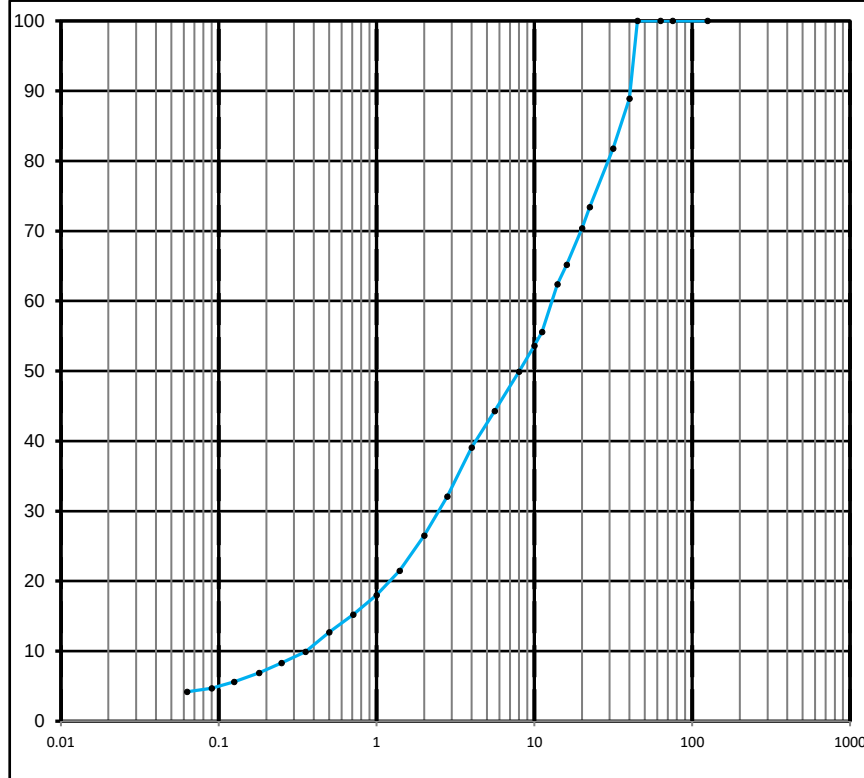
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AK4-1 @ 1.40M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	05/06/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AK4-1 @ 1.40M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	89	
31.5 mm	82	
22.4 mm	73	
20.0 mm	70	
16.0 mm	65	
14.0 mm	62	
11.2 mm	56	
10.0 mm	54	
8.0 mm	50	
5.6 mm	44	
4.0 mm	39	
2.8 mm	32	
2.0 mm	27	
1.4 mm	22	
1.0 mm	18	
0.710 mm	15	
0.500 mm	13	
0.355 mm	10	
0.250 mm	8	
0.180 mm	7	
0.125 mm	6	
0.090 mm	5	
0.063 mm	4.2	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 August 2023
Test Report Ref: TR 968583

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AK4-1 @ 1.40M
Date and Time of Sampling:	05/06/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	26/07/2023
Sampling Location:	AK4-1 @ 1.40M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 17 November 2023
Test Report Ref: TR 968584

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

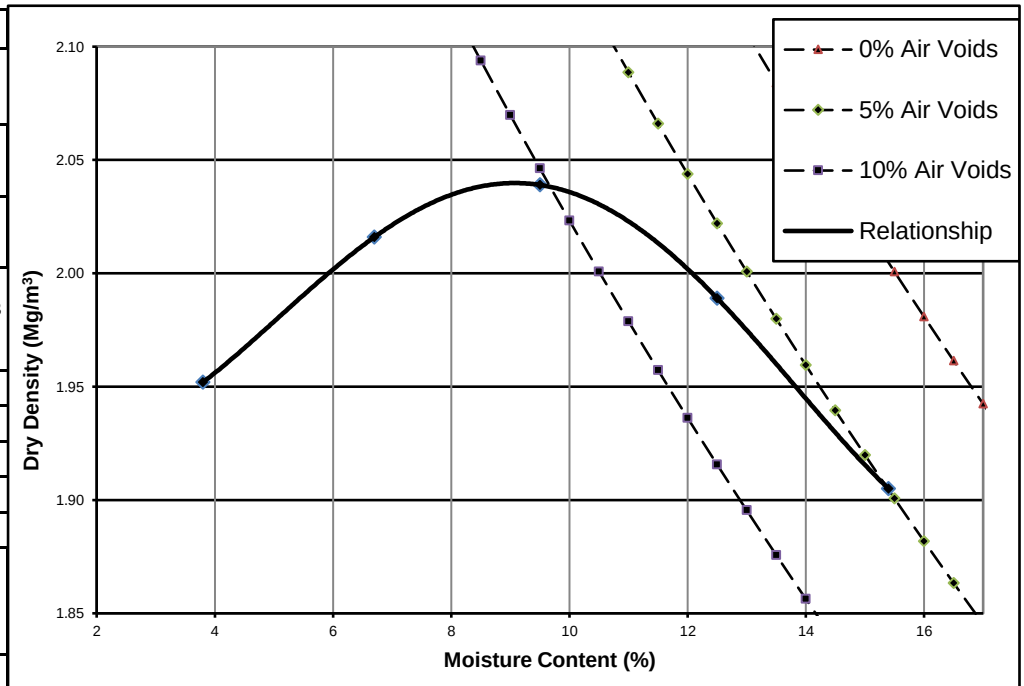
No
S112528
AK4-1 @ 1.40M
05/06/2023
25/07/2023
15/11/2023
AK4-1 @ 1.40M
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **KG**
Sample Preparation Procedure: **3.2.7.3**
Sample Preparation Method: **Separate batches**

RESULTS:

Particle Density: 2.9Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	10
Retained on 20mm Sieve:	22
Moisture Content (%)	Dry Density Mg/m ³
3.8	1.95
6.7	2.02
9.5	2.04
12.5	1.99
15.4	1.91
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
9.0	2.04



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Laboratory Operations Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 August 2023
Test Report Ref: TR 968585

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AK4-1 @ 1.40M
Date and Time of Sampling:	05/06/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	02/08/2023
Sampling Location:	AK4-1 @ 1.40M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.63 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.78 Mg/m ³
Apparent Particle density =	3.10 Mg/m ³
Water absorption (of dry mass) =	5.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Chantelle Kopec-Williams Job Coordinator
---------------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 15 September 2023
Test Report Ref: TR 968586

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

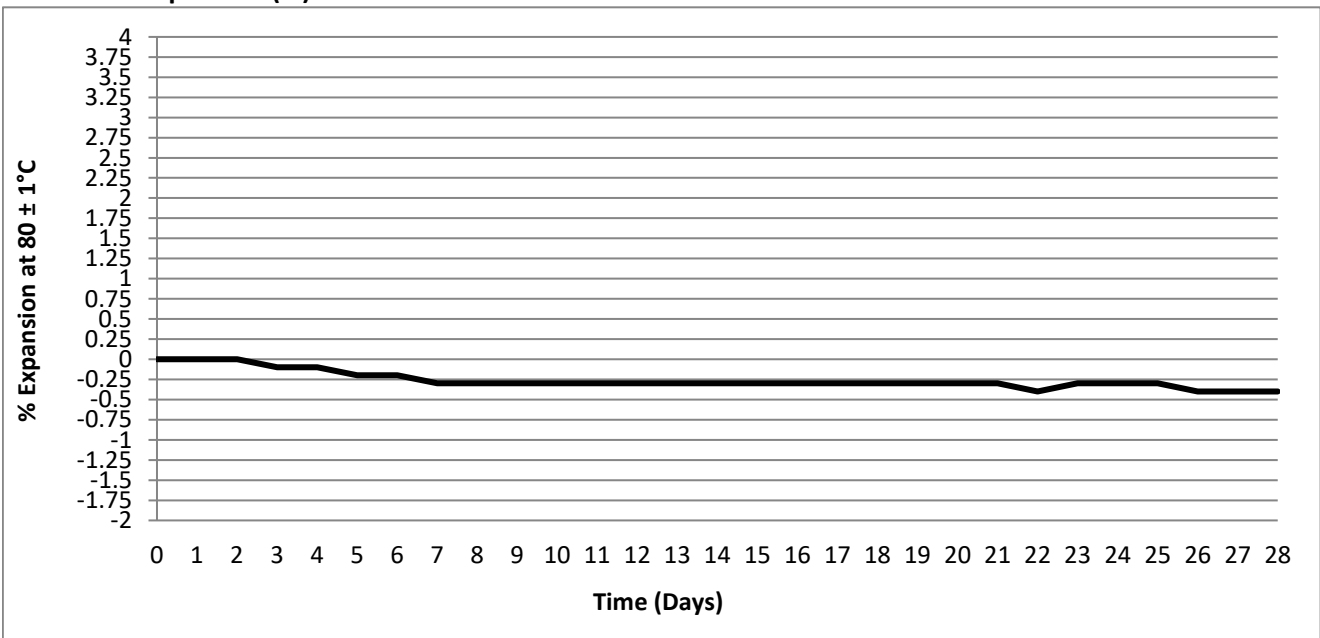
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AK4-1 @ 1.40M
Date and Time of Sampling:	05/06/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	15/09/2023
Sampling Location:	AK4-1 @ 1.40M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.4
Maximum Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 31	Report checked and approved by: Mathew Sayer Laboratory Operations Manager
---	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775673

Page 1 of 1

LABORATORY TEST REPORT

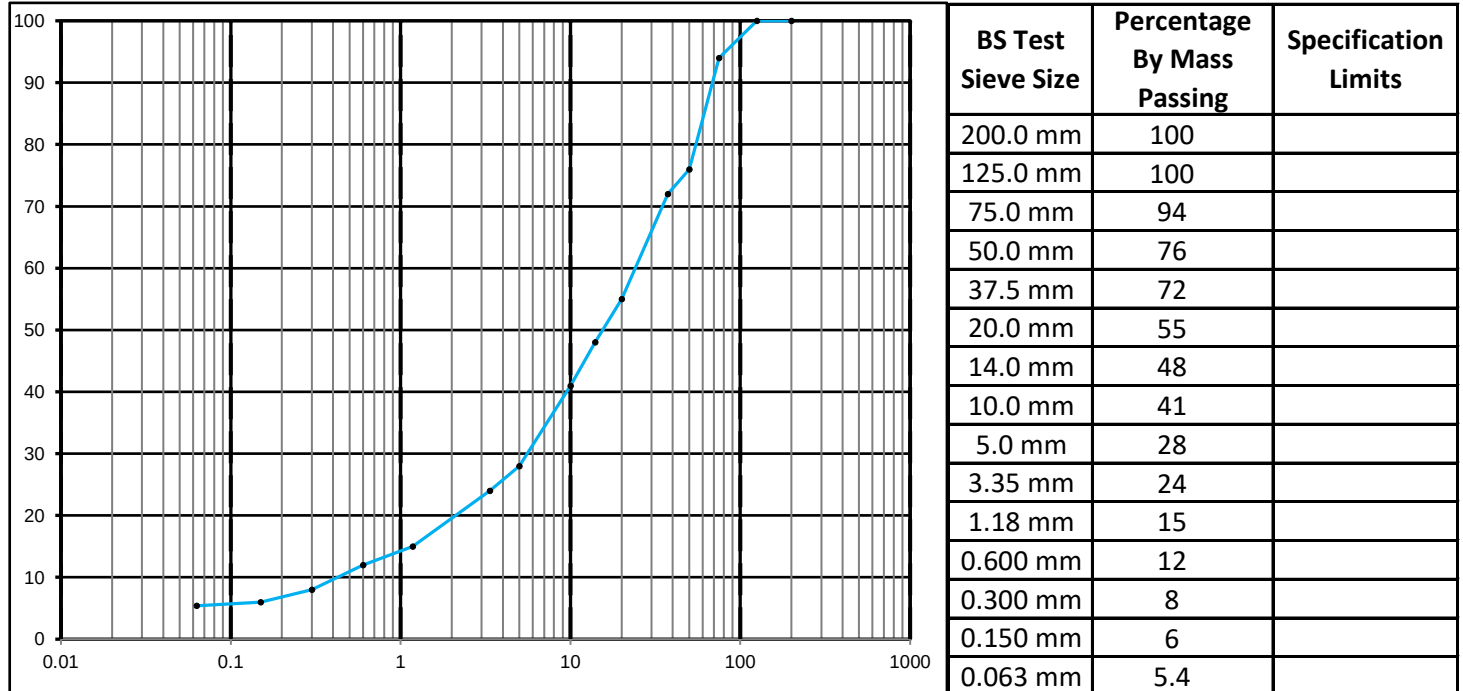
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AK5-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	21/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775674

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AK5-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	21/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775675

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S92292
AK5-1
Unknown
05/01/2021
27/01/2021
Unknown
Soil

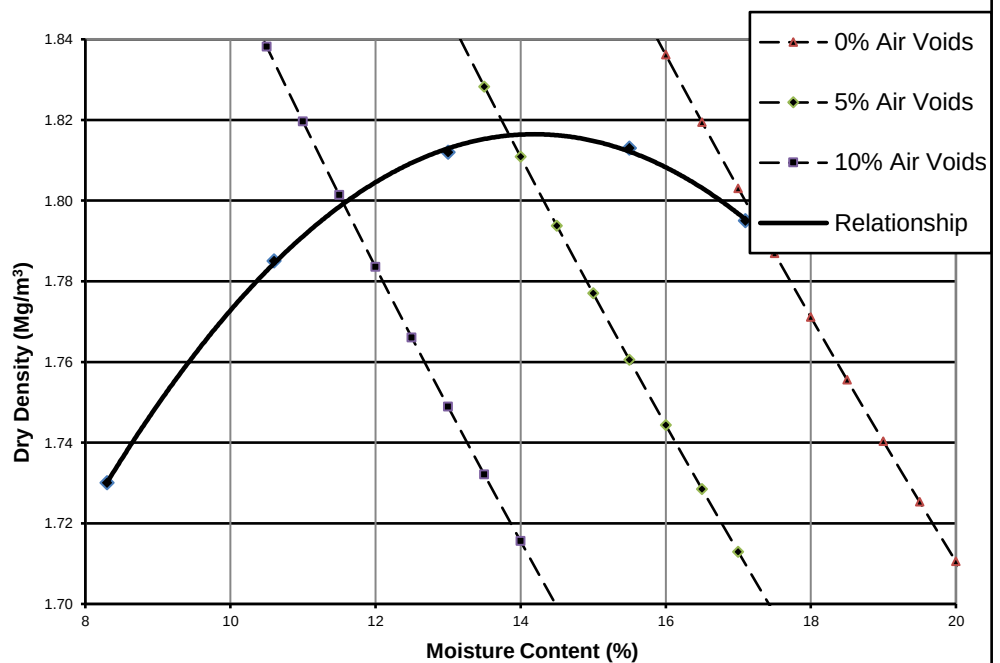
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

Zone X
Single

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	14 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
8.3	1.73
10.6	1.79
13.0	1.81
15.5	1.81
17.1	1.80
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
14.0	1.82



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775676

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AK5-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.38 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.50 Mg/m ³
Apparent Particle density =	2.72 Mg/m ³
Water absorption (of dry mass) =	5.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775677

Page 1 of 1

LABORATORY TEST REPORT

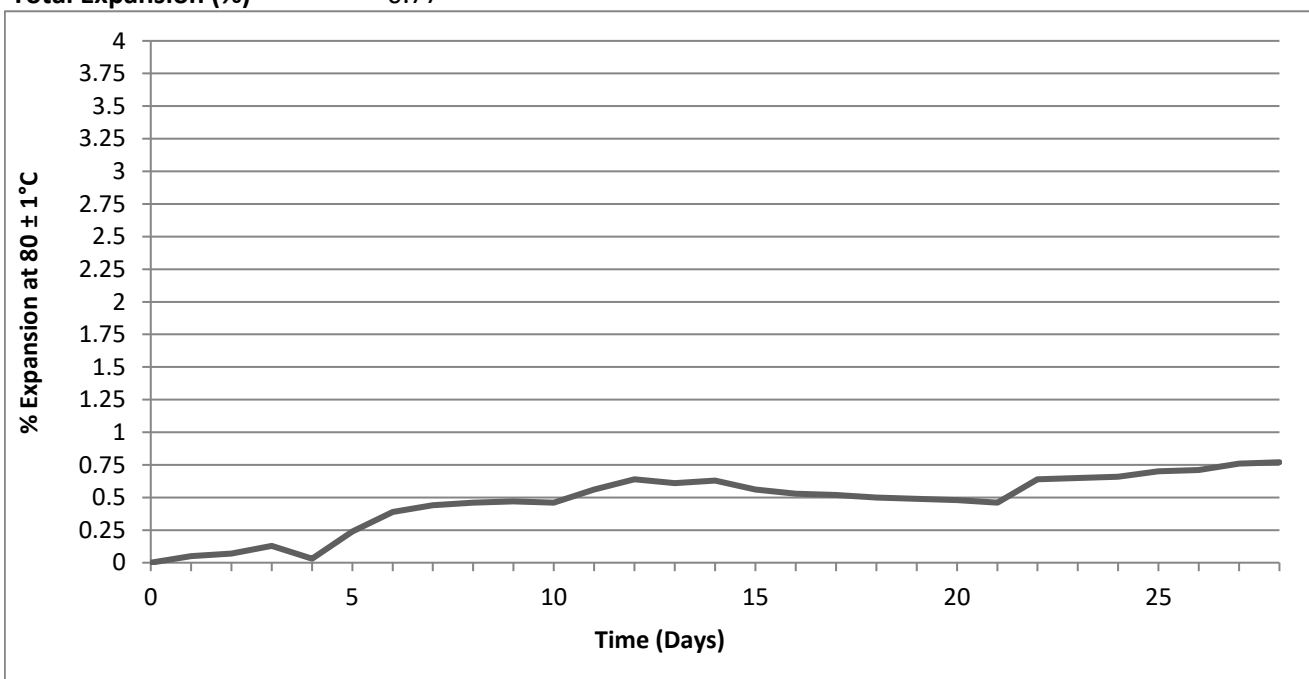
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AK5-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.77



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 40

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784290

Page 1 of 1

LABORATORY TEST REPORT

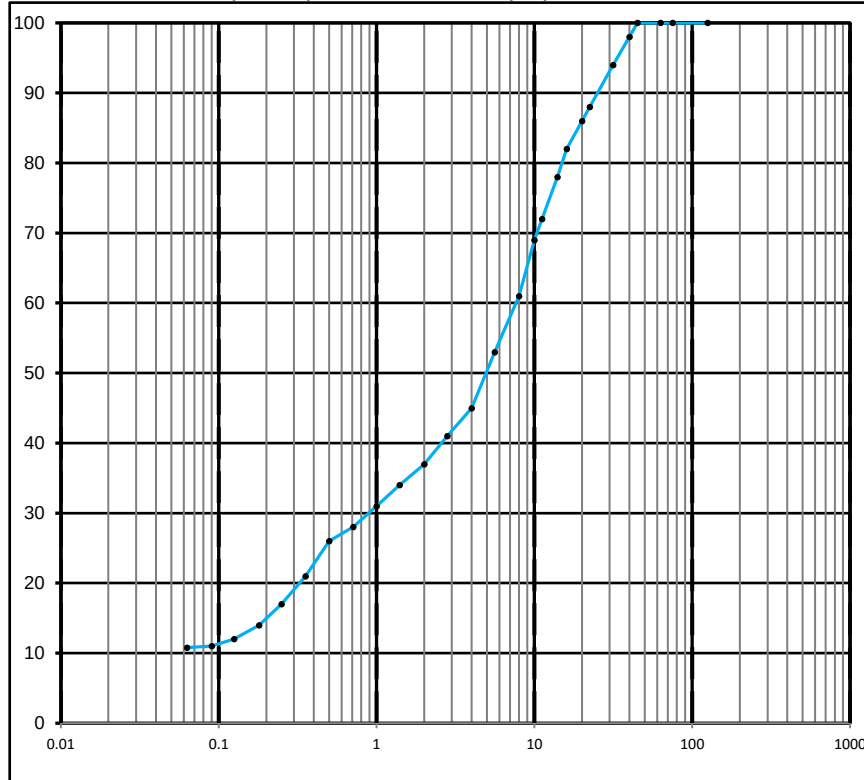
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AL05-1 - 0.3m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	98	
31.5 mm	94	
22.4 mm	88	
20.0 mm	86	
16.0 mm	82	
14.0 mm	78	
11.2 mm	72	
10.0 mm	69	
8.0 mm	61	
5.6 mm	53	
4.0 mm	45	
2.8 mm	41	
2.0 mm	37	
1.4 mm	34	
1.0 mm	31	
0.710 mm	28	
0.500 mm	26	
0.355 mm	21	
0.250 mm	17	
0.180 mm	14	
0.125 mm	12	
0.090 mm	11	
0.063 mm	10.8	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784291

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL05-1 - 0.3m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 April 2021
Test Report Ref: TR 784292

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

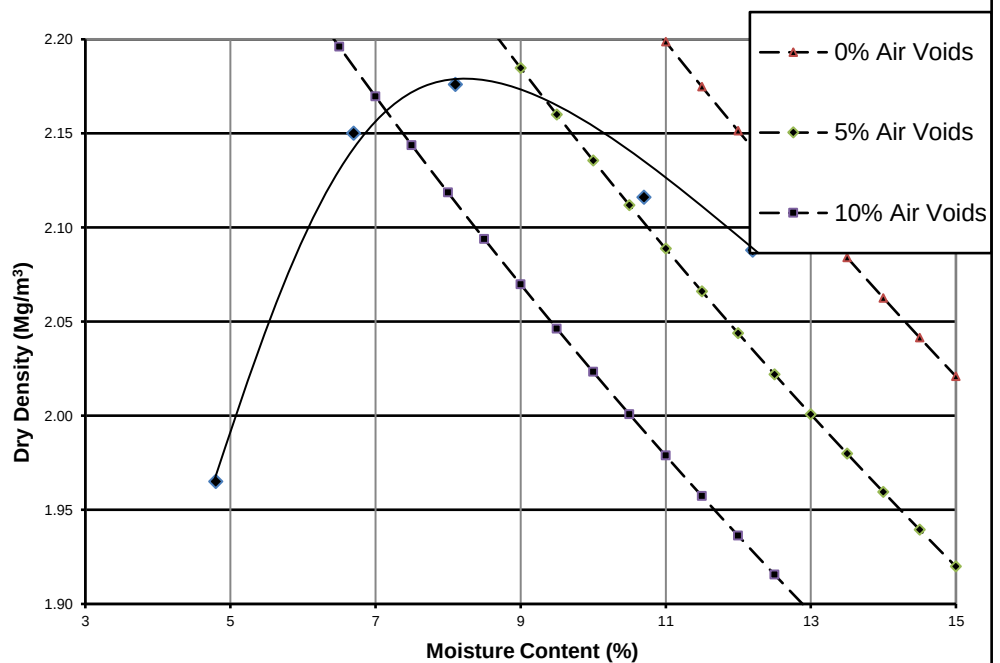
No
S93086
AL05-1 - 0.3m
Unknown
12/02/2021
22/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.9Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	2 %
Retained on 20mm Sieve:	15 %
Moisture Content (%)	Dry Density Mg/m ³
4.8	1.97
6.7	2.15
8.1	2.18
10.7	2.12
12.2	2.09
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.0	2.18



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784293

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL05-1 - 0.3m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.65 Mg/m ³
Apparent Particle density =	2.81 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784294

Page 1 of 1

LABORATORY TEST REPORT

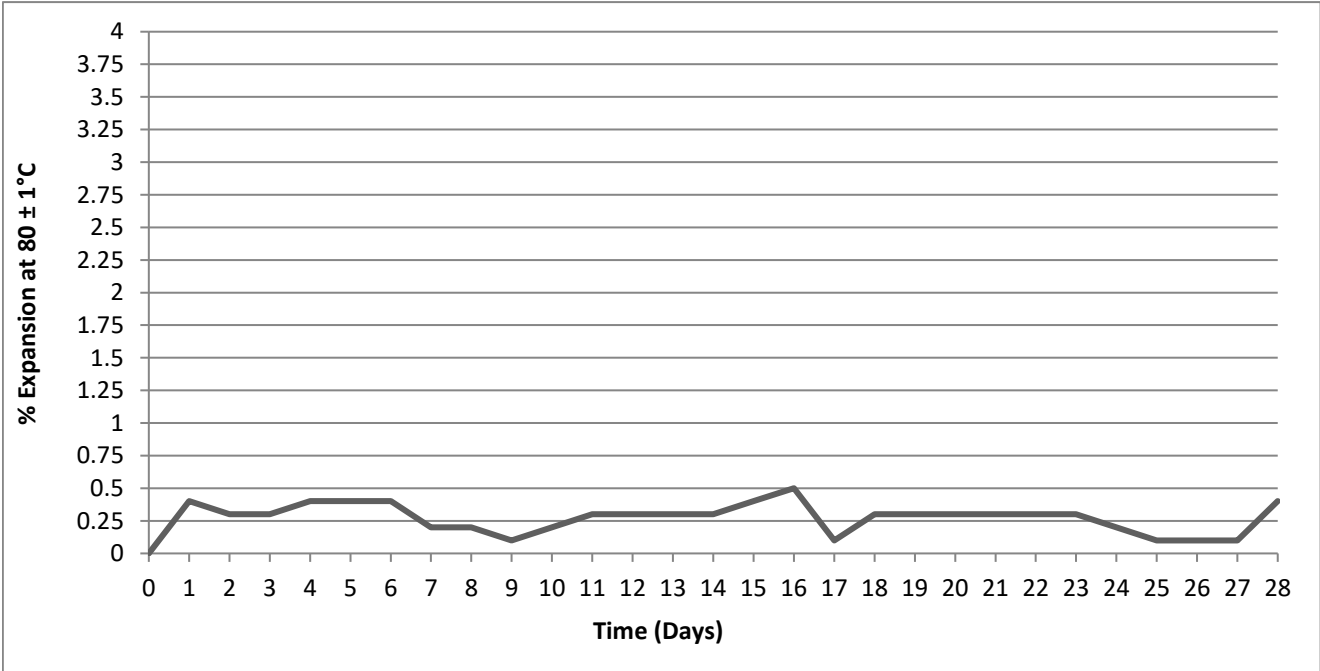
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL05-1 - 0.3m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.4



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 15

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777535

Page 1 of 1

LABORATORY TEST REPORT

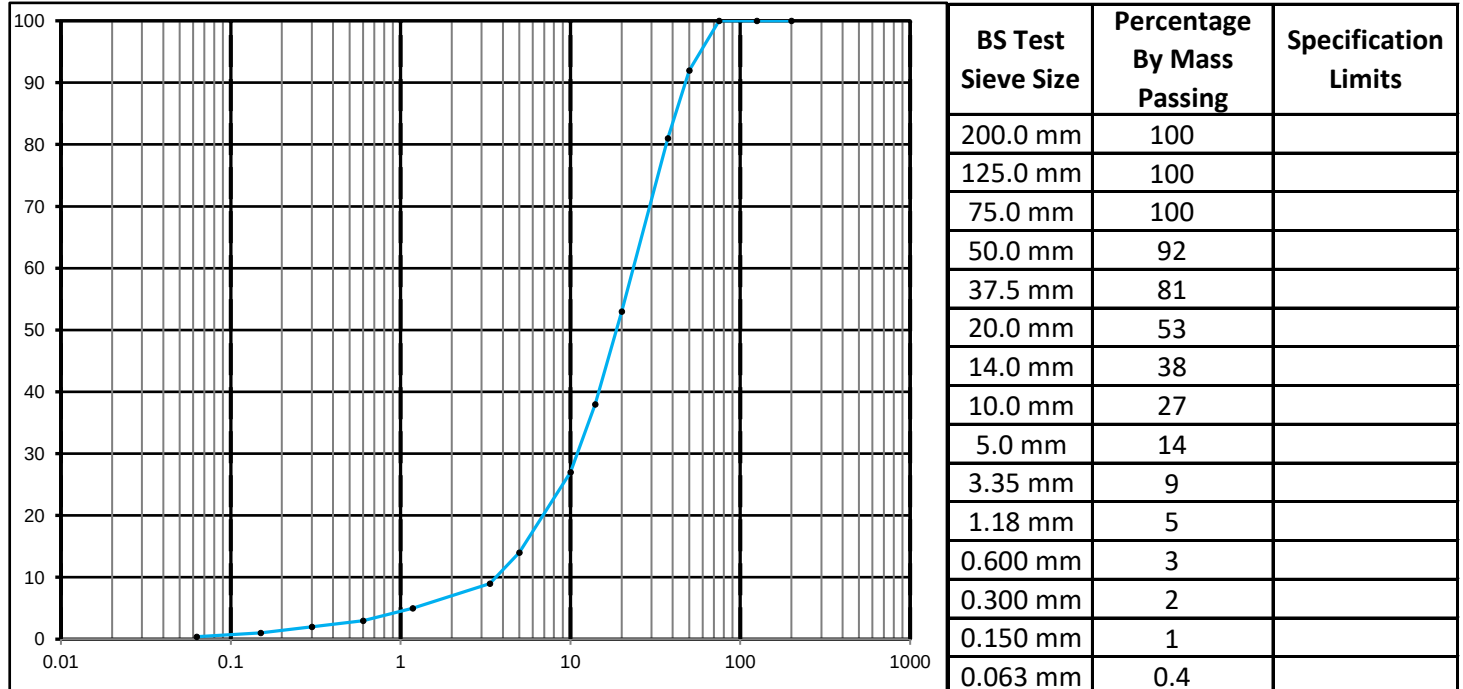
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AL1-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777536

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 6.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 February 2021
Test Report Ref: TR 777537

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

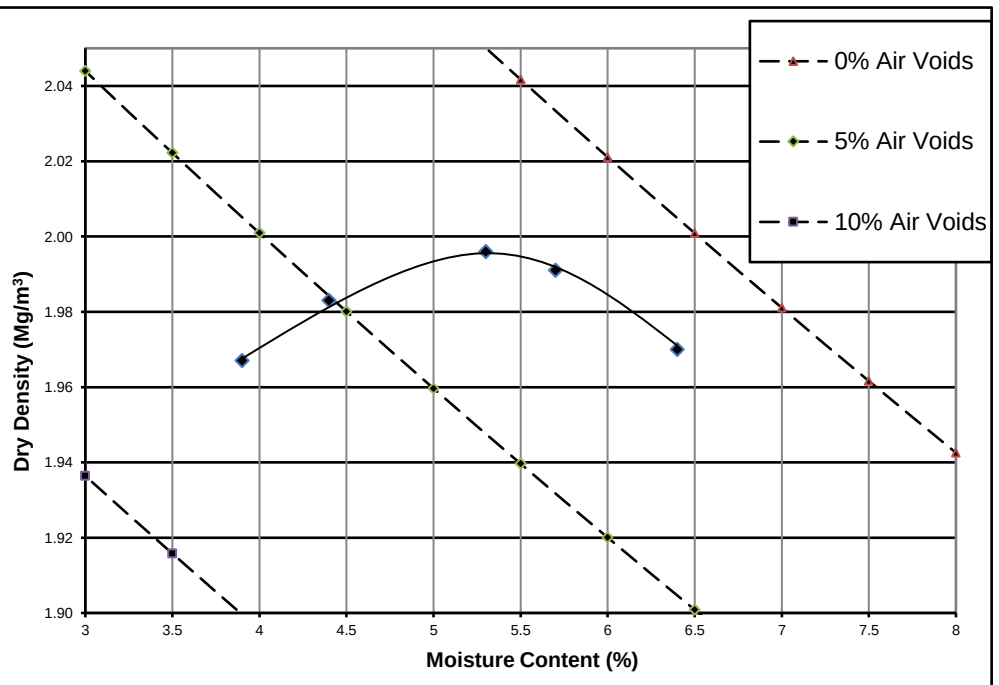
No
S92460
AL1-1
Unknown
14/01/2021
05/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	20 %
Retained on 20mm Sieve:	53 %
Moisture Content (%)	Dry Density Mg/m ³
3.9	1.97
4.4	1.98
5.3	2.00
5.7	1.99
6.4	1.97
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
5.2	2.00



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777538

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	3.02 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.10 Mg/m ³
Apparent Particle density =	3.28 Mg/m ³
Water absorption (of dry mass) =	2.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777539

Page 1 of 1

LABORATORY TEST REPORT

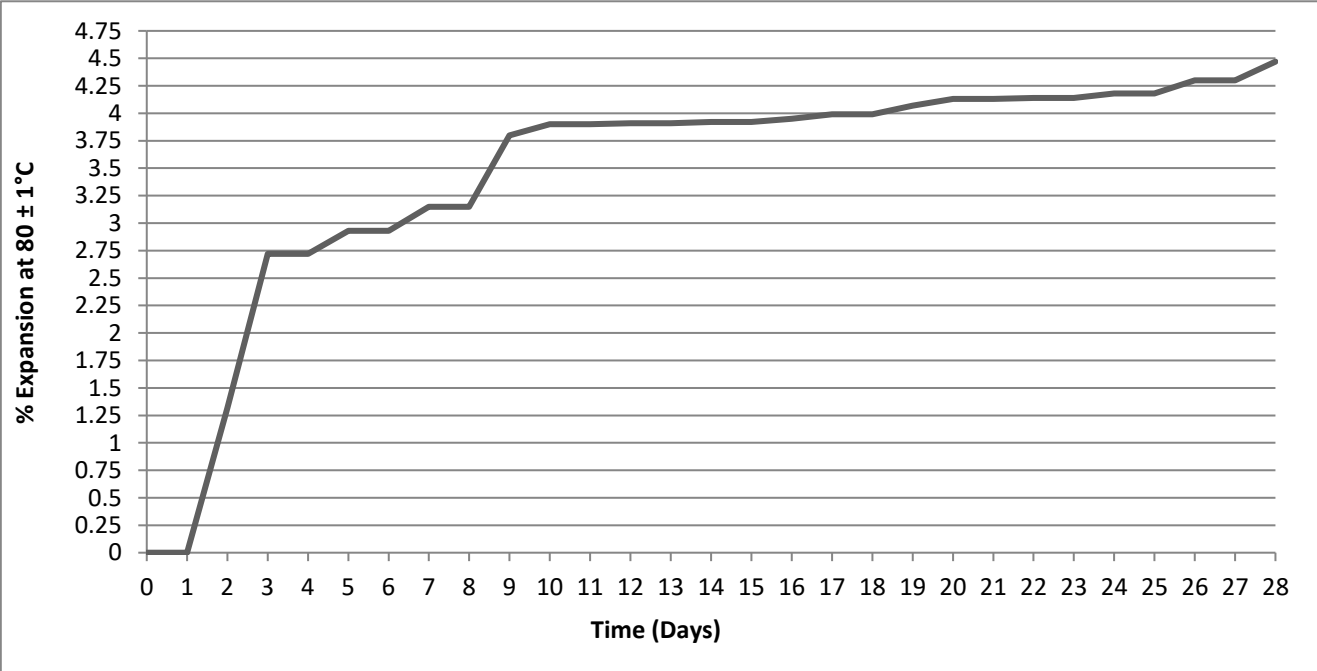
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL1-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 4.47



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 42

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784180

Page 1 of 1

LABORATORY TEST REPORT

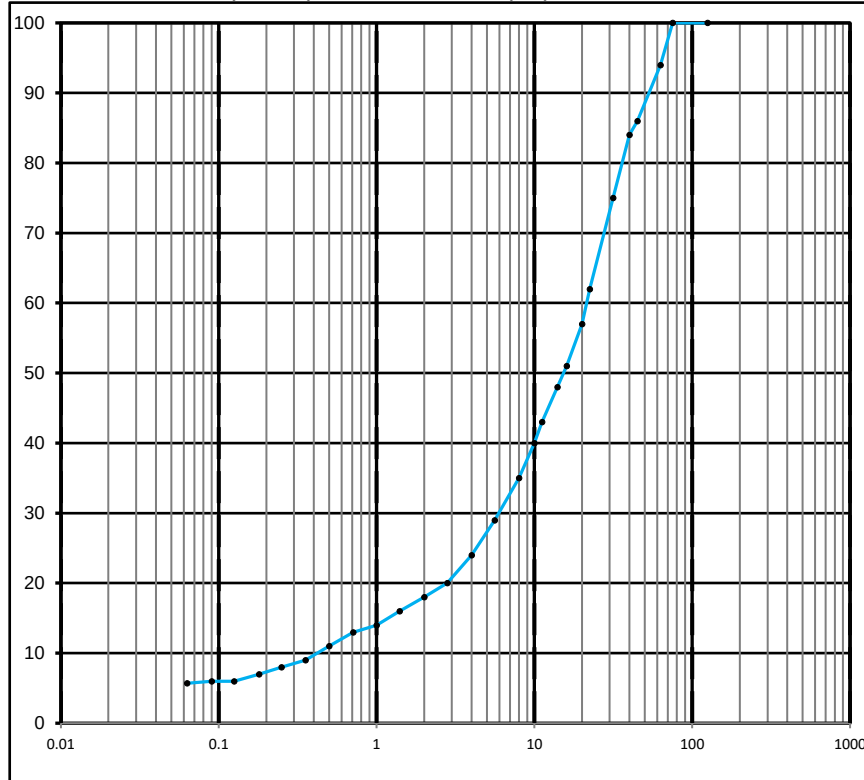
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AL10-1 - 1.8m	Sampled By:	Client
Date and Time of Sampling:	22/01/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	94	
45.0 mm	86	
40.0 mm	84	
31.5 mm	75	
22.4 mm	62	
20.0 mm	57	
16.0 mm	51	
14.0 mm	48	
11.2 mm	43	
10.0 mm	40	
8.0 mm	35	
5.6 mm	29	
4.0 mm	24	
2.8 mm	20	
2.0 mm	18	
1.4 mm	16	
1.0 mm	14	
0.710 mm	13	
0.500 mm	11	
0.355 mm	9	
0.250 mm	8	
0.180 mm	7	
0.125 mm	6	
0.090 mm	6	
0.063 mm	5.7	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784181

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL10-1 - 1.8m
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 9.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 May 2021
Test Report Ref: TR 784182

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

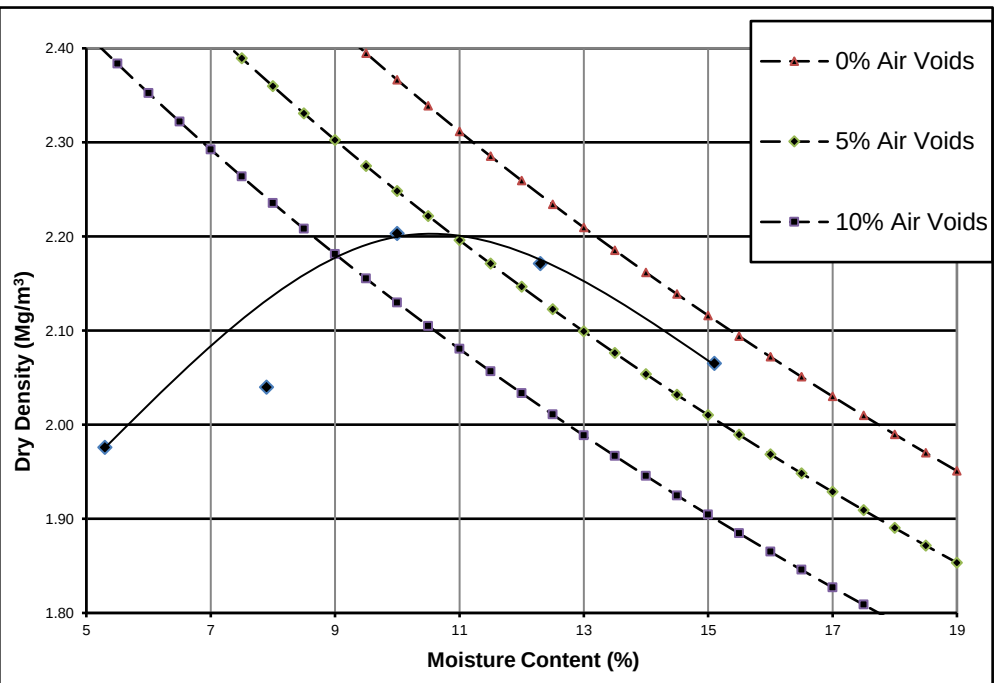
No
S93086
AL10-1 - 1.8m
22/01/2021
12/02/2021
22/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.1Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	28 %
Retained on 20mm Sieve:	46 %
Moisture Content (%)	Dry Density Mg/m ³
5.3	1.98
7.9	2.04
10.0	2.20
12.3	2.17
15.1	2.07
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.22



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784183

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL10-1 - 1.8m
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.47 Mg/m ³
Apparent Particle density =	2.58 Mg/m ³
Water absorption (of dry mass) =	3.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777594

Page 1 of 1

LABORATORY TEST REPORT

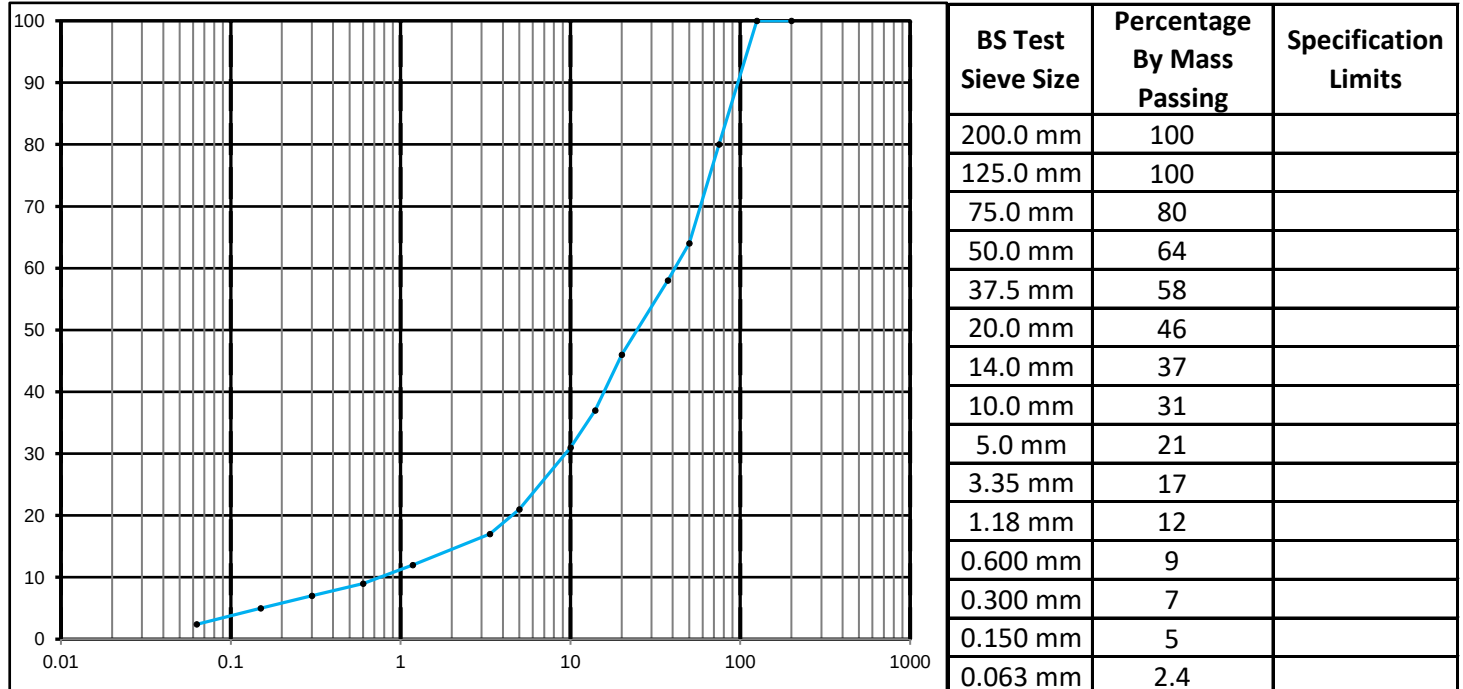
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AL10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777595

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 February 2021
Test Report Ref: TR 777596

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

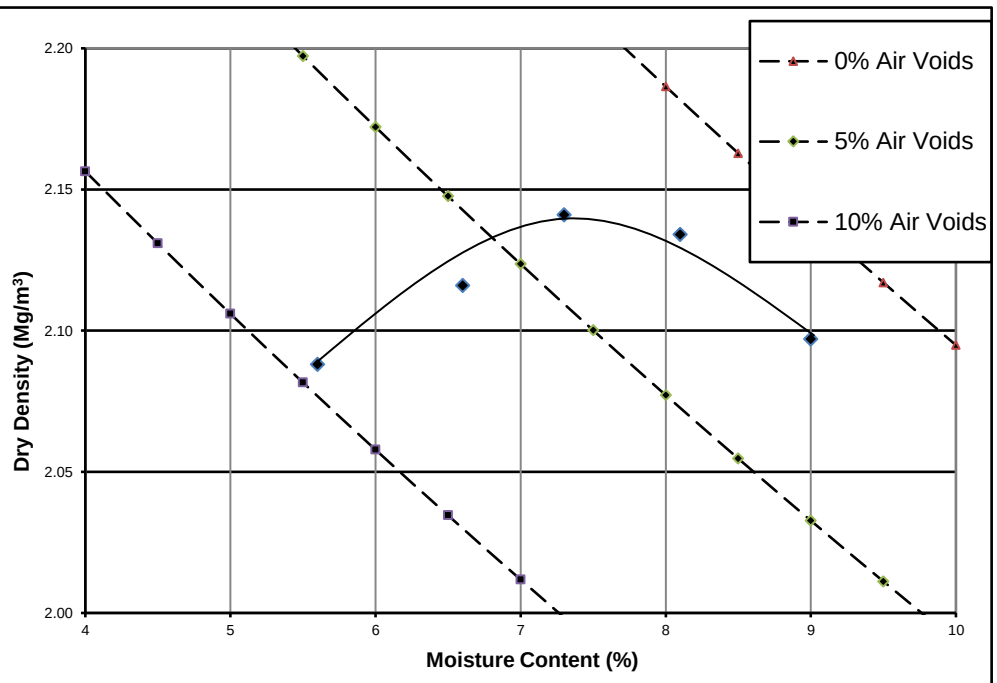
No
S92460
AL10-1
Unknown
14/01/2021
01/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	30 %
Retained on 20mm Sieve:	55 %
Moisture Content (%)	Dry Density Mg/m ³
5.6	2.09
6.6	2.12
7.3	2.14
8.1	2.13
9.0	2.10
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
7.6	2.14



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777597

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.63 Mg/m ³
Water absorption (of dry mass) =	3.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777598

Page 1 of 1

LABORATORY TEST REPORT

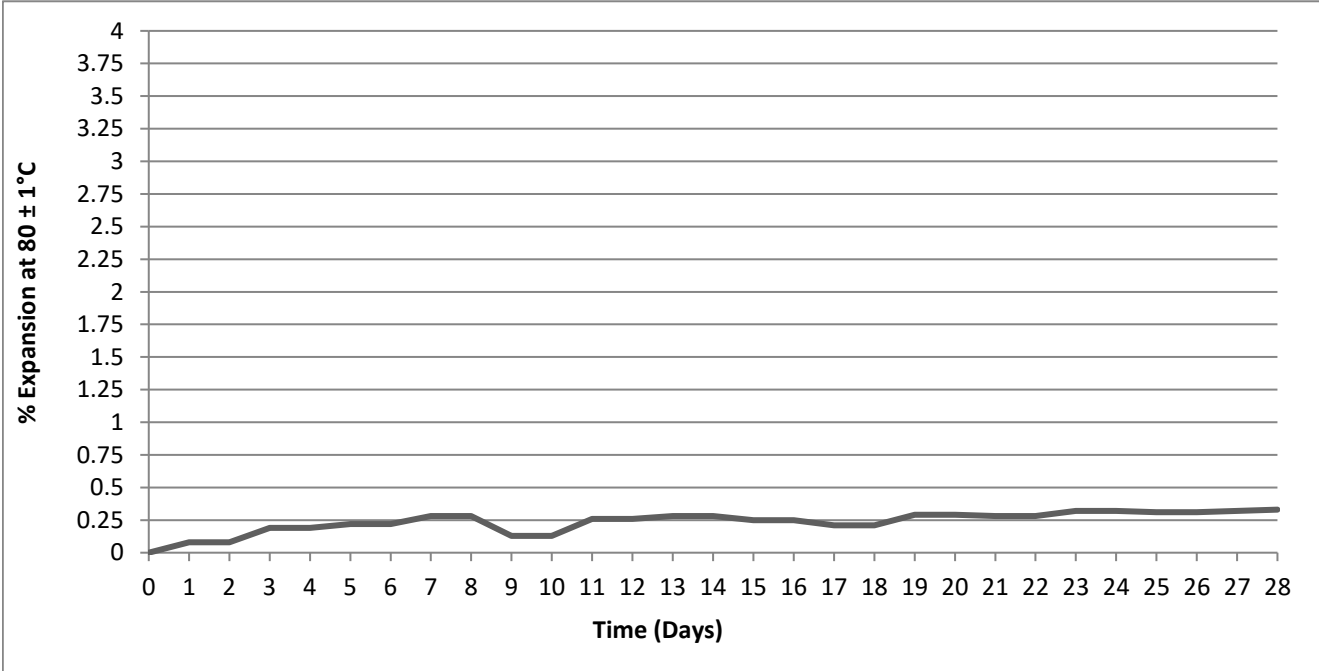
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.33



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 47

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782749

Page 1 of 1

LABORATORY TEST REPORT

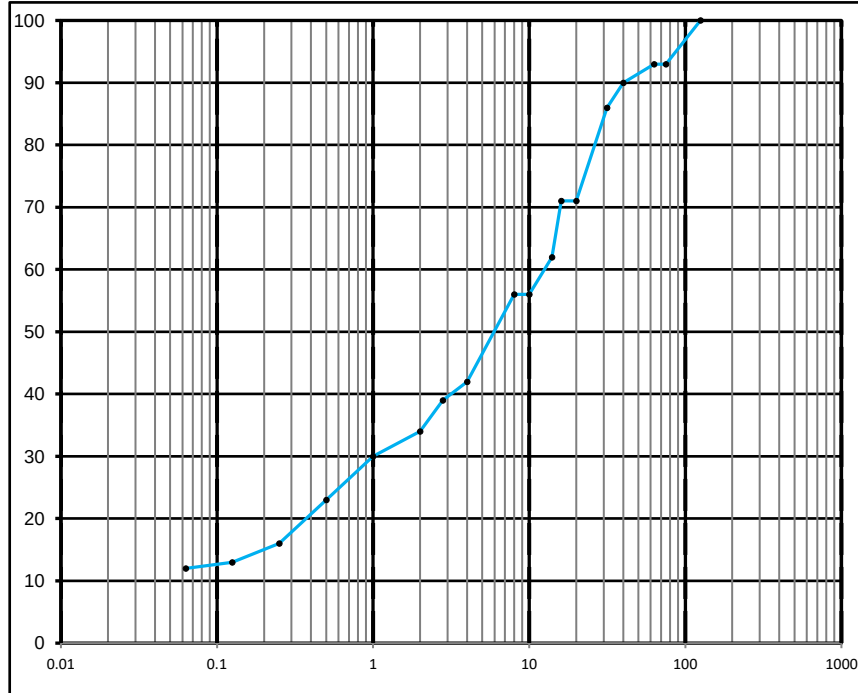
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AL11-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	93	
63.0 mm	93	
40.0 mm	90	
31.5 mm	86	
20.0 mm	71	
16.0 mm	71	
14.0 mm	62	
10.0 mm	56	
8.0 mm	56	
4.0 mm	42	
2.8 mm	39	
2.0 mm	34	
1.0 mm	30	
0.500 mm	23	
0.250 mm	16	
0.125 mm	13	
0.063 mm	12.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782750

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 April 2021
Test Report Ref: TR 782751

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

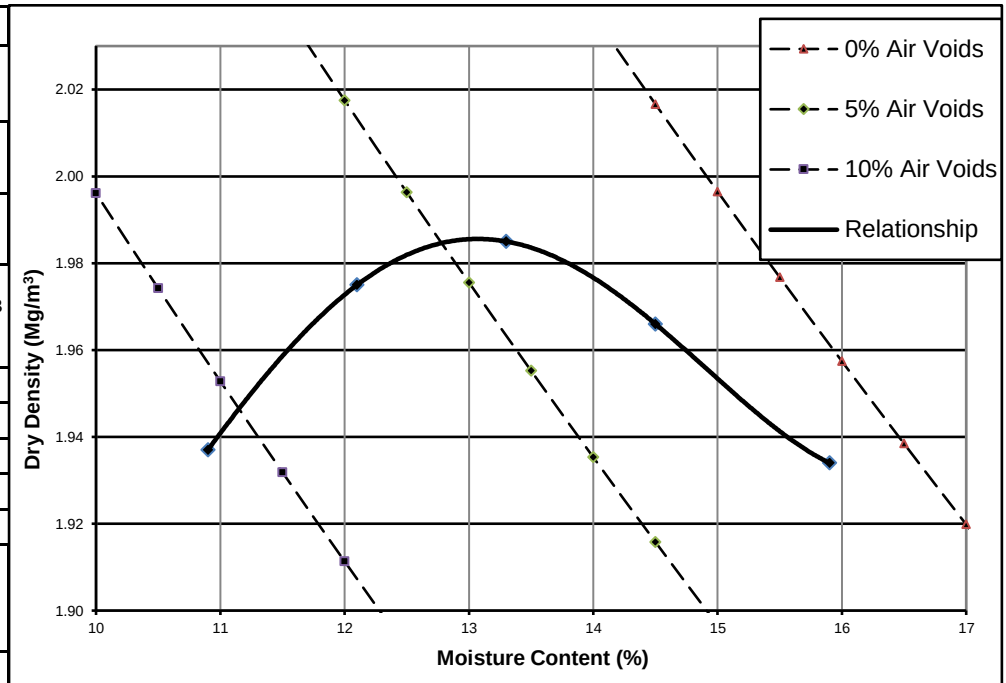
No **S92900**
AL11-1
Unknown
04/02/2021
31/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.85Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	27 %
Moisture Content (%)	Dry Density Mg/m ³
10.9	1.94
12.1	1.98
13.3	1.99
14.5	1.97
15.9	1.93
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.98



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782752

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.38 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.48 Mg/m ³
Apparent Particle density =	2.64 Mg/m ³
Water absorption (of dry mass) =	4.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782744

Page 1 of 1

LABORATORY TEST REPORT

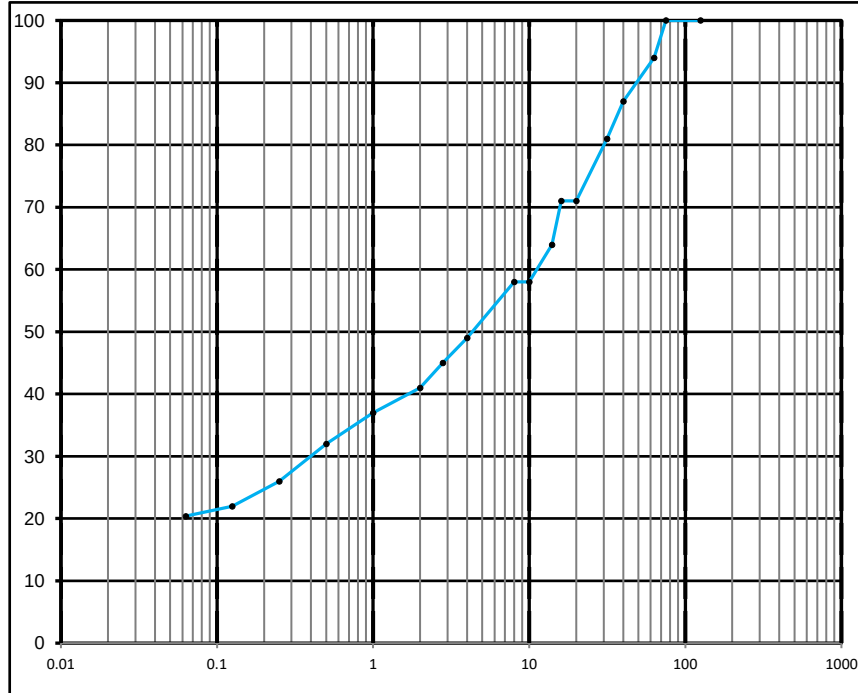
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AL12-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	94	
40.0 mm	87	
31.5 mm	81	
20.0 mm	71	
16.0 mm	71	
14.0 mm	64	
10.0 mm	58	
8.0 mm	58	
4.0 mm	49	
2.8 mm	45	
2.0 mm	41	
1.0 mm	37	
0.500 mm	32	
0.250 mm	26	
0.125 mm	22	
0.063 mm	20.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782745

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 March 2021
Test Report Ref: TR 782746

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

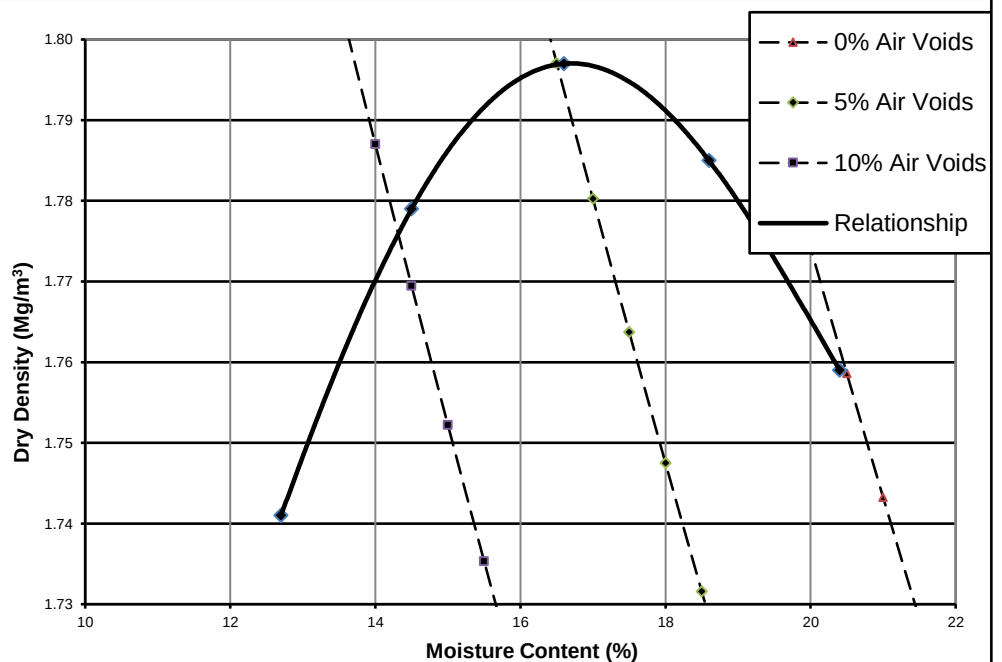
No
S92900
AL12-1
Unknown
04/02/2021
16/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	16 %
Retained on 20mm Sieve:	31 %
Moisture Content (%)	Dry Density Mg/m ³
12.7	1.74
14.5	1.78
16.6	1.80
18.6	1.79
20.4	1.76
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
17.0	1.80



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782747

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.59 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.69 Mg/m ³
Apparent Particle density =	2.87 Mg/m ³
Water absorption (of dry mass) =	3.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 June 2021
Test Report Ref: TR 782748

Page 1 of 1

LABORATORY TEST REPORT

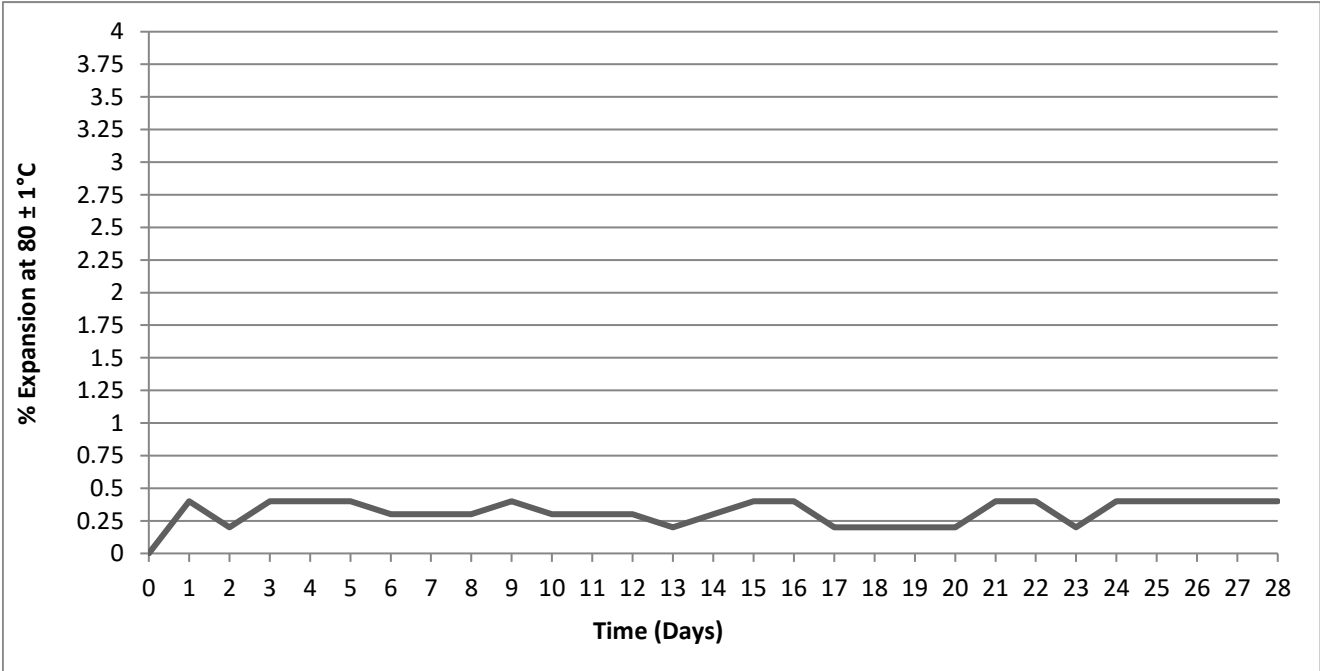
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	13/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.4



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 30

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777590

Page 1 of 1

LABORATORY TEST REPORT

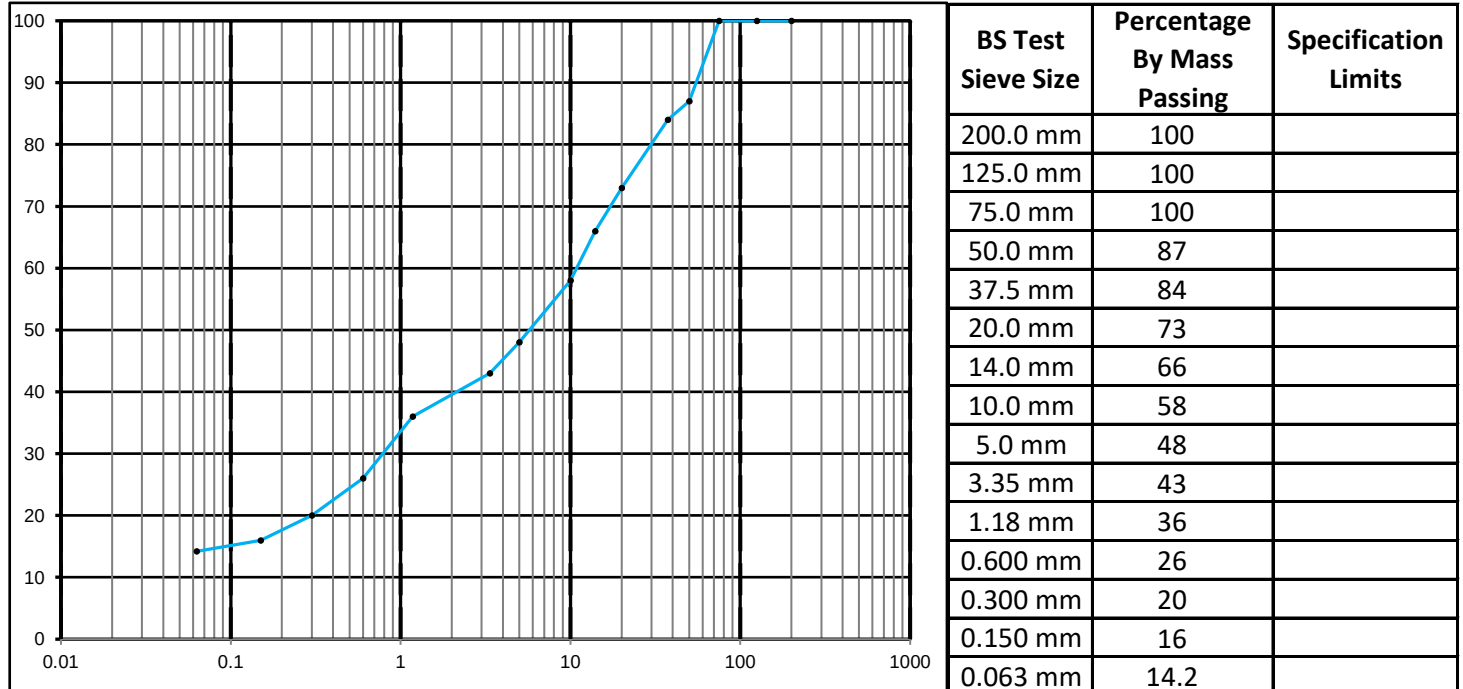
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AL13-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777591

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777592

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

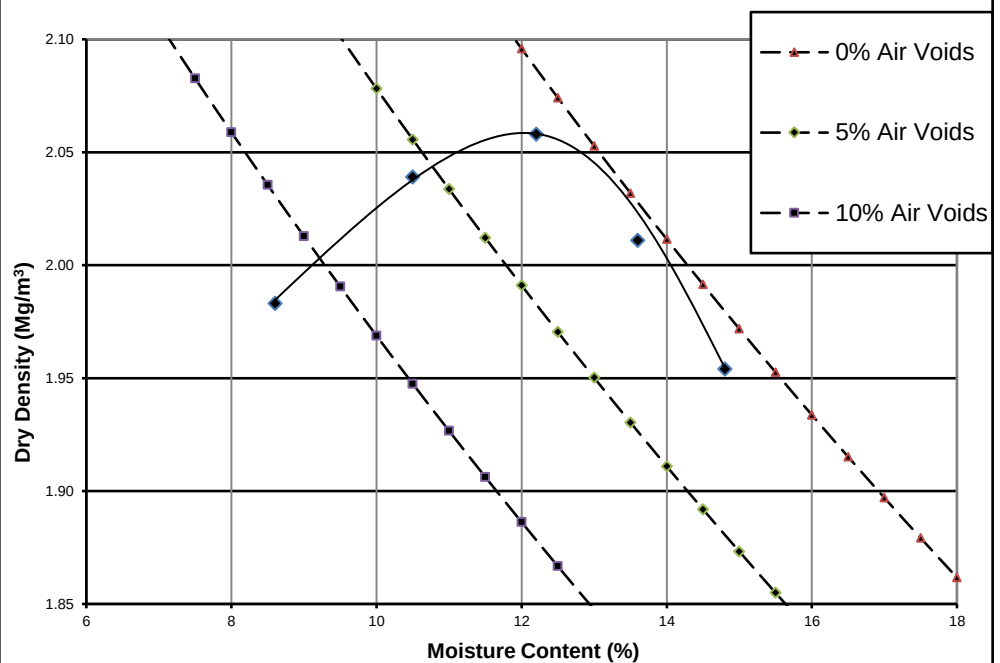
No
S92460
AL13-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	96 %
Retained on 20mm Sieve:	79 %
Moisture Content (%)	Dry Density Mg/m ³
8.6	1.98
10.5	2.04
12.2	2.06
13.6	2.01
14.8	1.95
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.06



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777593

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.56 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.65 Mg/m ³
Apparent Particle density =	2.83 Mg/m ³
Water absorption (of dry mass) =	3.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777585

Page 1 of 1

LABORATORY TEST REPORT

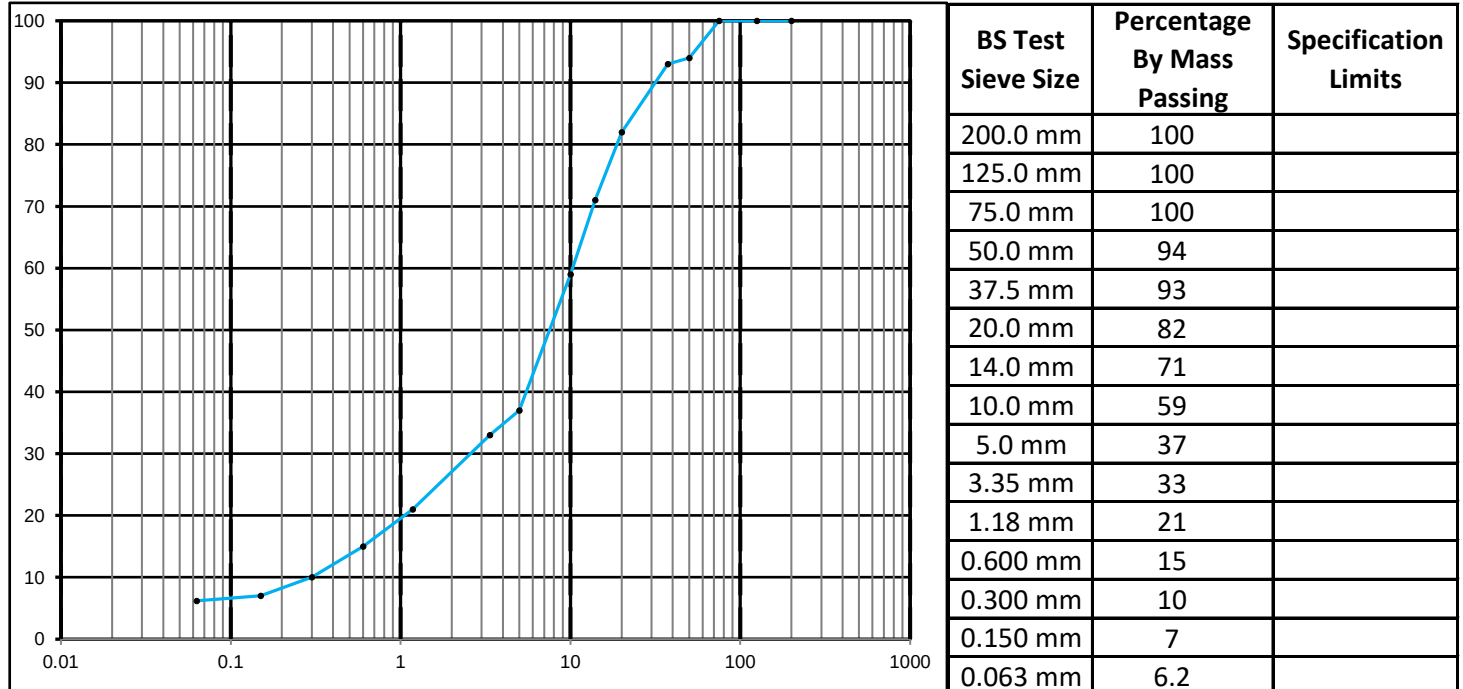
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AL14-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777586

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 February 2021
Test Report Ref: TR 777587

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

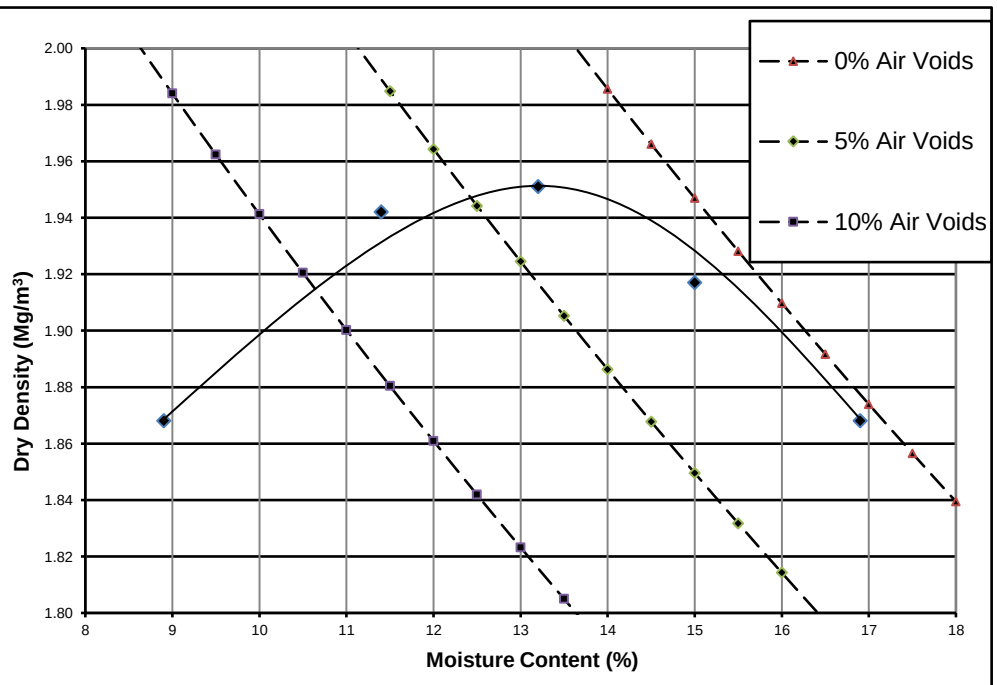
No
S92460
AL14-1
Unknown
14/01/2021
15/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	17 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
8.9	1.87
11.4	1.94
13.2	1.95
15.0	1.92
16.9	1.87
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.95



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 February 2021
Test Report Ref: TR 777588

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	17/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DD
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.34 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.46 Mg/m ³
Apparent Particle density =	2.66 Mg/m ³
Water absorption (of dry mass) =	5.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777589

Page 1 of 1

LABORATORY TEST REPORT

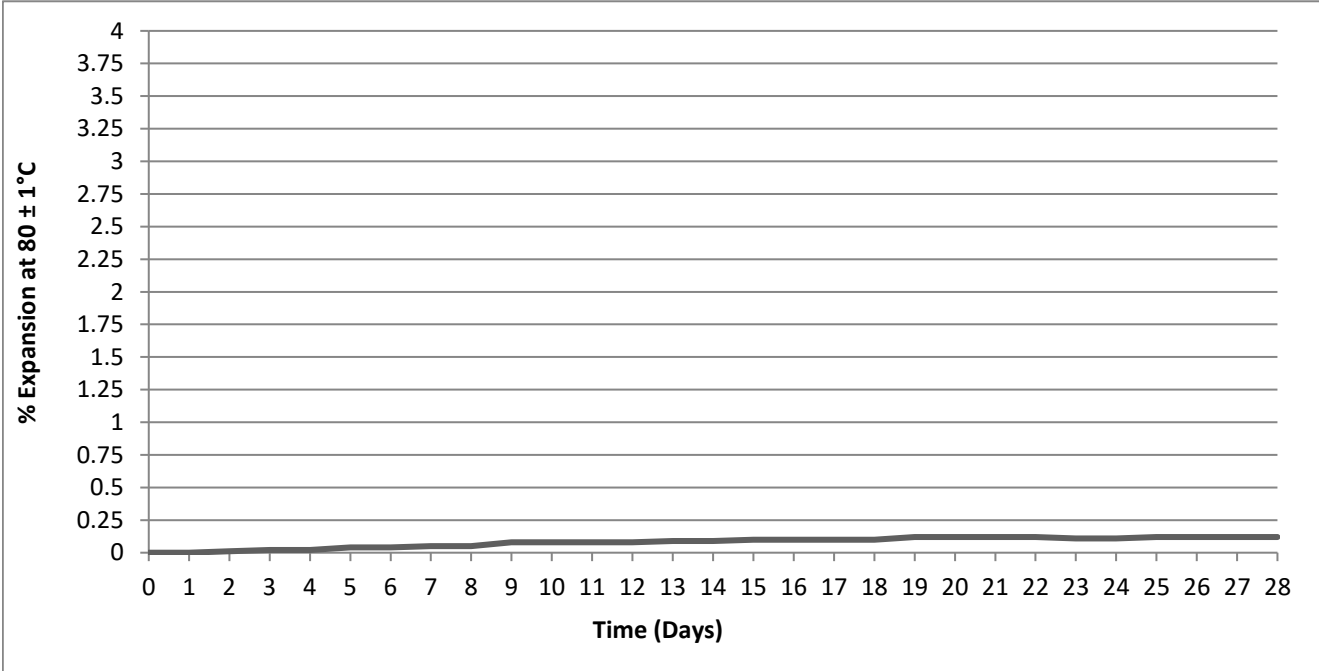
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AL14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.12



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 19

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 March 2021
Test Report Ref: TR 782203

Page 1 of 1

LABORATORY TEST REPORT

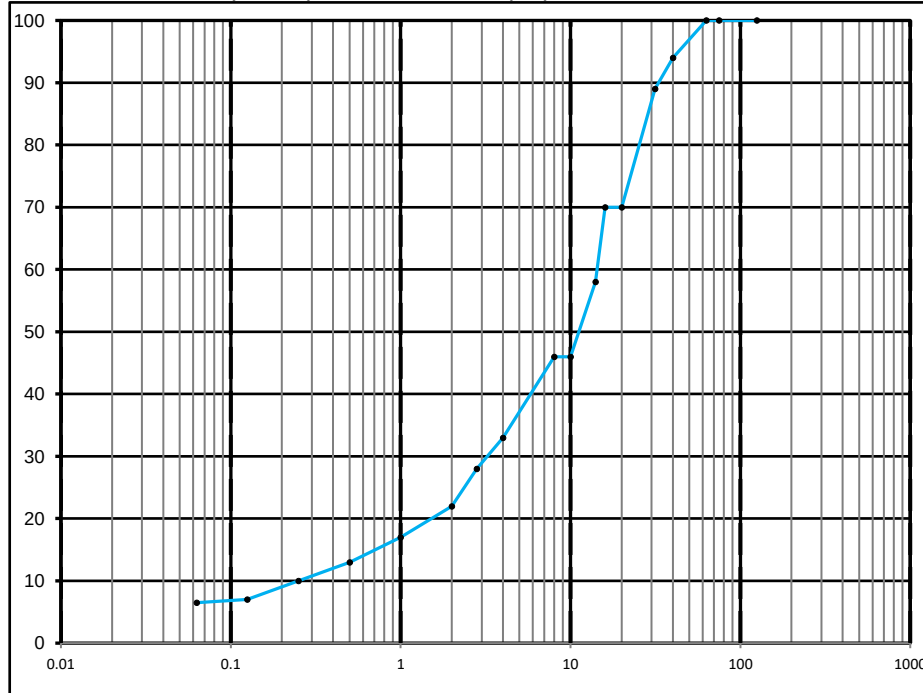
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AL15-1 - 0.4	Sampled By:	Client
Date and Time of Sampling:	21/01/2021	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	19/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	94	
31.5 mm	89	
20.0 mm	70	
16.0 mm	70	
14.0 mm	58	
10.0 mm	46	
8.0 mm	46	
4.0 mm	33	
2.8 mm	28	
2.0 mm	22	
1.0 mm	17	
0.500 mm	13	
0.250 mm	10	
0.125 mm	7	
0.063 mm	6.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 March 2021
Test Report Ref: TR 782204

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL15-1 - 0.4
Date and Time of Sampling:	21/01/2021
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	19/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 29 March 2021
Test Report Ref: TR 782205

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

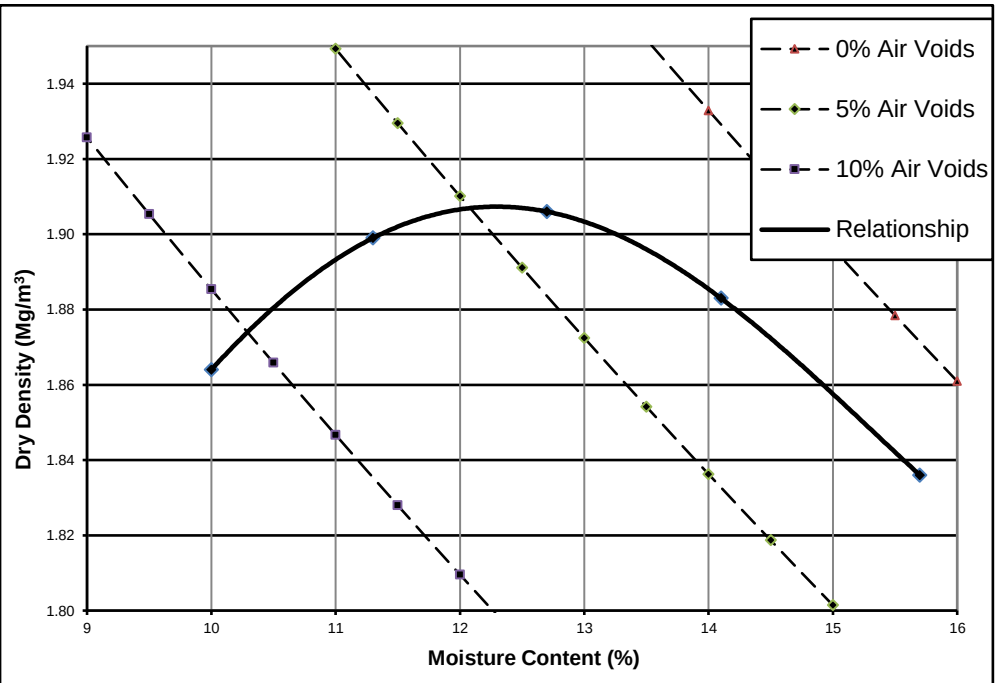
No **S92900**
AL15-1 - 0.4
21/01/2021
04/02/2021
26/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	16 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
10.0	1.86
11.3	1.90
12.7	1.91
14.1	1.88
15.7	1.84
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.91



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 March 2021
Test Report Ref: TR 782206

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL15-1 - 0.4
Date and Time of Sampling:	21/01/2021
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	11/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.28 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.38 Mg/m ³
Apparent Particle density =	2.55 Mg/m ³
Water absorption (of dry mass) =	4.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 782198

Page 1 of 1

LABORATORY TEST REPORT

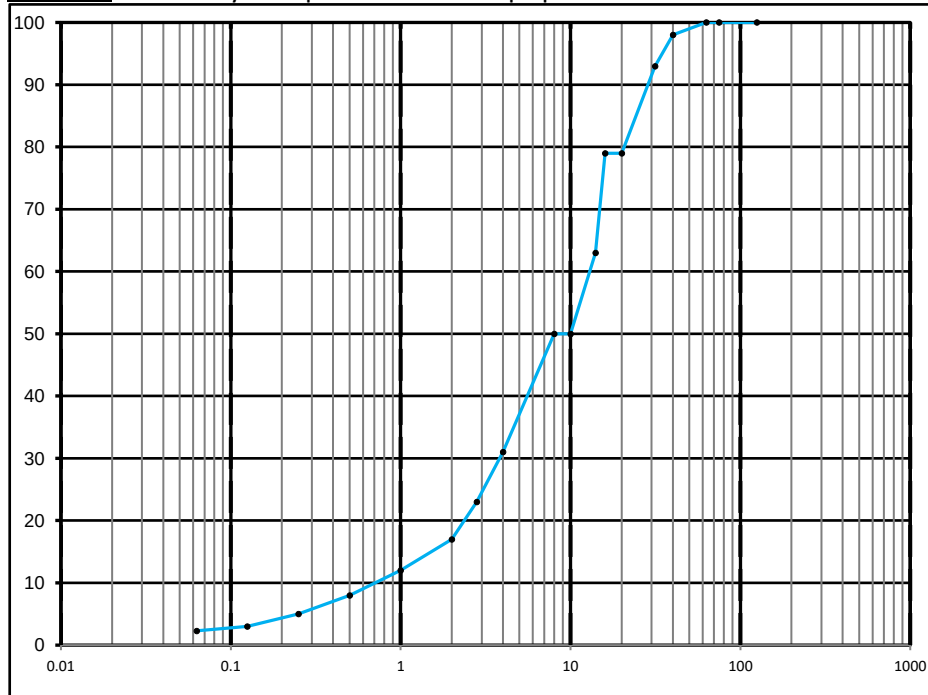
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AL16-1 - 2.9	Sampled By:	Client
Date and Time of Sampling:	21/01/2021	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	19/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	98	
31.5 mm	93	
20.0 mm	79	
16.0 mm	79	
14.0 mm	63	
10.0 mm	50	
8.0 mm	50	
4.0 mm	31	
2.8 mm	23	
2.0 mm	17	
1.0 mm	12	
0.500 mm	8	
0.250 mm	5	
0.125 mm	3	
0.063 mm	2.3	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 782199

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL16-1 - 2.9
Date and Time of Sampling:	21/01/2021
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	19/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782200

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

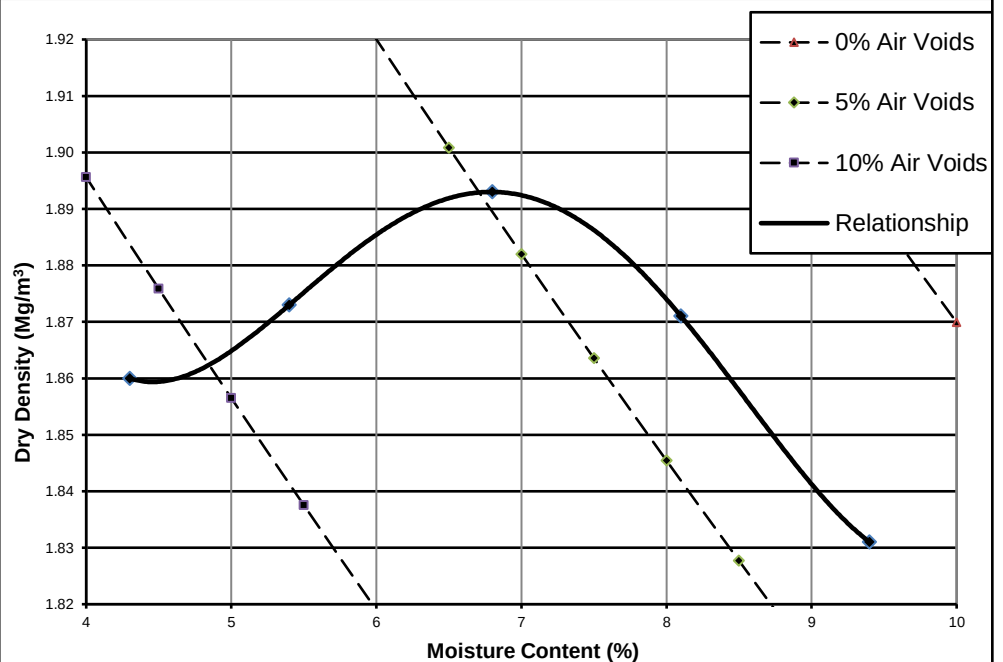
No
S92900
AL16-1 - 2.9
21/01/2021
04/02/2021
22/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	17 %
Retained on 20mm Sieve:	43 %
Moisture Content (%)	Dry Density Mg/m ³
4.3	1.86
5.4	1.87
6.8	1.89
8.1	1.87
9.4	1.83
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
6.8	1.89



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782201

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL16-1 - 2.9
Date and Time of Sampling:	21/01/2021
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.44 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.52 Mg/m ³
Apparent Particle density =	2.66 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 14 June 2021
Test Report Ref: TR 782202

Page 1 of 1

LABORATORY TEST REPORT

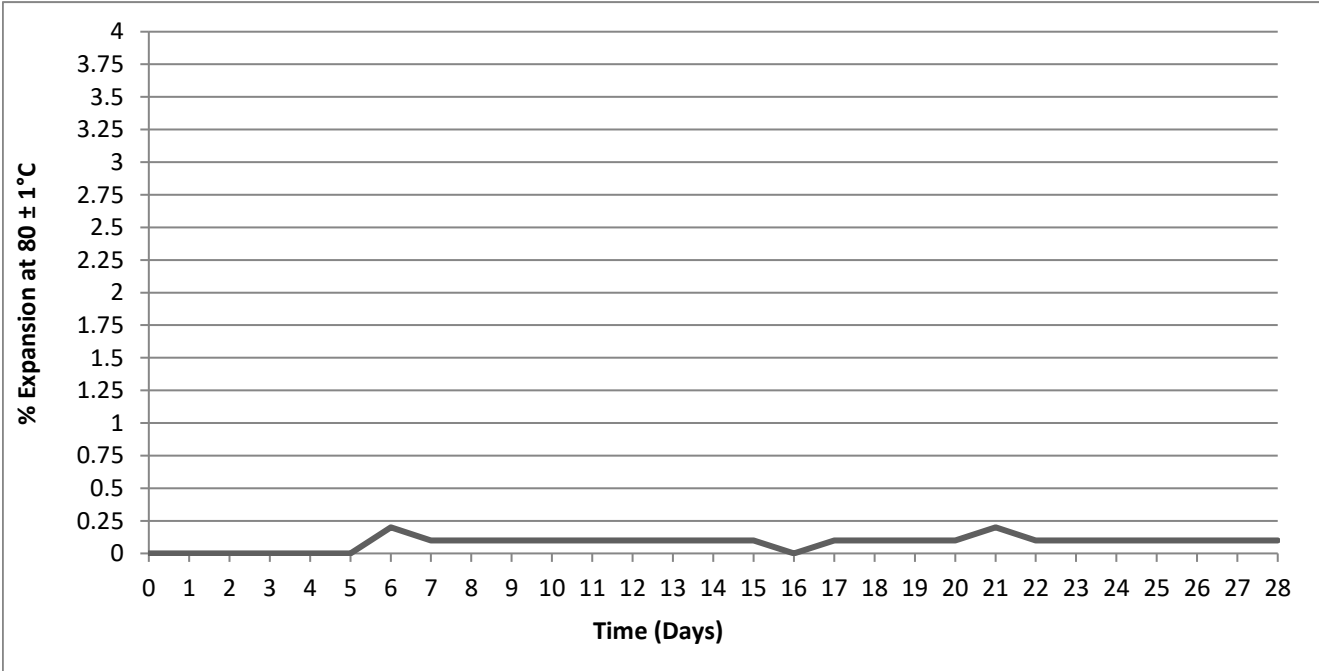
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AL16-1 - 2.9
Date and Time of Sampling:	21/01/2021
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	13/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 42

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775865

Page 1 of 1

LABORATORY TEST REPORT

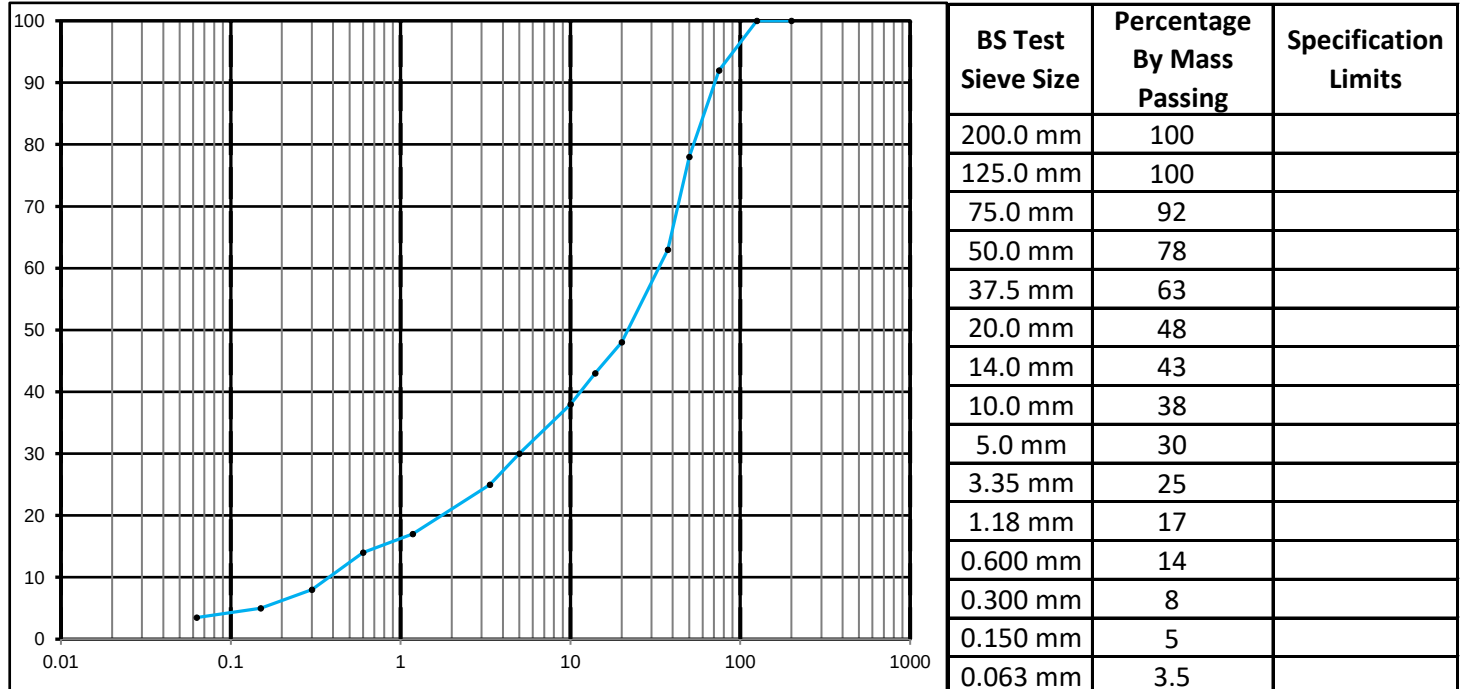
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AL2-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775866

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AL2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DJ
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775867

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S92292
AL2-1
17/12/2020
05/01/2021
23/01/2021
Unknown
Soil

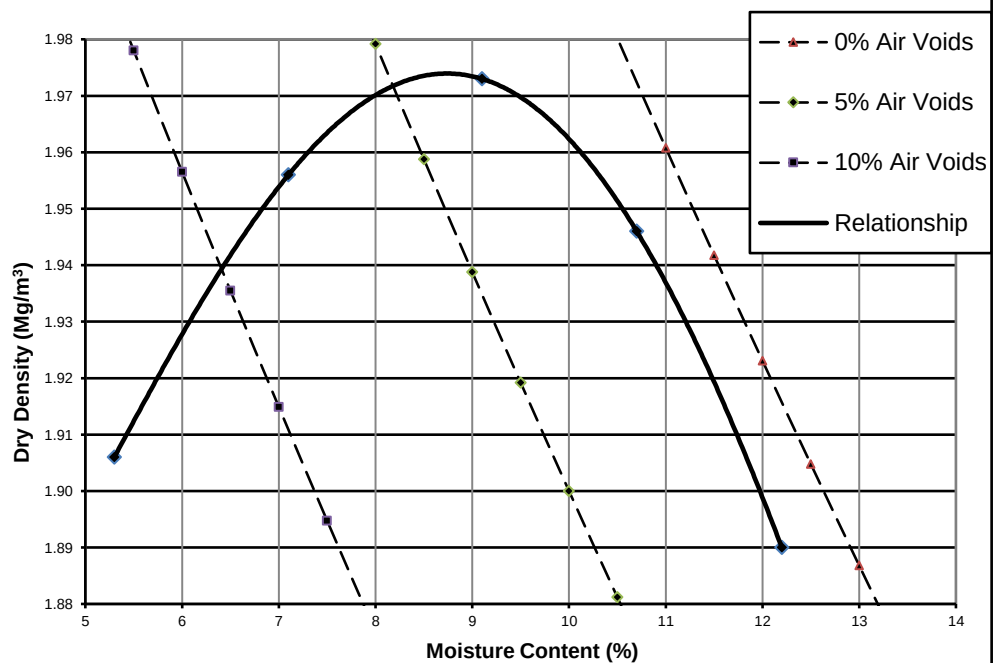
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

Zone X
Single

RESULTS:

Particle Density: 2.5Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	48 %
Retained on 20mm Sieve:	66 %
Moisture Content (%)	Dry Density Mg/m ³
5.3	1.91
7.1	1.96
9.1	1.97
10.7	1.95
12.2	1.89
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
8.7	1.97



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775868

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AL2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.32 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.41 Mg/m ³
Apparent Particle density =	2.55 Mg/m ³
Water absorption (of dry mass) =	3.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775869

Page 1 of 1

LABORATORY TEST REPORT

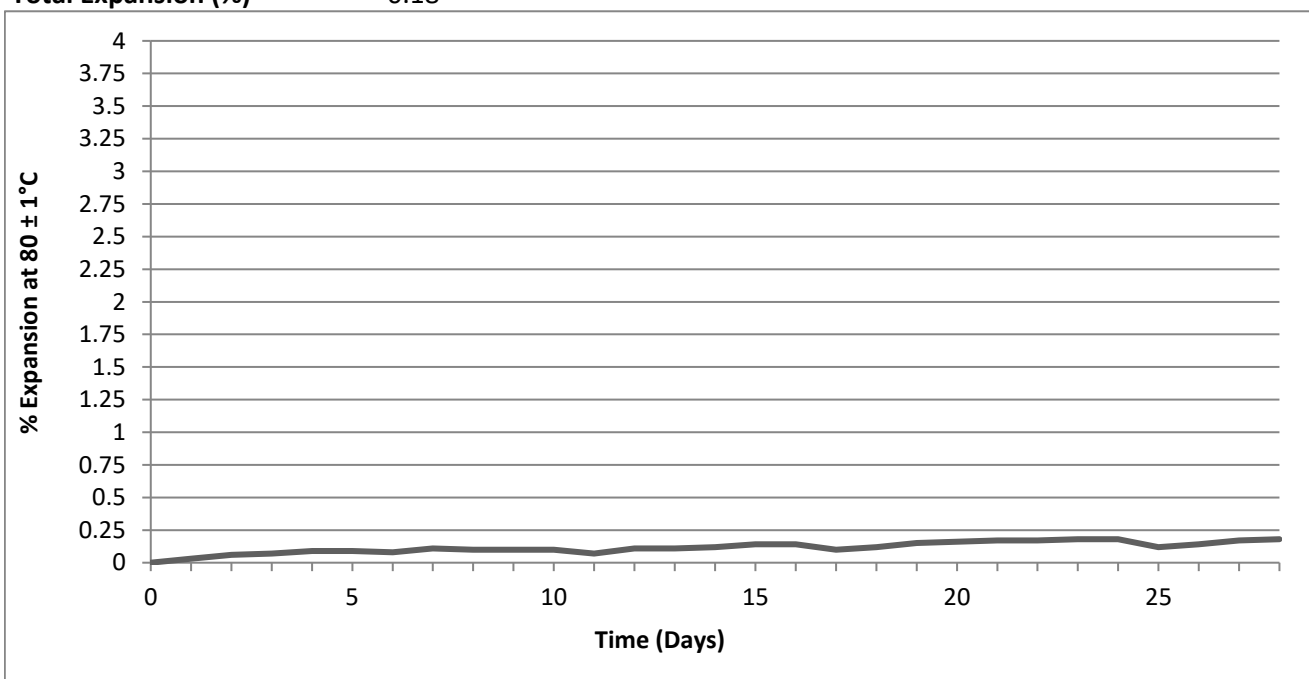
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AL2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.18



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 47

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784184

Page 1 of 1

LABORATORY TEST REPORT

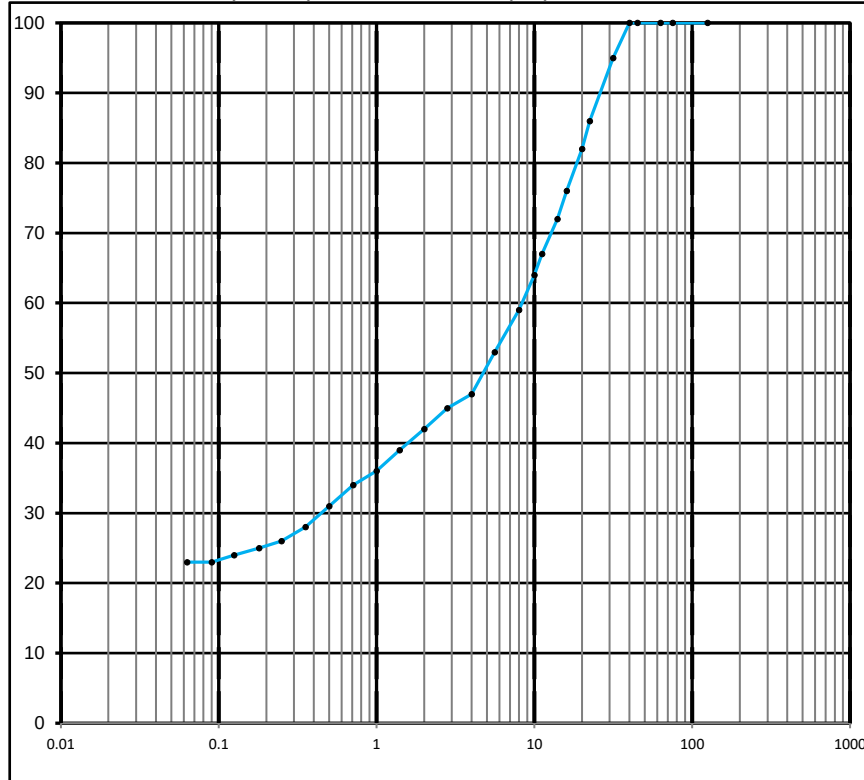
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AL7-1	Sampled By:	Client
Date and Time of Sampling:	22/01/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	100	
31.5 mm	95	
22.4 mm	86	
20.0 mm	82	
16.0 mm	76	
14.0 mm	72	
11.2 mm	67	
10.0 mm	64	
8.0 mm	59	
5.6 mm	53	
4.0 mm	47	
2.8 mm	45	
2.0 mm	42	
1.4 mm	39	
1.0 mm	36	
0.710 mm	34	
0.500 mm	31	
0.355 mm	28	
0.250 mm	26	
0.180 mm	25	
0.125 mm	24	
0.090 mm	23	
0.063 mm	23.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784185

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL7-1
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 22.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 April 2021
Test Report Ref: TR 784186

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

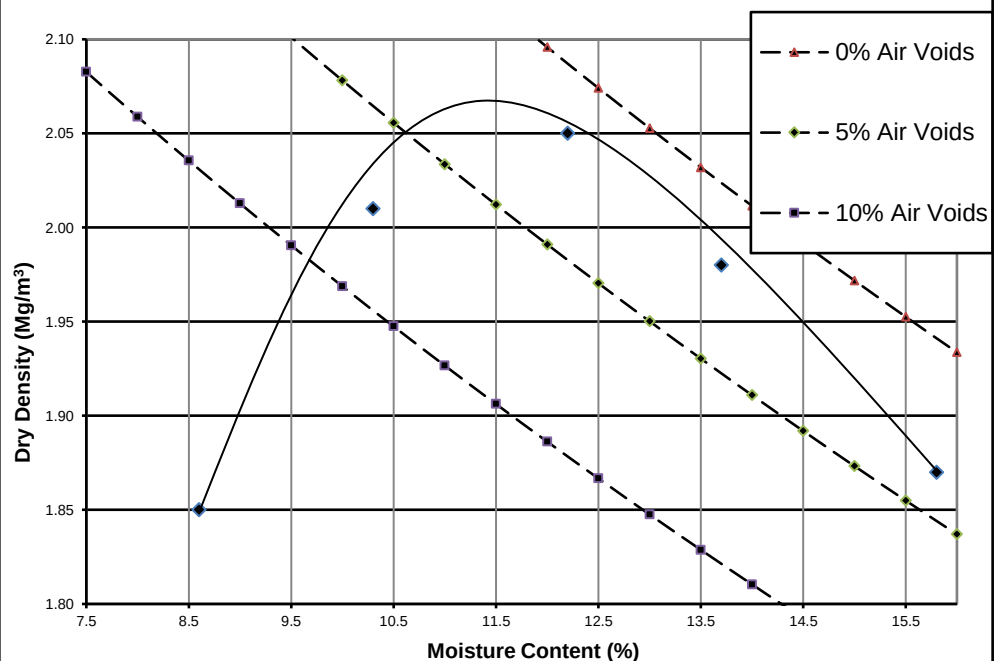
No
S93086
AL7-1
22/01/2021
12/02/2021
16/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	28 %
Moisture Content (%)	Dry Density Mg/m ³
8.6	1.85
10.3	2.01
12.2	2.05
13.7	1.98
15.8	1.87
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.07



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784187

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL7-1
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.51 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.58 Mg/m ³
Apparent Particle density =	2.69 Mg/m ³
Water absorption (of dry mass) =	2.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784188

Page 1 of 1

LABORATORY TEST REPORT

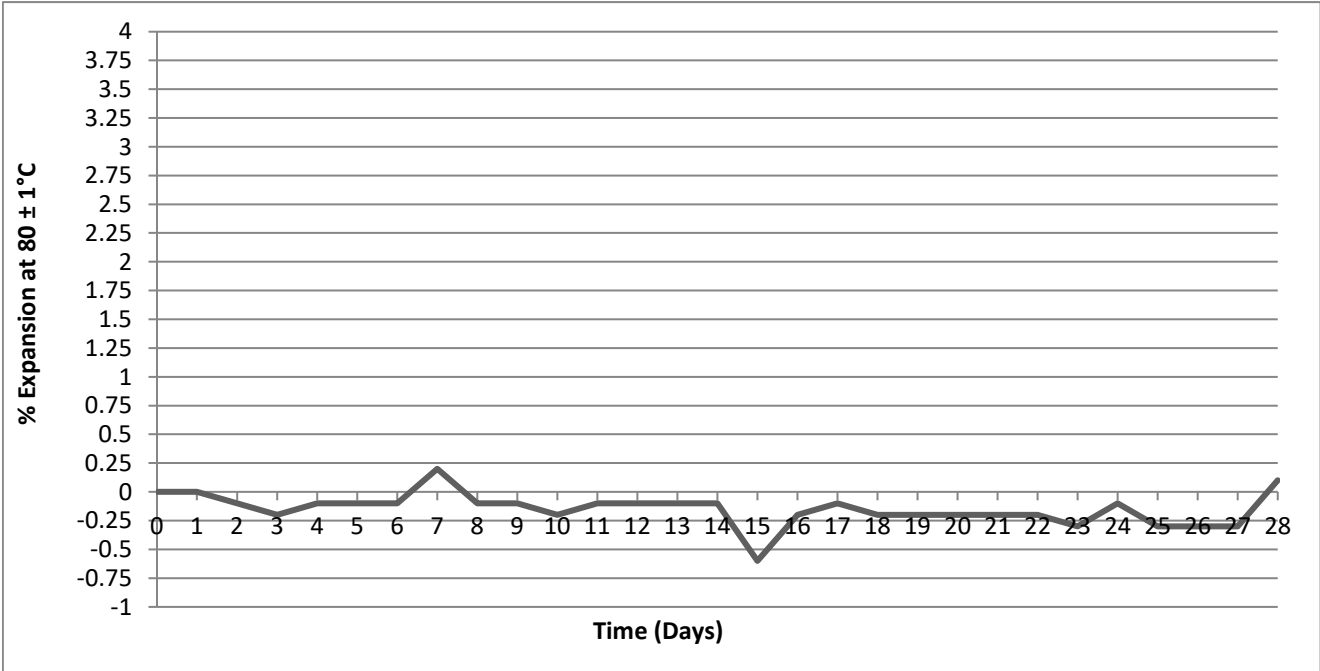
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AL7-1
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 29	Report checked and approved by:  Mathew Sayer Aggregate Team Manager
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775856

Page 1 of 1

LABORATORY TEST REPORT

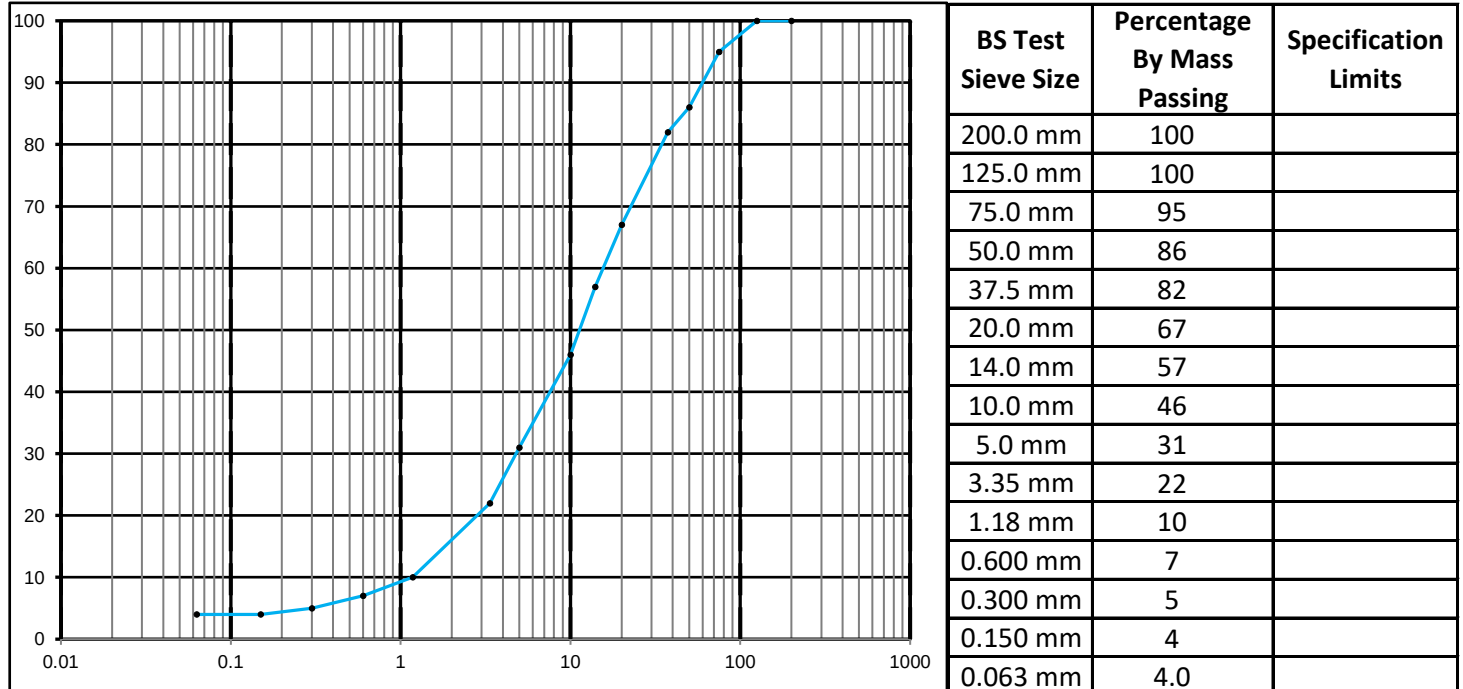
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Llanwern
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AM1-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775857

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AM1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Llanwern
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 January 2021
Test Report Ref: TR 775858

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S92292
AM1-1
17/12/2020
05/01/2021
15/01/2021
Unknown
Soil

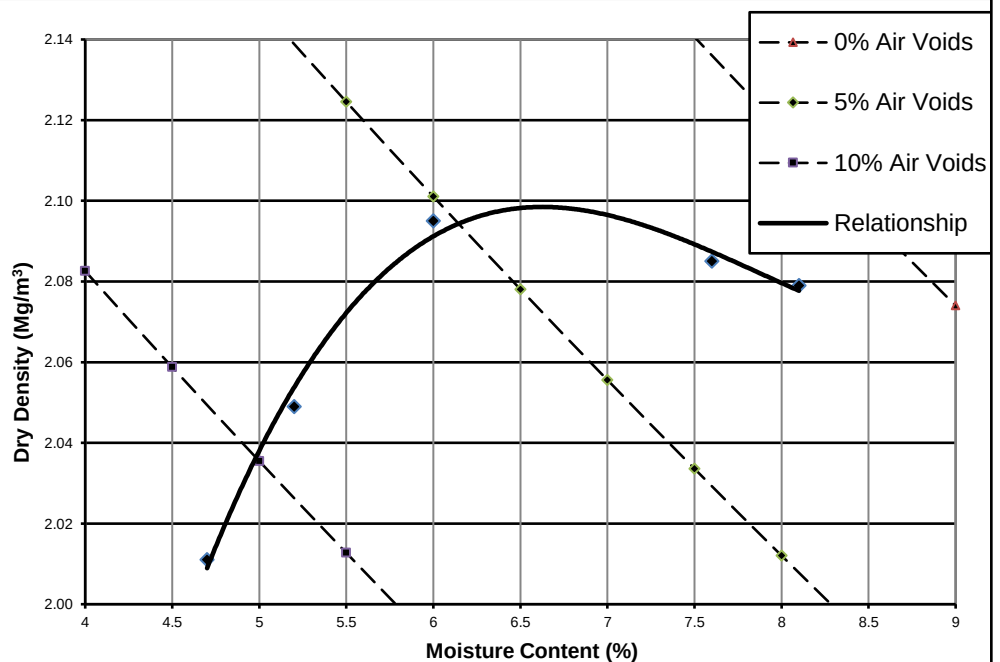
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method:

Clause X
Single

RESULTS:

Particle Density: 2.55Mg/m³
(Found using Gas Jar Method)

Retained on 37.5mm Sieve:	16 %
Retained on 20mm Sieve:	43 %
Moisture Content (%)	Dry Density Mg/m ³
4.7	2.01
5.2	2.05
6.0	2.10
7.6	2.09
8.1	2.08
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
6.6	2.10



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775859

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AM1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.41 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.48 Mg/m ³
Apparent Particle density =	2.58 Mg/m ³
Water absorption (of dry mass) =	2.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775860

Page 1 of 1

LABORATORY TEST REPORT

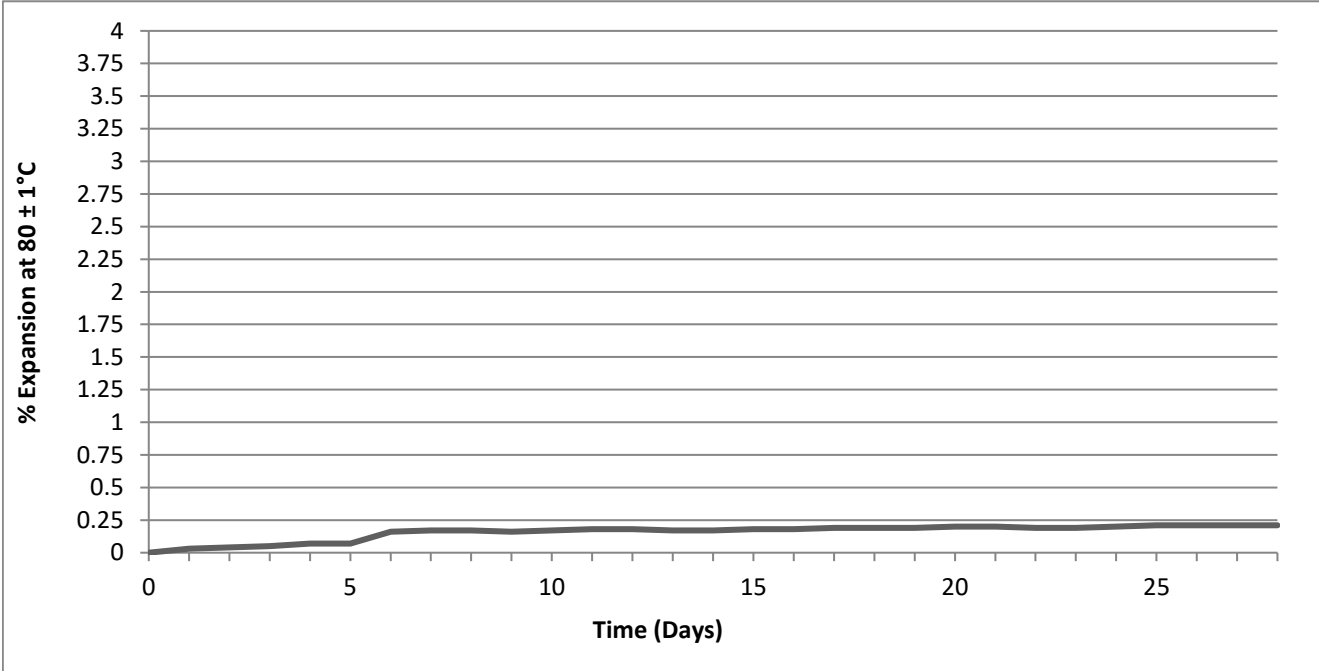
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AM1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.21



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 30

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777599

Page 1 of 1

LABORATORY TEST REPORT

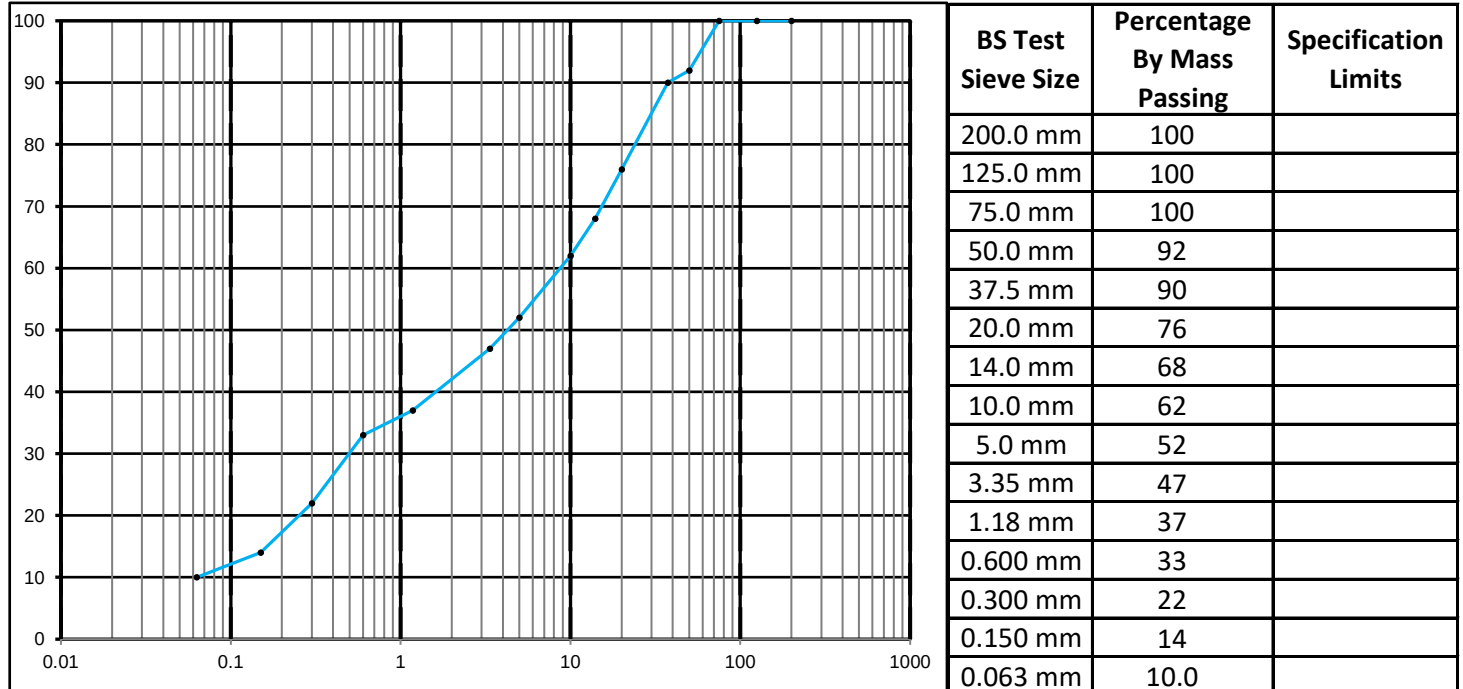
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AM10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777600

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 10.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777601

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

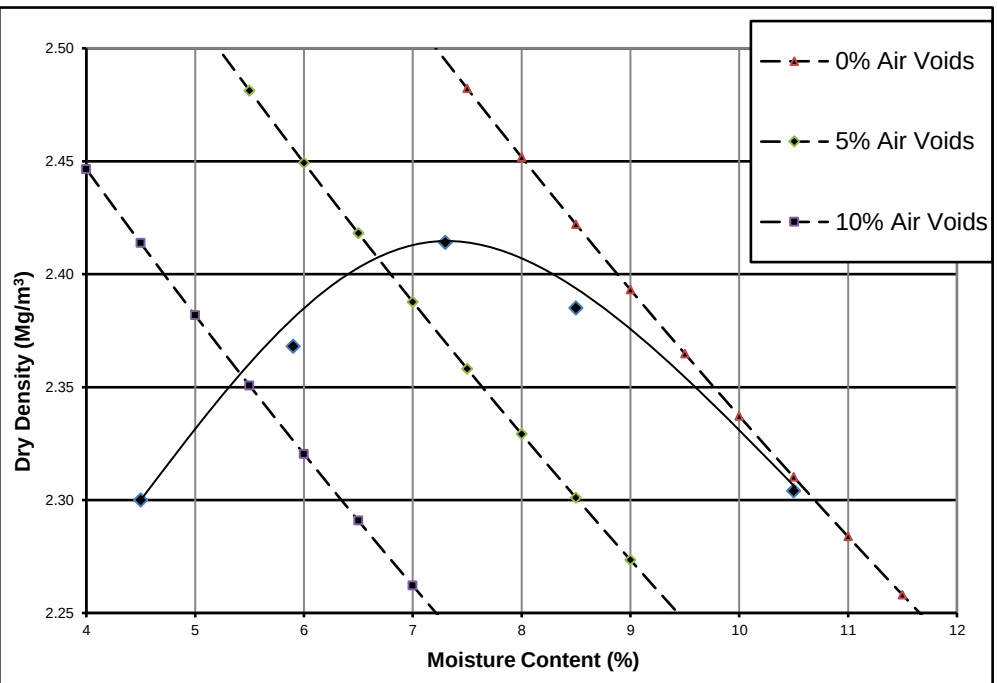
No
S92460
AM10-1
Unknown
14/01/2021
10/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 3.05Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	21 %
Moisture Content (%)	Dry Density Mg/m ³
4.5	2.30
5.9	2.37
7.3	2.41
8.5	2.39
10.5	2.30
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
7.3	2.42



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777602

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.48 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.56 Mg/m ³
Apparent Particle density =	2.68 Mg/m ³
Water absorption (of dry mass) =	3.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782726

Page 1 of 1

LABORATORY TEST REPORT

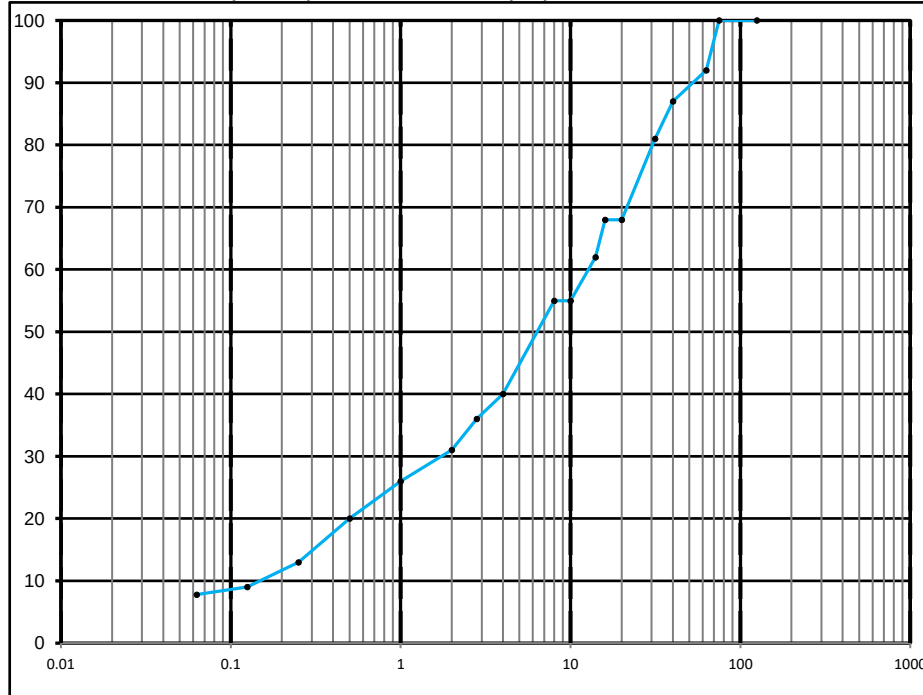
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AM11-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	92	
40.0 mm	87	
31.5 mm	81	
20.0 mm	68	
16.0 mm	68	
14.0 mm	62	
10.0 mm	55	
8.0 mm	55	
4.0 mm	40	
2.8 mm	36	
2.0 mm	31	
1.0 mm	26	
0.500 mm	20	
0.250 mm	13	
0.125 mm	9	
0.063 mm	7.8	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 March 2021
Test Report Ref: TR 782727

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782728

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

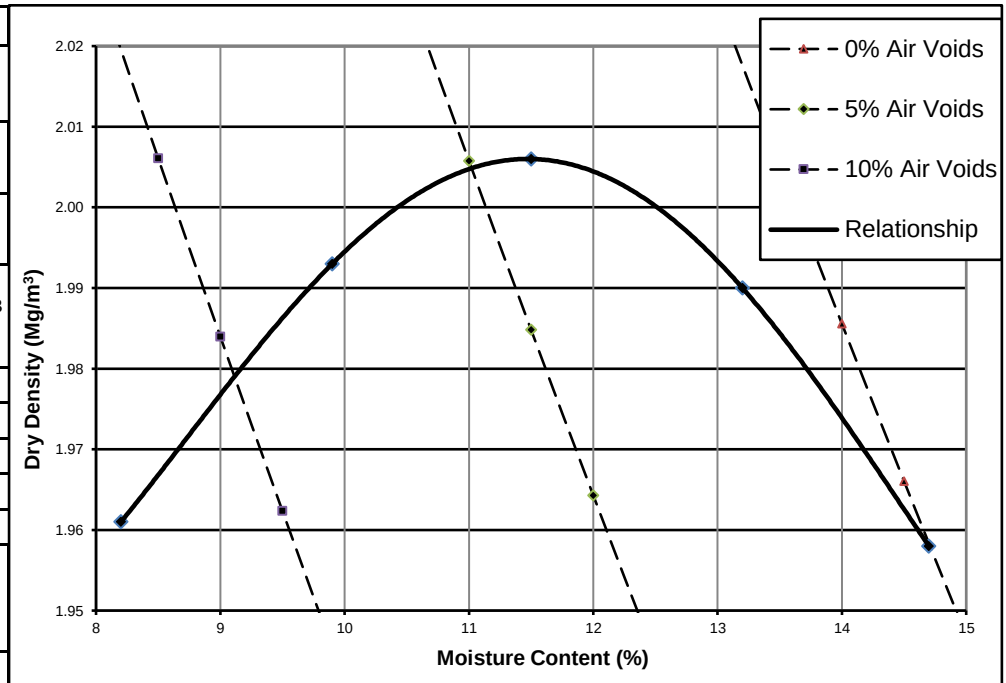
No **S92900**
AM11-1
Unknown
04/02/2021
19/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **3.2.5.3 Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	10 %
Retained on 20mm Sieve:	19 %
Moisture Content (%)	Dry Density Mg/m ³
8.2	1.96
9.9	1.99
11.5	2.01
13.2	1.99
14.7	1.96
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.01



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782729

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.31 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.42 Mg/m ³
Apparent Particle density =	2.59 Mg/m ³
Water absorption (of dry mass) =	4.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 May 2021
Test Report Ref: TR 782730

Page 1 of 1

LABORATORY TEST REPORT

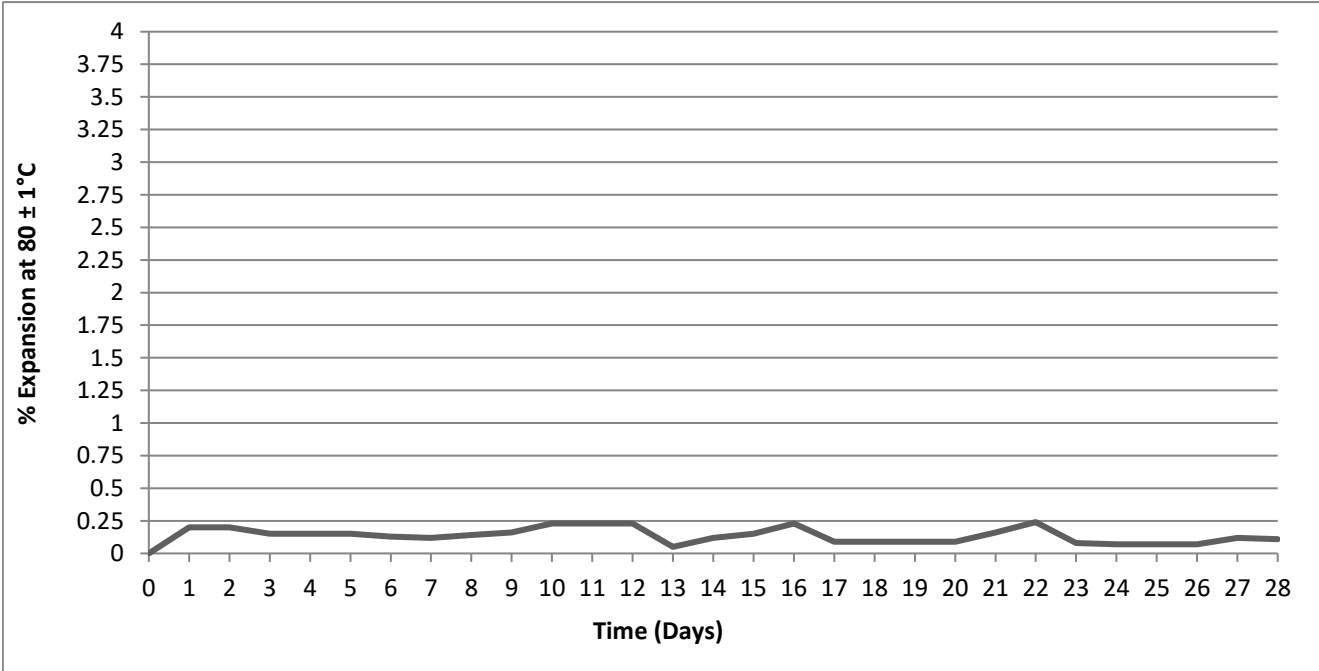
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	13/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.2



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 19	Report checked and approved by:  Mathew Sayer Aggregate Team Manager
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 777603

Page 1 of 1

LABORATORY TEST REPORT

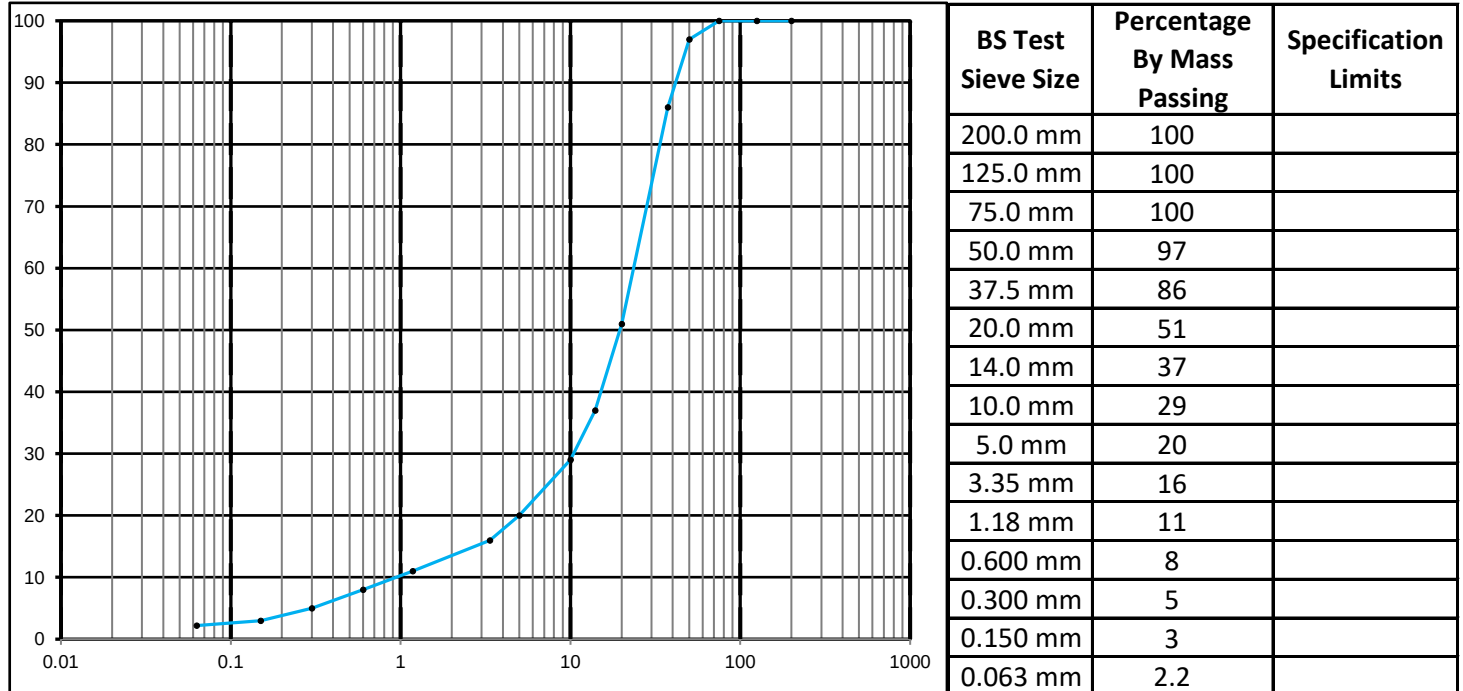
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AM12-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	KH
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 777604

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	KH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 8.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777608

Page 1 of 1

LABORATORY TEST REPORT

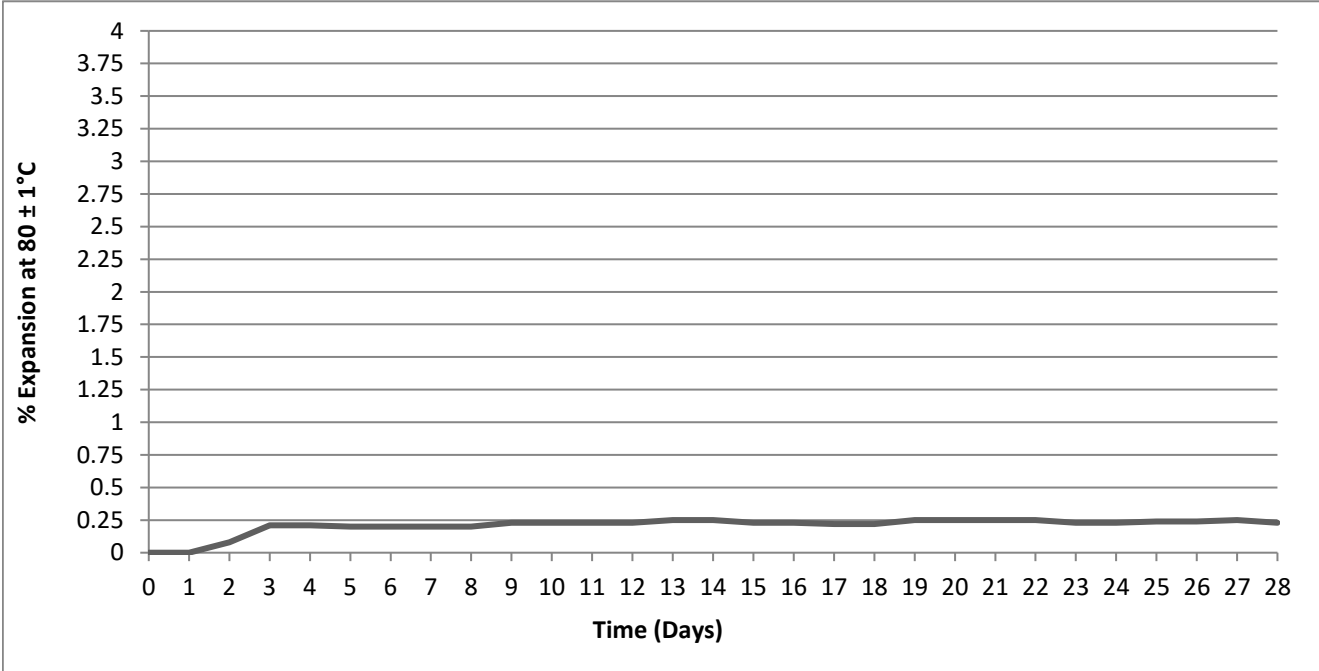
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.23



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 29

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777609

Page 1 of 1

LABORATORY TEST REPORT

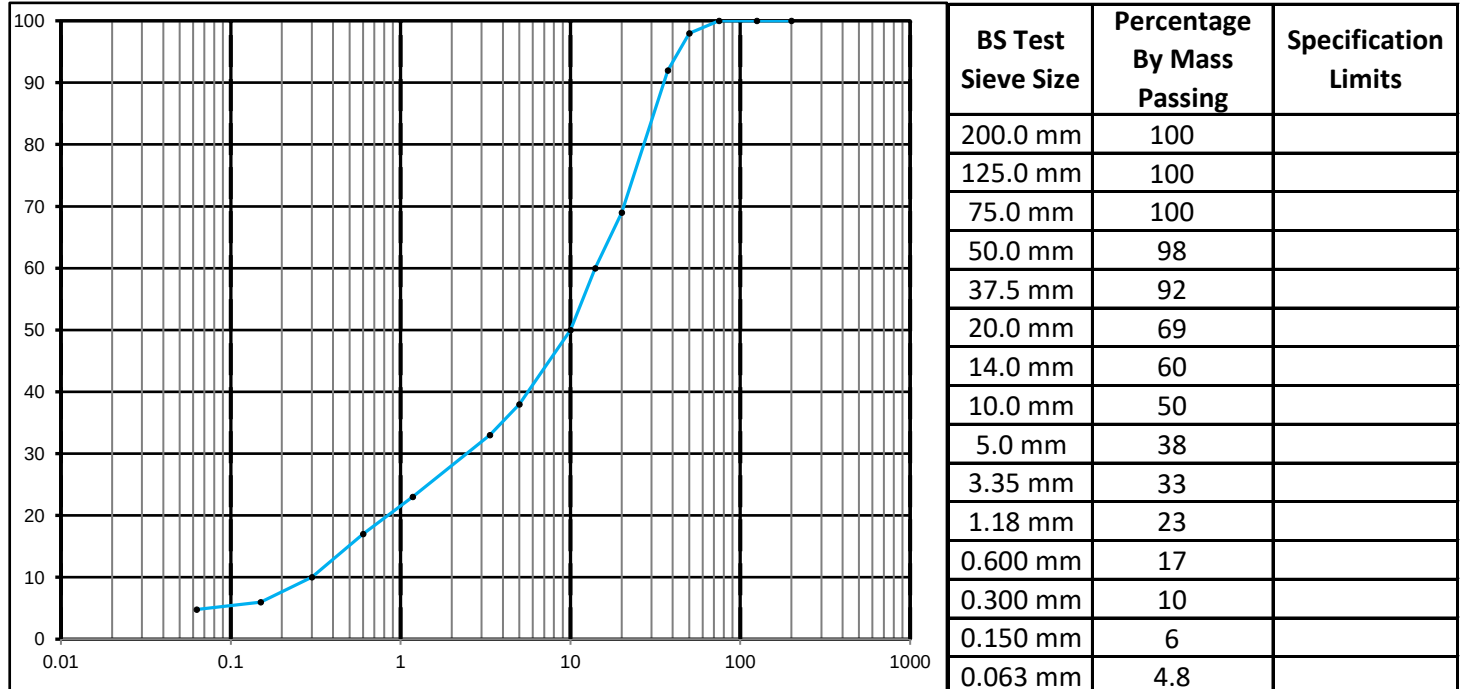
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AM13-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777610

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 February 2021
Test Report Ref: TR 777611

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

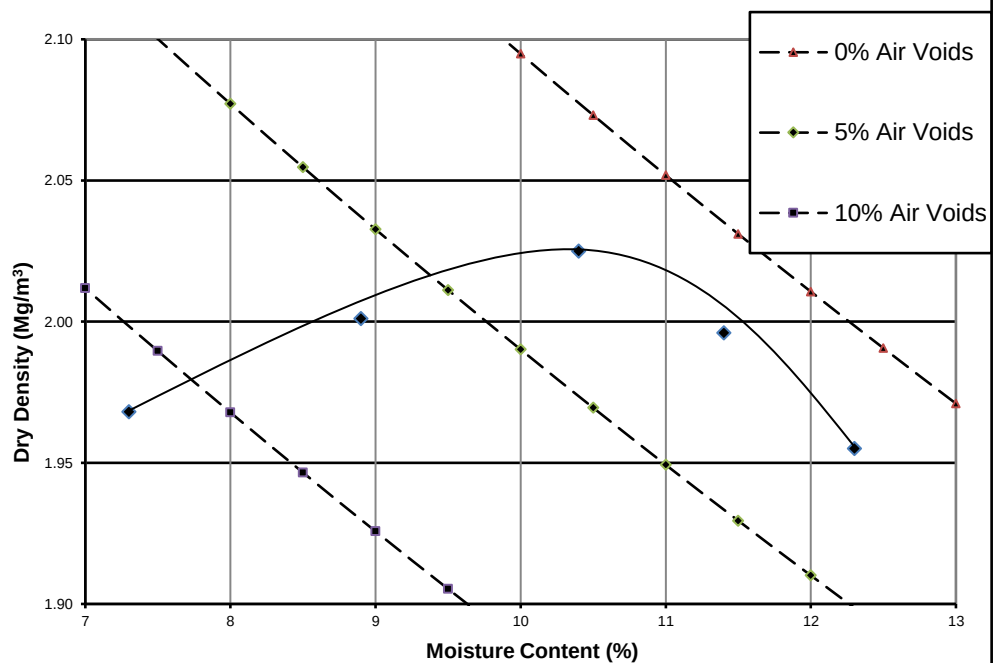
No
S92460
AM13-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.65Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	22 %
Retained on 20mm Sieve:	34 %
Moisture Content (%)	Dry Density Mg/m ³
7.3	1.97
8.9	2.00
10.4	2.03
11.4	2.00
12.3	1.96
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
10.0	2.03



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777612

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.38 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.47 Mg/m ³
Apparent Particle density =	2.61 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 782731

Page 1 of 1

LABORATORY TEST REPORT

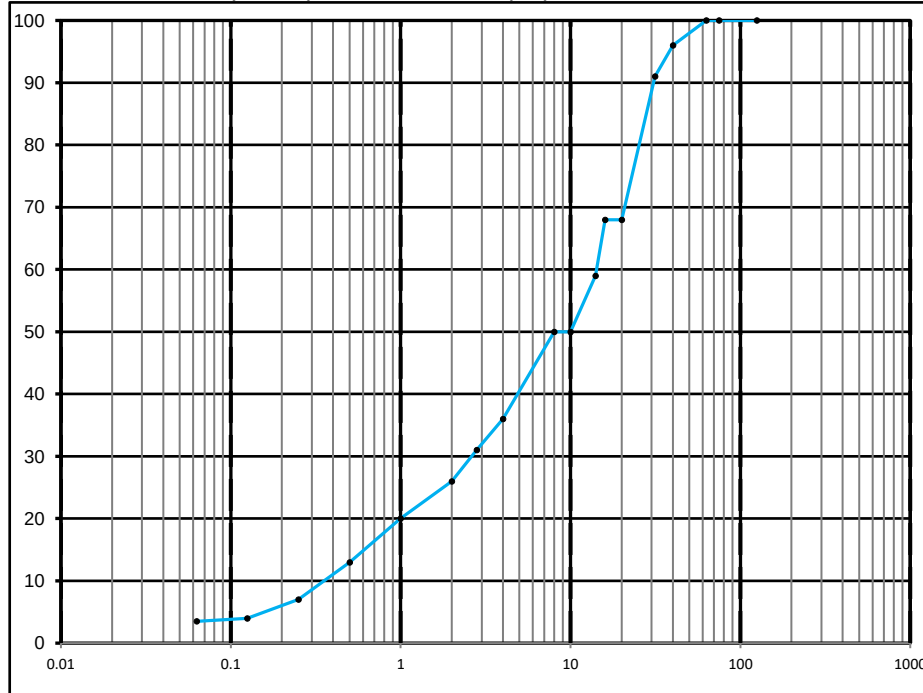
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AM14-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	96	
31.5 mm	91	
20.0 mm	68	
16.0 mm	68	
14.0 mm	59	
10.0 mm	50	
8.0 mm	50	
4.0 mm	36	
2.8 mm	31	
2.0 mm	26	
1.0 mm	20	
0.500 mm	13	
0.250 mm	7	
0.125 mm	4	
0.063 mm	3.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 March 2021
Test Report Ref: TR 782732

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 April 2021
Test Report Ref: TR 782733

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

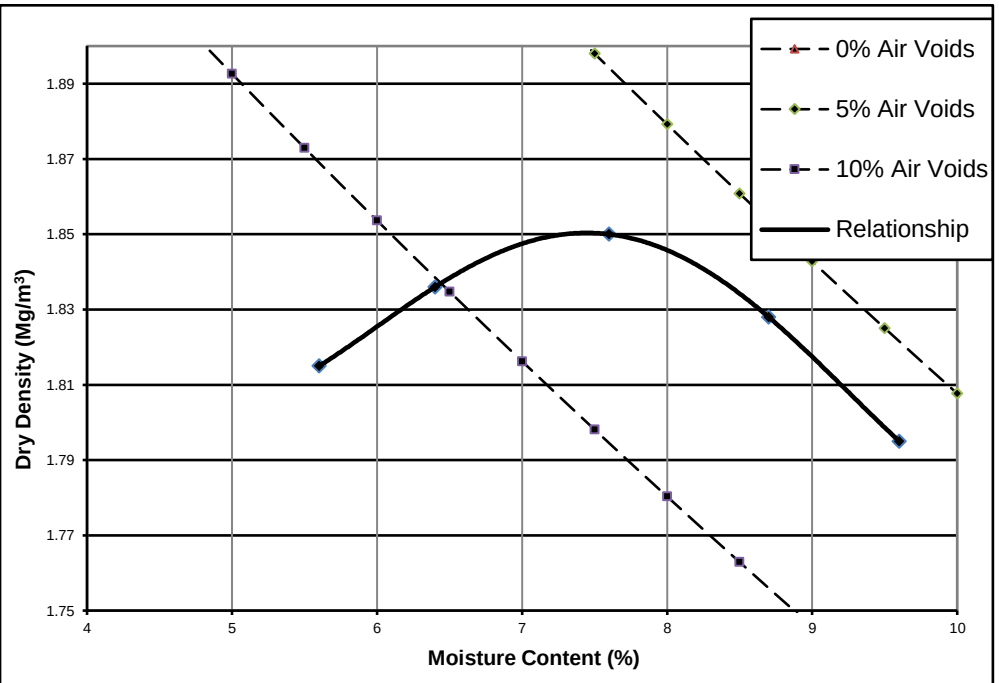
No **S92900**
AM14-1
Unknown
04/02/2021
06/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.35Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	20 %
Retained on 20mm Sieve:	21 %
Moisture Content (%)	Dry Density Mg/m ³
5.6	1.82
6.4	1.84
7.6	1.85
8.7	1.83
9.6	1.80
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
7.9	1.85



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782734

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.28 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.37 Mg/m ³
Apparent Particle density =	2.51 Mg/m ³
Water absorption (of dry mass) =	4.2 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777581

Page 1 of 1

LABORATORY TEST REPORT

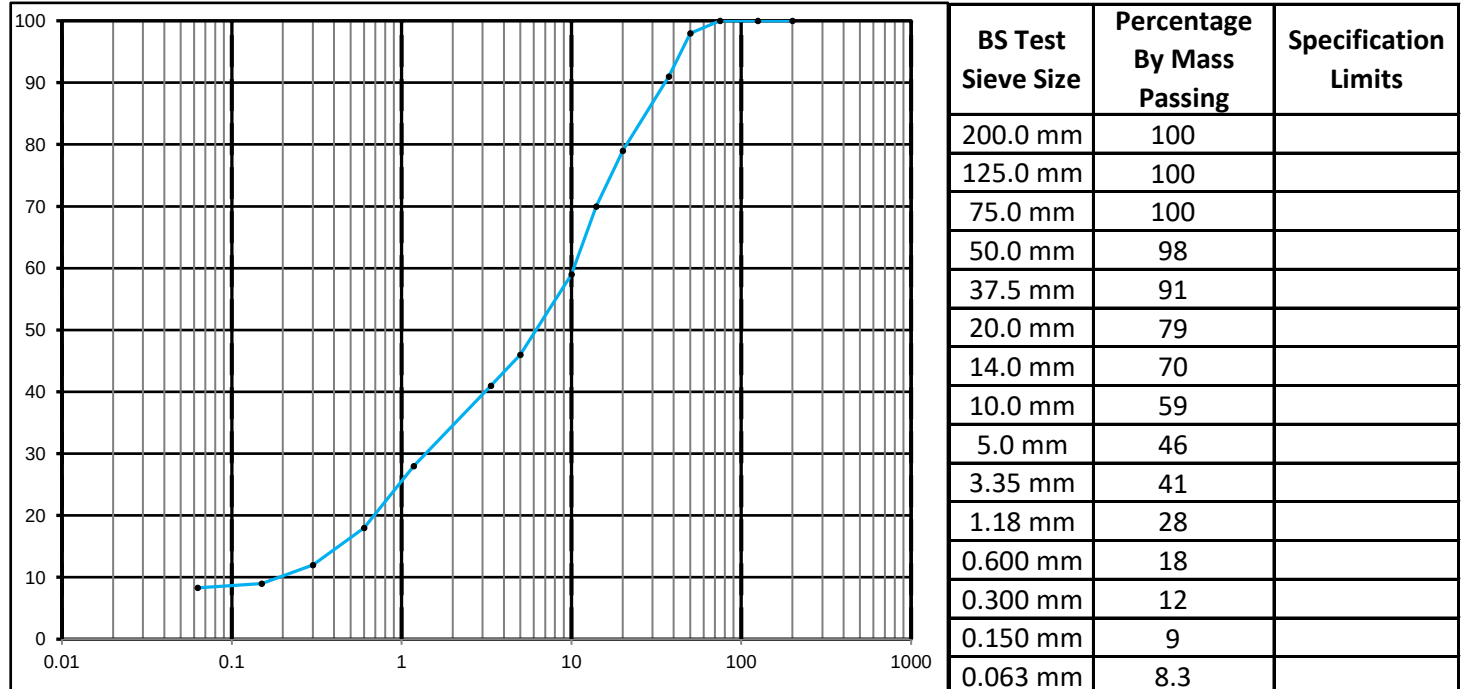
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AM15-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777582

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM15-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 20.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
---------------------------------	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 February 2021
Test Report Ref: TR 777583

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

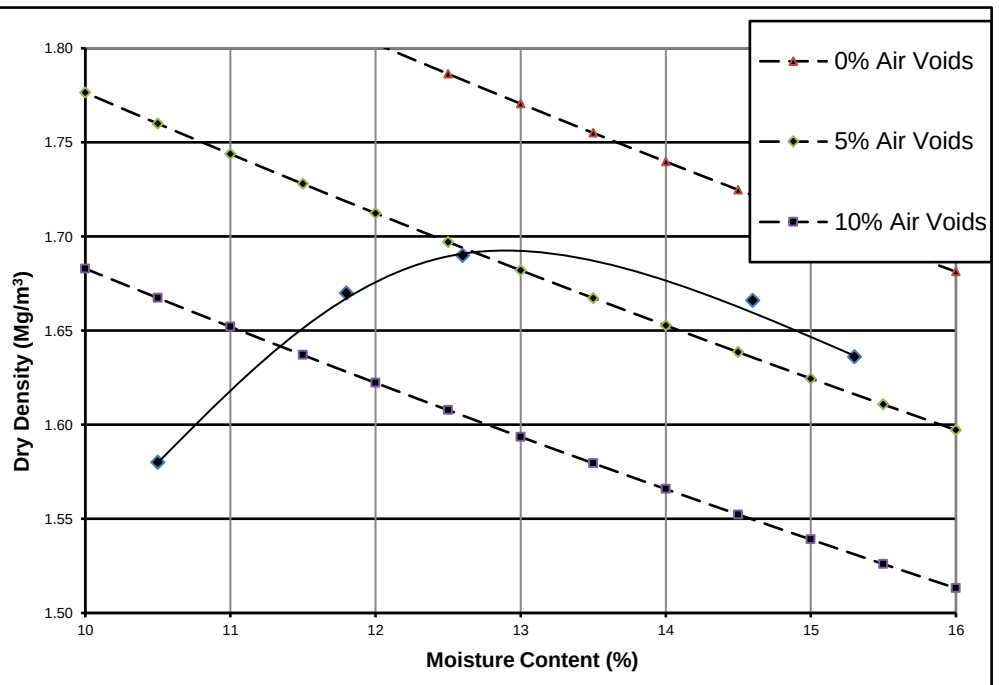
No
S92460
AM15-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	19 %
Moisture Content (%)	Dry Density Mg/m ³
10.5	1.58
11.8	1.67
12.6	1.69
14.6	1.67
15.3	1.64
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.72



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777584

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM15-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.13 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.26 Mg/m ³
Apparent Particle density =	2.44 Mg/m ³
Water absorption (of dry mass) =	5.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777613

Page 1 of 1

LABORATORY TEST REPORT

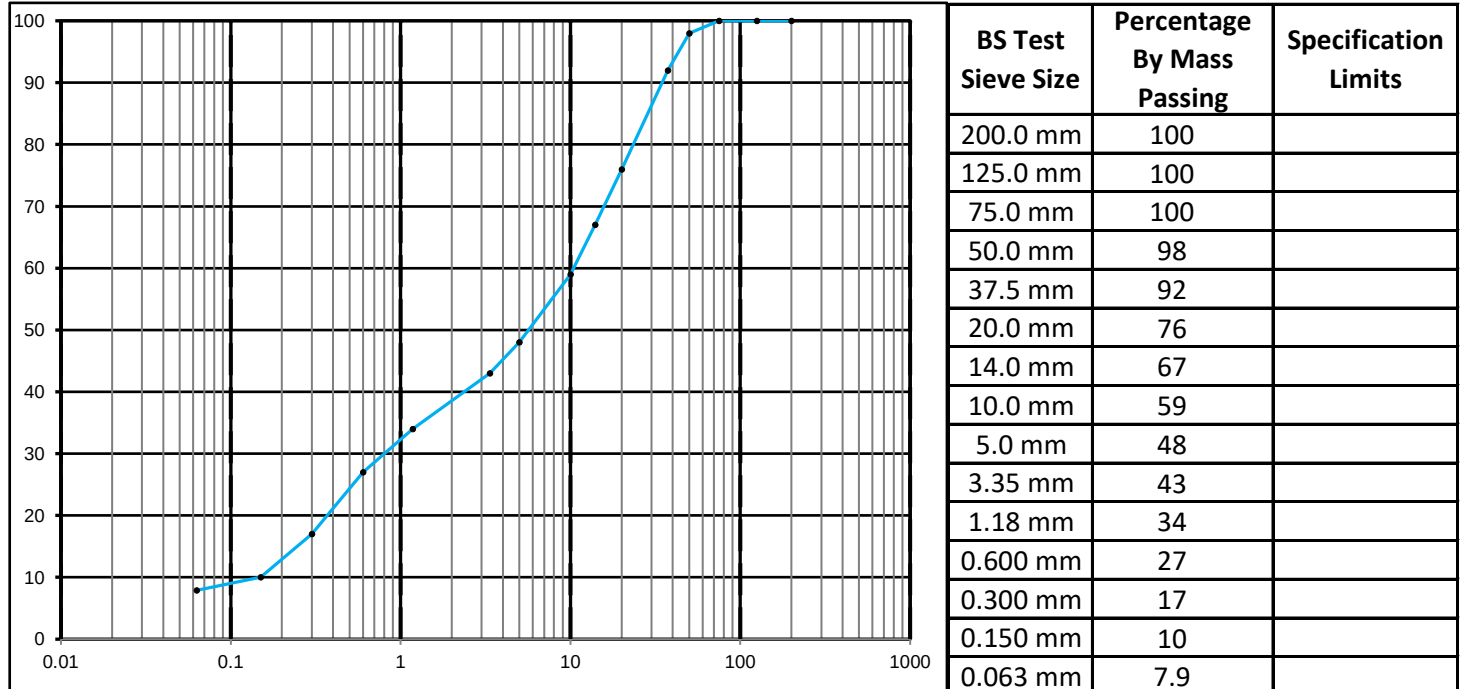
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AM16-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777614

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 777615

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

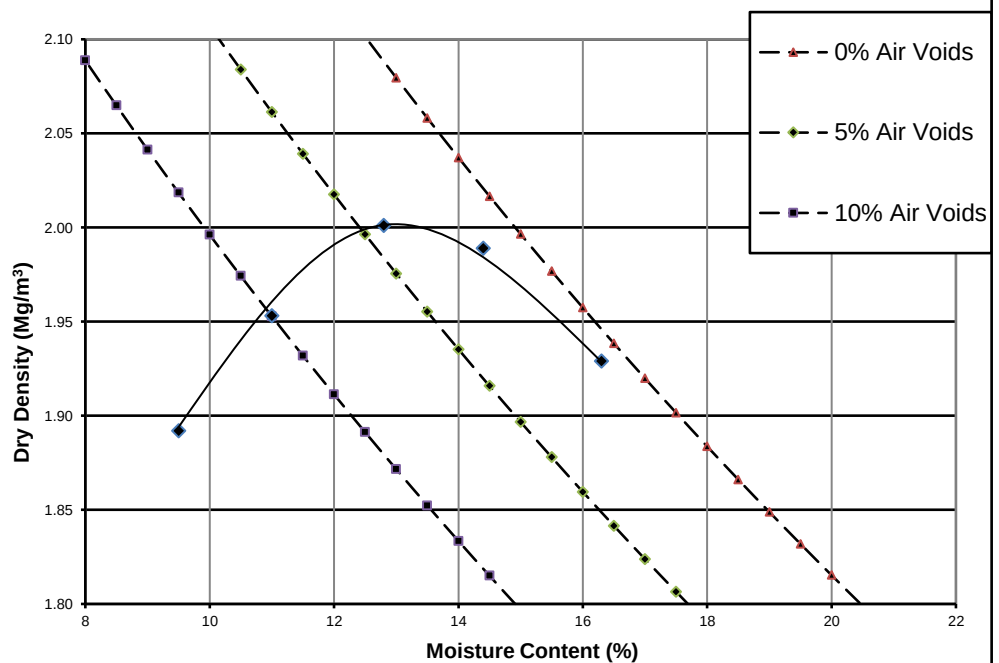
No
S92460
AM16-1
Unknown
14/01/2021
13/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.85Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	33 %
Retained on 20mm Sieve:	44 %
Moisture Content (%)	Dry Density Mg/m ³
9.5	1.89
11.0	1.95
12.8	2.00
14.4	1.99
16.3	1.93
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.00



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777616

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.51 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.60 Mg/m ³
Apparent Particle density =	2.78 Mg/m ³
Water absorption (of dry mass) =	3.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777617

Page 1 of 1

LABORATORY TEST REPORT

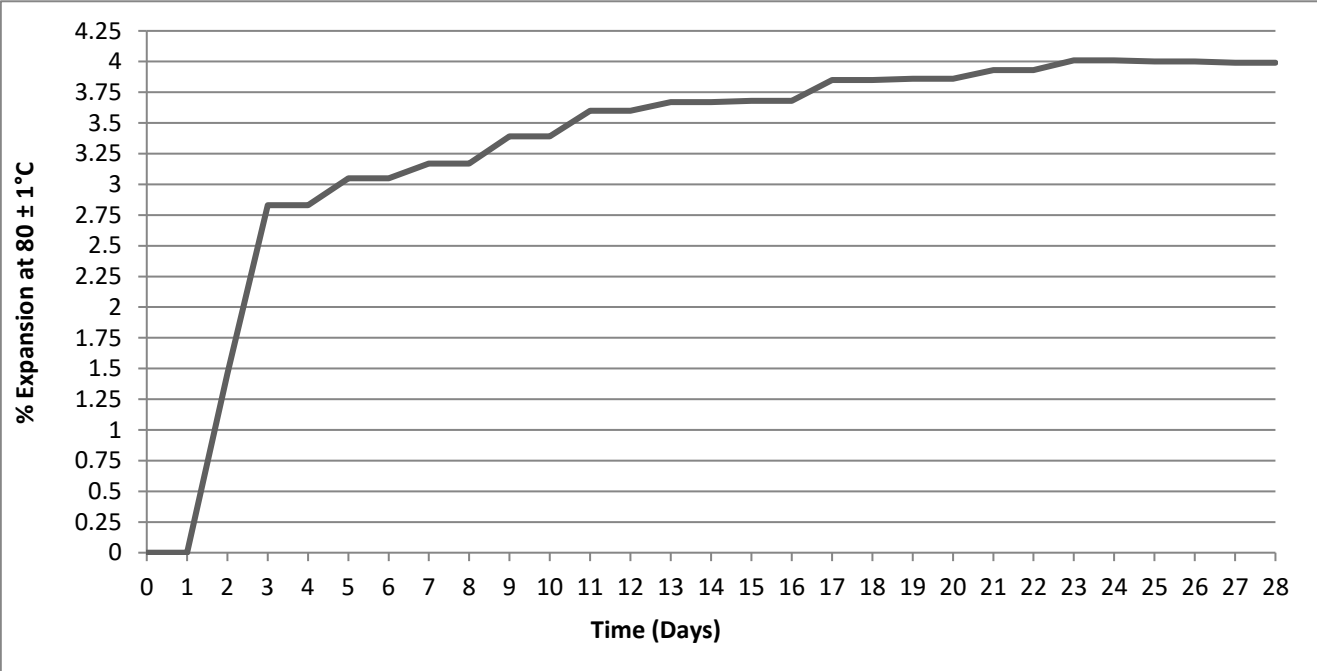
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 3.99



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 32

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782735

Page 1 of 1

LABORATORY TEST REPORT

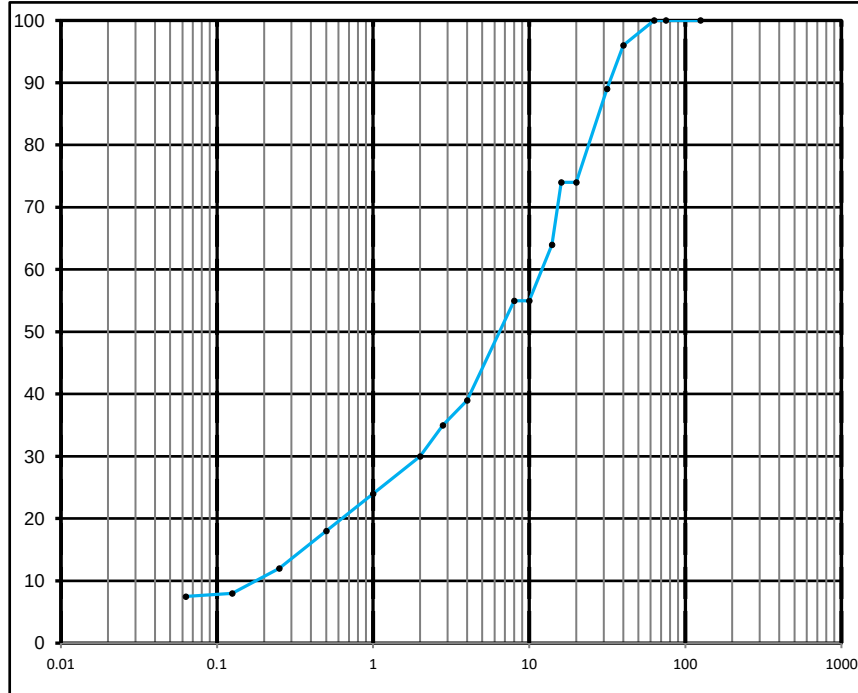
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AM16-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
40.0 mm	96	
31.5 mm	89	
20.0 mm	74	
16.0 mm	74	
14.0 mm	64	
10.0 mm	55	
8.0 mm	55	
4.0 mm	39	
2.8 mm	35	
2.0 mm	30	
1.0 mm	24	
0.500 mm	18	
0.250 mm	12	
0.125 mm	8	
0.063 mm	7.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 March 2021
Test Report Ref: TR 782736

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 March 2021
Test Report Ref: TR 782737

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

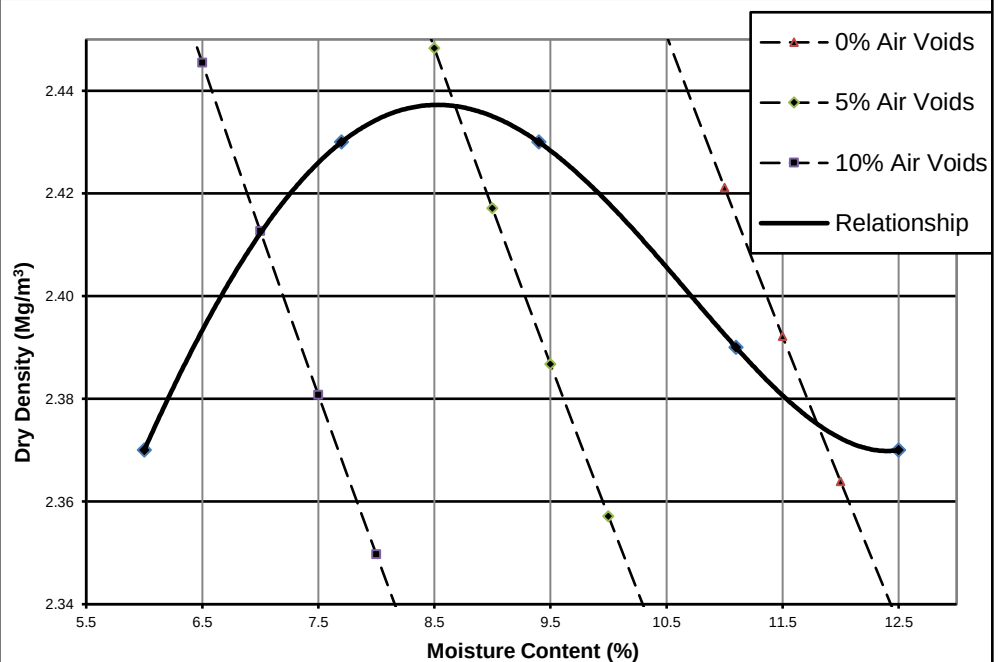
No
S92900
AM16-1
Unknown
04/02/2021
11/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	1 %
Retained on 20mm Sieve:	18 %
Moisture Content (%)	Dry Density Mg/m ³
6.0	2.37
7.7	2.43
9.4	2.43
11.1	2.39
12.5	2.37
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.5	2.44



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782738

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	20/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.66 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.77 Mg/m ³
Apparent Particle density =	2.99 Mg/m ³
Water absorption (of dry mass) =	4.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 May 2021
Test Report Ref: TR 782739

Page 1 of 1

LABORATORY TEST REPORT

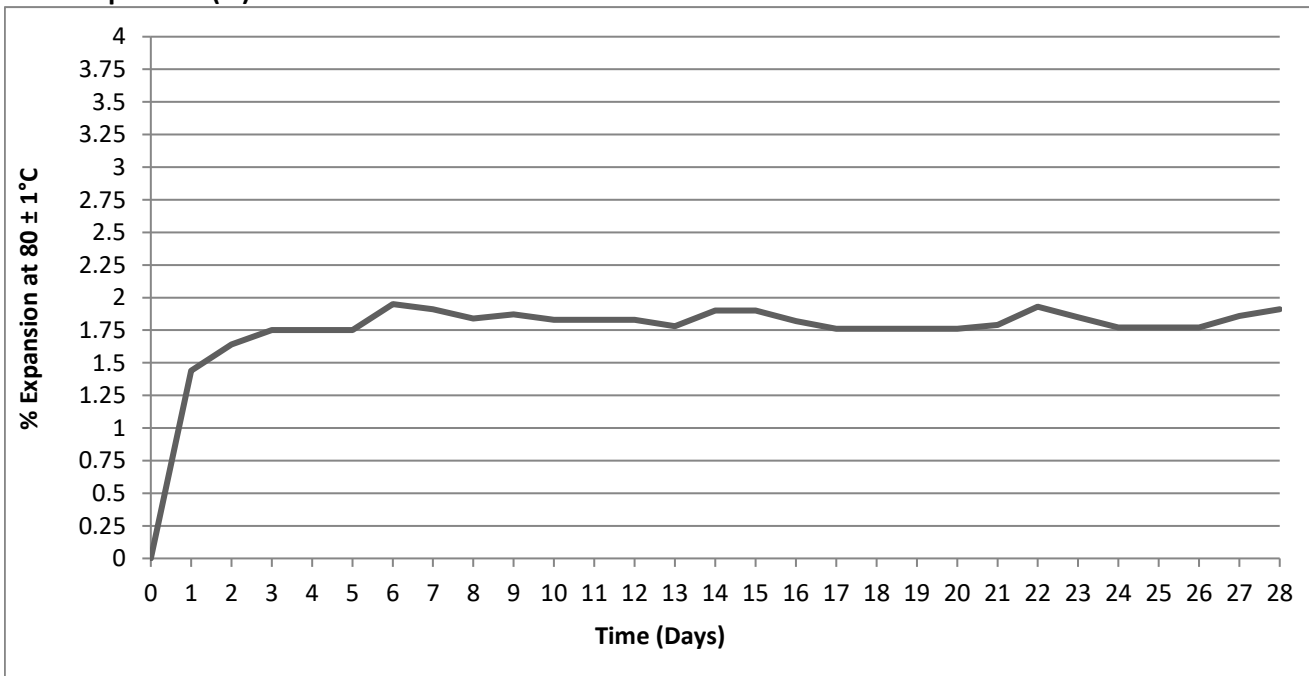
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AM16-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	13/04/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 22

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775861

Page 1 of 1

LABORATORY TEST REPORT

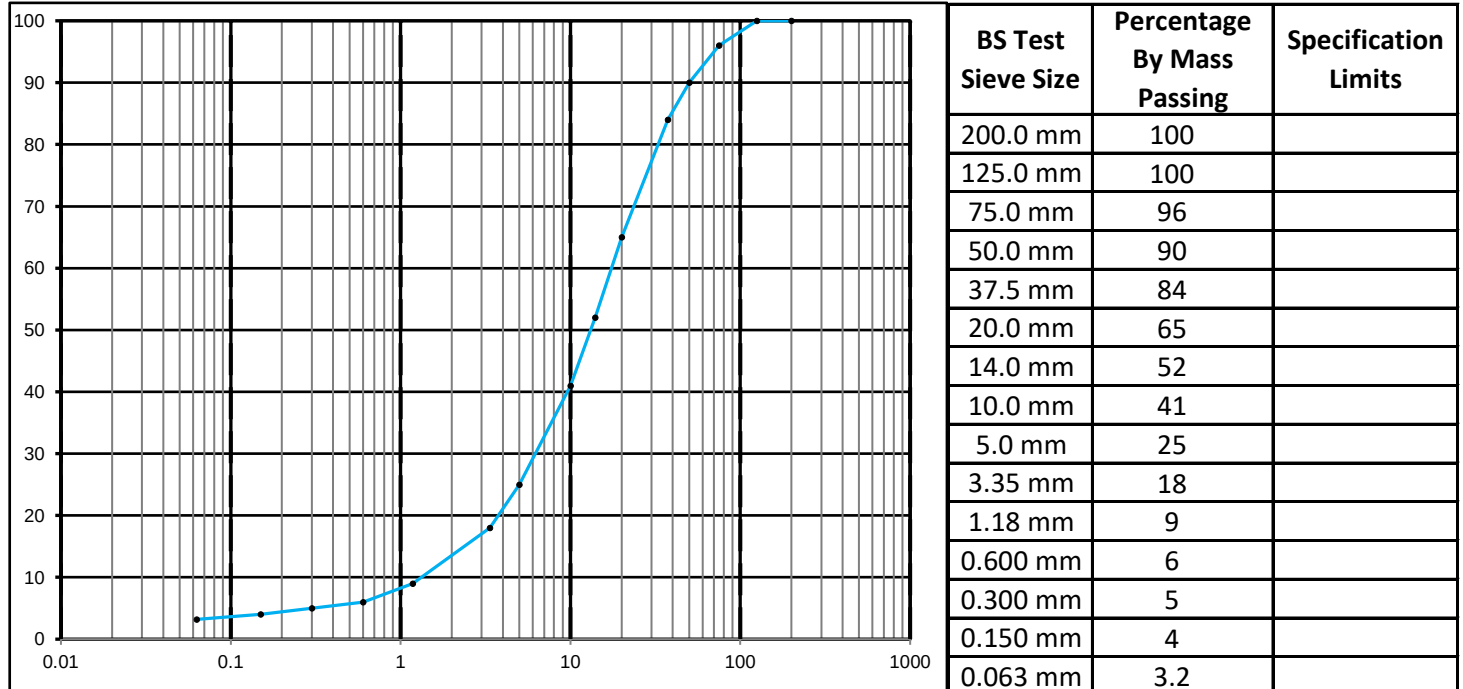
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Llanwern
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AM2-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775862

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AM2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Llanwern
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 7.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 February 2021
Test Report Ref: TR 775863

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

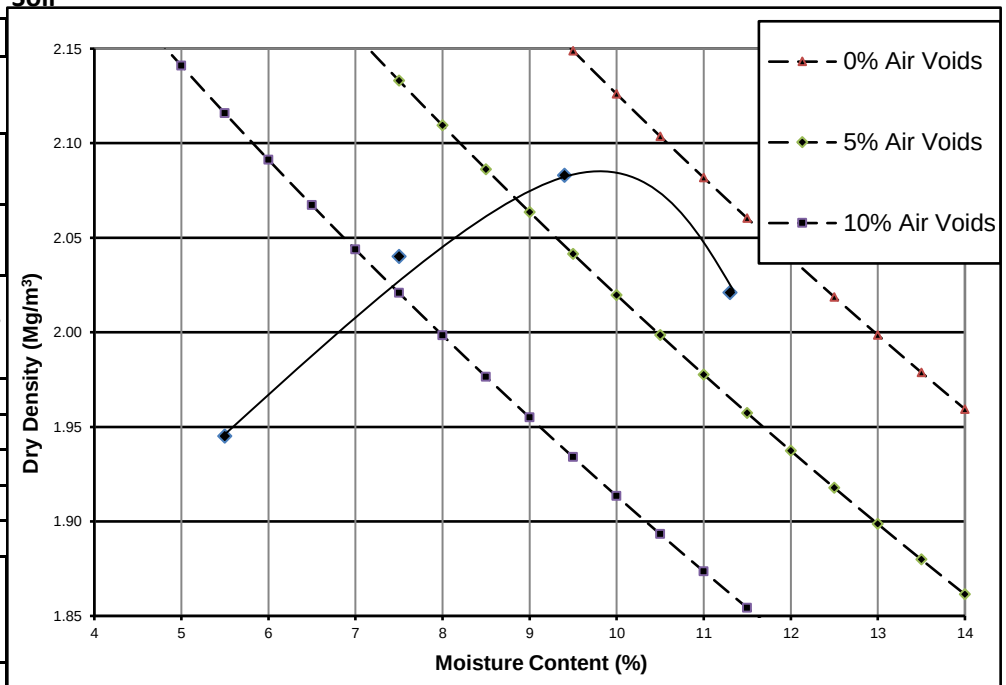
No
S92292
AM2-1
17/12/2020
05/01/2021
20/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.7Mg/m³
(Found using Gas Jar Method)

Retained on 37.5mm Sieve:	10 %
Retained on 20mm Sieve:	23 %
Moisture Content (%)	Dry Density Mg/m ³
5.5	1.95
7.5	2.04
9.4	2.08
10.4	2.47
11.3	2.02
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.7	2.09



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775864

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AM2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.30 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.37 Mg/m ³
Apparent Particle density =	2.48 Mg/m ³
Water absorption (of dry mass) =	3.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775852

Page 1 of 1

LABORATORY TEST REPORT

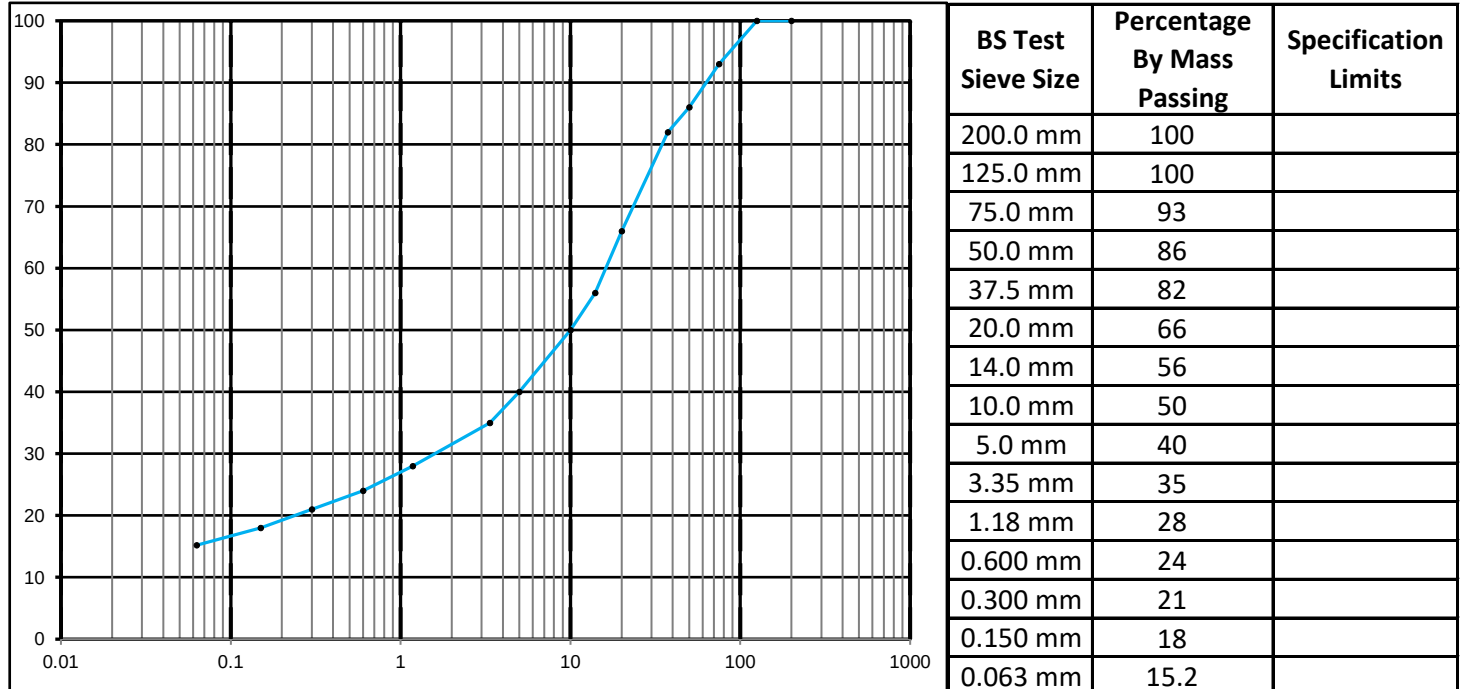
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AN1-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775853

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AN1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DJ
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 775854

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

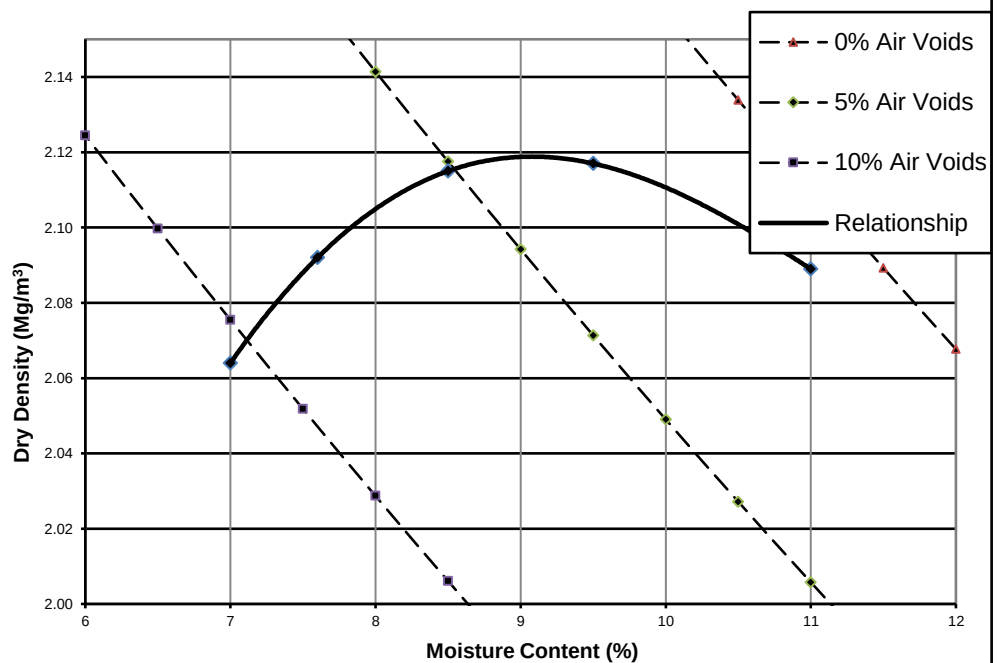
No
S92292
AN1-1
17/12/2020
05/01/2021
22/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	93 %
Retained on 20mm Sieve:	66 %
Moisture Content (%)	Dry Density Mg/m ³
7.0	2.06
7.6	2.09
8.5	2.12
9.5	2.12
11.0	2.09
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
9.1	2.12



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775855

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AN1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.43 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.55 Mg/m ³
Apparent Particle density =	2.76 Mg/m ³
Water absorption (of dry mass) =	4.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777500

Page 1 of 1

LABORATORY TEST REPORT

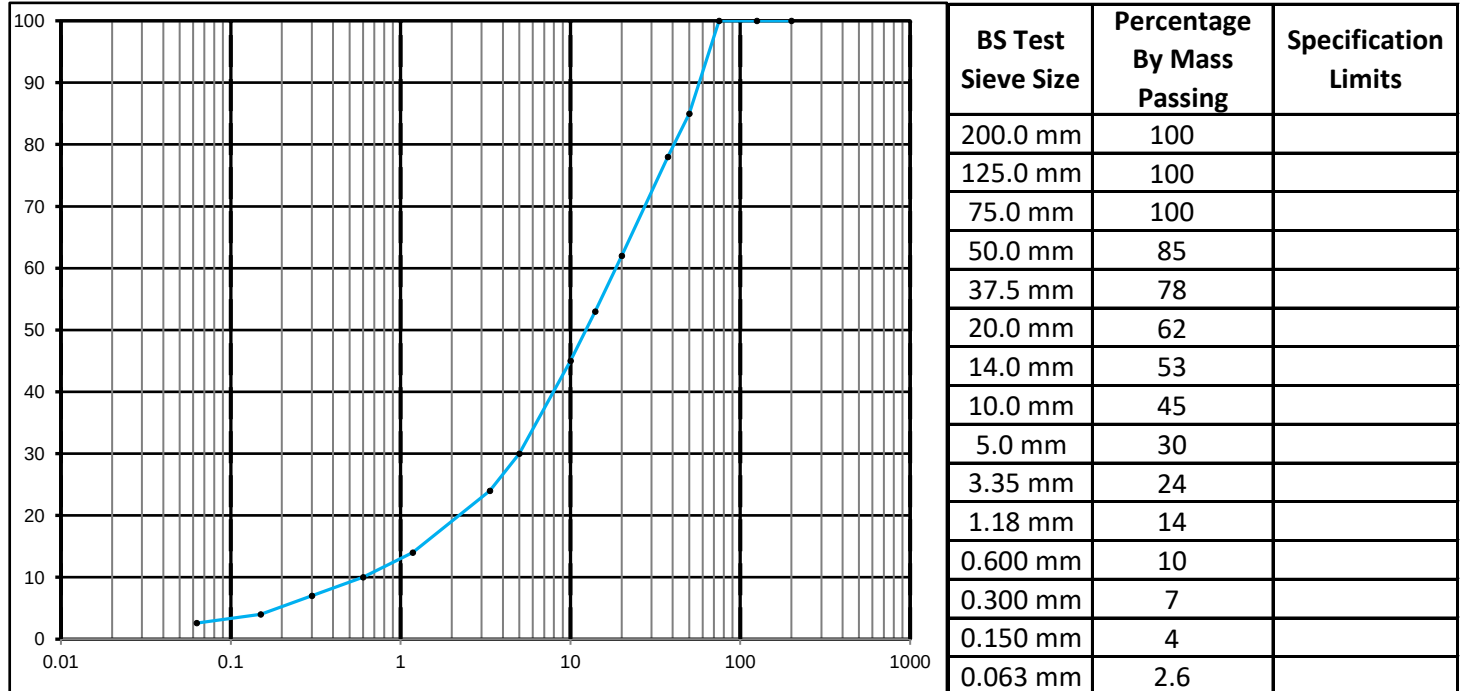
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AN10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777501

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777502

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

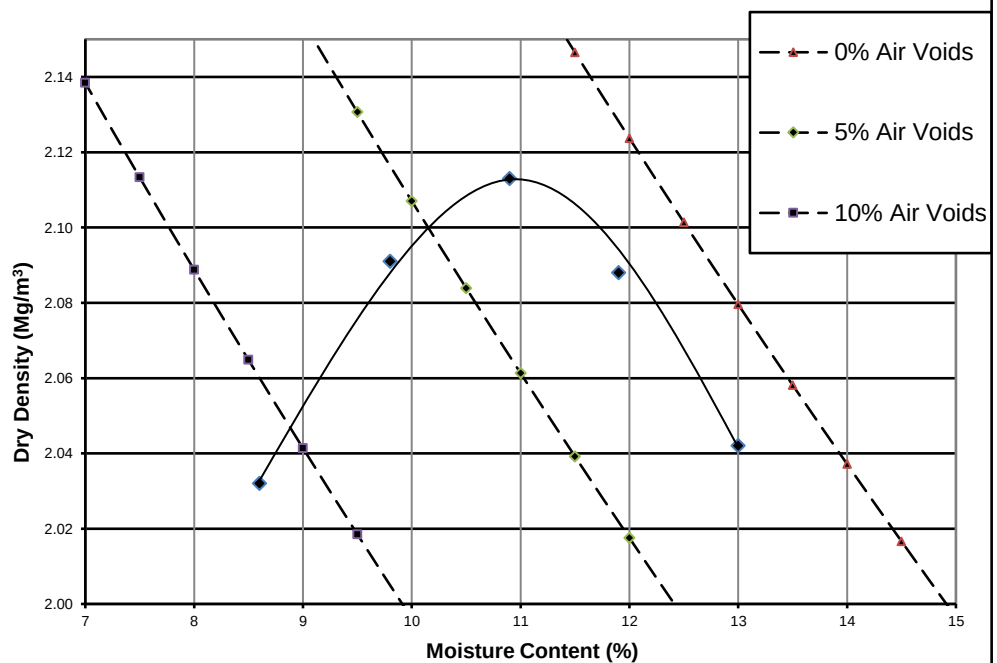
No
S92460
AN10-1
Unknown
14/01/2021
09/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.85Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	27 %
Retained on 20mm Sieve:	56 %
Moisture Content (%)	Dry Density Mg/m ³
8.6	2.03
9.8	2.09
10.9	2.11
11.9	2.09
13.0	2.04
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
11.0	2.11



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777503

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.56 Mg/m ³
Apparent Particle density =	2.71 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777504

Page 1 of 1

LABORATORY TEST REPORT

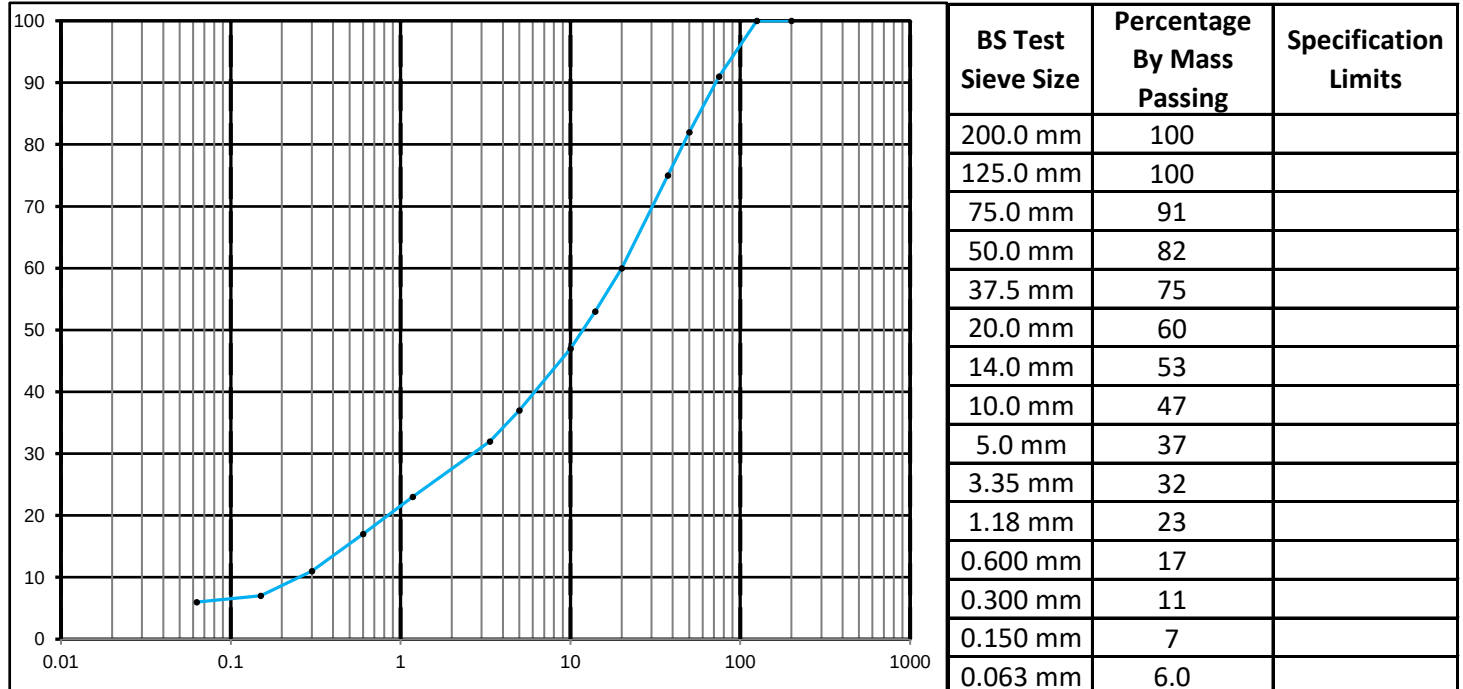
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AN11-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777505

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 17.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 February 2021
Test Report Ref: TR 777506

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

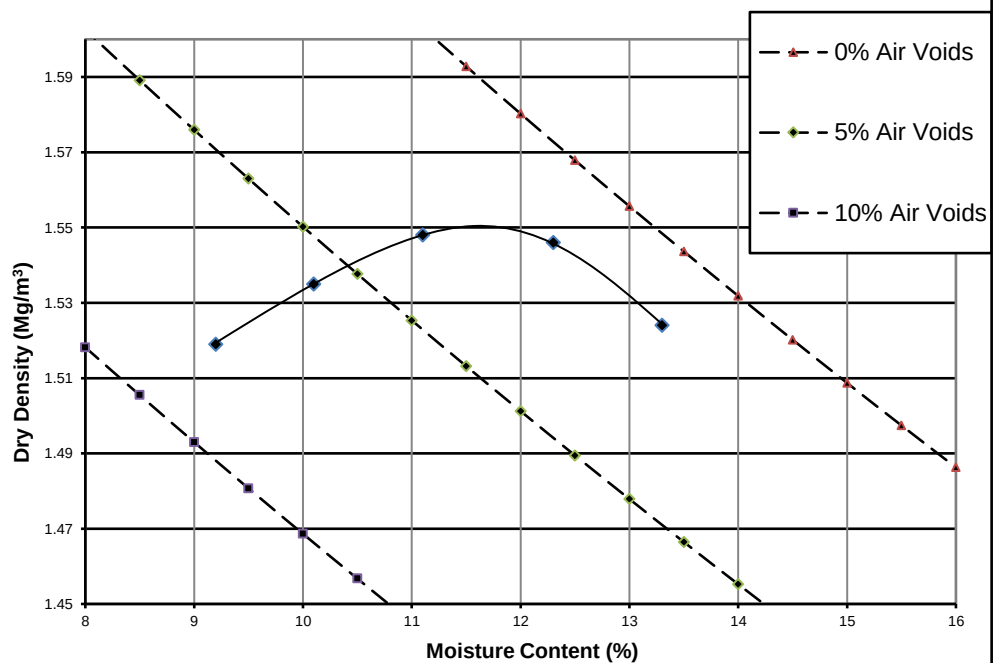
No
S92460
AN11-1
Unknown
14/01/2021
01/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 1.95Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	29 %
Moisture Content (%)	Dry Density Mg/m ³
9.2	1.52
10.1	1.54
11.1	1.55
12.3	1.55
13.3	1.52
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
12.0	1.55



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777507

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.83 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.93 Mg/m ³
Apparent Particle density =	2.04 Mg/m ³
Water absorption (of dry mass) =	5.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777508

Page 1 of 1

LABORATORY TEST REPORT

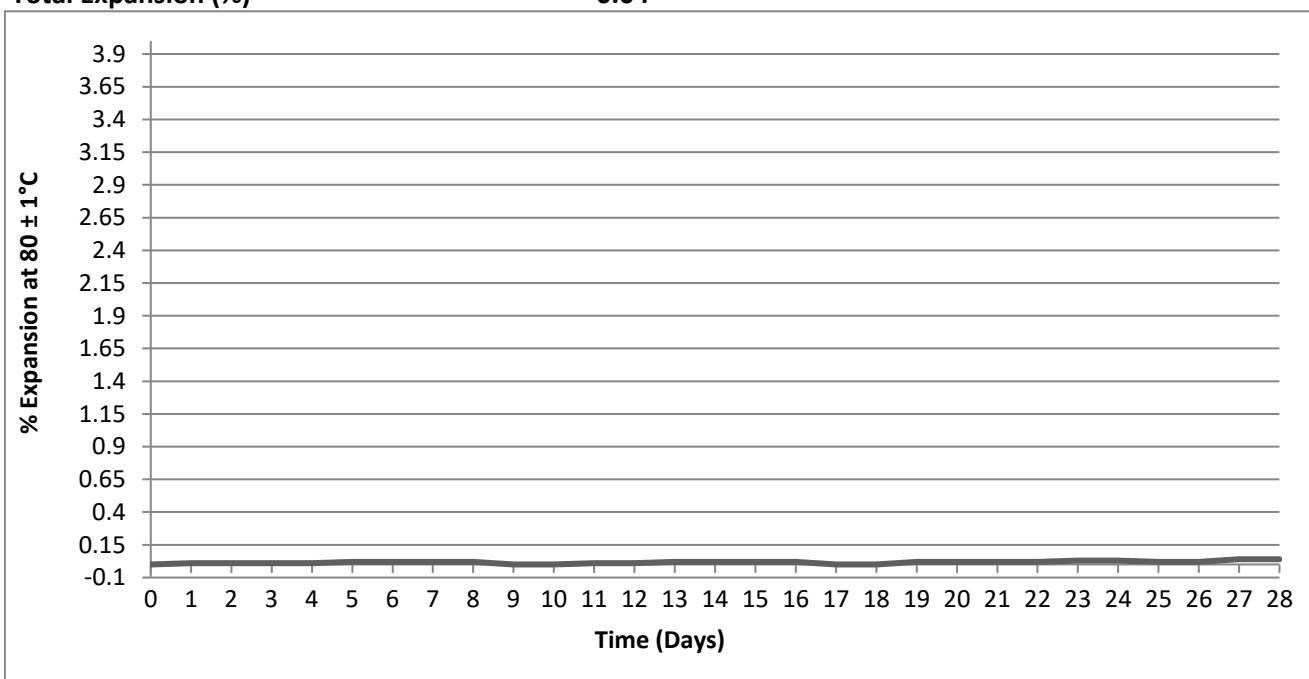
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.04



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 35

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777509

Page 1 of 1

LABORATORY TEST REPORT

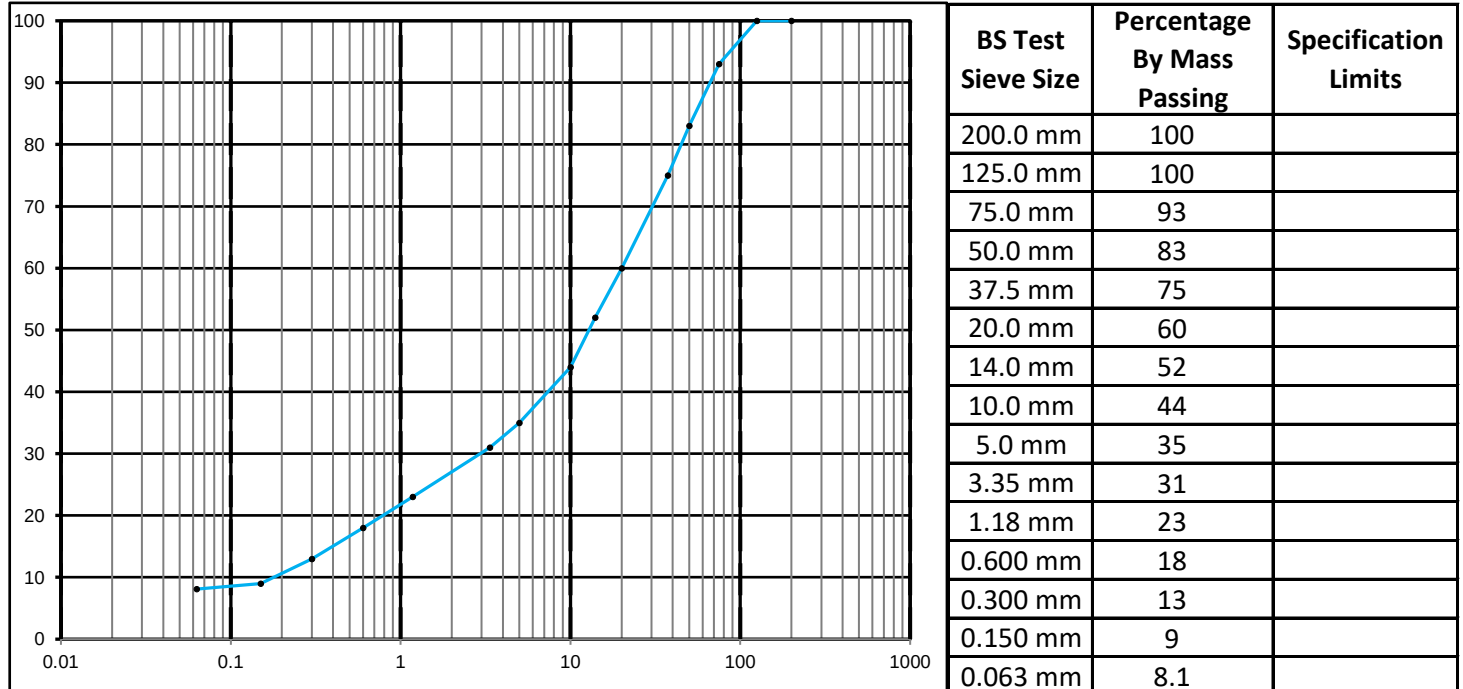
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AN12-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777510

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: <i>S Parry</i> Sharon Parry Aggregate Team Coordinator
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777511

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

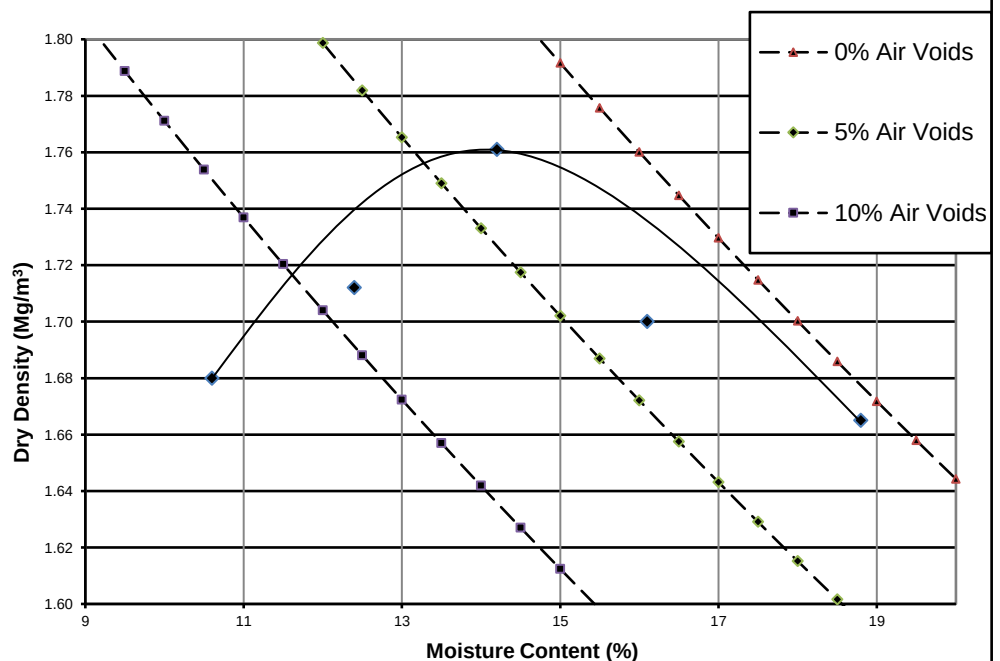
No
S92460
AN12-1
Unknown
14/01/2021
09/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.45Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	32 %
Retained on 20mm Sieve:	43 %
Moisture Content (%)	Dry Density Mg/m ³
10.6	1.68
12.4	1.71
14.2	1.76
16.1	1.70
18.8	1.67
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
15.0	1.76



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777512

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.26 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.36 Mg/m ³
Apparent Particle density =	2.50 Mg/m ³
Water absorption (of dry mass) =	4.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777513

Page 1 of 1

LABORATORY TEST REPORT

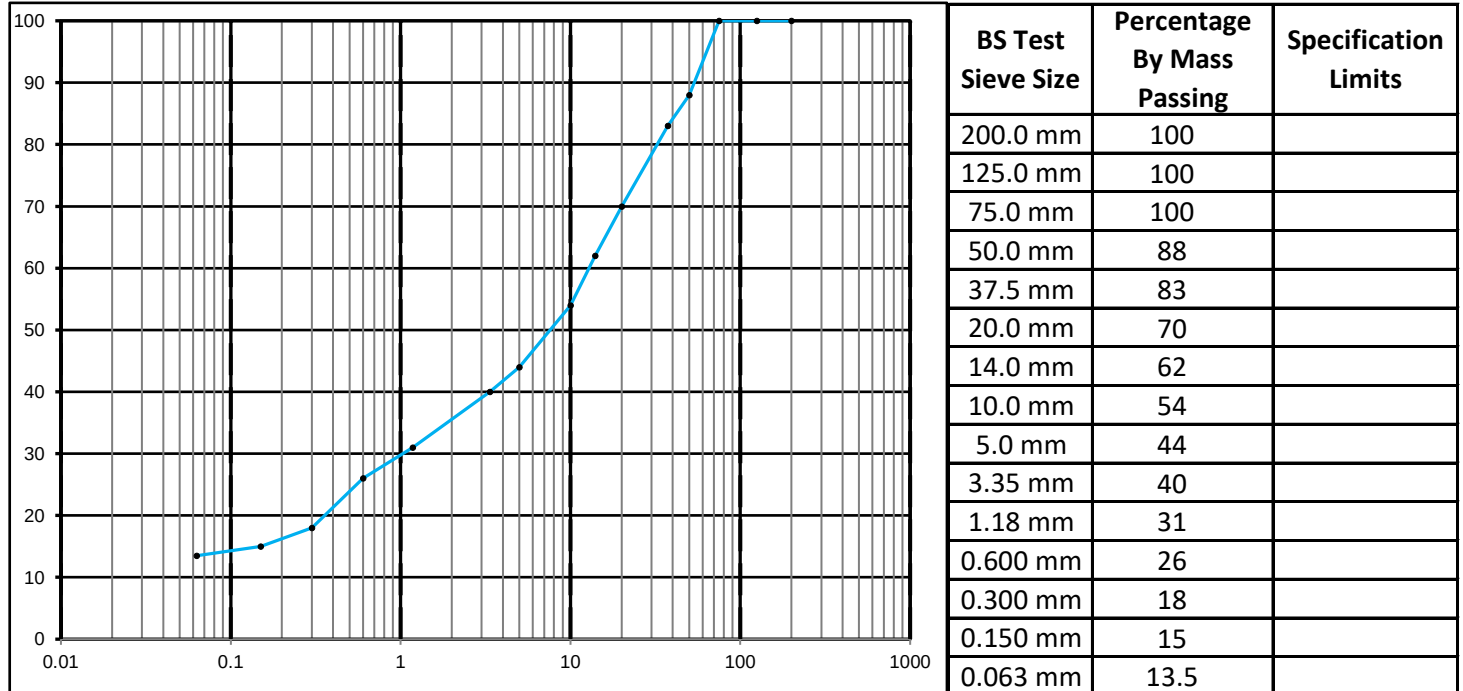
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AN13-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777514

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.0

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777515

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

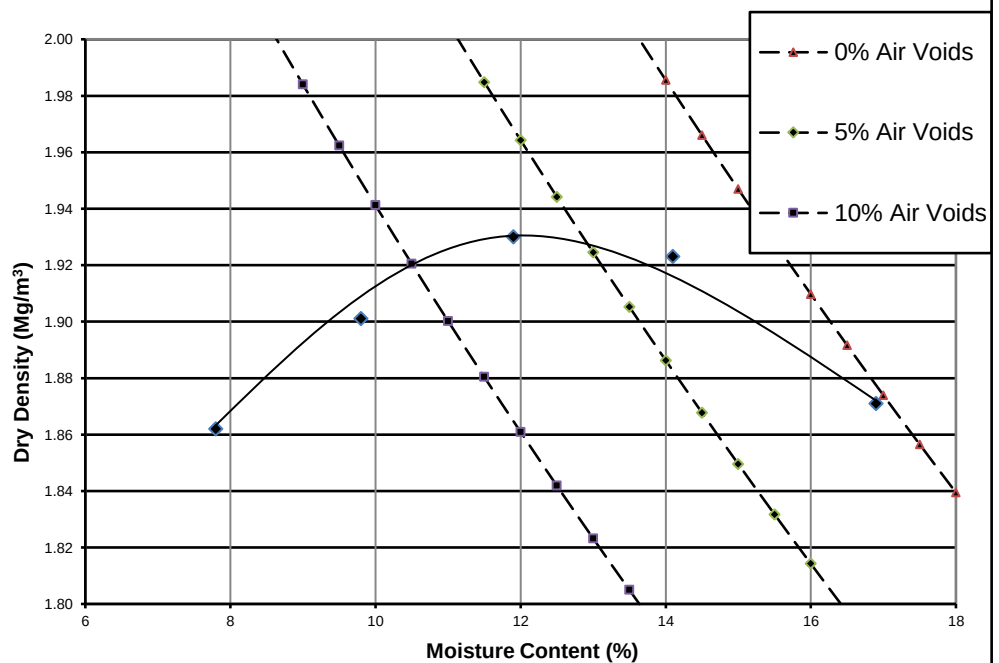
No
S92460
AN13-1
Unknown
14/01/2021
10/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Separate**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	15 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
7.8	1.86
9.8	1.90
11.9	1.93
14.1	1.92
16.9	1.87
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.93



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777516

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.35 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.45 Mg/m ³
Apparent Particle density =	2.62 Mg/m ³
Water absorption (of dry mass) =	4.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777517

Page 1 of 1

LABORATORY TEST REPORT

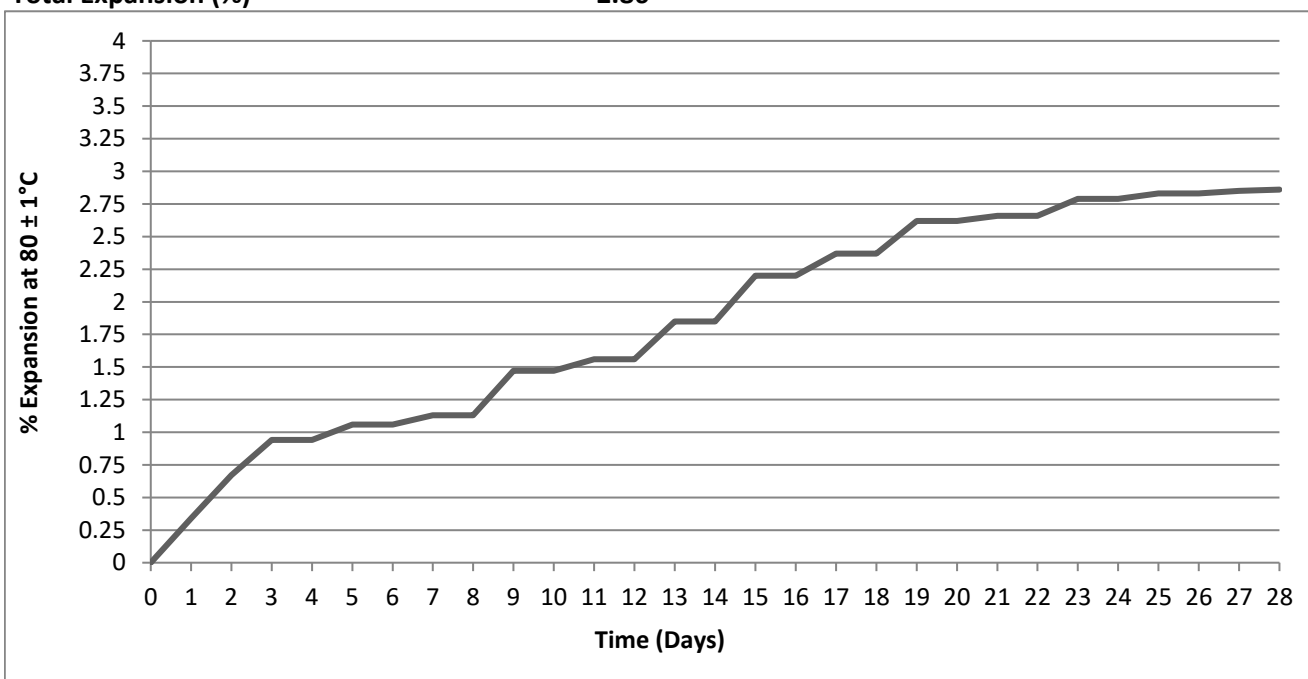
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 2.86



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 26

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777518

Page 1 of 1

LABORATORY TEST REPORT

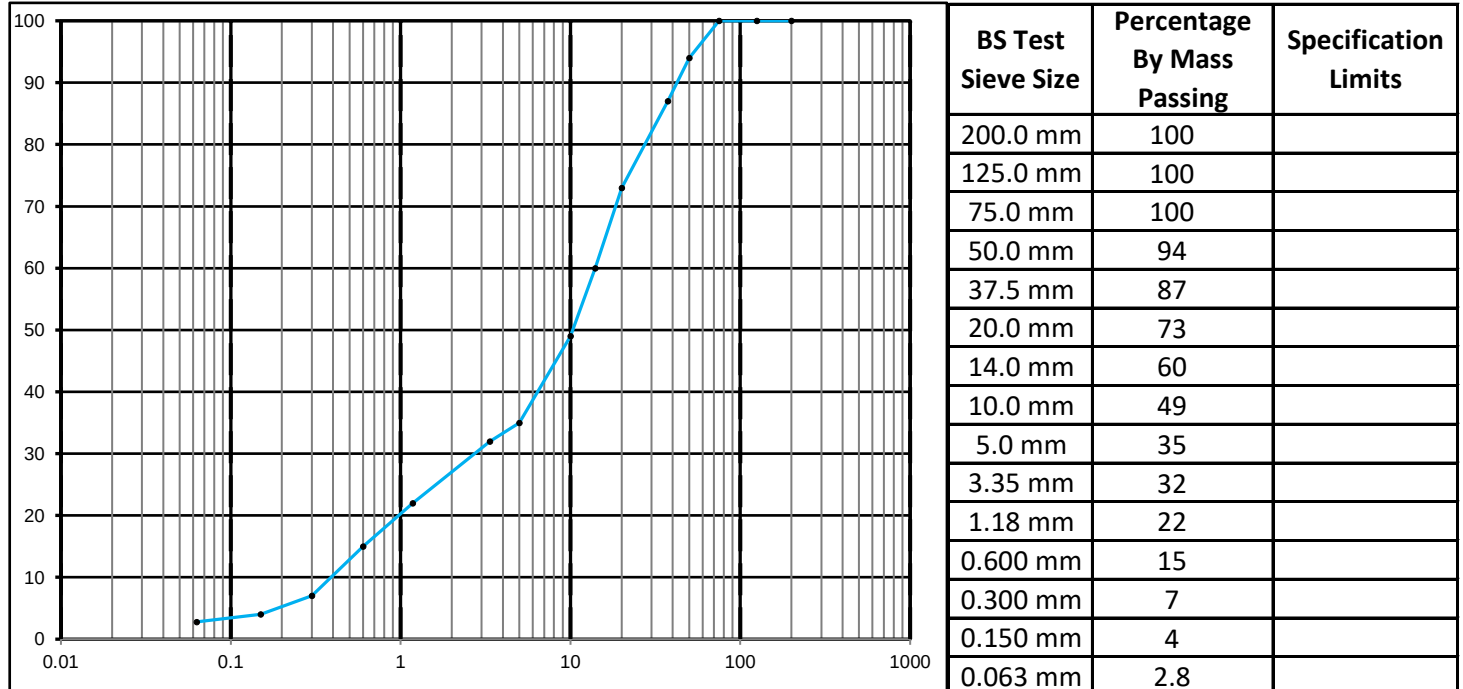
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AN14-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777519

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777520

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

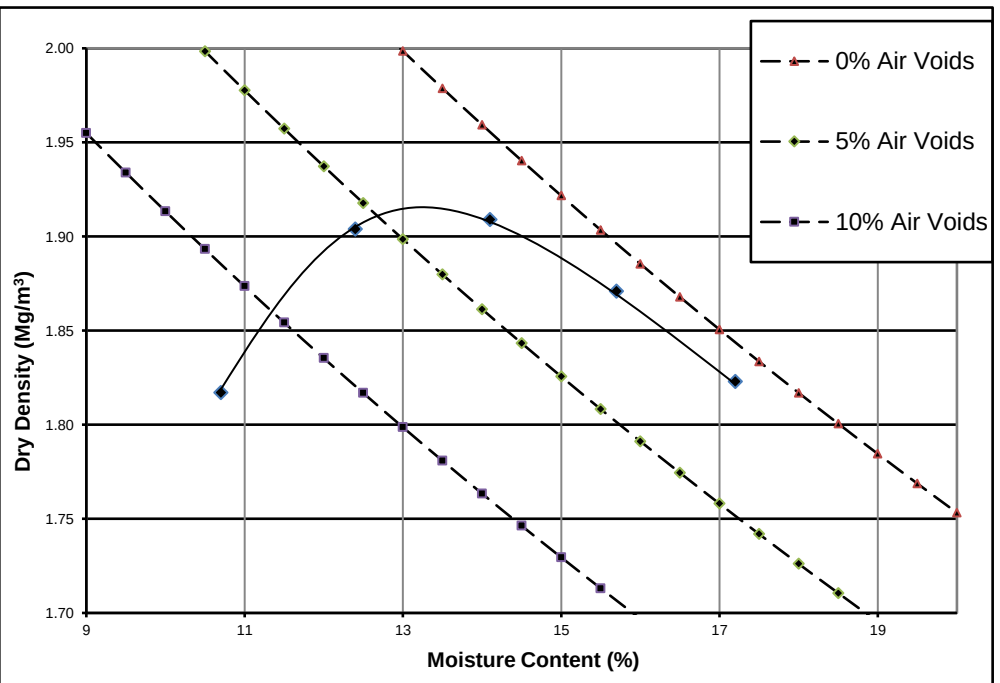
No
S92460
AN14-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	96 %
Retained on 20mm Sieve:	86 %
Moisture Content (%)	Dry Density Mg/m ³
10.7	1.82
12.4	1.90
14.1	1.91
15.7	1.87
17.2	1.82
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.92



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 March 2021
Test Report Ref: TR 777521

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AN14-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.30 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.41 Mg/m ³
Apparent Particle density =	2.58 Mg/m ³
Water absorption (of dry mass) =	4.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968587

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

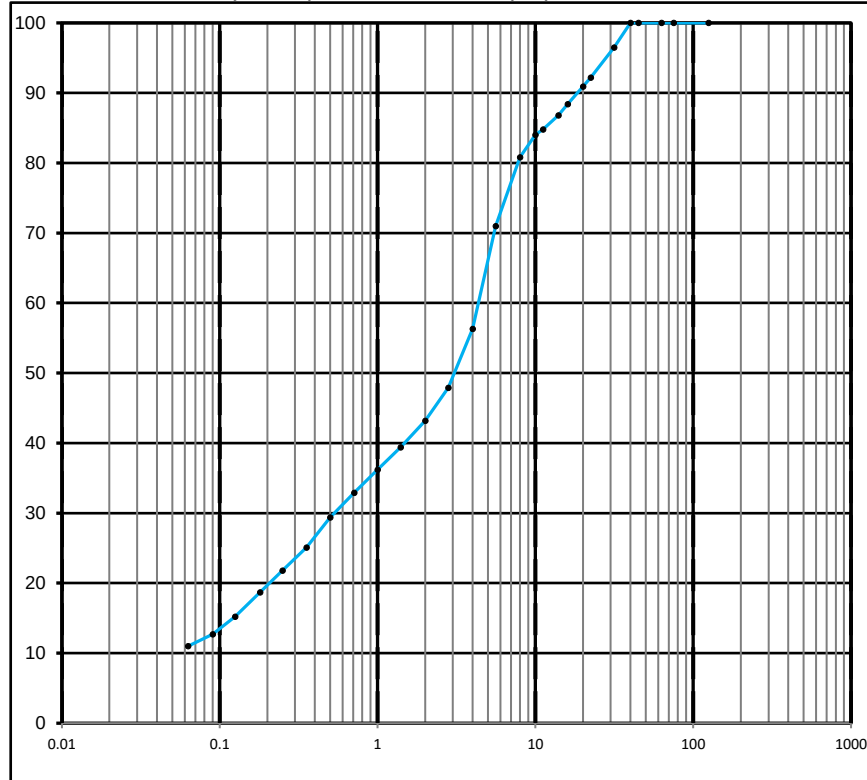
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AN2-1 @ 1.70M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	05/06/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AN2-1 @ 1.70M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	100	
31.5 mm	97	
22.4 mm	92	
20.0 mm	91	
16.0 mm	88	
14.0 mm	87	
11.2 mm	85	
10.0 mm	84	
8.0 mm	81	
5.6 mm	71	
4.0 mm	56	
2.8 mm	48	
2.0 mm	43	
1.4 mm	39	
1.0 mm	36	
0.710 mm	33	
0.500 mm	29	
0.355 mm	25	
0.250 mm	22	
0.180 mm	19	
0.125 mm	15	
0.090 mm	13	
0.063 mm	11.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 August 2023
Test Report Ref: TR 968588

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AN2-1 @ 1.70M
Date and Time of Sampling:	05/06/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	26/07/2023
Sampling Location:	AN2-1 @ 1.70M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 27 November 2023
Test Report Ref: TR 968589

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

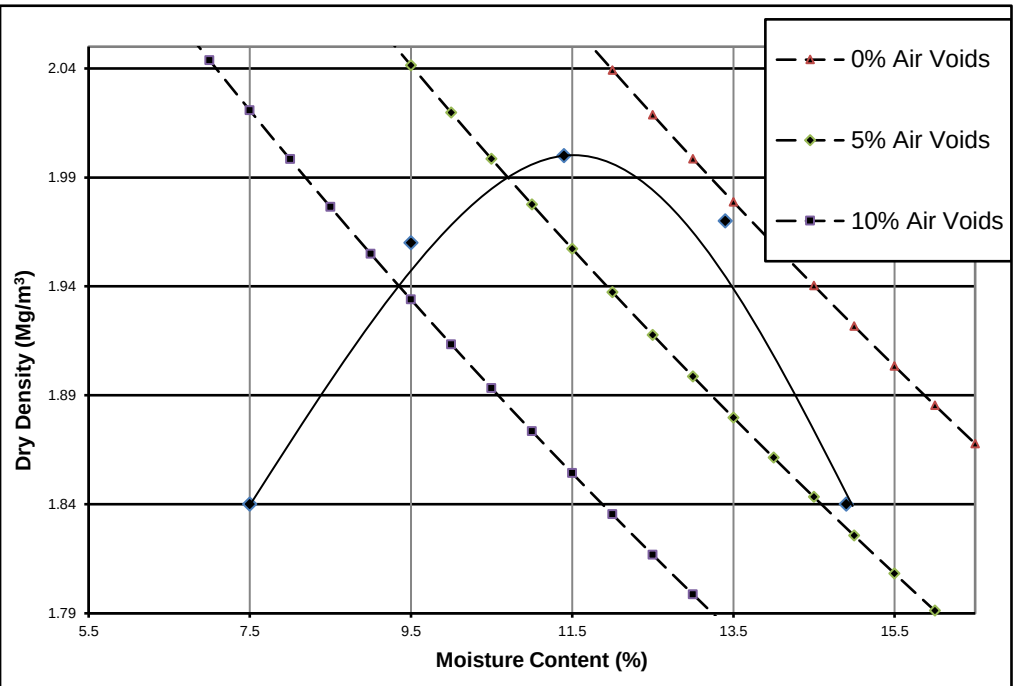
No
S112528
AN2-1 @ 1.70M
05/06/2023
25/07/2023
24/11/2023
AN2-1 @ 1.70M
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **MS**
Sample Preparation Procedure: **3.5.4.2**
Sample Preparation Method: **Separate batches**

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	0
Retained on 20mm Sieve:	5
Moisture Content (%)	Dry Density Mg/m ³
7.5	1.84
9.5	1.96
11.4	2.00
13.4	1.97
14.9	1.84
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.5	2.00



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Laboratory Operations Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 August 2023
Test Report Ref: TR 968590

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AN2-1 @ 1.70M
Date and Time of Sampling:	05/06/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	03/08/2023
Sampling Location:	AN2-1 @ 1.70M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	1.14 Mg/m ³
Particle density on a saturated and surface-dried basis =	1.36 Mg/m ³
Apparent Particle density =	1.46 Mg/m ³
Water absorption (of dry mass) =	19.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

very lightweight material

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784166

Page 1 of 1

LABORATORY TEST REPORT

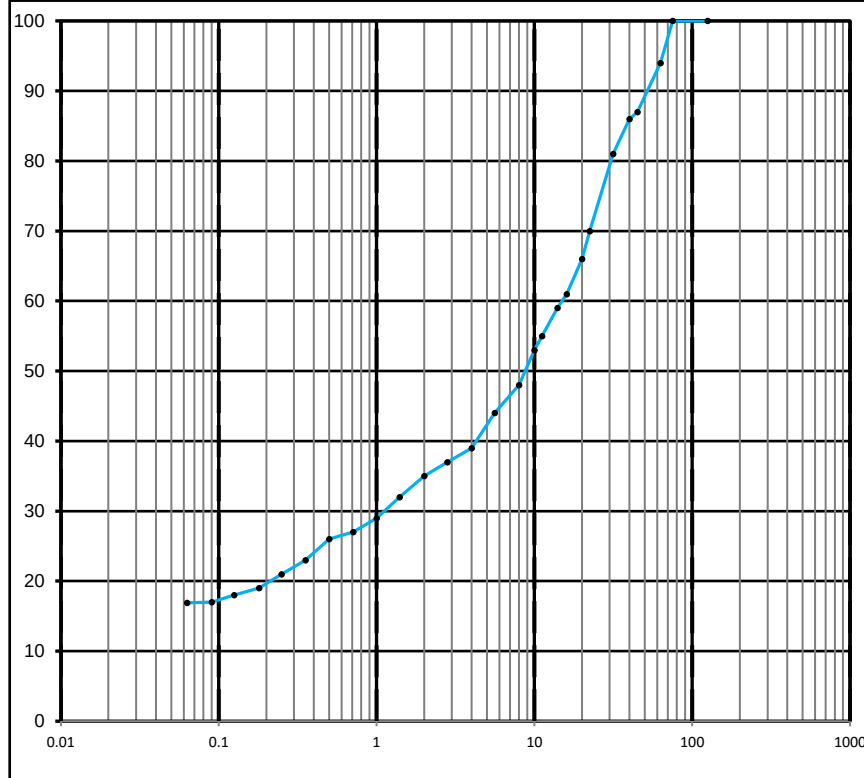
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AN6-1 - 0.3m	Sampled By:	Client
Date and Time of Sampling:	22/01/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	94	
45.0 mm	87	
40.0 mm	86	
31.5 mm	81	
22.4 mm	70	
20.0 mm	66	
16.0 mm	61	
14.0 mm	59	
11.2 mm	55	
10.0 mm	53	
8.0 mm	48	
5.6 mm	44	
4.0 mm	39	
2.8 mm	37	
2.0 mm	35	
1.4 mm	32	
1.0 mm	29	
0.710 mm	27	
0.500 mm	26	
0.355 mm	23	
0.250 mm	21	
0.180 mm	19	
0.125 mm	18	
0.090 mm	17	
0.063 mm	16.9	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784167

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AN6-1 - 0.3m
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 16.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 21 April 2021
Test Report Ref: TR 784168

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

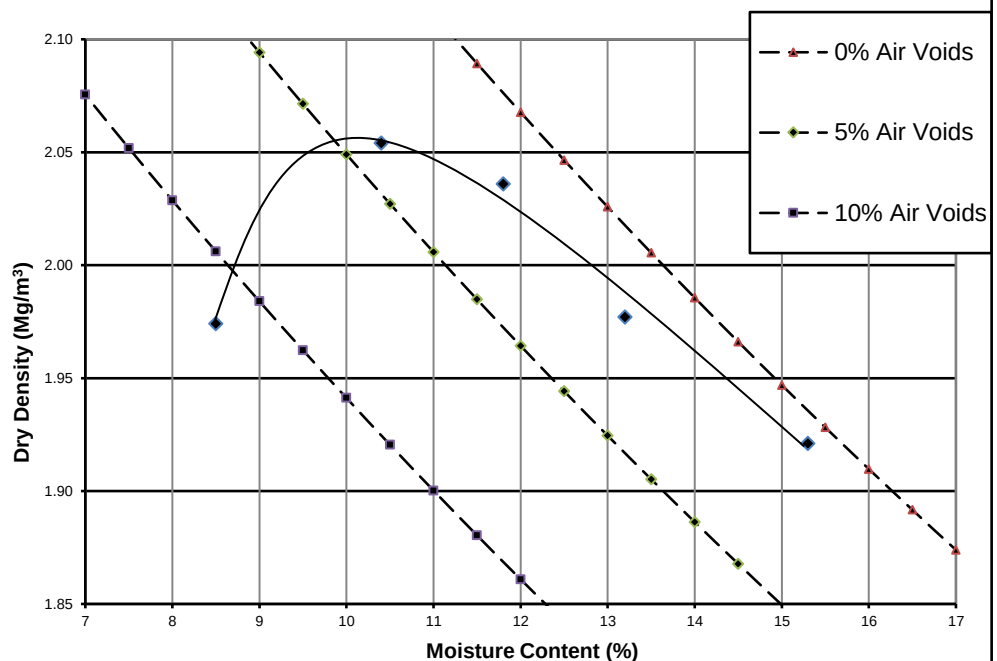
No
S93086
AN6-1 - 0.3m
22/01/2021
12/02/2021
16/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **Zone X**
Sample Preparation Method:

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	31 %
Moisture Content (%)	Dry Density Mg/m ³
8.5	1.97
10.4	2.05
11.8	2.04
13.2	1.98
15.3	1.92
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
10.0	2.06



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784169

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AN6-1 - 0.3m
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.45 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.53 Mg/m ³
Apparent Particle density =	2.67 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 June 2021
Test Report Ref: TR 784173

Page 1 of 1

LABORATORY TEST REPORT

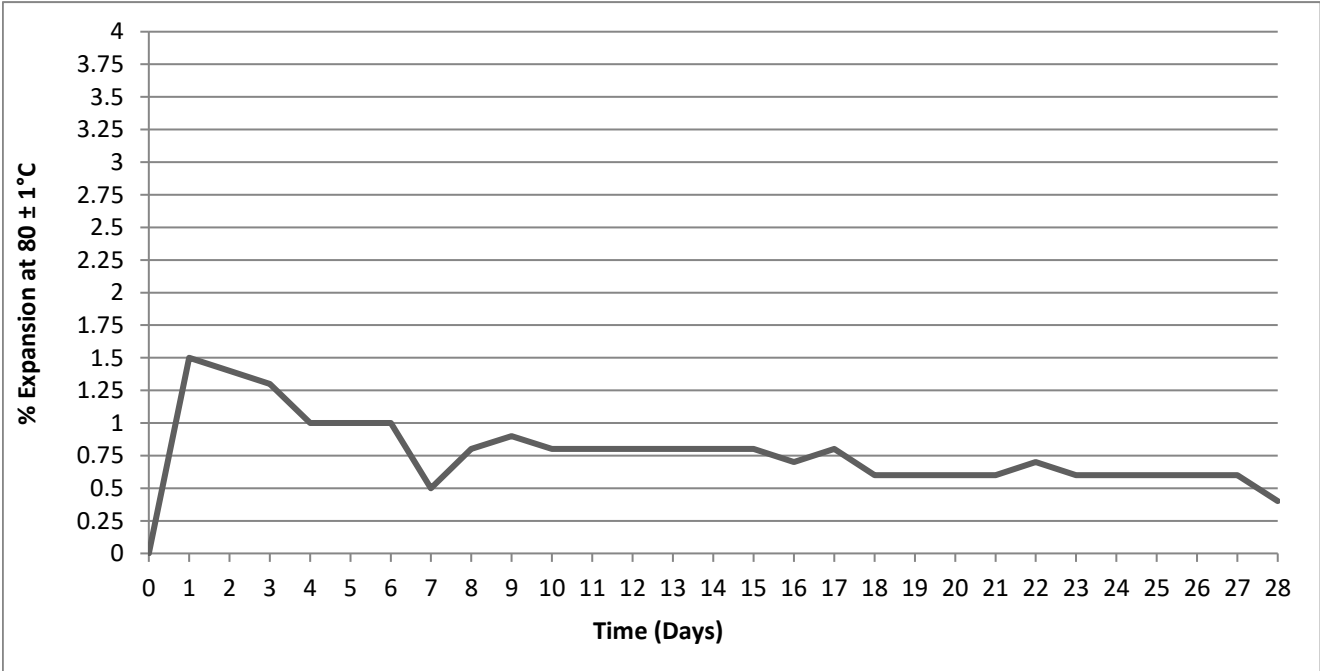
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AN6-1 - 0.3m
Date and Time of Sampling:	22/01/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	10/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.4



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 34

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775847

Page 1 of 1

LABORATORY TEST REPORT

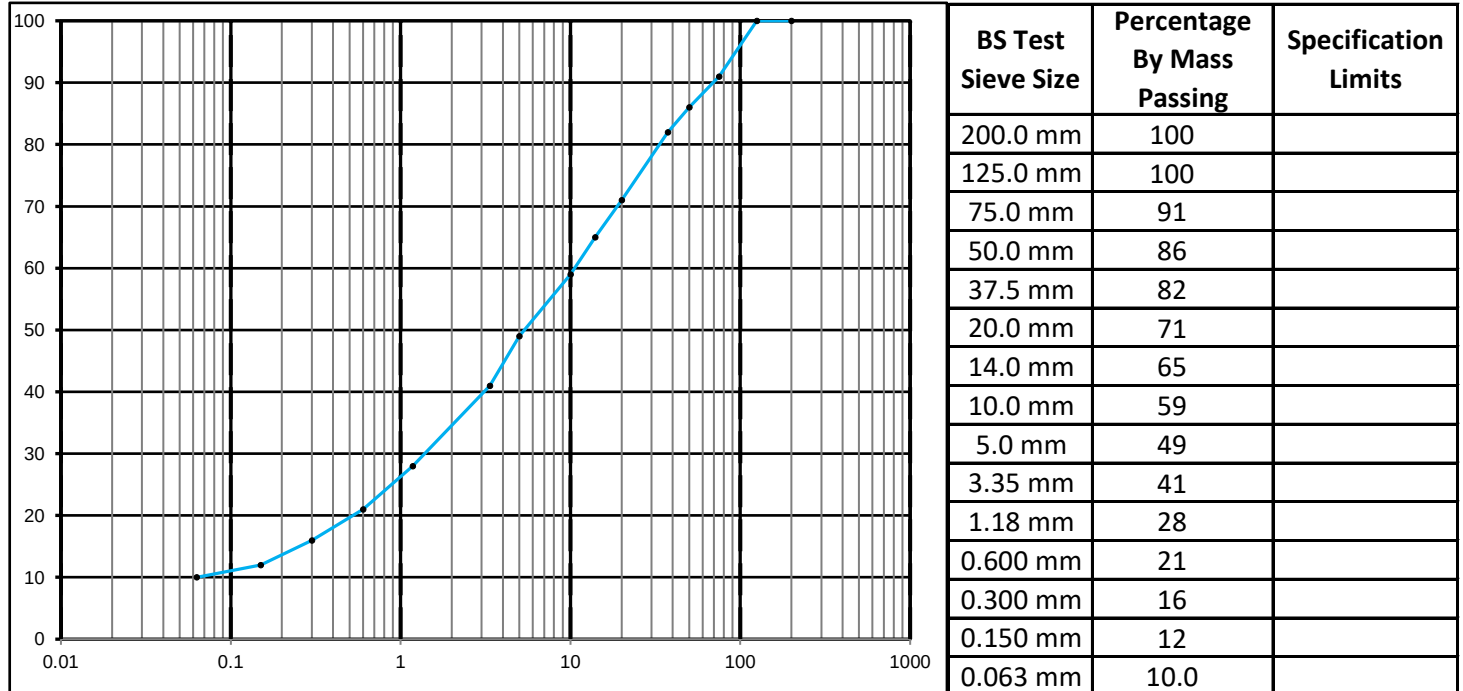
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Llanwern
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AO1-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775848

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AO1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Llanwern
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 February 2021
Test Report Ref: TR 775849

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

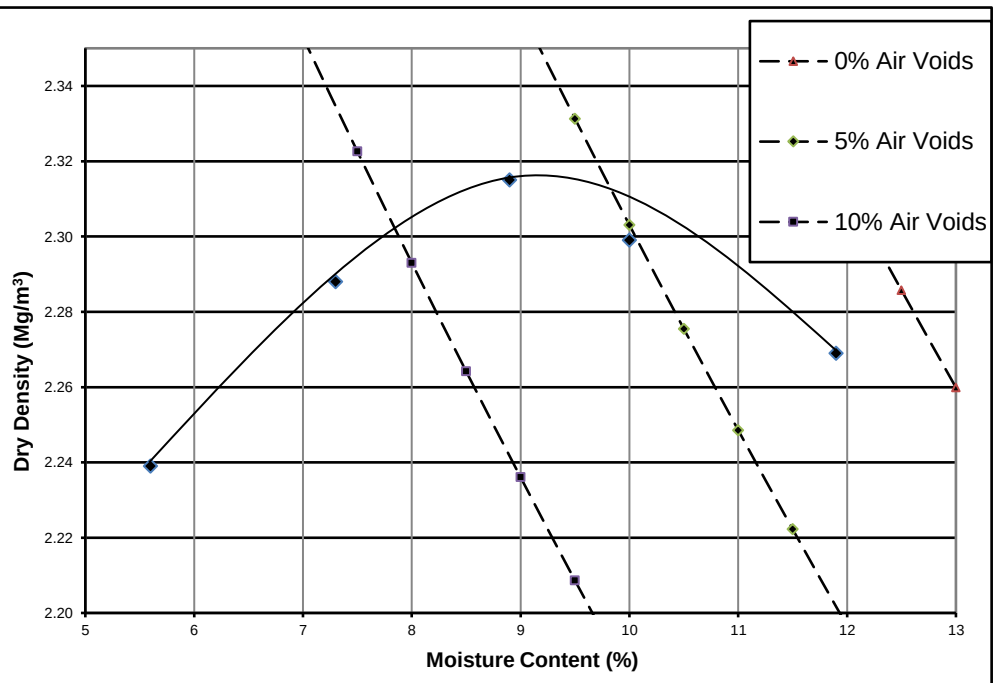
No
S92292
AO1-1
17/12/2020
05/01/2021
20/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	1 %
Retained on 20mm Sieve:	4 %
Moisture Content (%)	Dry Density Mg/m ³
5.6	2.24
7.3	2.29
8.9	2.32
10.0	2.30
11.9	2.27
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.8	2.32



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775850

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AO1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	11/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.43 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.55 Mg/m ³
Apparent Particle density =	2.78 Mg/m ³
Water absorption (of dry mass) =	5.1 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775851

Page 1 of 1

LABORATORY TEST REPORT

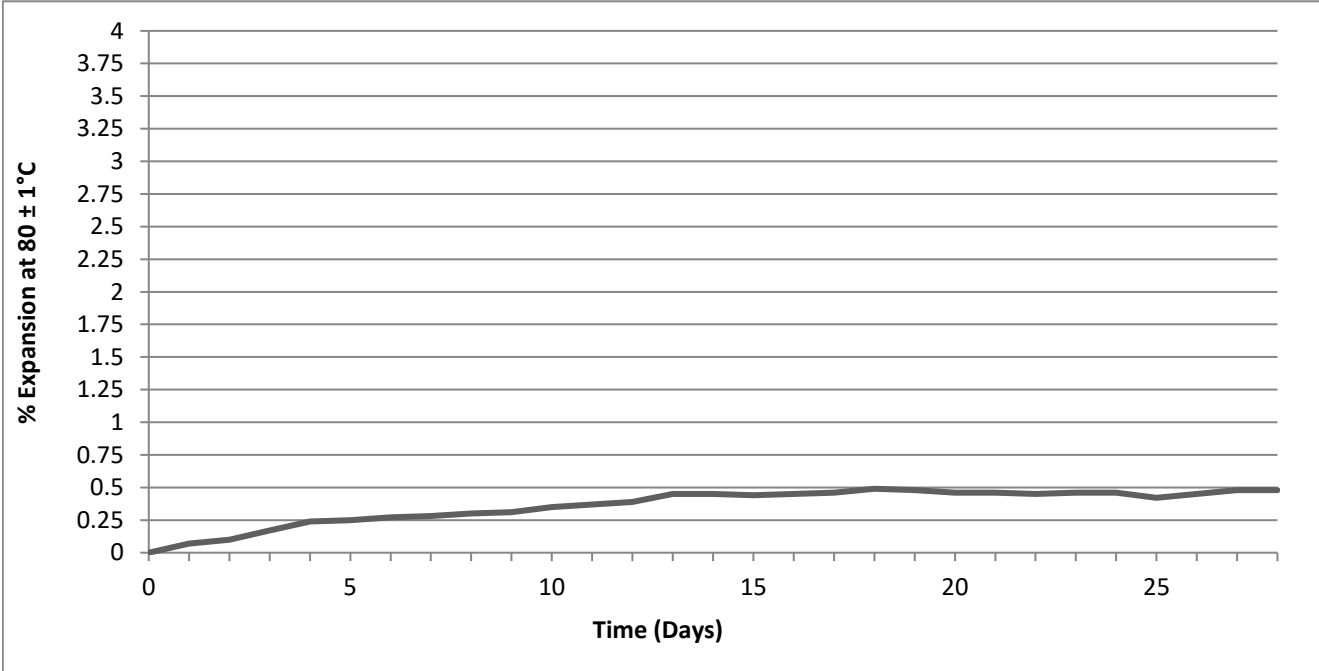
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AO1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.48



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 27

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 March 2021
Test Report Ref: TR 782695

Page 1 of 1

LABORATORY TEST REPORT

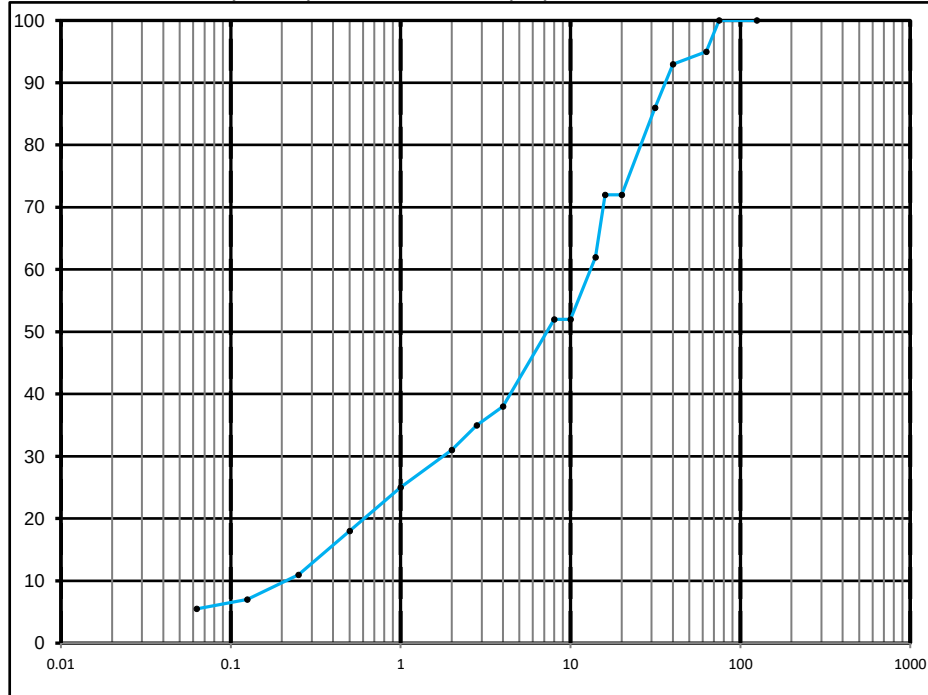
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AO12-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	95	
40.0 mm	93	
31.5 mm	86	
20.0 mm	72	
16.0 mm	72	
14.0 mm	62	
10.0 mm	52	
8.0 mm	52	
4.0 mm	38	
2.8 mm	35	
2.0 mm	31	
1.0 mm	25	
0.500 mm	18	
0.250 mm	11	
0.125 mm	7	
0.063 mm	5.5	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 March 2021
Test Report Ref: TR 782696

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AO12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test result apply to sample as received)
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 18.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 09 April 2021
Test Report Ref: TR 782697

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

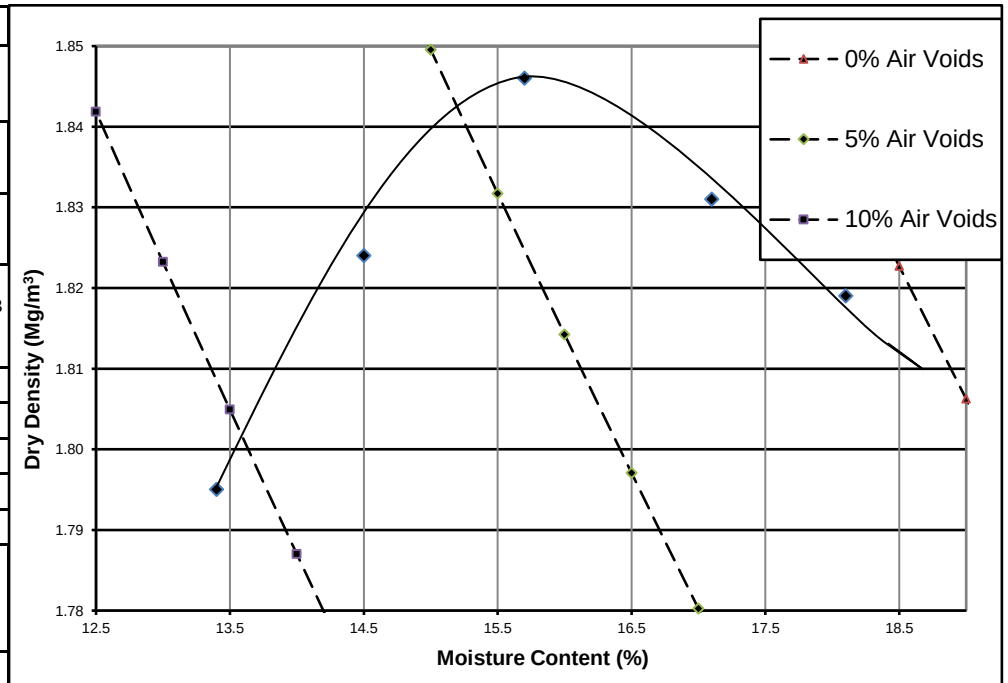
No **S92900**
AO12-1
Unknown
04/02/2021
06/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	17 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
13.4	1.80
14.5	1.82
15.7	1.85
17.1	1.83
18.1	1.82
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
16.0	1.84



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 March 2021
Test Report Ref: TR 782698

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AO12-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	11/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.21 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.32 Mg/m ³
Apparent Particle density =	2.48 Mg/m ³
Water absorption (of dry mass) =	4.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 March 2021
Test Report Ref: TR 782690

Page 1 of 1

LABORATORY TEST REPORT

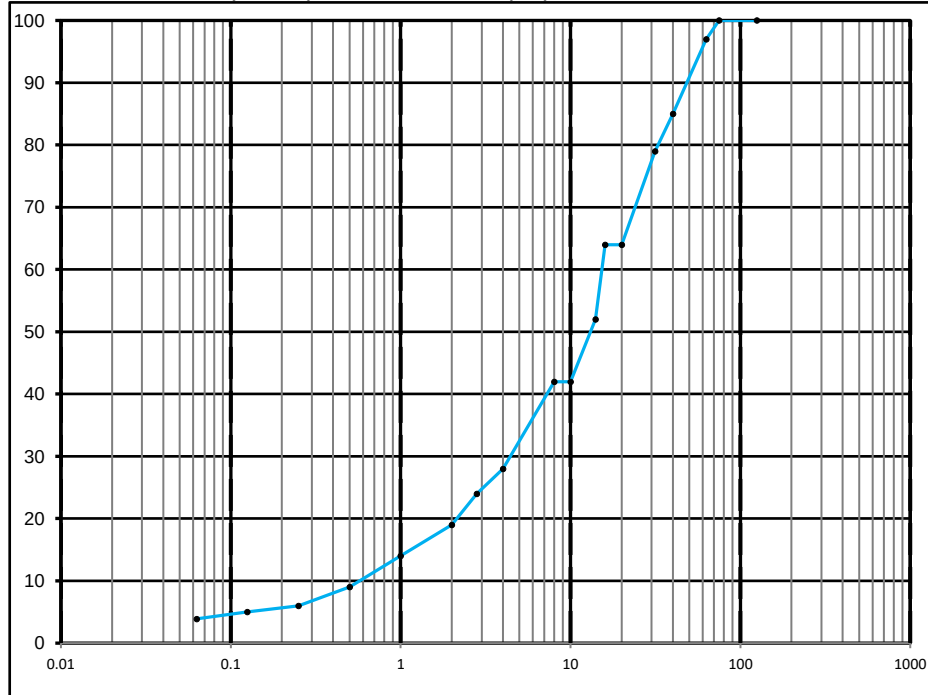
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92900	Method of Sampling:	Unknown
Client Ref. No:	AO13-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	04/02/2021		
Date of Start of Test:	18/02/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	97	
40.0 mm	85	
31.5 mm	79	
20.0 mm	64	
16.0 mm	64	
14.0 mm	52	
10.0 mm	42	
8.0 mm	42	
4.0 mm	28	
2.8 mm	24	
2.0 mm	19	
1.0 mm	14	
0.500 mm	9	
0.250 mm	6	
0.125 mm	5	
0.063 mm	3.9	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 March 2021
Test Report Ref: TR 782691

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AO13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	18/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test result apply to sample as received)
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 782692

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

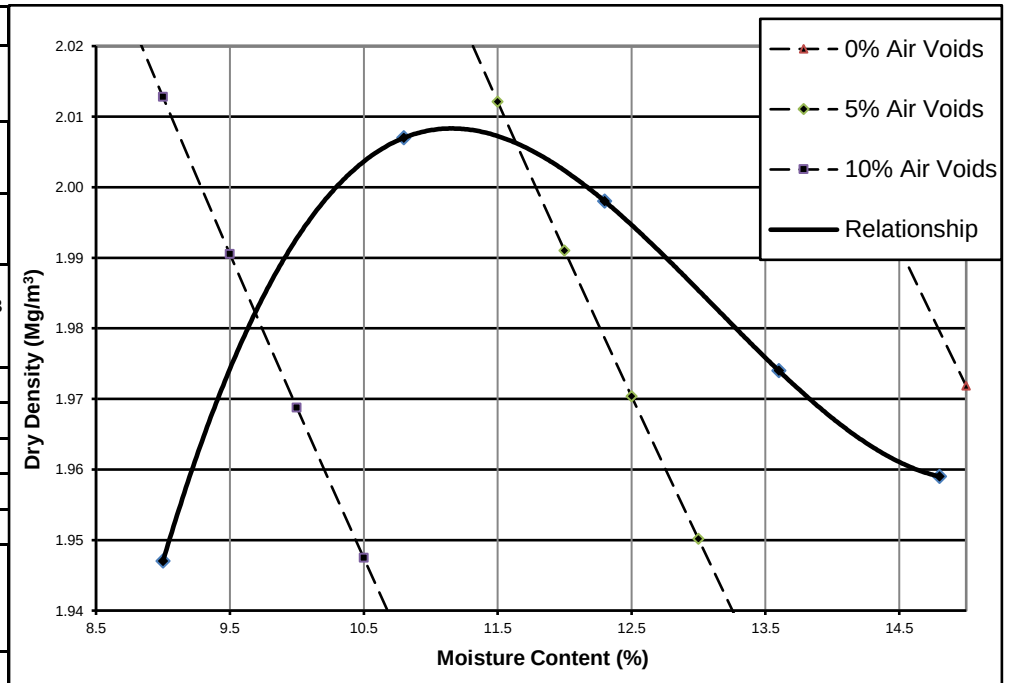
No **S92900**
AO13-1
Unknown
04/02/2021
16/03/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **3.2.5.3 Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	19 %
Moisture Content (%)	Dry Density Mg/m ³
9.0	1.95
10.8	2.01
12.3	2.00
13.6	1.97
14.8	1.96
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.00



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 March 2021
Test Report Ref: TR 782693

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AO13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	11/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.36 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.46 Mg/m ³
Apparent Particle density =	2.61 Mg/m ³
Water absorption (of dry mass) =	4.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 June 2021
Test Report Ref: TR 782694

Page 1 of 1

LABORATORY TEST REPORT

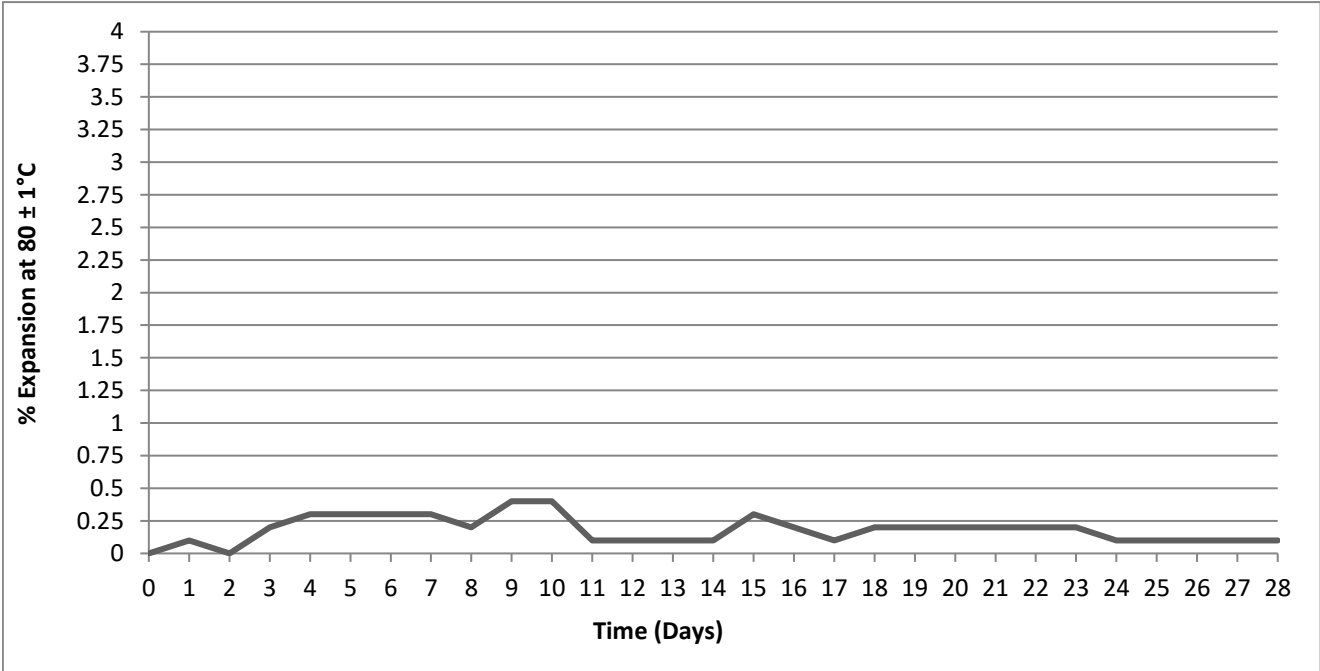
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92900
Client Ref. No:	AO13-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	04/02/2021
Date of Start of Test:	10/05/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 37

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775843

Page 1 of 1

LABORATORY TEST REPORT

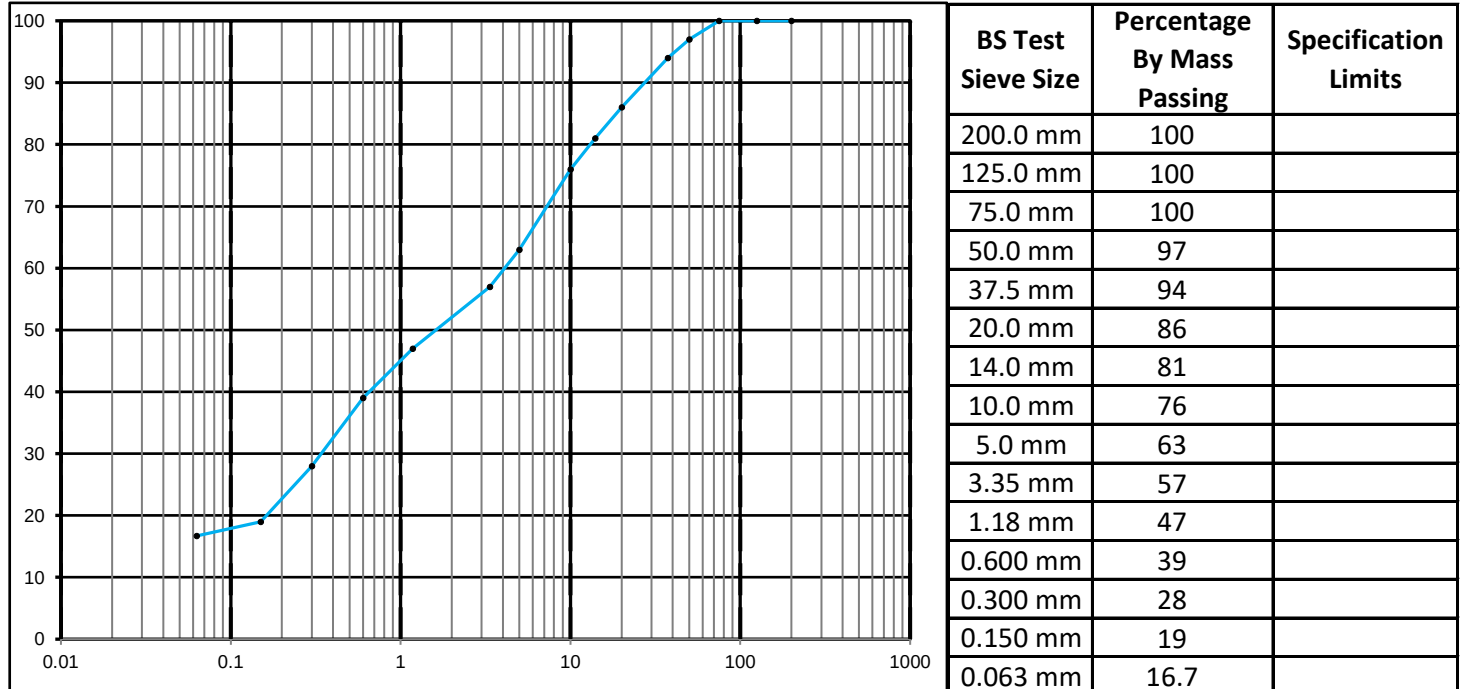
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AP1-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775844

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AP1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 775845

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

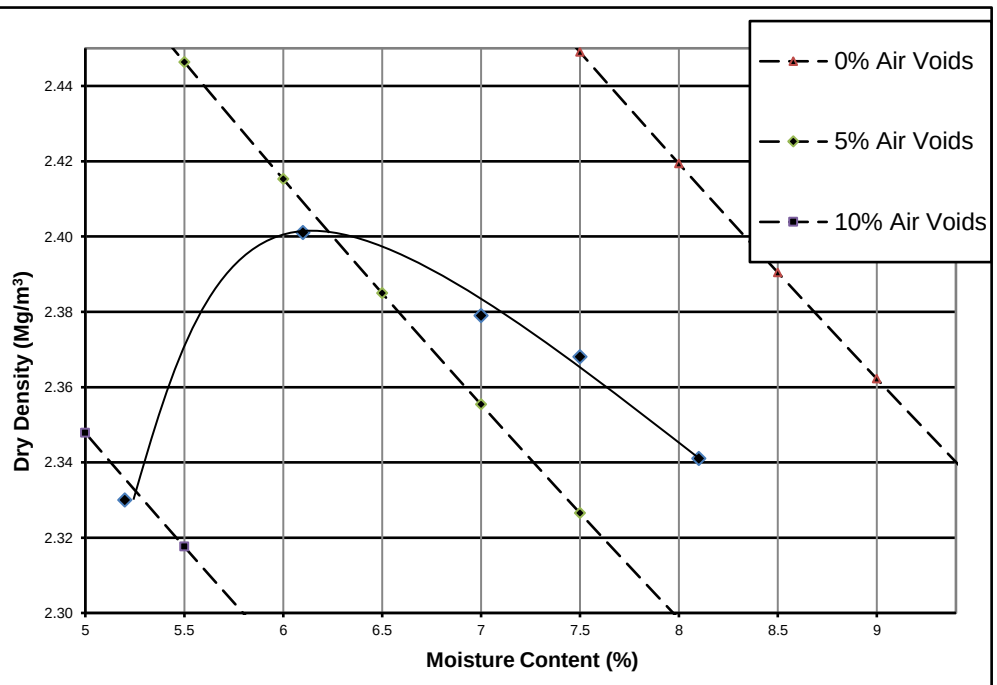
No
S92292
AP1-1
17/12/2020
05/01/2021
22/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	74 %
Retained on 20mm Sieve:	86 %
Moisture Content (%)	Dry Density Mg/m ³
5.2	2.33
6.1	2.40
7.0	2.38
7.5	2.37
8.1	2.34
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
6.1	2.40



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 775846

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AP1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	12/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.38 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.48 Mg/m ³
Apparent Particle density =	2.68 Mg/m ³
Water absorption (of dry mass) =	4.2 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777495

Page 1 of 1

LABORATORY TEST REPORT

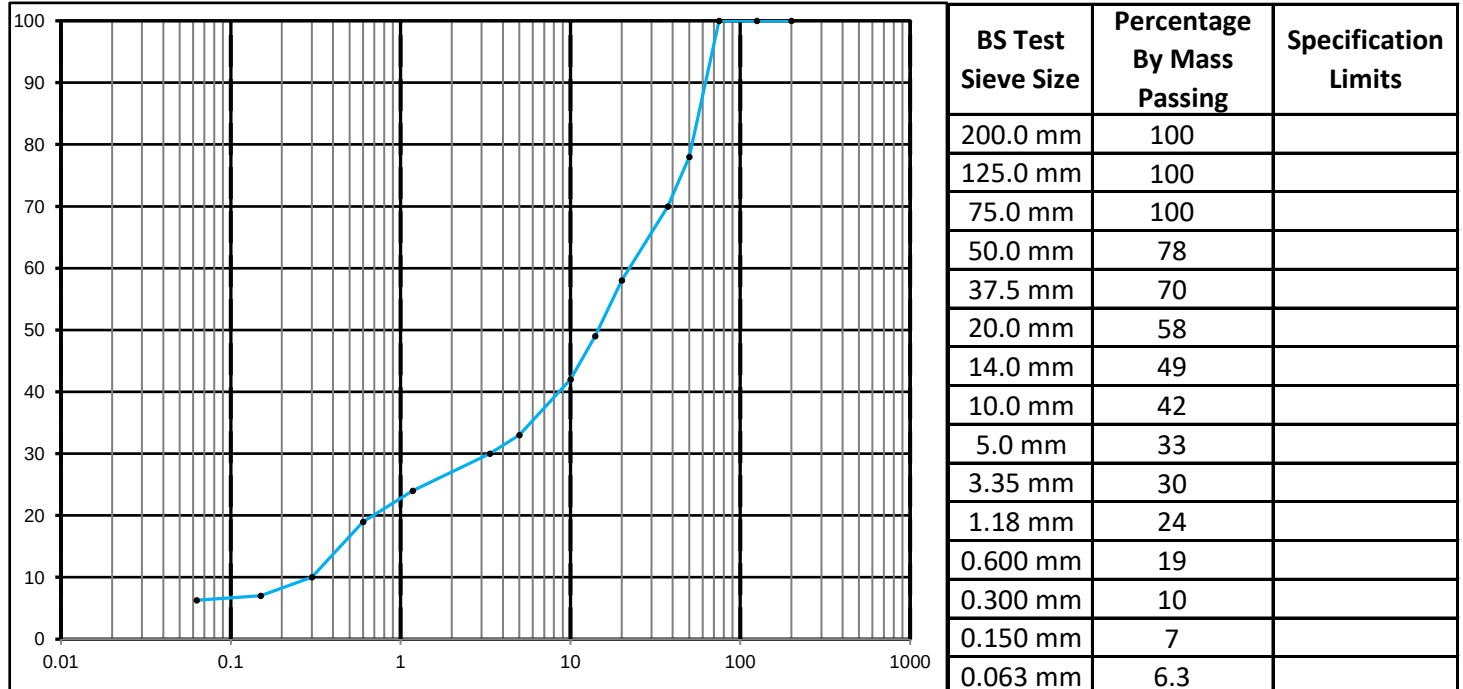
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AP10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777496

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AP10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777497

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

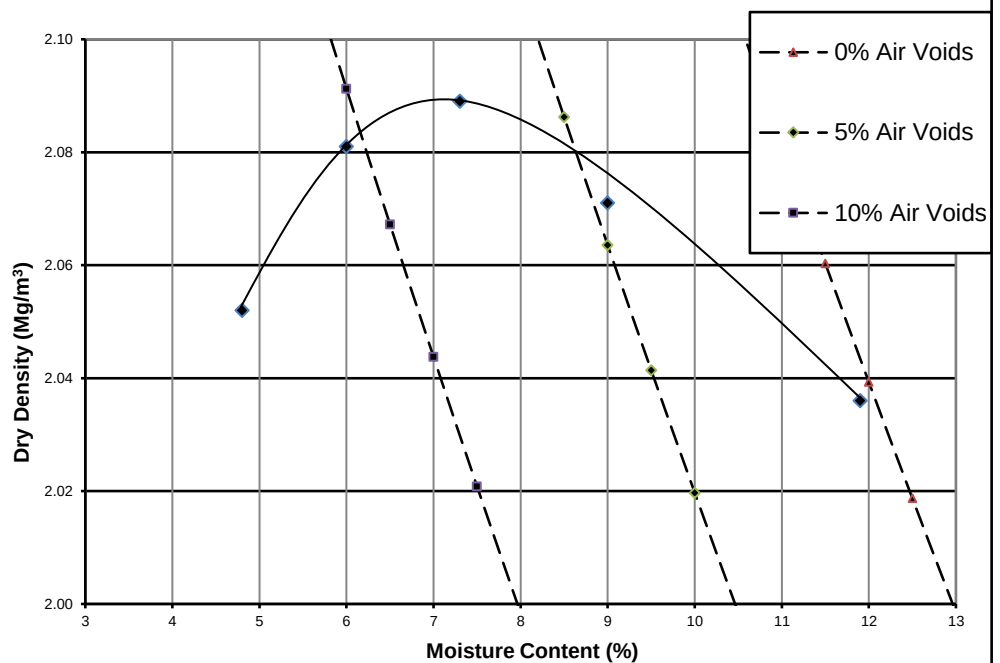
No
S92460
AP10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	30 %
Retained on 20mm Sieve:	49 %
Moisture Content (%)	Dry Density Mg/m ³
4.8	2.05
6.0	2.08
7.3	2.09
9.0	2.07
11.9	2.04
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
7.1	2.09



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 777498

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AP10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.40 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.49 Mg/m ³
Apparent Particle density =	2.62 Mg/m ³
Water absorption (of dry mass) =	3.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777499

Page 1 of 1

LABORATORY TEST REPORT

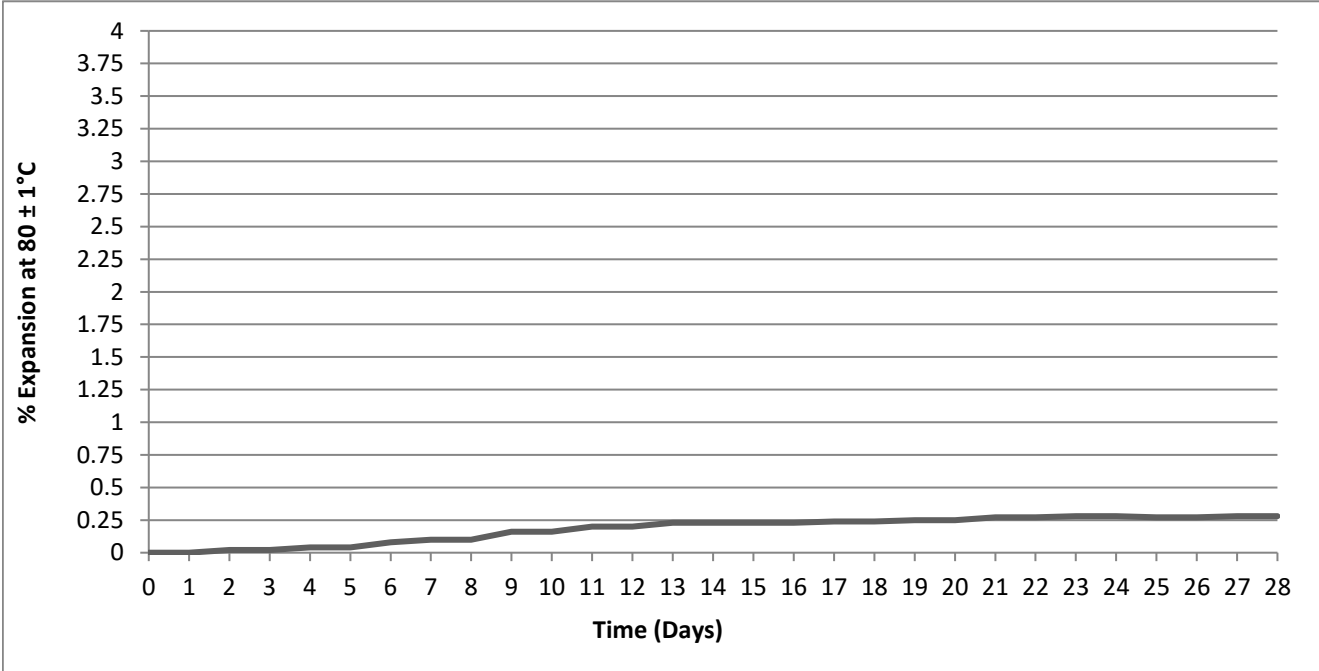
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AP10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.28



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 45

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775838

Page 1 of 1

LABORATORY TEST REPORT

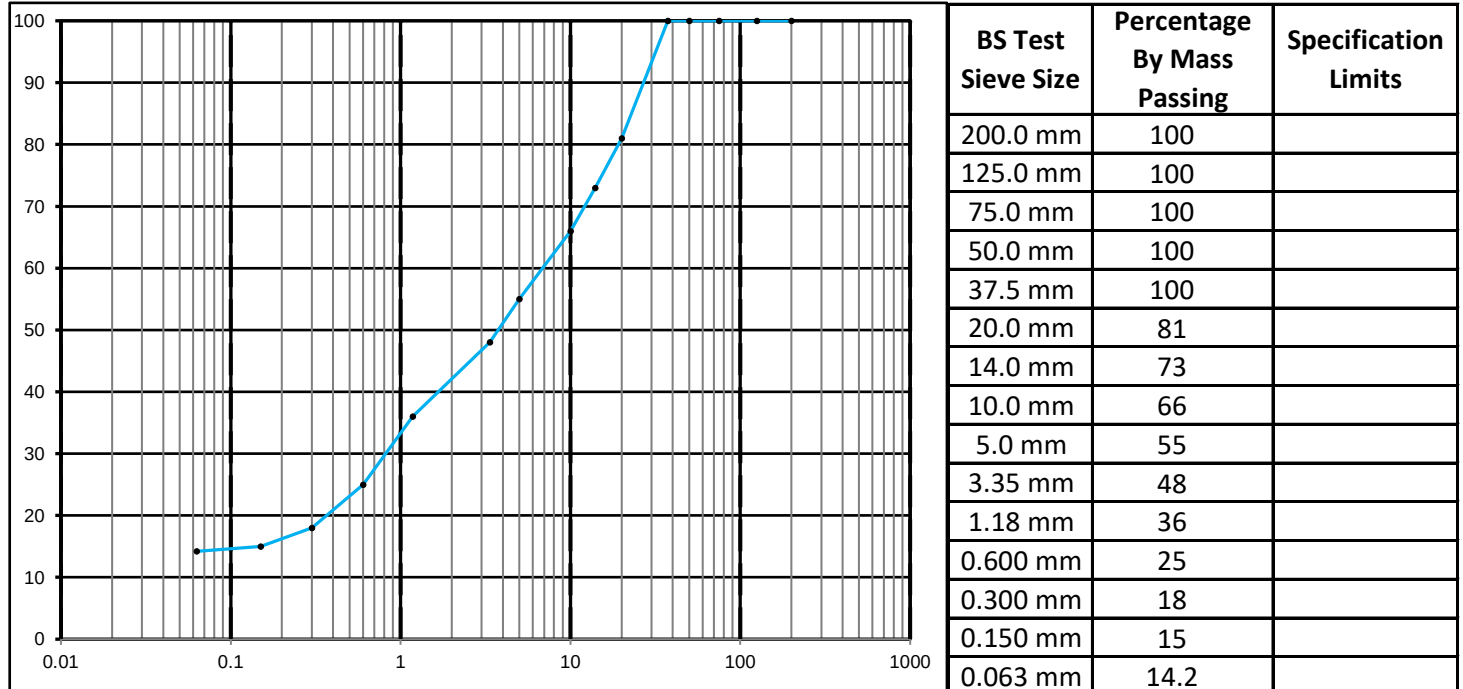
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AQ1-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775839

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AQ1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 23.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 22 January 2021
Test Report Ref: TR 775840

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S92292
AQ1-1
17/12/2020
05/01/2021
18/01/2021
Unknown
Soil

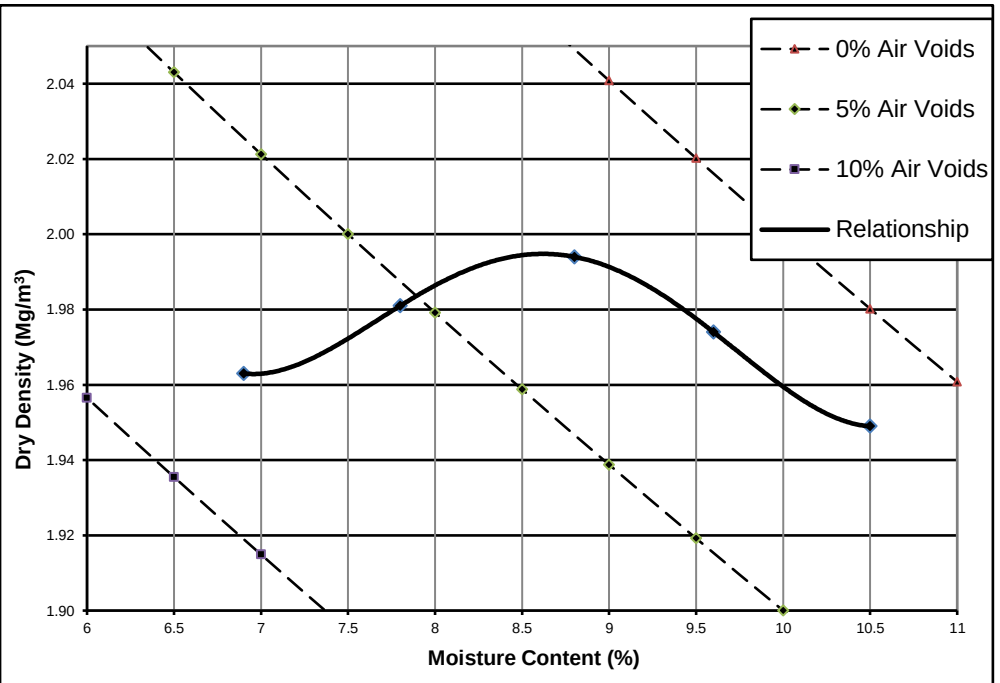
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method:

Clause X
Single

RESULTS:

Particle Density: 2.5Mg/m³
(Found using Gas Jar Method)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	32 %
Moisture Content (%)	Dry Density Mg/m ³
6.9	1.96
7.8	1.98
8.8	1.99
9.6	1.97
10.5	1.95
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.6	1.99



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 775841

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AQ1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	12/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.33 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.44 Mg/m ³
Apparent Particle density =	2.64 Mg/m ³
Water absorption (of dry mass) =	5.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775842

Page 1 of 1

LABORATORY TEST REPORT

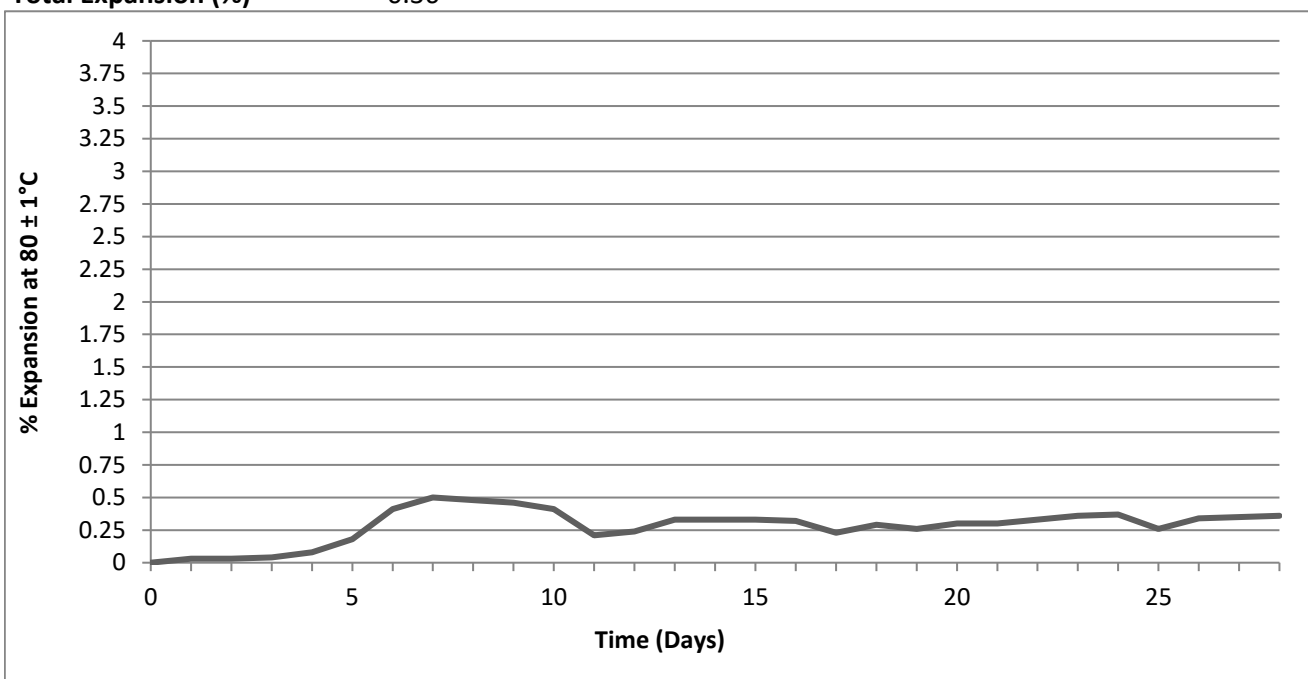
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AQ1-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.36



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 22

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777491

Page 1 of 1

LABORATORY TEST REPORT

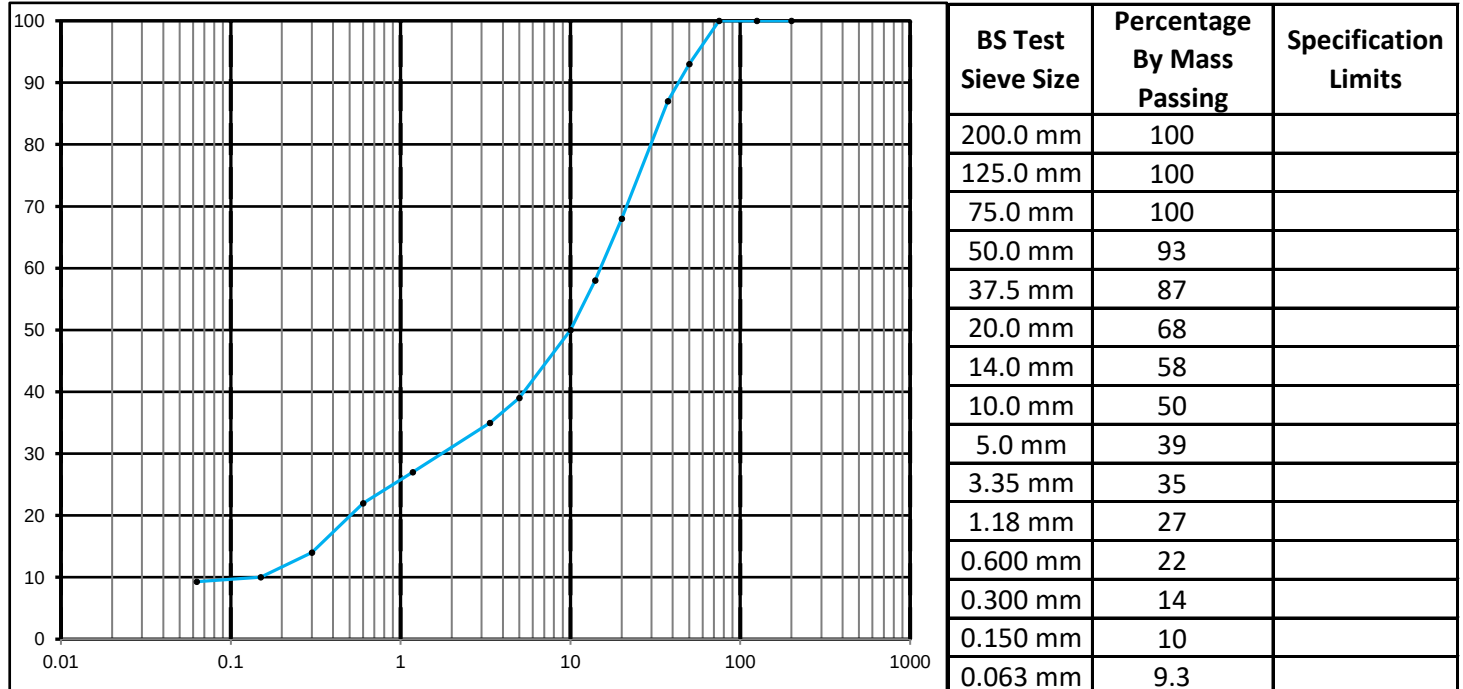
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AQ10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777492

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AQ10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 10 February 2021
Test Report Ref: TR 777493

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

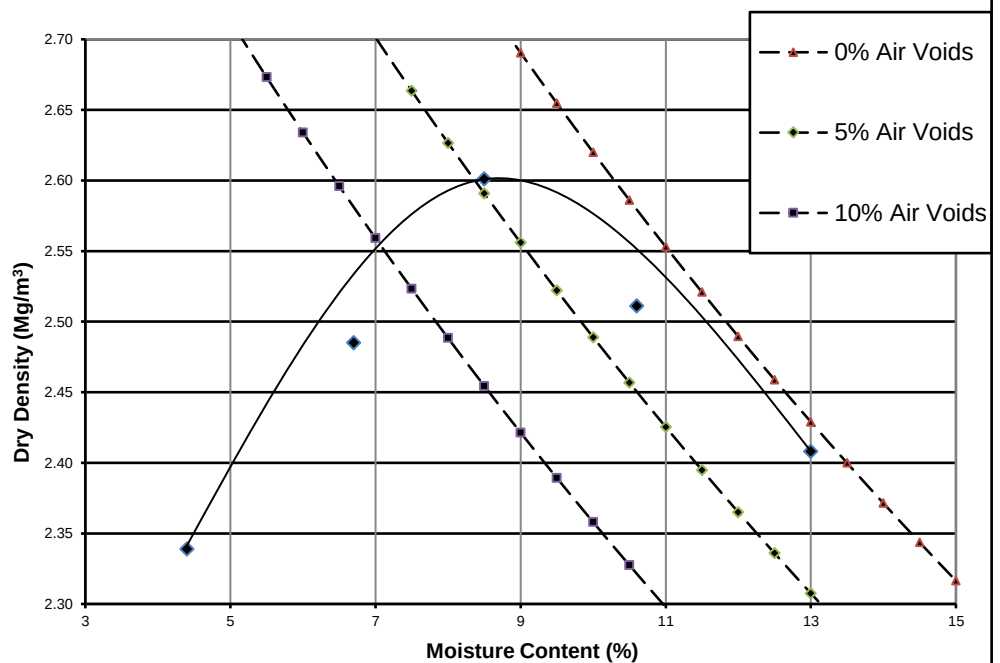
No
S92460
AQ10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.55Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	25 %
Moisture Content (%)	Dry Density Mg/m ³
4.4	2.34
6.7	2.49
8.5	2.60
10.6	2.51
13.0	2.41
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
8.7	2.60



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 30 March 2021
Test Report Ref: TR 777494

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AQ10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.54 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.64 Mg/m ³
Apparent Particle density =	2.82 Mg/m ³
Water absorption (of dry mass) =	3.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777409

Page 1 of 1

LABORATORY TEST REPORT

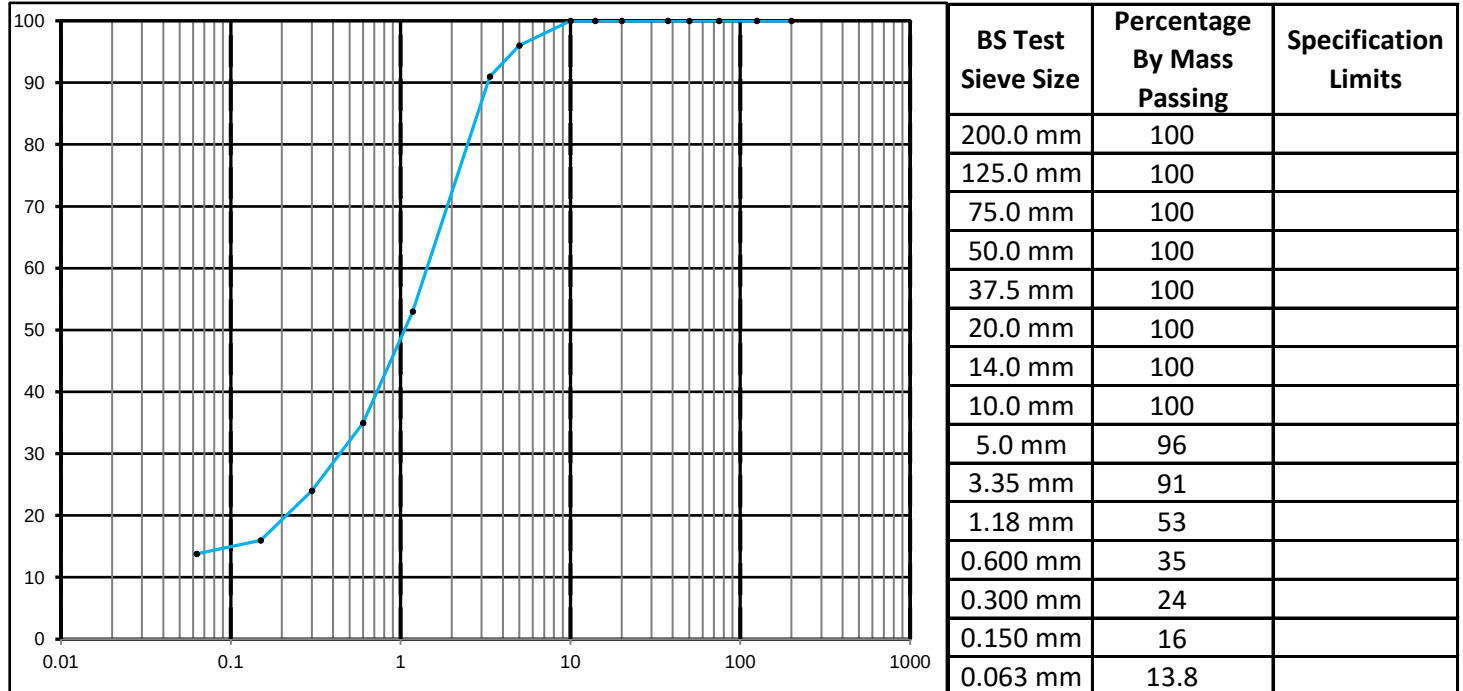
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AR10-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777410

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AR10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 7.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777411

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

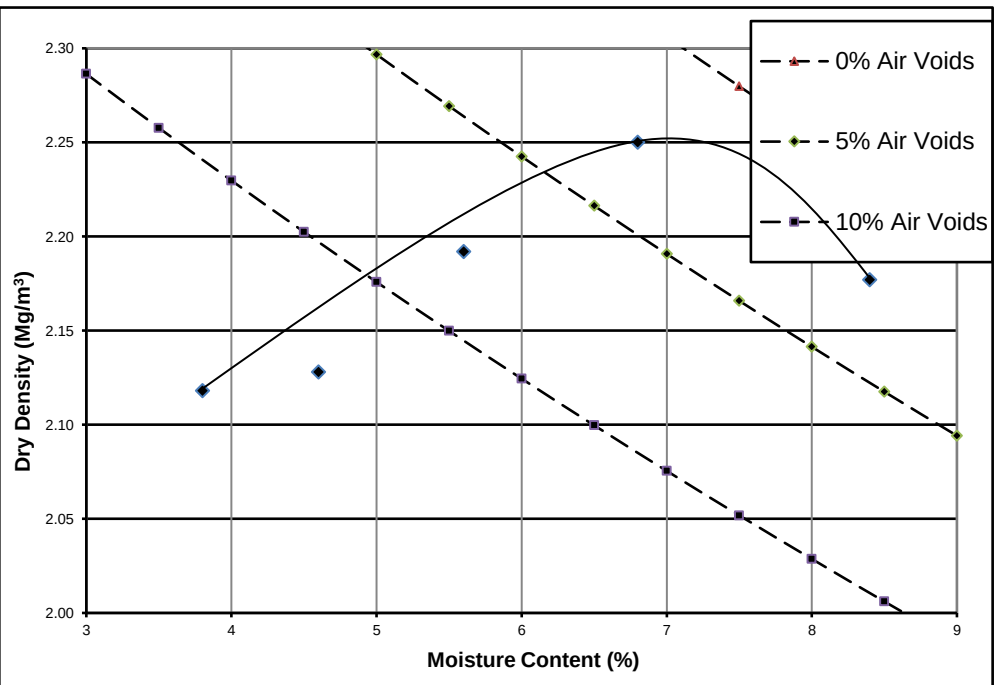
No
S92460
AR10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.4.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.75Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	0 %
Retained on 20mm Sieve:	1 %
Moisture Content (%)	Dry Density Mg/m ³
3.8	2.12
4.6	2.13
5.6	2.19
6.8	2.25
8.4	2.18
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
7.0	2.25



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 777412

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AR10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.60 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.64 Mg/m ³
Apparent Particle density =	2.72 Mg/m ³
Water absorption (of dry mass) =	1.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777413

Page 1 of 1

LABORATORY TEST REPORT

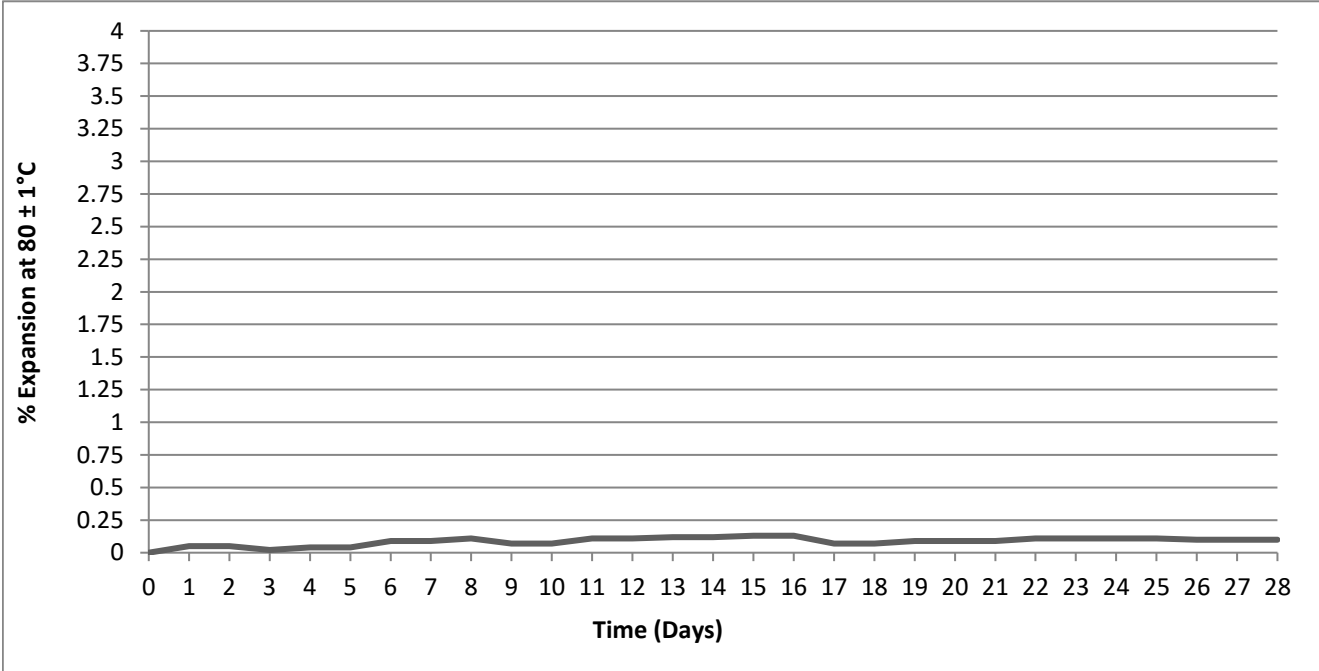
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AR10-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 20

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777414

Page 1 of 1

LABORATORY TEST REPORT

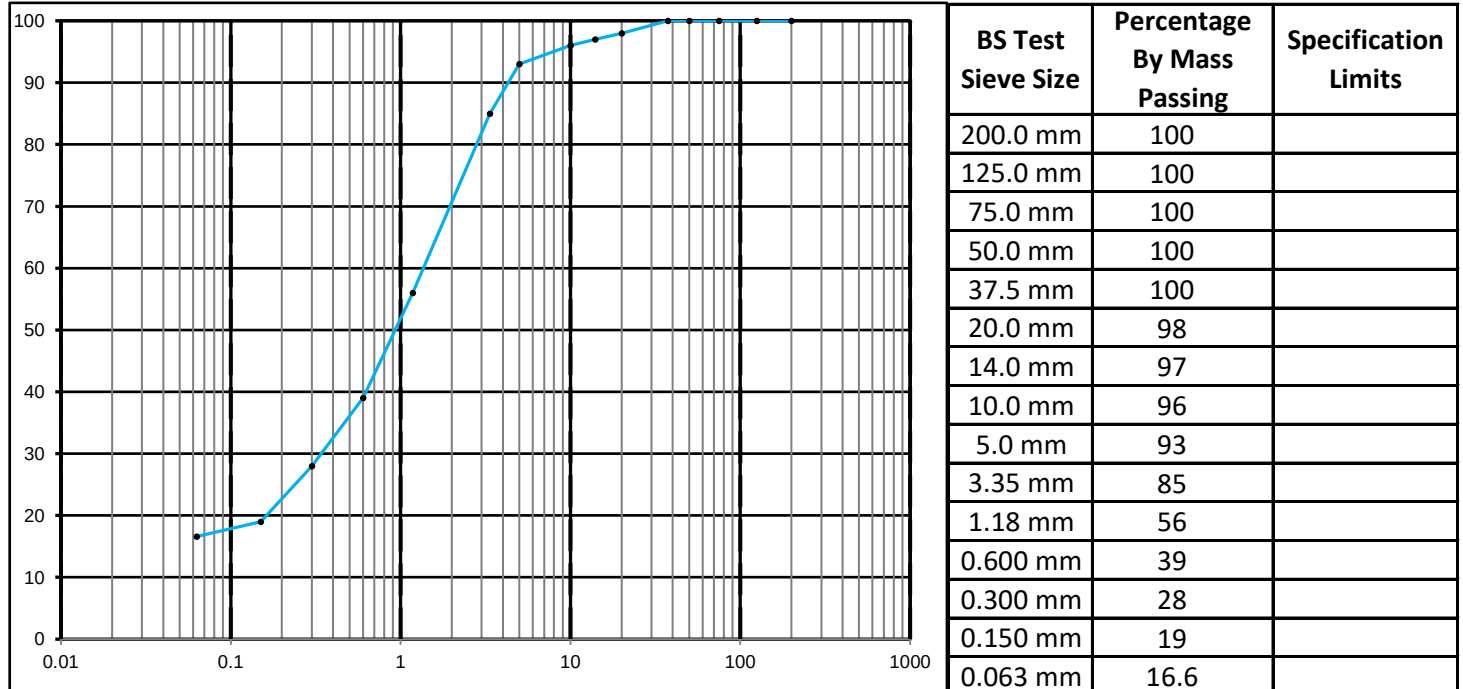
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AR11-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777415

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AR11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 7.6

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 08 February 2021
Test Report Ref: TR 777416

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

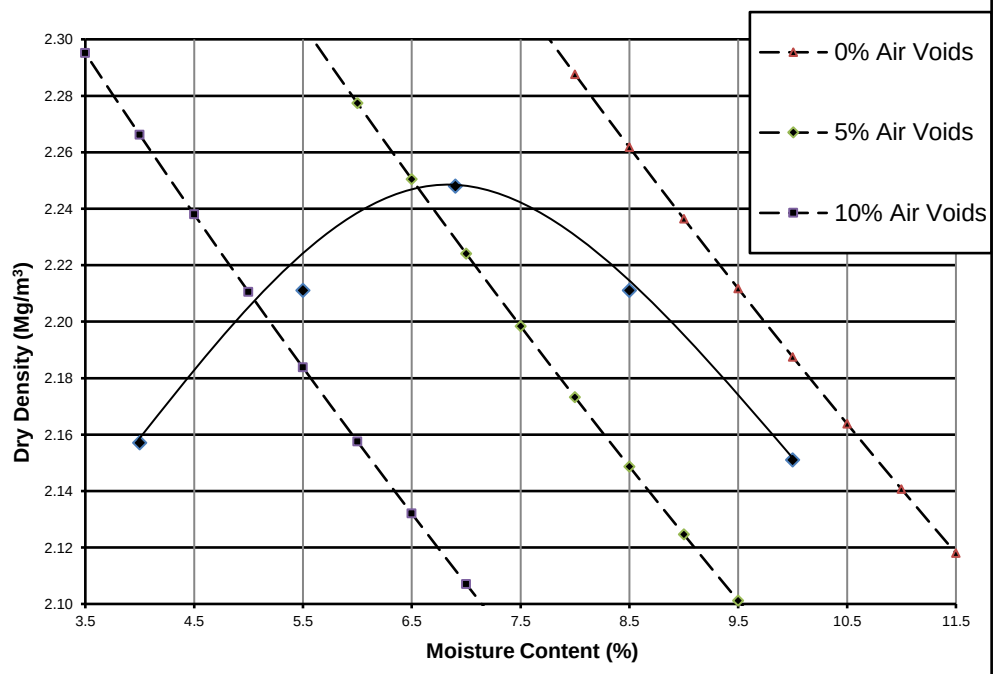
No
S92460
AR11-1
Unknown
14/01/2021
03/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.4.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	100 %
Retained on 20mm Sieve:	99 %
Moisture Content (%)	Dry Density Mg/m ³
5.5	2.21
4.0	2.16
6.9	2.25
8.5	2.21
10.0	2.15
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
7.0	2.25



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 777417

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AR11-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.59 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.68 Mg/m ³
Apparent Particle density =	2.85 Mg/m ³
Water absorption (of dry mass) =	3.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775834

Page 1 of 1

LABORATORY TEST REPORT

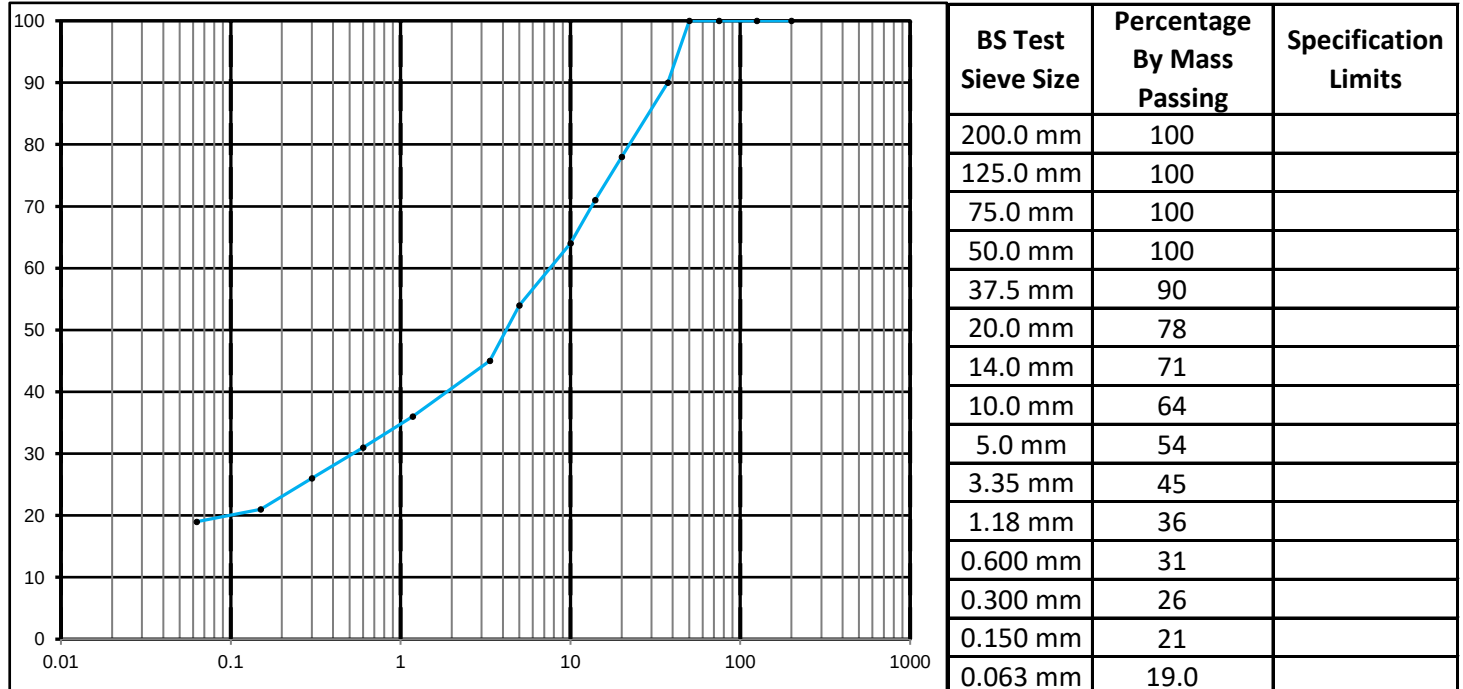
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Llanwern
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AR2-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:			

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry
Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 26 January 2021
Test Report Ref: TR 775835

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AR2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Llanwern
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 22.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 02 February 2021
Test Report Ref: TR 775836

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

No
S92292
AR2-1
17/12/2020
05/01/2021
22/01/2021
Unknown
Soil

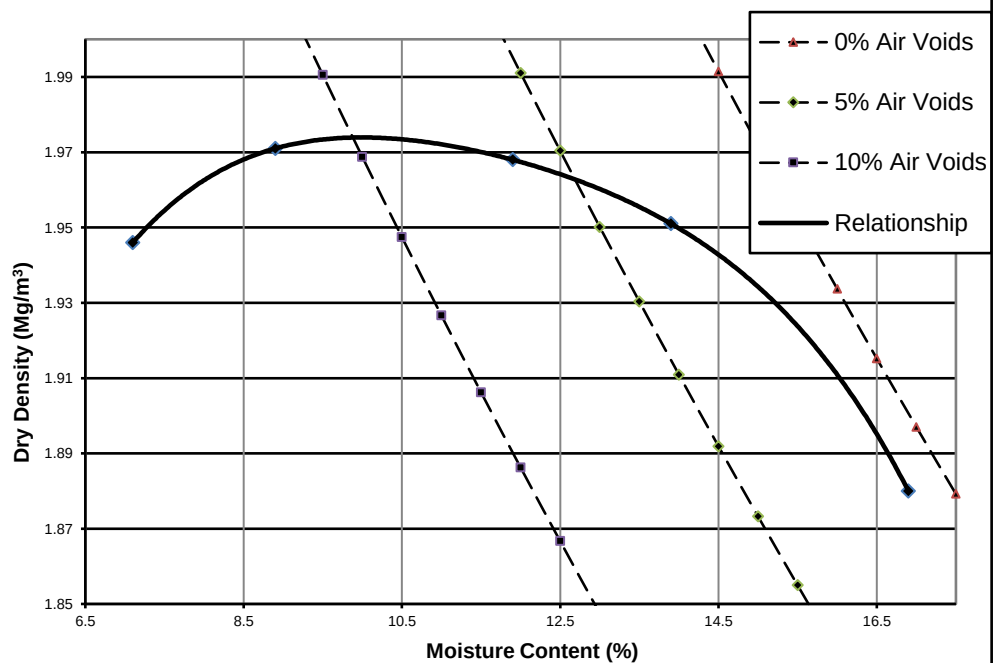
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

Zone X
Single

RESULTS:

Particle Density: 2.8Mg/m³
(Found using Gas Jar Method)

Retained on 37.5mm Sieve:	11 %
Retained on 20mm Sieve:	21 %
Moisture Content (%)	Dry Density Mg/m ³
7.1	1.95
8.9	1.97
11.9	1.97
13.9	1.95
16.9	1.88
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
10.0	1.97



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 775837

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AR2-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	12/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.49 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.62 Mg/m ³
Apparent Particle density =	2.86 Mg/m ³
Water absorption (of dry mass) =	5.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775829

Page 1 of 1

LABORATORY TEST REPORT

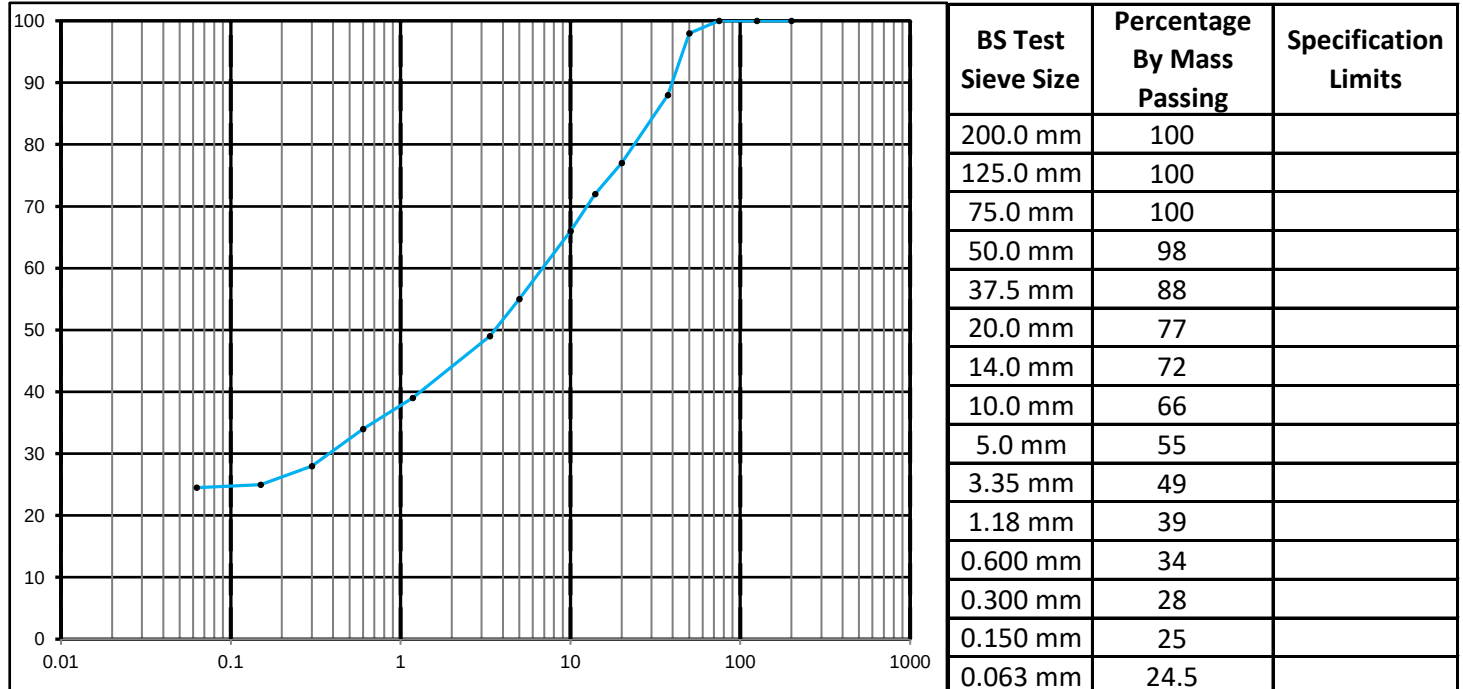
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AS3-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775830

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AS3-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 21.3

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775831

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

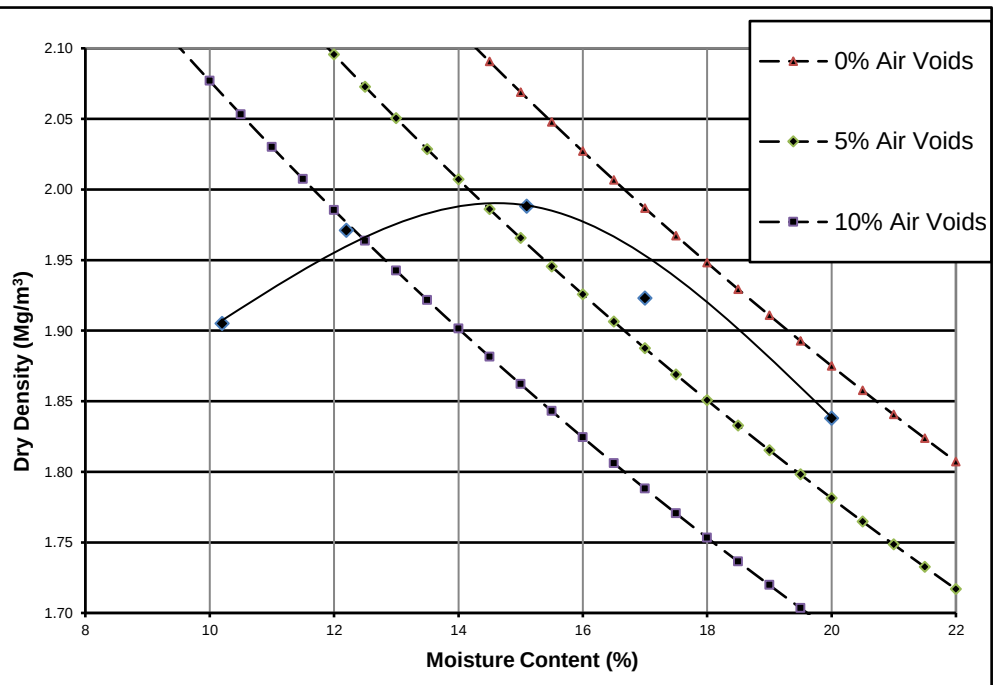
No
S92292
AS3-1
17/12/2020
05/01/2021
27/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7 %
Retained on 20mm Sieve:	14 %
Moisture Content (%)	Dry Density Mg/m ³
10.2	1.91
12.2	1.97
15.1	1.99
17.0	1.92
20.0	1.84
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
14.0	2.00



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 775832

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AS3-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	12/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.57 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.67 Mg/m ³
Apparent Particle density =	2.88 Mg/m ³
Water absorption (of dry mass) =	4.2 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 12 February 2021
Test Report Ref: TR 775833

Page 1 of 1

LABORATORY TEST REPORT

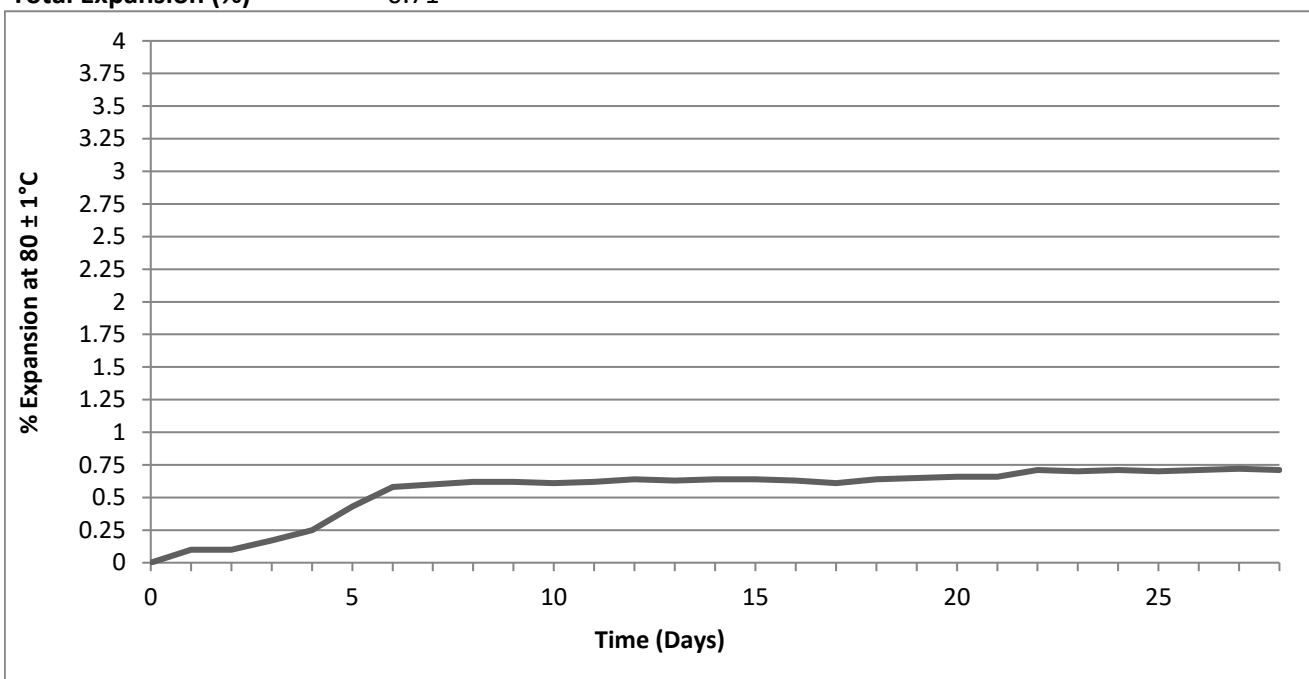
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AS3-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	15/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.71



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 30

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784317

Page 1 of 1

LABORATORY TEST REPORT

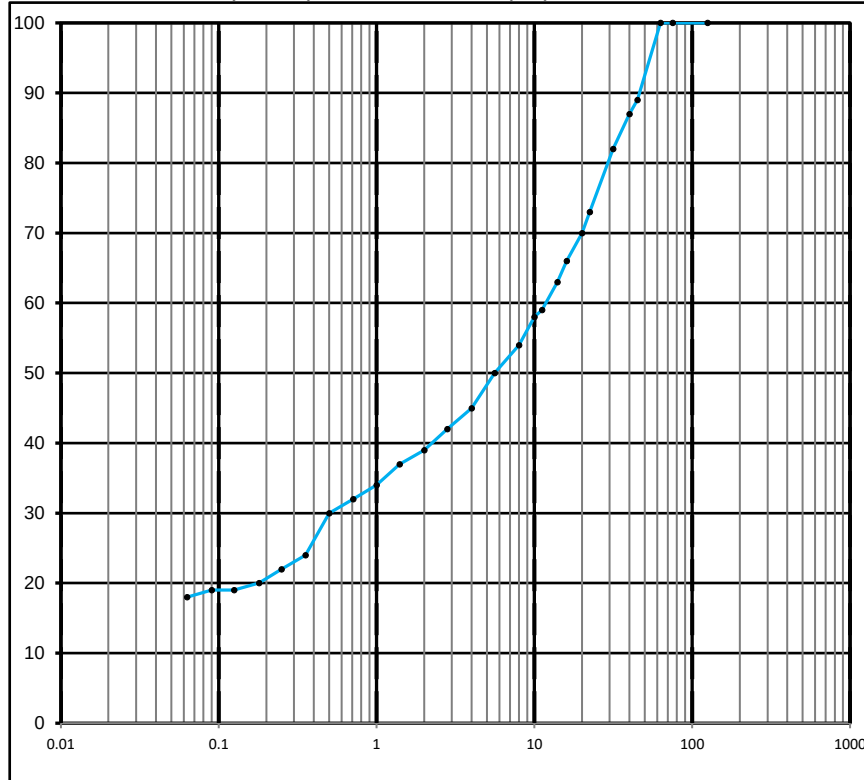
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AS5-1 - 0.2m	Sampled By:	Client
Date and Time of Sampling:	10/02/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	89	
40.0 mm	87	
31.5 mm	82	
22.4 mm	73	
20.0 mm	70	
16.0 mm	66	
14.0 mm	63	
11.2 mm	59	
10.0 mm	58	
8.0 mm	54	
5.6 mm	50	
4.0 mm	45	
2.8 mm	42	
2.0 mm	39	
1.4 mm	37	
1.0 mm	34	
0.710 mm	32	
0.500 mm	30	
0.355 mm	24	
0.250 mm	22	
0.180 mm	20	
0.125 mm	19	
0.090 mm	19	
0.063 mm	18.0	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784318

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AS5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 17.4

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 April 2021
Test Report Ref: TR 784319

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

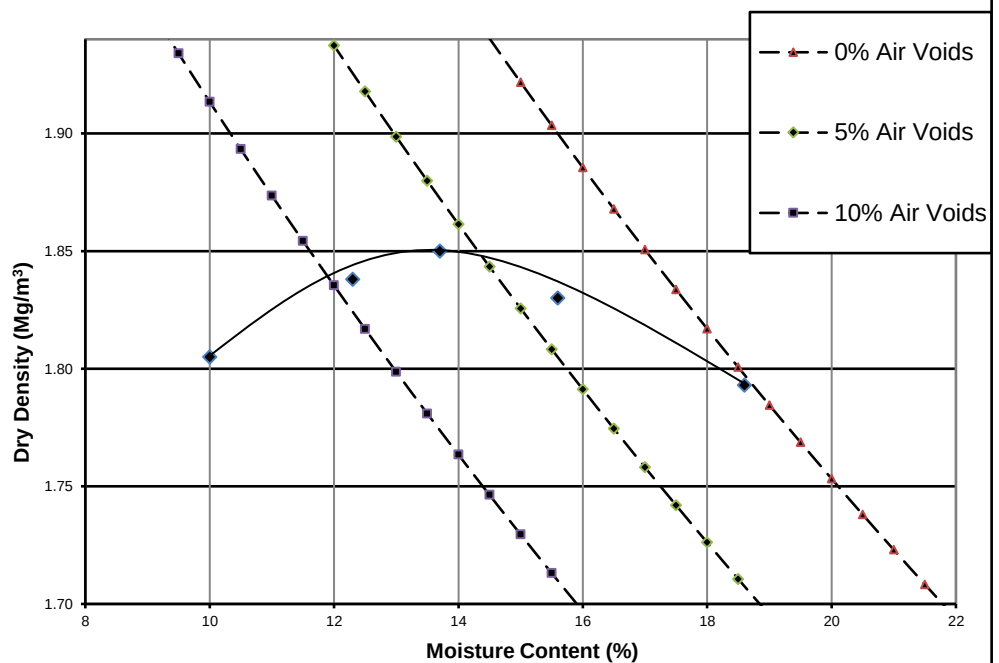
No
S93086
AS5-1 - 0.2m
10/02/2021
12/02/2021
12/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 2.7Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	12 %
Retained on 20mm Sieve:	25 %
Moisture Content (%)	Dry Density Mg/m ³
10.0	1.81
12.3	1.84
13.7	1.85
15.6	1.83
18.6	1.79
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
14.0	1.85



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784320

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AS5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.44 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.55 Mg/m ³
Apparent Particle density =	2.73 Mg/m ³
Water absorption (of dry mass) =	4.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784321

Page 1 of 1

LABORATORY TEST REPORT

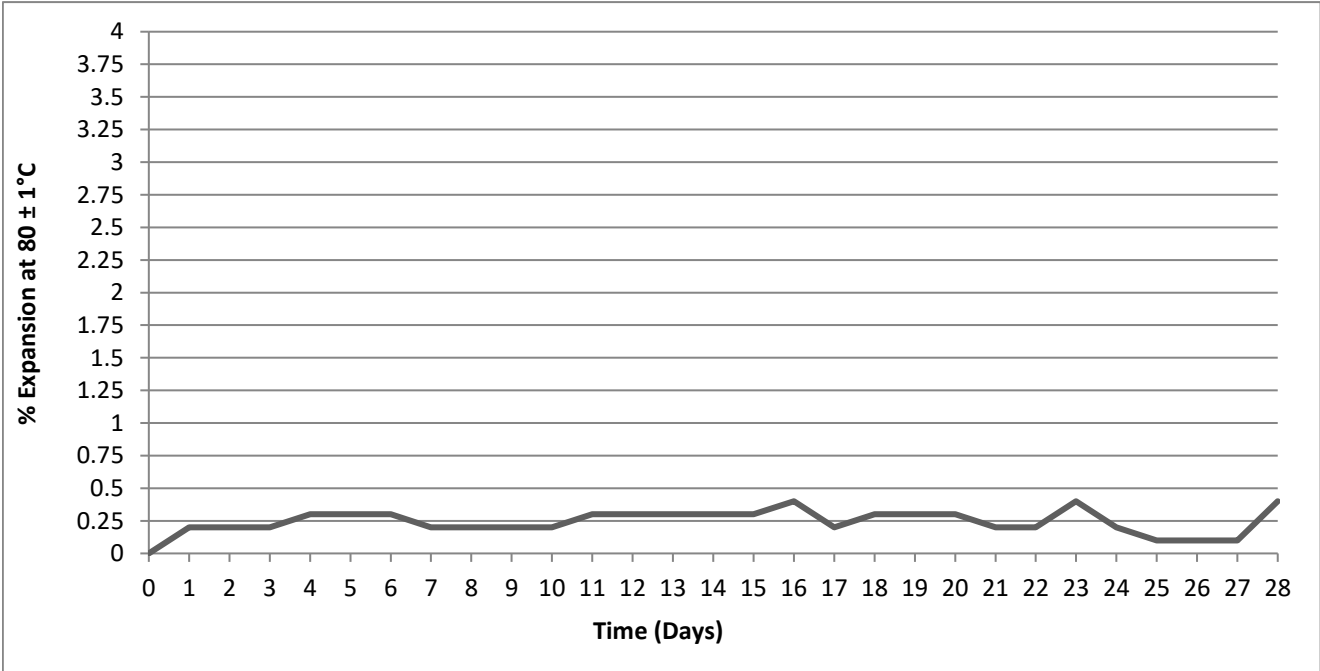
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AS5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 0.4



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 25

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968636

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

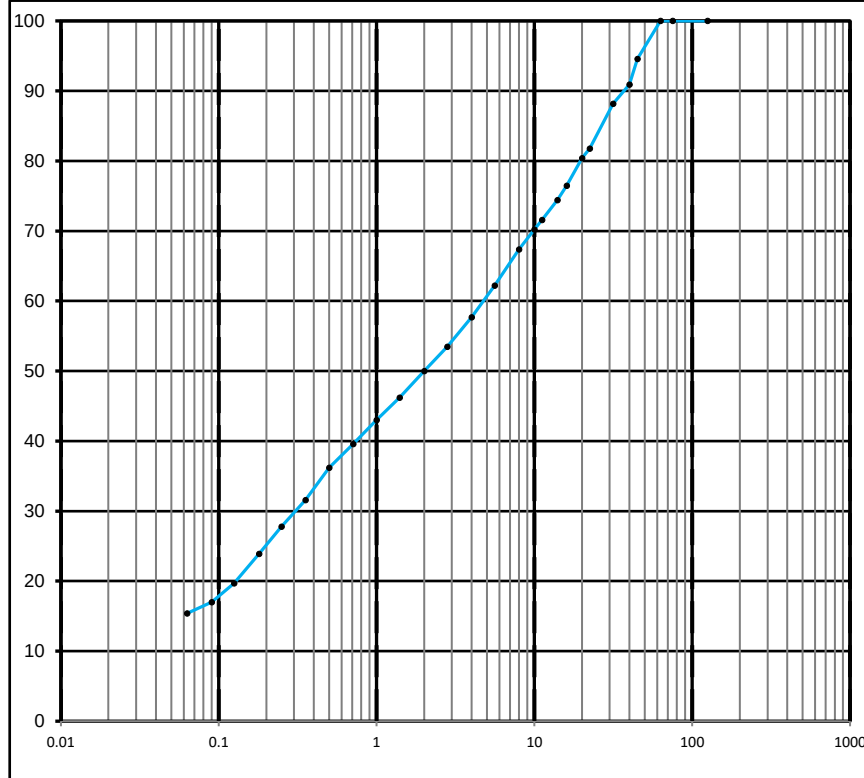
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AS9-1 @ 1.00M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	13/07/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AS9-1 @ 1.00M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	95	
40.0 mm	91	
31.5 mm	88	
22.4 mm	82	
20.0 mm	80	
16.0 mm	77	
14.0 mm	74	
11.2 mm	72	
10.0 mm	70	
8.0 mm	67	
5.6 mm	62	
4.0 mm	58	
2.8 mm	54	
2.0 mm	50	
1.4 mm	46	
1.0 mm	43	
0.710 mm	40	
0.500 mm	36	
0.355 mm	32	
0.250 mm	28	
0.180 mm	24	
0.125 mm	20	
0.090 mm	17	
0.063 mm	15.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777454

Page 1 of 1

LABORATORY TEST REPORT

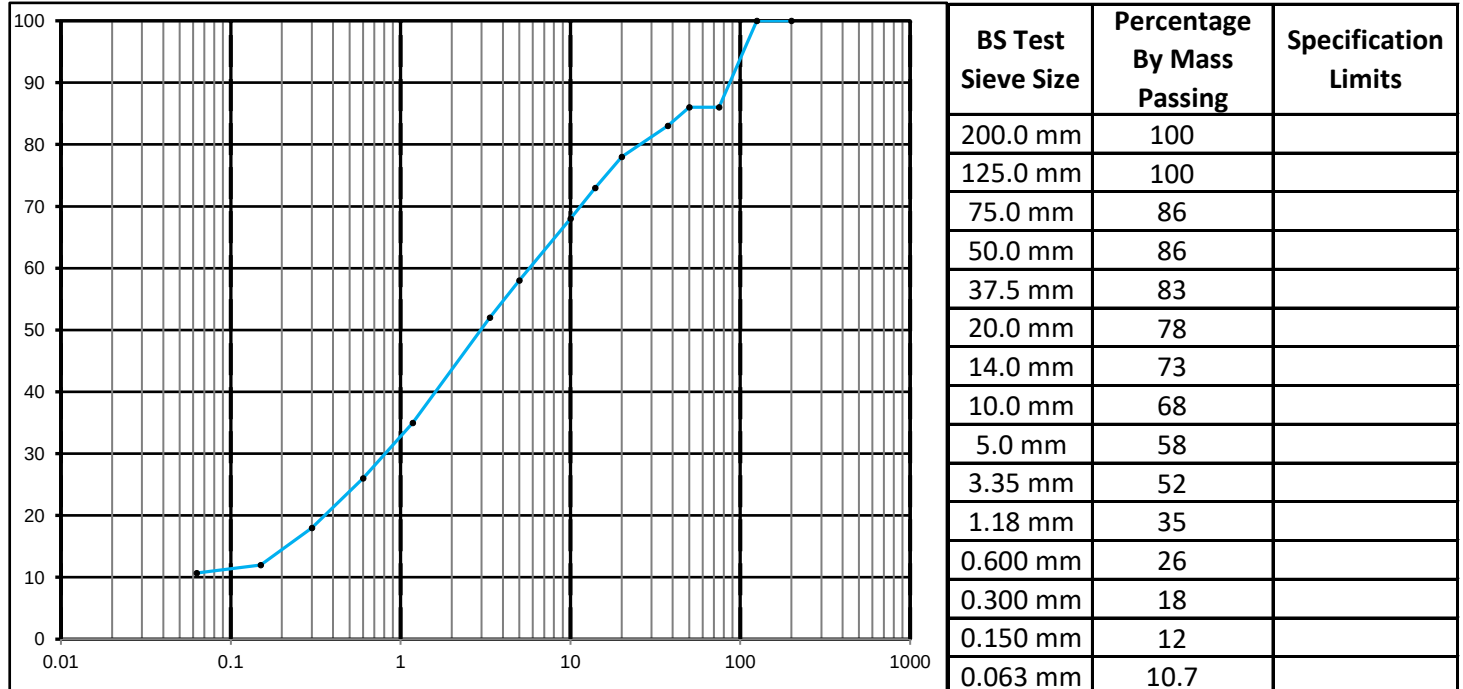
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AS9-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777455

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AS9-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 February 2021
Test Report Ref: TR 777456

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

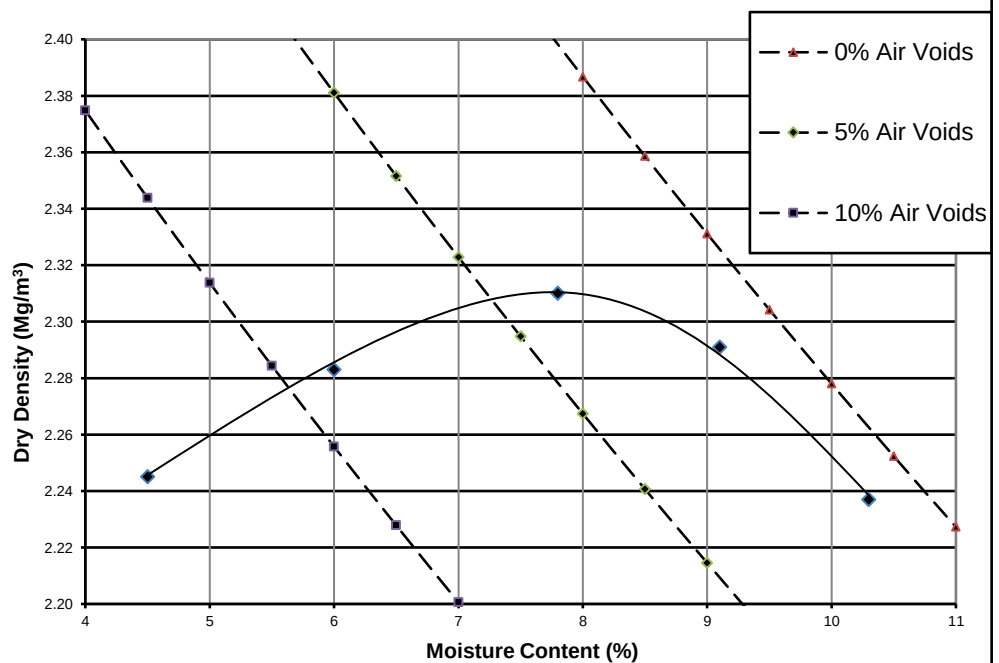
No
S92460
AS9-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.95Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	18 %
Moisture Content (%)	Dry Density Mg/m ³
4.5	2.25
6.0	2.28
7.8	2.31
9.1	2.29
10.3	2.24
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
7.8	2.31



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 777457

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AS9-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.80 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.91 Mg/m ³
Apparent Particle density =	3.15 Mg/m ³
Water absorption (of dry mass) =	3.9 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968636

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

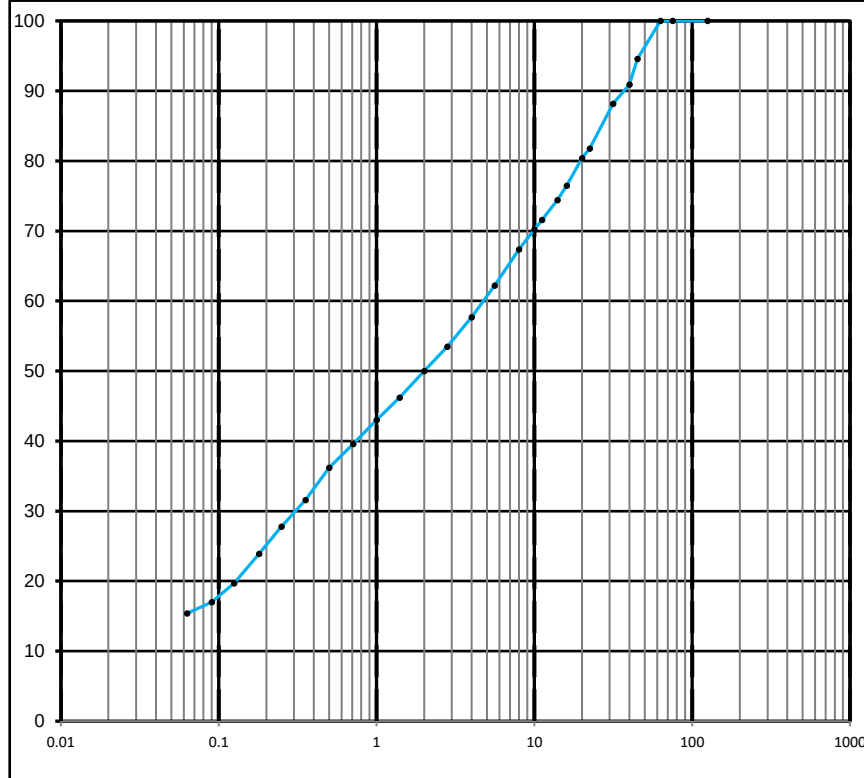
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AS9-1 @ 1.00M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	13/07/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AS9-1 @ 1.00M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	95	
40.0 mm	91	
31.5 mm	88	
22.4 mm	82	
20.0 mm	80	
16.0 mm	77	
14.0 mm	74	
11.2 mm	72	
10.0 mm	70	
8.0 mm	67	
5.6 mm	62	
4.0 mm	58	
2.8 mm	54	
2.0 mm	50	
1.4 mm	46	
1.0 mm	43	
0.710 mm	40	
0.500 mm	36	
0.355 mm	32	
0.250 mm	28	
0.180 mm	24	
0.125 mm	20	
0.090 mm	17	
0.063 mm	15.4	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 August 2023
Test Report Ref: TR 968637

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AS9-1 @ 1.00M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	26/07/2023
Sampling Location:	AS9-1 @ 1.00M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 11.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 17 November 2023
Test Report Ref: TR 968638

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

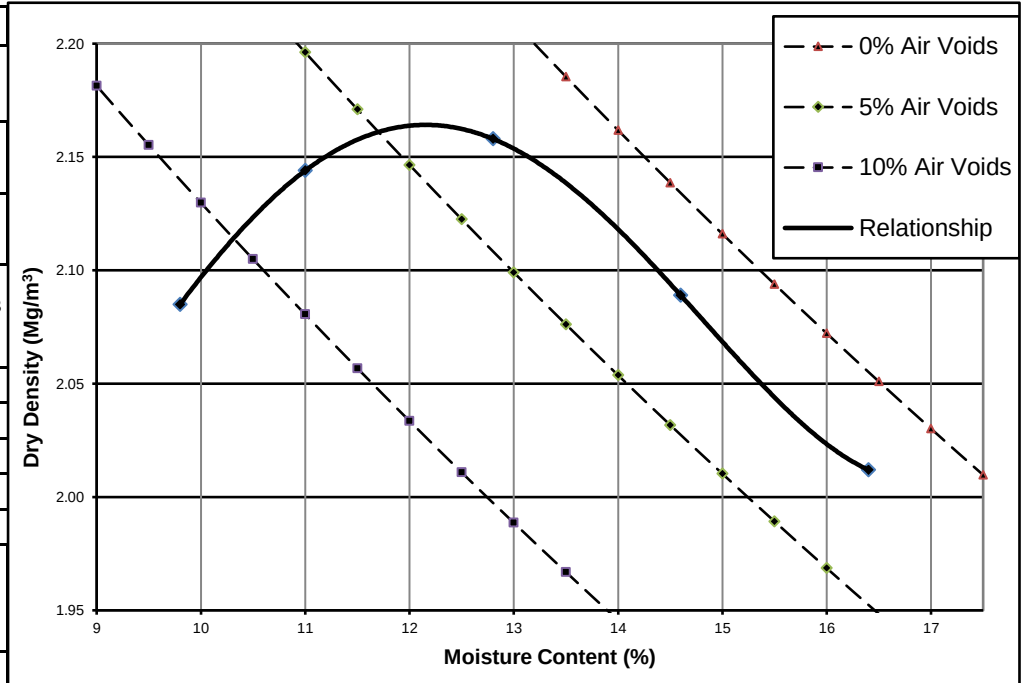
No
S112528
AS9-1 @ 1.00M
13/07/2023
25/07/2023
16/11/2023
AS9-1 @ 1.00M
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **KG**
Sample Preparation Procedure: **3.2.7.2**
Sample Preparation Method: **Separate batches**

RESULTS:

Particle Density: 3.1Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4
Retained on 20mm Sieve:	14
Moisture Content (%)	Dry Density Mg/m ³
9.8	2.09
11.0	2.14
12.8	2.16
14.6	2.09
16.4	2.01
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	2.16



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Laboratory Operations Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 August 2023
Test Report Ref: TR 968639

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AS9-1 @ 1.00M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	02/08/2023
Sampling Location:	AS9-1 @ 1.00M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.54 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.73 Mg/m ³
Apparent Particle density =	3.15 Mg/m ³
Water absorption (of dry mass) =	7.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 15 September 2023
Test Report Ref: TR 968640

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

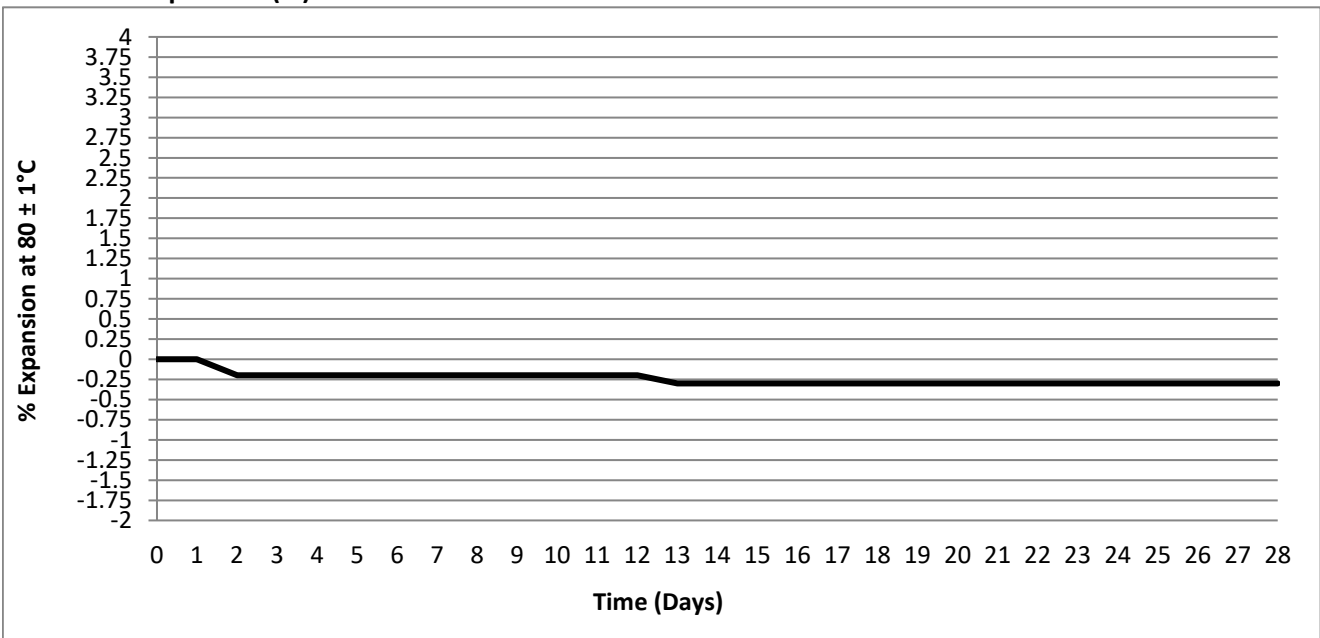
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AS9-1 @ 1.00M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	02/08/2023
Sampling Location:	AS9-1 @ 1.00M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = -0.3
Maximum Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments: % of material retained on the 20mm sieve = 18	Report checked and approved by: Mathew Sayer Laboratory Operations Manager
---	--

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968641

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

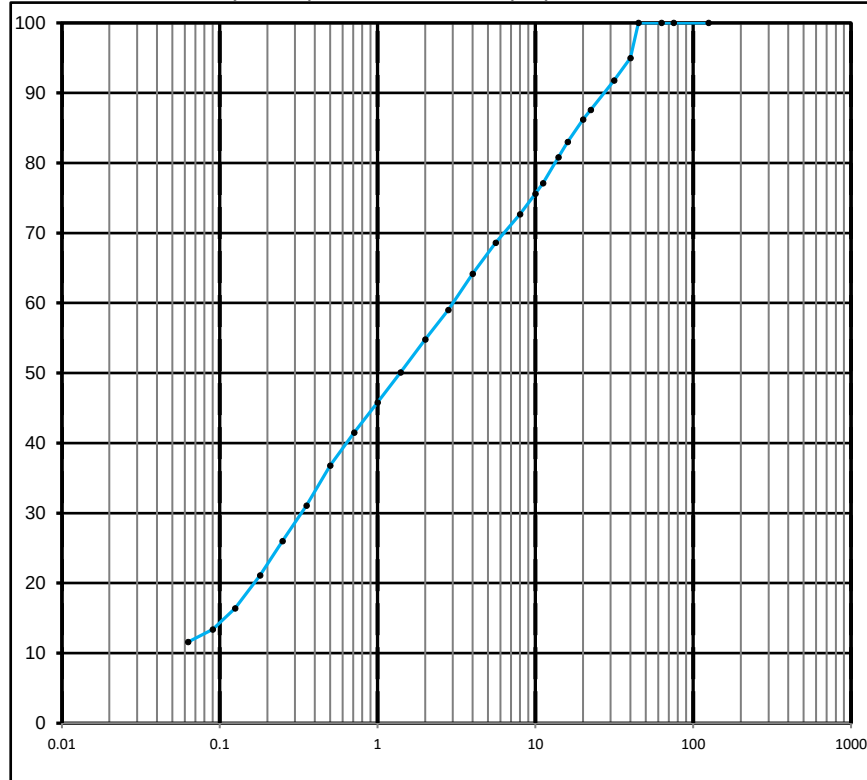
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AS9-2 @ 1.50M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	13/07/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AS9-2 @ 1.50M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	95	
31.5 mm	92	
22.4 mm	88	
20.0 mm	86	
16.0 mm	83	
14.0 mm	81	
11.2 mm	77	
10.0 mm	76	
8.0 mm	73	
5.6 mm	69	
4.0 mm	64	
2.8 mm	59	
2.0 mm	55	
1.4 mm	50	
1.0 mm	46	
0.710 mm	42	
0.500 mm	37	
0.355 mm	31	
0.250 mm	26	
0.180 mm	21	
0.125 mm	16	
0.090 mm	13	
0.063 mm	11.6	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 August 2023
Test Report Ref: TR 968642

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AS9-2 @ 1.50M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	26/07/2023
Sampling Location:	AS9-2 @ 1.50M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 17 November 2023
Test Report Ref: TR 968643

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

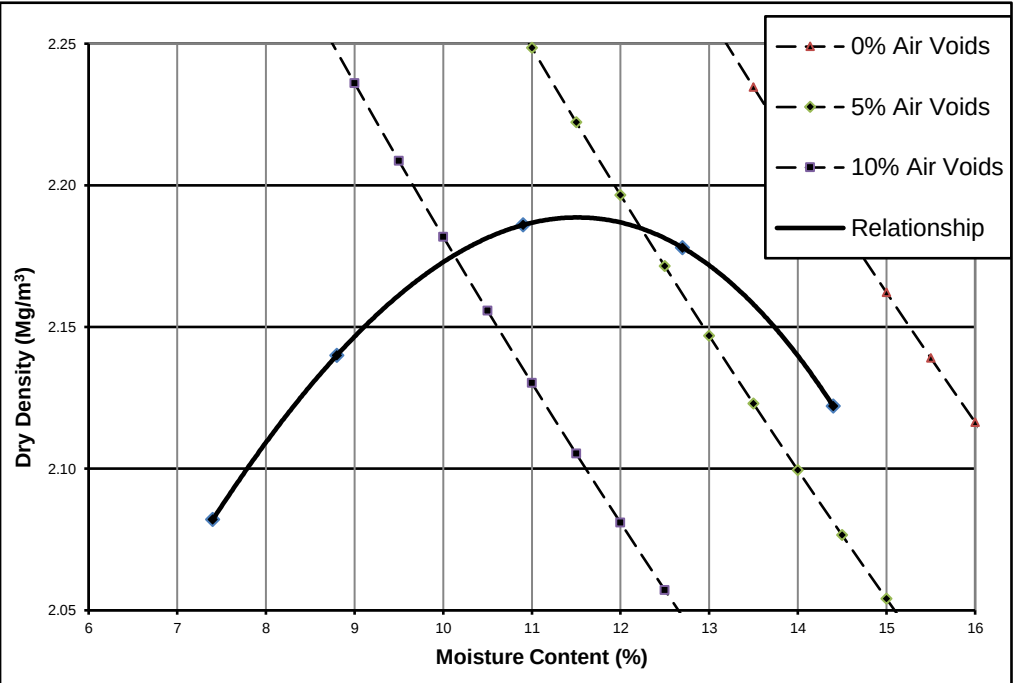
No
S112528
AS9-2 @ 1.50M
13/07/2023
25/07/2023
16/11/2023
AS9-2 @ 1.50M
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **KG**
Sample Preparation Procedure: **3.2.7.2**
Sample Preparation Method: **Separate batches**

RESULTS:

Particle Density: 3.2Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4
Retained on 20mm Sieve:	15
Moisture Content (%)	Dry Density Mg/m ³
7.4	2.08
8.8	2.14
10.9	2.19
12.7	2.18
14.4	2.12
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.19



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Laboratory Operations Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 August 2023
Test Report Ref: TR 968644

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AS9-2 @ 1.50M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	03/08/2023
Sampling Location:	AS9-2 @ 1.50M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.25 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.40 Mg/m ³
Apparent Particle density =	2.65 Mg/m ³
Water absorption (of dry mass) =	6.7 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 03 February 2021
Test Report Ref: TR 775825

Page 1 of 1

LABORATORY TEST REPORT

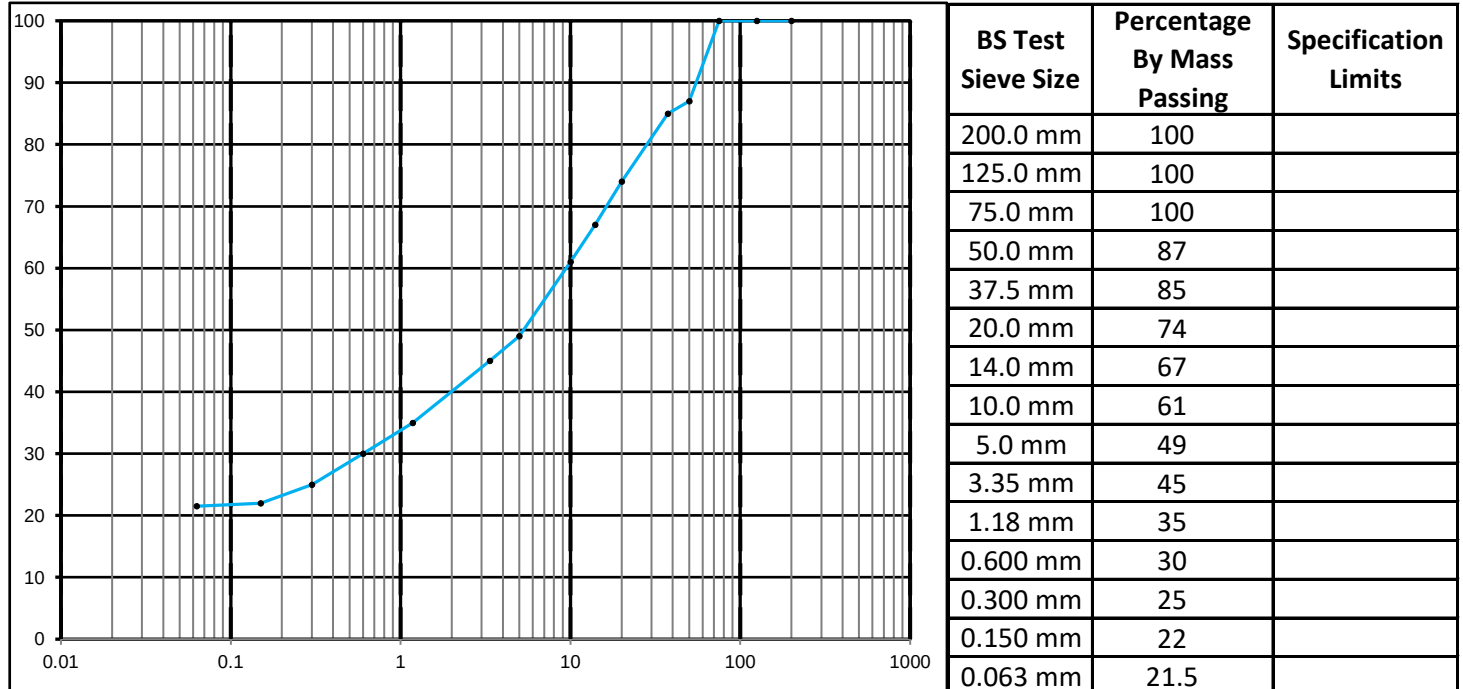
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Unknown
Laboratory Ref. No:	S92292	Method of Sampling:	Unknown
Client Ref. No:	AT4-1	Sampled By:	Client
Date and Time of Sampling:	17/12/2020	Tested By:	JP
Date of Receipt at Lab:	05/01/2021		
Date of Start of Test:	20/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775826

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AT4-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	20/01/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 24.5

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 04 February 2021
Test Report Ref: TR 775827

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

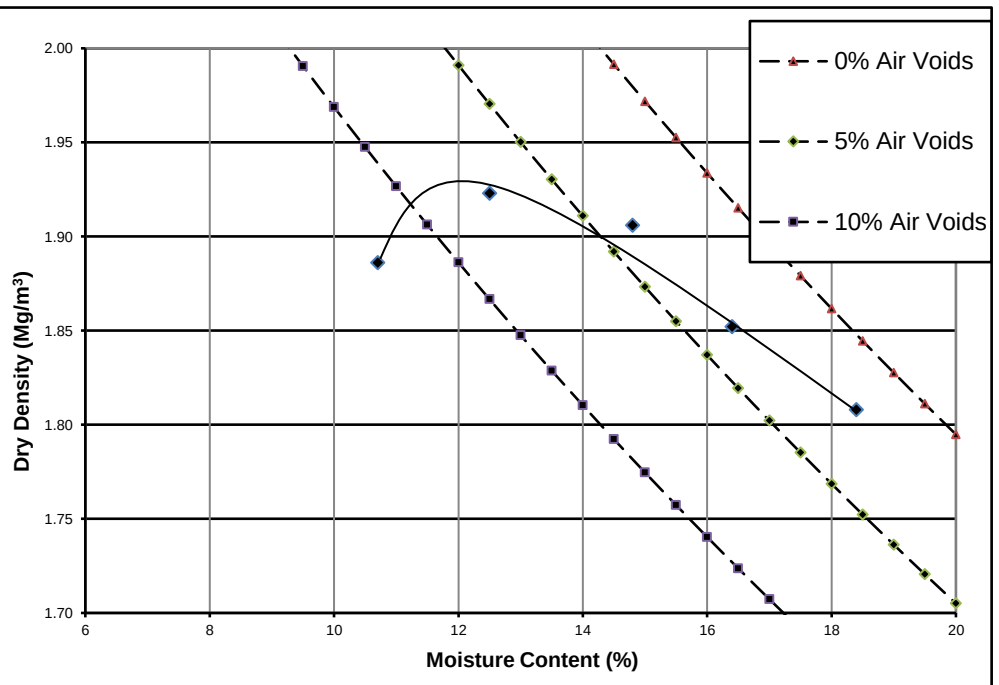
No
S92292
AT4-1
17/12/2020
05/01/2021
23/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **Zone X Single**

RESULTS:

Particle Density: 2.8Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	18 %
Retained on 20mm Sieve:	30 %
Moisture Content (%)	Dry Density Mg/m ³
10.7	1.89
12.5	1.92
14.8	1.91
16.4	1.85
18.4	1.81
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	1.93



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 15 February 2021
Test Report Ref: TR 775828

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92292
Client Ref. No:	AT4-1
Date and Time of Sampling:	17/12/2020
Date of Receipt at Lab:	05/01/2021
Date of Start of Test:	12/02/2021
Sampling Location:	Unknown
Name of Source:	Unknown
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	WK
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.47 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.59 Mg/m ³
Apparent Particle density =	2.80 Mg/m ³
Water absorption (of dry mass) =	4.8 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784322

Page 1 of 1

LABORATORY TEST REPORT

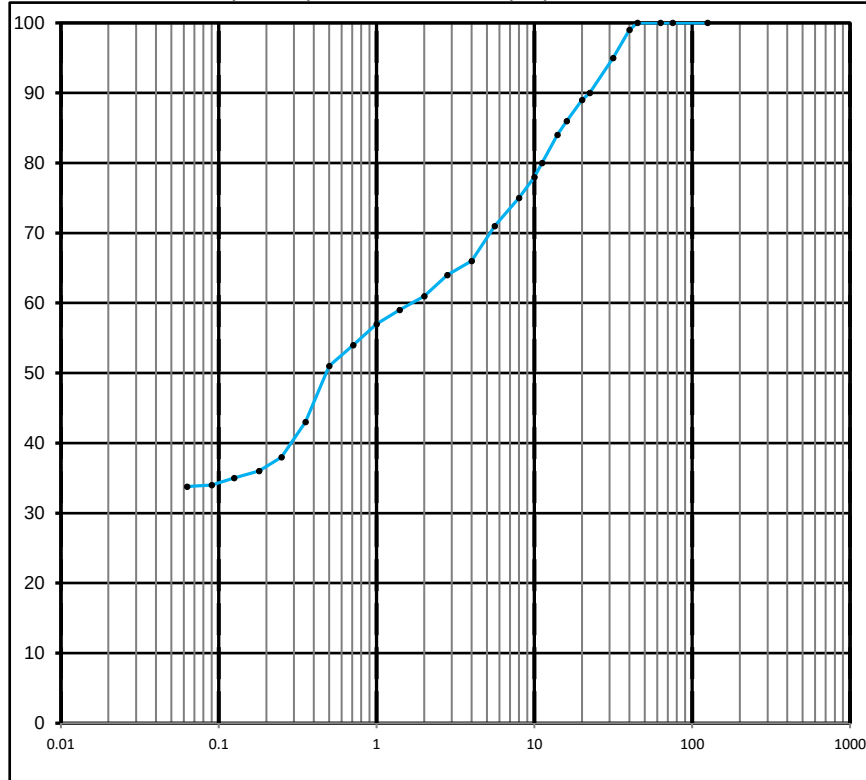
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AT5-1 - 0.2m	Sampled By:	Client
Date and Time of Sampling:	10/02/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	99	
31.5 mm	95	
22.4 mm	90	
20.0 mm	89	
16.0 mm	86	
14.0 mm	84	
11.2 mm	80	
10.0 mm	78	
8.0 mm	75	
5.6 mm	71	
4.0 mm	66	
2.8 mm	64	
2.0 mm	61	
1.4 mm	59	
1.0 mm	57	
0.710 mm	54	
0.500 mm	51	
0.355 mm	43	
0.250 mm	38	
0.180 mm	36	
0.125 mm	35	
0.090 mm	34	
0.063 mm	33.8	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784323

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AT5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 15.2

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 784324

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

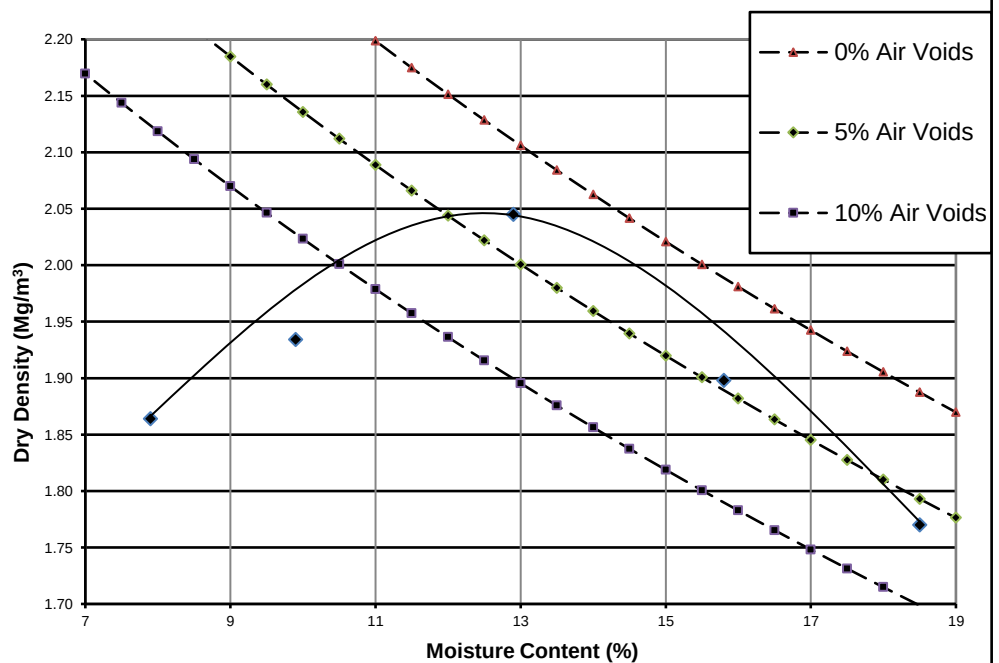
No
S93086
AT5-1 - 0.2m
10/02/2021
12/02/2021
15/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AJ**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.9Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	3 %
Retained on 20mm Sieve:	18 %
Moisture Content (%)	Dry Density Mg/m ³
7.9	1.86
9.9	1.93
12.9	2.05
15.8	1.90
18.5	1.77
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.05



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784325

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AT5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.43 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.55 Mg/m ³
Apparent Particle density =	2.76 Mg/m ³
Water absorption (of dry mass) =	5.0 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by: S Parry Sharon Parry Aggregate Team Coordinator
---------------------------------	--

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777458

Page 1 of 1

LABORATORY TEST REPORT

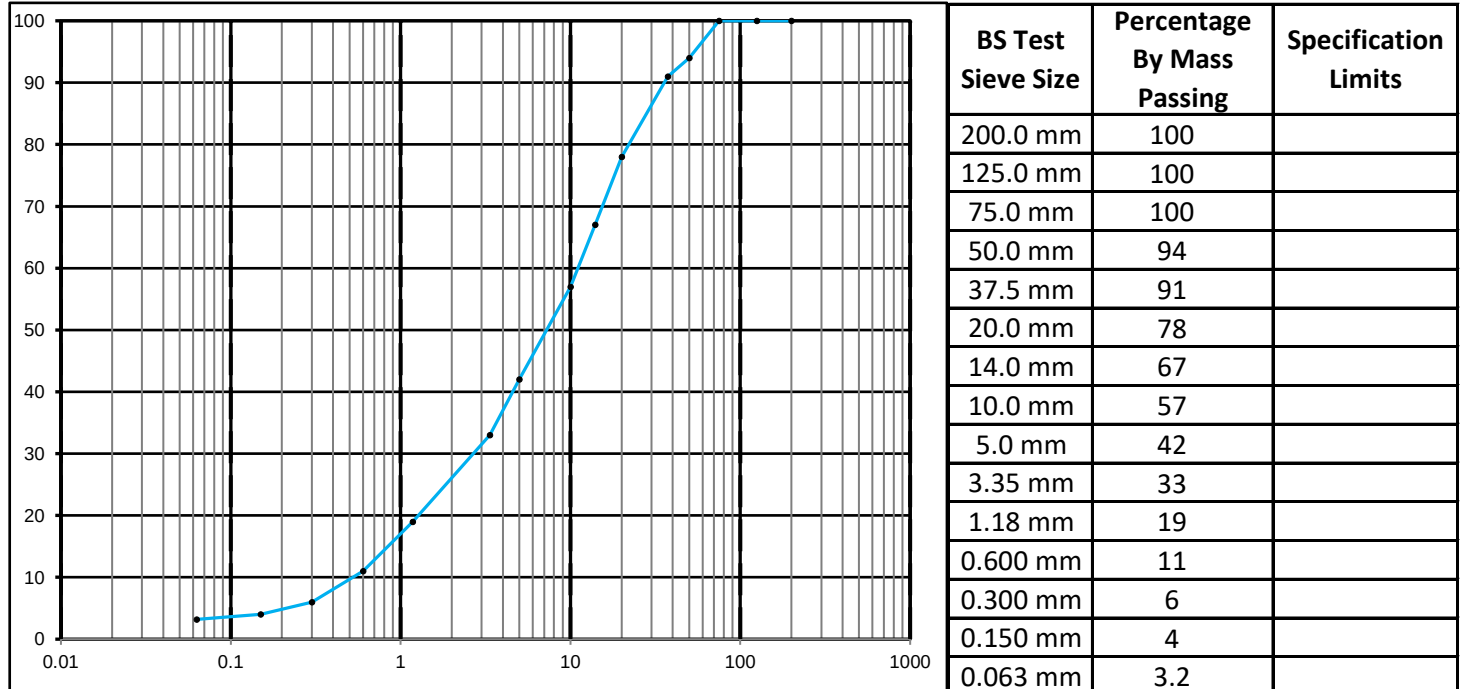
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a soil sample-
washing and sieving method in accordance with **BS1377-Part2-1990**

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S92460	Method of Sampling:	Unknown
Client Ref. No:	AT9-1	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	14/01/2021		
Date of Start of Test:	29/01/2021		
Sampling Location:	Unknown		
Material Description:	Soil		
Target Specification:	N/A		

RESULTS: Were any unrepresentative lumps present? No



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777459

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AT9-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	29/01/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.8

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 17 February 2021
Test Report Ref: TR 777460

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

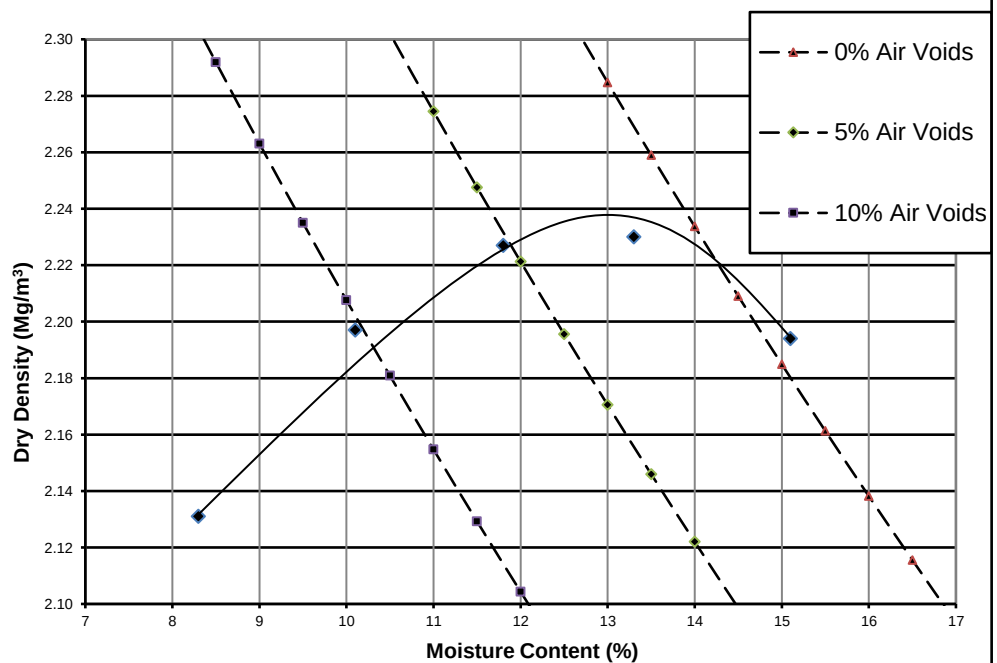
No
S92460
AT9-1
Unknown
14/01/2021
15/02/2021
Unknown
Soil

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure: **3.2.5.2**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.25Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	4 %
Retained on 20mm Sieve:	18 %
Moisture Content (%)	Dry Density Mg/m ³
8.3	2.13
10.1	2.20
11.8	2.23
13.3	2.23
15.1	2.19
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.23



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 01 March 2021
Test Report Ref: TR 777461

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AT9-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	25/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JH
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.92 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.03 Mg/m ³
Apparent Particle density =	3.26 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777462

Page 1 of 1

LABORATORY TEST REPORT

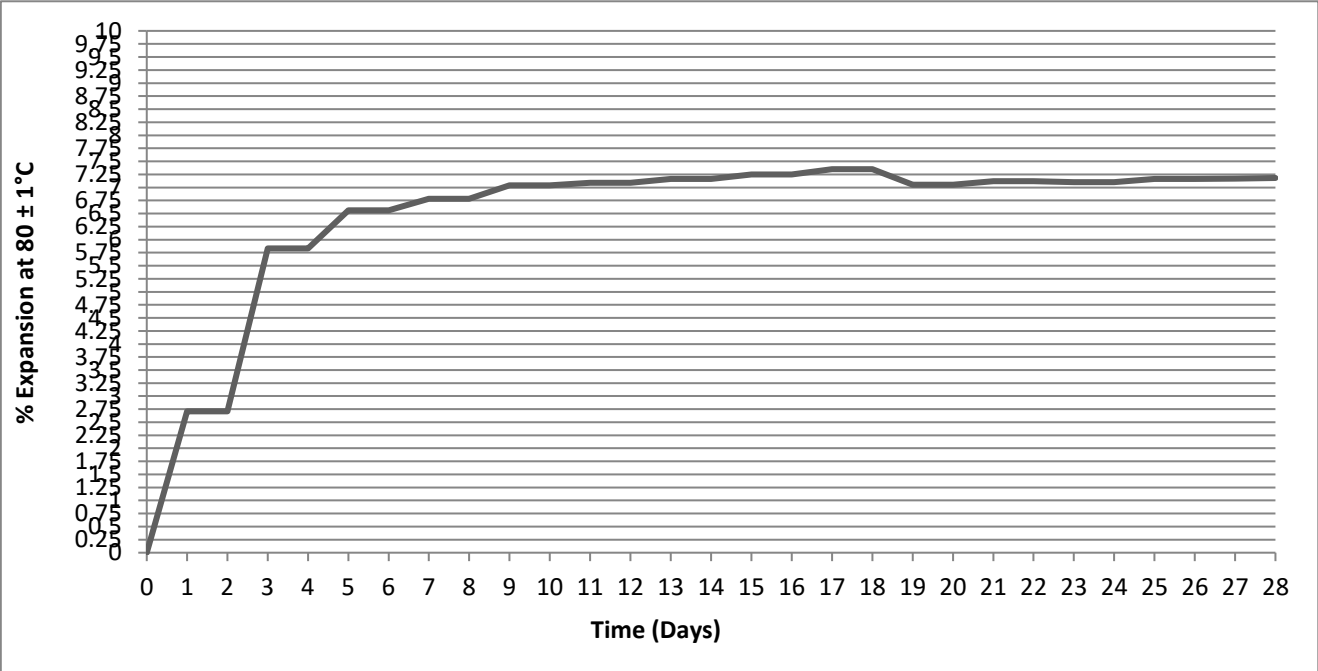
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S92460
Client Ref. No:	AT9-1
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	14/01/2021
Date of Start of Test:	13/02/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	SW
Material Description:	Soil
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 7.18



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 27

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 09 August 2023
Test Report Ref: TR 968645

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

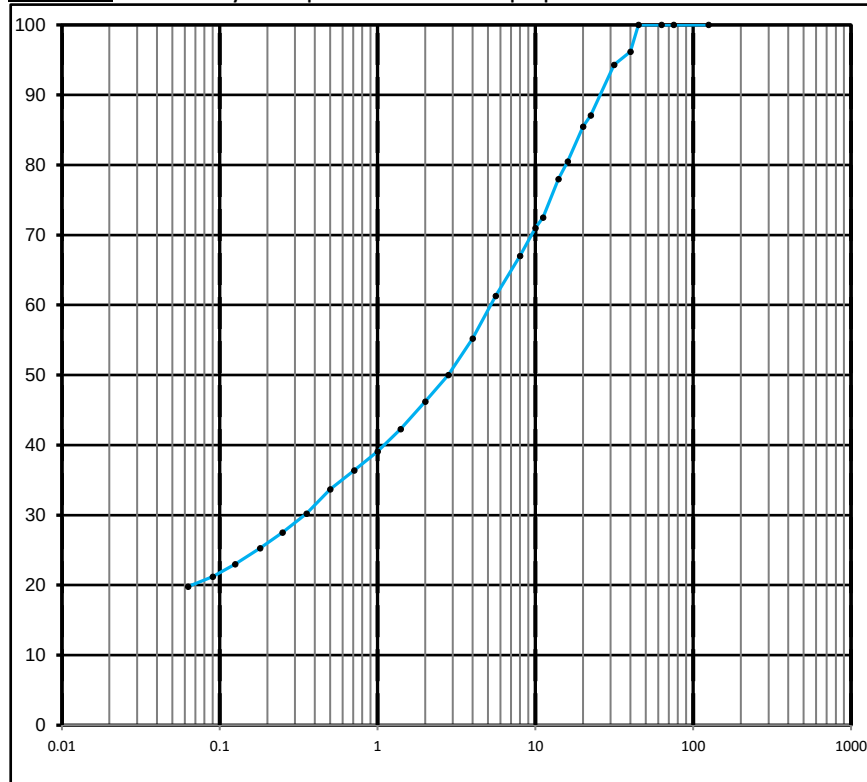
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S112528	Method of Sampling:	Unknown
Client Ref. No:	AT9-1 @ 0.90M	Sampled By:	Client (Test results apply to sample as received)
Date and Time of Sampling:	13/07/2023	Tested By:	KH
Date of Receipt at Lab:	25/07/2023		
Date of Start of Test:	26/07/2023		
Sampling Location:	AT9-1 @ 0.90M		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	100	
40.0 mm	96	
31.5 mm	94	
22.4 mm	87	
20.0 mm	86	
16.0 mm	81	
14.0 mm	78	
11.2 mm	73	
10.0 mm	71	
8.0 mm	67	
5.6 mm	61	
4.0 mm	55	
2.8 mm	50	
2.0 mm	46	
1.4 mm	42	
1.0 mm	39	
0.710 mm	36	
0.500 mm	34	
0.355 mm	30	
0.250 mm	28	
0.180 mm	25	
0.125 mm	23	
0.090 mm	21	
0.063 mm	19.8	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 10 August 2023
Test Report Ref: TR 968646

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AT9-1 @ 0.90M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	26/07/2023
Sampling Location:	AT9-1 @ 0.90M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	KH
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 13.1

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Chantelle Kopec-Williams
Job Coordinator

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 17 November 2023
Test Report Ref: TR 968647

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil using a 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

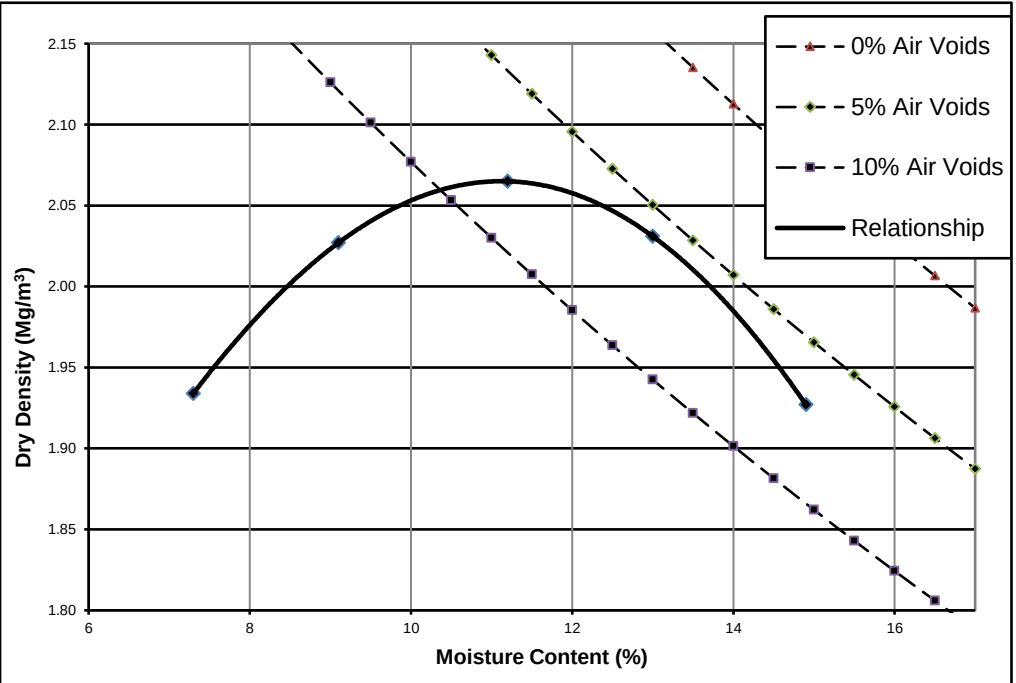
No
S112528
AT9-1 @ 0.90M
13/07/2023
25/07/2023
15/11/2023
AT9-1 @ 0.90M
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client (Test results apply to sample as received)**
Tested By: **KG**
Sample Preparation Procedure: **3.2.7.3**
Sample Preparation Method: **Separate batches**

RESULTS:

Particle Density: 3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	7
Retained on 20mm Sieve:	19
Moisture Content (%)	Dry Density Mg/m ³
7.3	1.93
9.1	2.03
11.2	2.07
13.0	2.03
14.9	1.93
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
11.0	2.07



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Mathew Sayer
Laboratory Operations Manager

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 03 August 2023
Test Report Ref: TR 968648

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AT9-1 @ 0.90M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	03/08/2023
Sampling Location:	AT9-1 @ 0.90M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	MP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.61 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.70 Mg/m ³
Apparent Particle density =	2.88 Mg/m ³
Water absorption (of dry mass) =	3.5 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Chantelle Kopec-Williams Job Coordinator
---------------------------------	---

St Modwen Developments (Llanwern) Limited
Two Devon Way
Longbridge
Birmingham
B31 2TS

Date: 15 September 2023
Test Report Ref: TR 968649

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

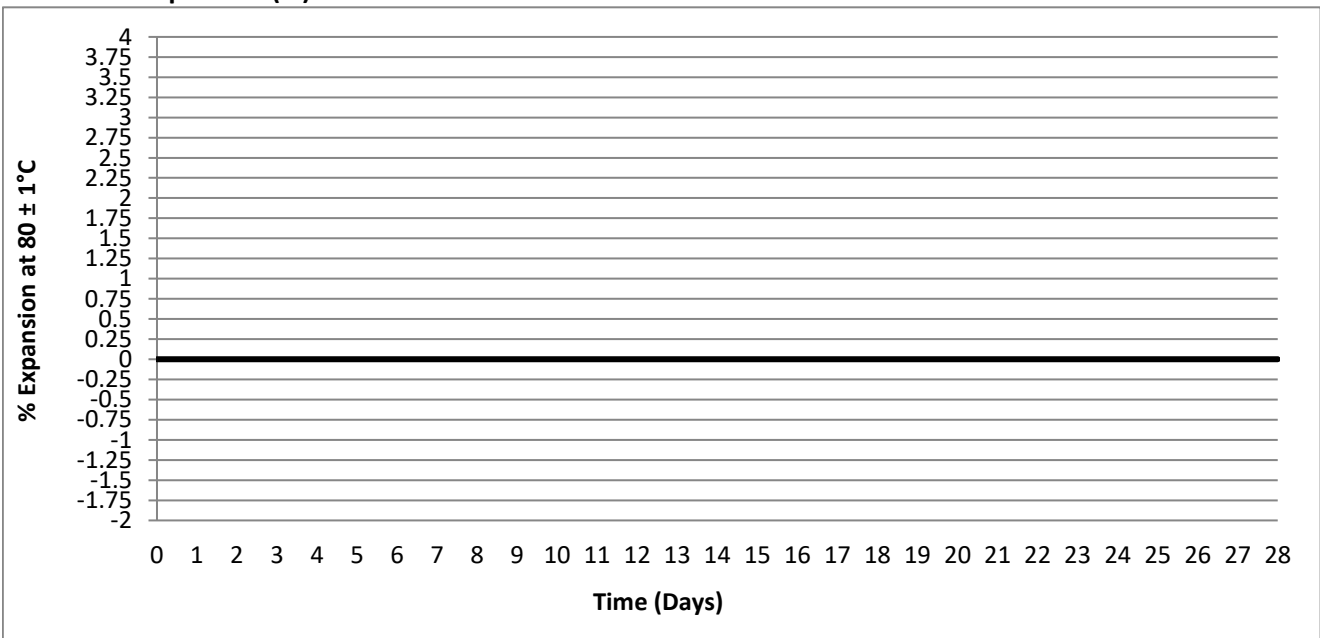
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S112528
Client Ref. No:	AT9-1 @ 0.90M
Date and Time of Sampling:	13/07/2023
Date of Receipt at Lab:	25/07/2023
Date of Start of Test:	15/09/2023
Sampling Location:	AT9-1 @ 0.90M
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client (Test results apply to sample as received)
Tested By:	AW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion at 28 days (%) = 0
Maximum Expansion (%) = 0



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

<u>Comments:</u> % of material retained on the 20mm sieve = 21	Report checked and approved by: Mathew Sayer Laboratory Operations Manager
--	---

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784313

Page 1 of 1

LABORATORY TEST REPORT

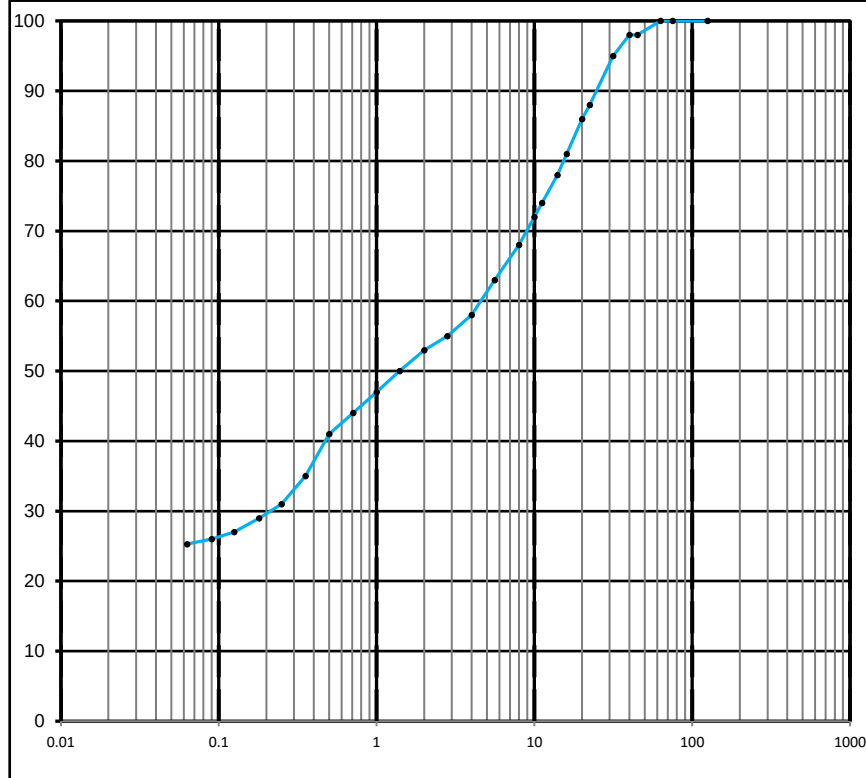
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AU5-1 - 0.2m	Sampled By:	Client
Date and Time of Sampling:	10/02/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	98	
40.0 mm	98	
31.5 mm	95	
22.4 mm	88	
20.0 mm	86	
16.0 mm	81	
14.0 mm	78	
11.2 mm	74	
10.0 mm	72	
8.0 mm	68	
5.6 mm	63	
4.0 mm	58	
2.8 mm	55	
2.0 mm	53	
1.4 mm	50	
1.0 mm	47	
0.710 mm	44	
0.500 mm	41	
0.355 mm	35	
0.250 mm	31	
0.180 mm	29	
0.125 mm	27	
0.090 mm	26	
0.063 mm	25.3	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784314

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AU5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 12.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 20 April 2021
Test Report Ref: TR 784315

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

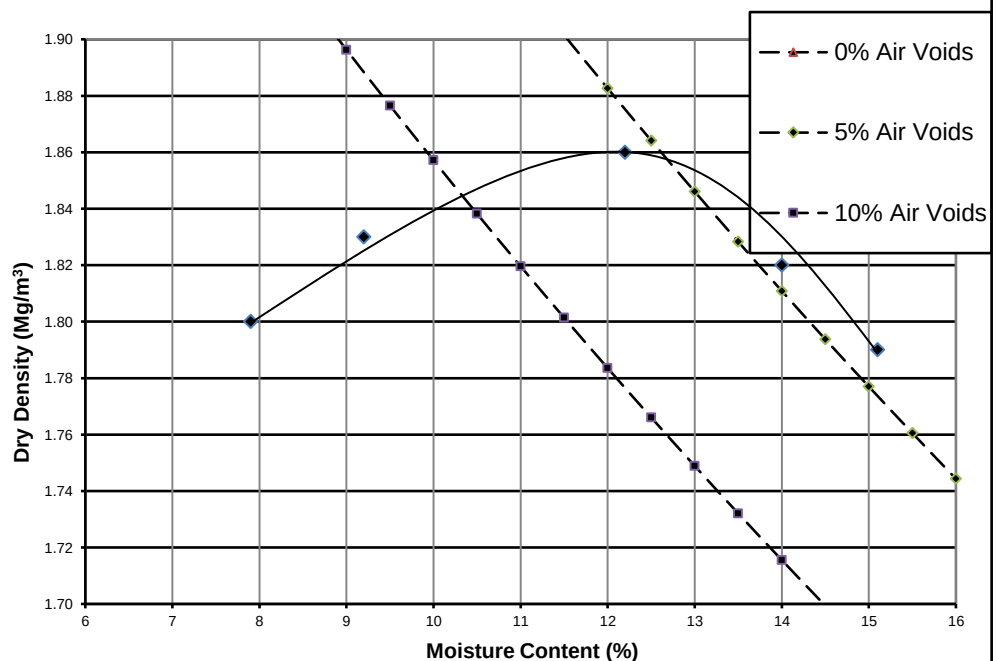
No
S93086
AU5-1 - 0.2m
10/02/2021
12/02/2021
08/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 2.6Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	6 %
Retained on 20mm Sieve:	17 %
Moisture Content (%)	Dry Density Mg/m ³
7.9	1.80
9.2	1.83
12.2	1.86
14.0	1.82
15.1	1.79
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
12.0	1.86



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matthew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784316

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AU5-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.27 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.43 Mg/m ³
Apparent Particle density =	2.73 Mg/m ³
Water absorption (of dry mass) =	7.4 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784308

Page 1 of 1

LABORATORY TEST REPORT

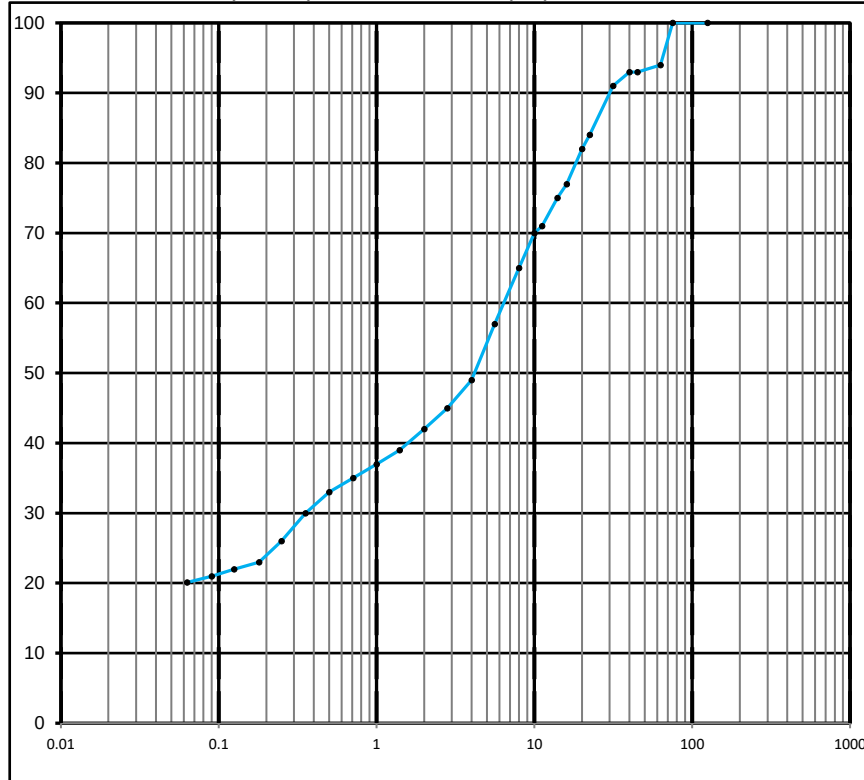
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AU6-1 - 0.2m	Sampled By:	Client
Date and Time of Sampling:	10/02/2021	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	94	
45.0 mm	93	
40.0 mm	93	
31.5 mm	91	
22.4 mm	84	
20.0 mm	82	
16.0 mm	77	
14.0 mm	75	
11.2 mm	71	
10.0 mm	70	
8.0 mm	65	
5.6 mm	57	
4.0 mm	49	
2.8 mm	45	
2.0 mm	42	
1.4 mm	39	
1.0 mm	37	
0.710 mm	35	
0.500 mm	33	
0.355 mm	30	
0.250 mm	26	
0.180 mm	23	
0.125 mm	22	
0.090 mm	21	
0.063 mm	20.1	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 24 March 2021
Test Report Ref: TR 784309

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AU6-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 20.7

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 April 2021
Test Report Ref: TR 784310

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

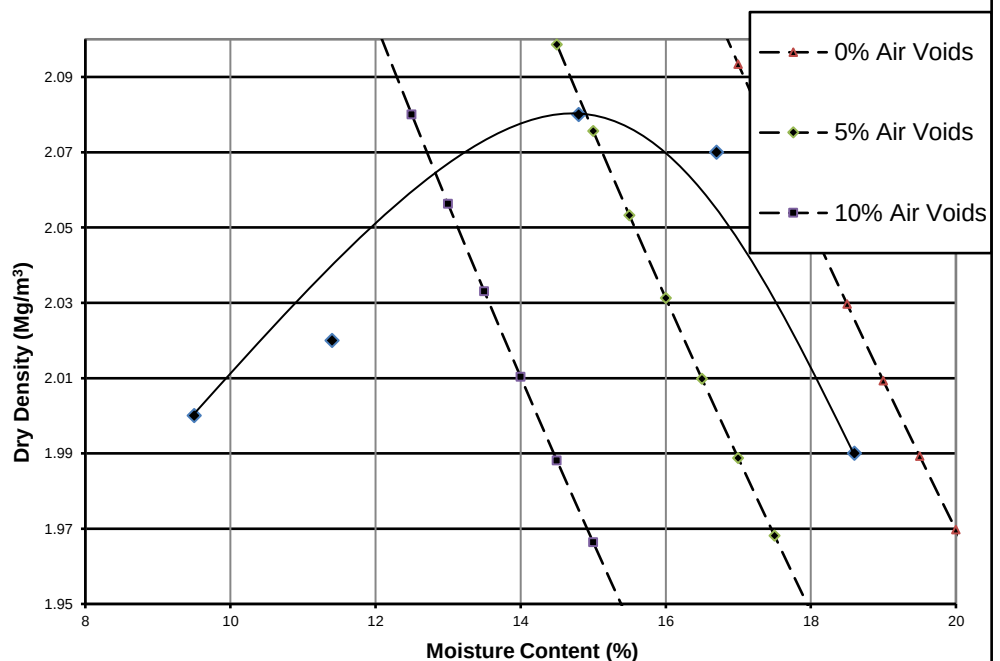
No
S93086
AU6-1 - 0.2m
10/02/2021
12/02/2021
14/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method: **Clause X Single**

RESULTS:

Particle Density: 3.25Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	20 %
Retained on 20mm Sieve:	34 %
Moisture Content (%)	Dry Density Mg/m ³
9.5	2.00
11.4	2.02
14.8	2.08
16.7	2.07
18.6	1.99
Optimum Moisture Content (%)	Maximum Dry Density Mg/m³
15.0	2.08



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

Matnew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 31 March 2021
Test Report Ref: TR 784311

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AU6-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	28/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.19 Mg/m ³
Particle density on a saturated and surface-dried basis =	2.33 Mg/m ³
Apparent Particle density =	2.55 Mg/m ³
Water absorption (of dry mass) =	6.3 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784312

Page 1 of 1

LABORATORY TEST REPORT

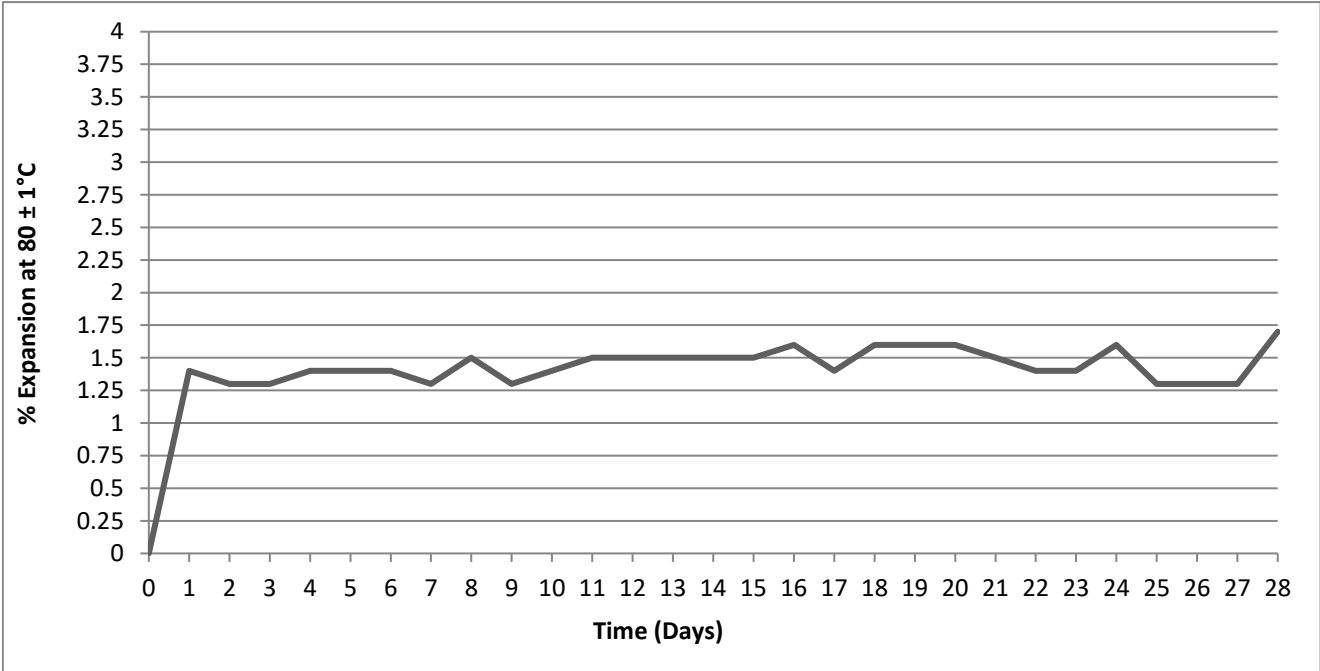
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AU6-1 - 0.2m
Date and Time of Sampling:	10/02/2021
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.7



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 35

Report checked and approved by:

Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784299

Page 1 of 1

LABORATORY TEST REPORT

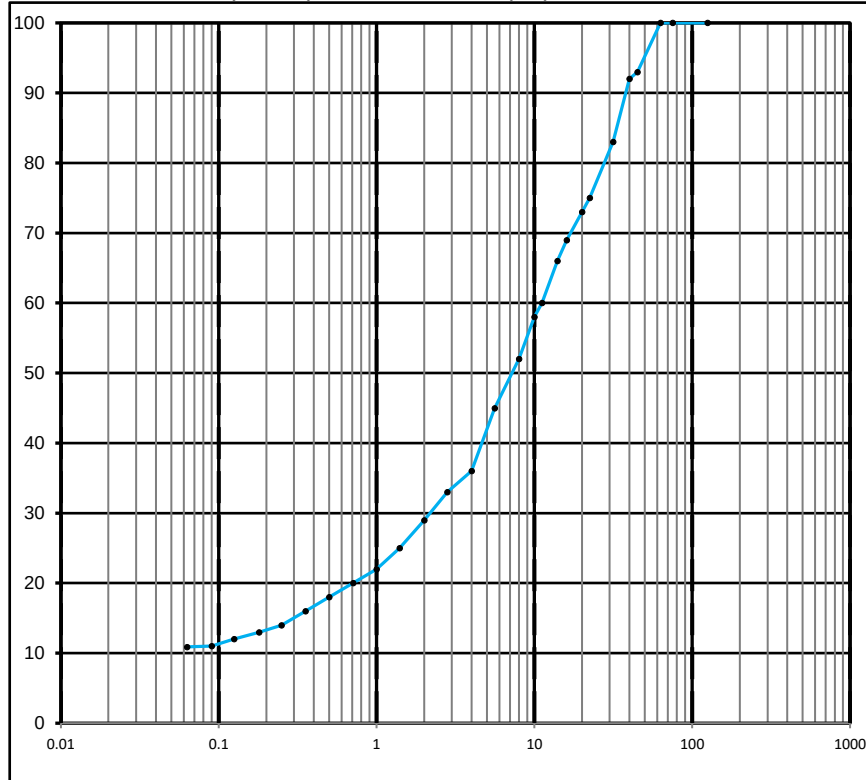
TEST REQUIREMENTS:

To determine the Particle Size Distribution (PSD) of a aggregate sample-
washing and sieving method in accordance with **BS EN 933-1: 2012**.

SAMPLE DETAILS:

Certificate of sampling received:	No	Name of Source:	Former Llanwern Steelworks
Laboratory Ref. No:	S93086	Method of Sampling:	Unknown
Client Ref. No:	AV6-1 - 0.5m	Sampled By:	Client
Date and Time of Sampling:	Unknown	Tested By:	JP
Date of Receipt at Lab:	12/02/2021		
Date of Start of Test:	08/03/2021		
Sampling Location:	Unknown		
Material Description	Granular - 40mm Down		

RESULTS: Were any unrepresentative lumps present? No



BS Test Sieve Size	Percentage By Mass Passing	Specification Limit
125.0 mm	100	
75.0 mm	100	
63.0 mm	100	
45.0 mm	93	
40.0 mm	92	
31.5 mm	83	
22.4 mm	75	
20.0 mm	73	
16.0 mm	69	
14.0 mm	66	
11.2 mm	60	
10.0 mm	58	
8.0 mm	52	
5.6 mm	45	
4.0 mm	36	
2.8 mm	33	
2.0 mm	29	
1.4 mm	25	
1.0 mm	22	
0.710 mm	20	
0.500 mm	18	
0.355 mm	16	
0.250 mm	14	
0.180 mm	13	
0.125 mm	12	
0.090 mm	11	
0.063 mm	10.9	

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry

Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 18 March 2021
Test Report Ref: TR 784300

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Water Content of aggregates by – drying in a ventilated oven according to **BS EN 1097-5: 2008**

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AV6-1 - 0.5m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	08/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	JP
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Water Content (%) = 14.9

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
Aggregate Team Coordinator

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 19 April 2021
Test Report Ref: TR 784301

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Dry Density and Moisture Content Relationship of soil sieve 4.5kg Rammer Method in accordance with BS 1377: 4: 1990 Clause 3.6

SAMPLE DETAILS:

Certificate of sampling received:
Laboratory Ref. No:
Client Ref. :
Date and Time of Sampling:
Date of Receipt at Lab:
Date of Start of Test:
Sampling Location:
Soil Description:

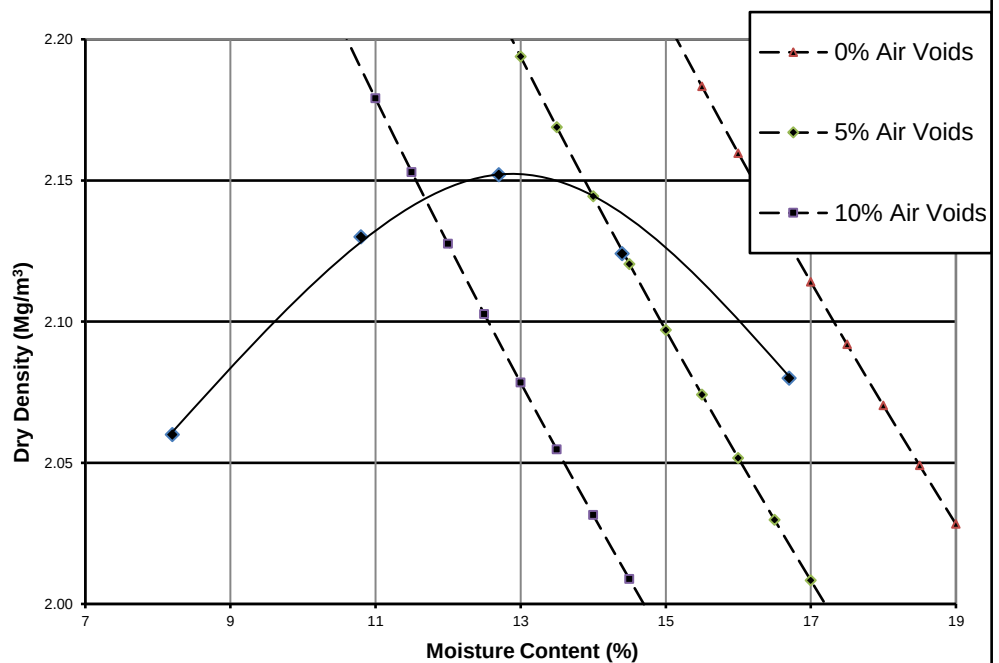
No
S93086
AV6-1 - 0.5m
Unknown
12/02/2021
14/04/2021
Unknown
Granular - 40mm Down

Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **LW**
Sample Preparation Procedure: **3.2.5.3**
Sample Preparation Method: **Single**

RESULTS:

Particle Density: 3.3Mg/m³
(Assumed)

Retained on 37.5mm Sieve:	9 %
Retained on 20mm Sieve:	24 %
Moisture Content (%)	Dry Density Mg/m ³
8.2	2.06
10.8	2.13
12.7	2.15
14.4	2.12
16.7	2.08
Optimum Moisture Content (%)	Maximum Dry Density Mg/m ³
13.0	2.15



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:


Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 07 April 2021
Test Report Ref: TR 784302

Page 1 of 1

LABORATORY TEST REPORT

TEST REQUIREMENTS:

To determine the Particle Density and water absorption for aggregate sample between 4 mm and 31.5mm, in accordance with
BS EN 1097-6: 2013 Clause 8

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AV6-1 - 0.5m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	30/03/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	DW
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Particle density on an oven-dried basis =	2.92 Mg/m ³
Particle density on a saturated and surface-dried basis =	3.03 Mg/m ³
Apparent Particle density =	3.26 Mg/m ³
Water absorption (of dry mass) =	3.6 %

This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

None

Report checked and approved by:



Mathew Sayer
Aggregate Team Manager

St Modwen Developments Limited
Park Point
17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 05 July 2021
Test Report Ref: TR 784303

Page 1 of 1

LABORATORY TEST REPORT

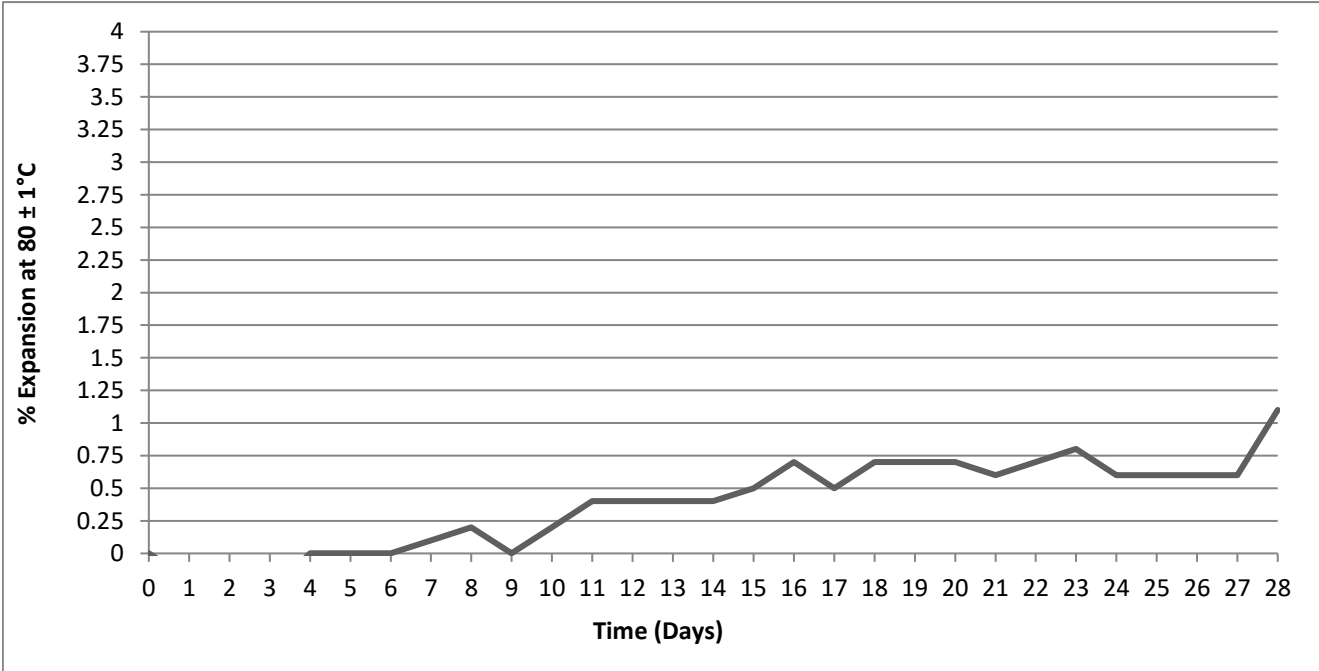
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

SAMPLE DETAILS:

Certificate of sampling received:	No
Laboratory Ref. No:	S93086
Client Ref. No:	AV6-1 - 0.5m
Date and Time of Sampling:	Unknown
Date of Receipt at Lab:	12/02/2021
Date of Start of Test:	07/06/2021
Sampling Location:	Unknown
Name of Source:	Former Llanwern Steelworks
Method of Sampling:	Unknown
Sampled By:	Client
Tested By:	IJ
Material Description:	Granular - 40mm Down
Target Specification:	N/A

RESULTS:

Total Expansion (%) = 1.1



This test report shall not be reproduced, except in full, without the written approval of Celtest Company Limited.

These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 24

Report checked and approved by:

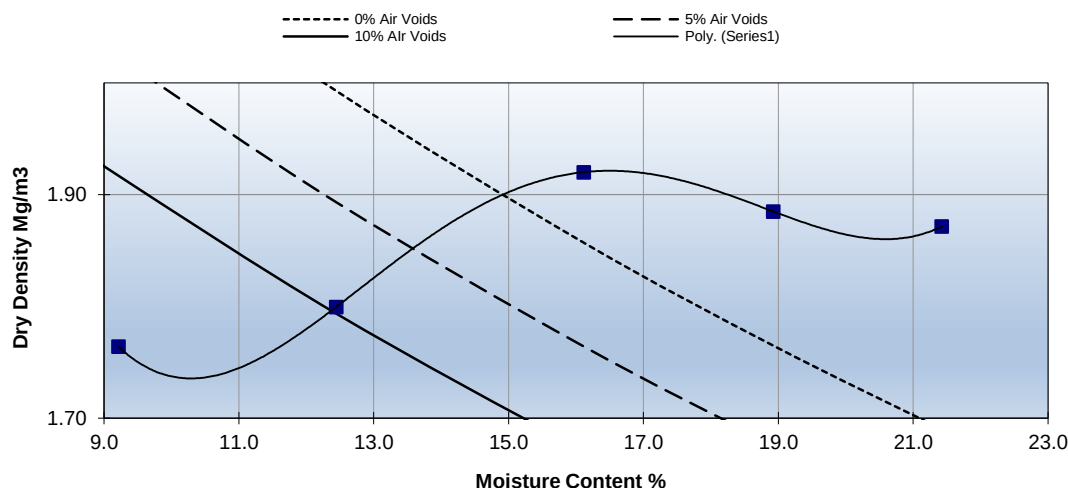
Mathew Sayer
Aggregate Team Manager

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/1
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	A05-1 AT 1.2M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:	0			
No of sub samples :	0	% retained on 37.5mm sieve	1.4			
Mould Size:	CBR	% retained on 20mm sieve	3.1			
Bulk Density: Mg/m³	1.93		2.02	2.23	2.24	2.27
Moisture Content: %	9.2		12	16	19	21
Dry Density: Mg/m³	1.76		1.80	1.92	1.88	1.87



Maximum Dry Density (Mg/m³)

1.92

Optimum Moisture Content (%)

17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

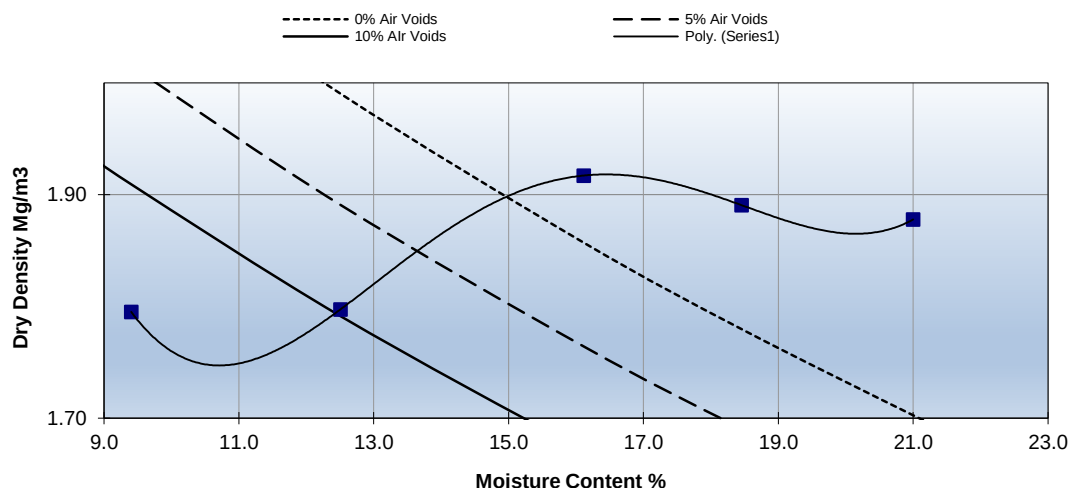
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/2
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	AP5-1 AT 1.6M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/2	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:	0			
No of sub samples :	0	% retained on 37.5mm sieve	1.6			
Mould Size:	CBR	% retained on 20mm sieve	3.1			
Bulk Density: Mg/m³		1.96	2.02	2.23	2.24	2.27
Moisture Content: %		9.4	13	16	18	21
Dry Density: Mg/m³		1.80	1.80	1.92	1.89	1.88



Maximum Dry Density (Mg/m³)

1.92

Optimum Moisture Content (%)

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

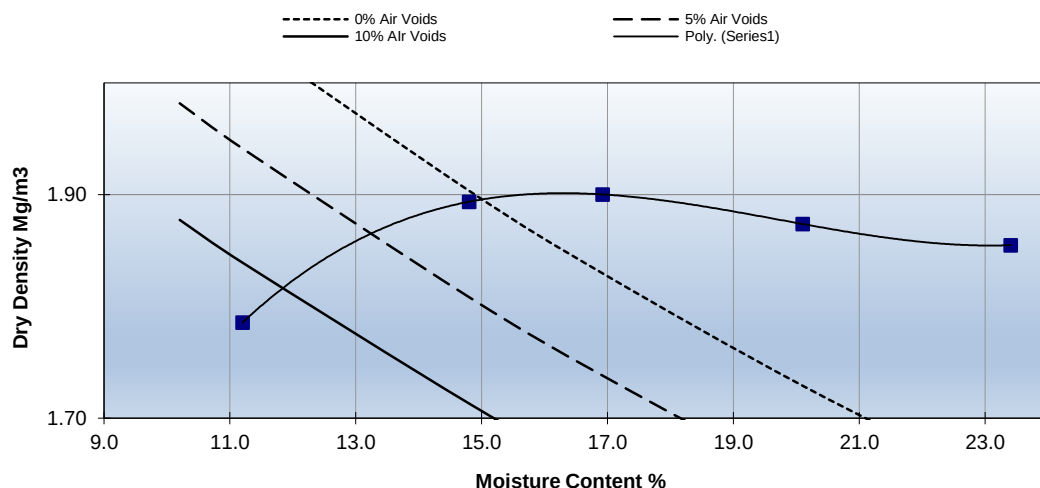
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/3
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	A06-1 AT 0.9M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/3	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:	0			
No of sub samples :	0	% retained on 37.5mm sieve	1.5			
Mould Size:	CBR	% retained on 20mm sieve	3.3			
Bulk Density: Mg/m³		1.99	2.17	2.22	2.25	2.29
Moisture Content: %		11	15	17	20	23
Dry Density: Mg/m³		1.79	1.89	1.90	1.87	1.85



Maximum Dry Density (Mg/m³)

1.90

Optimum Moisture Content (%)

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

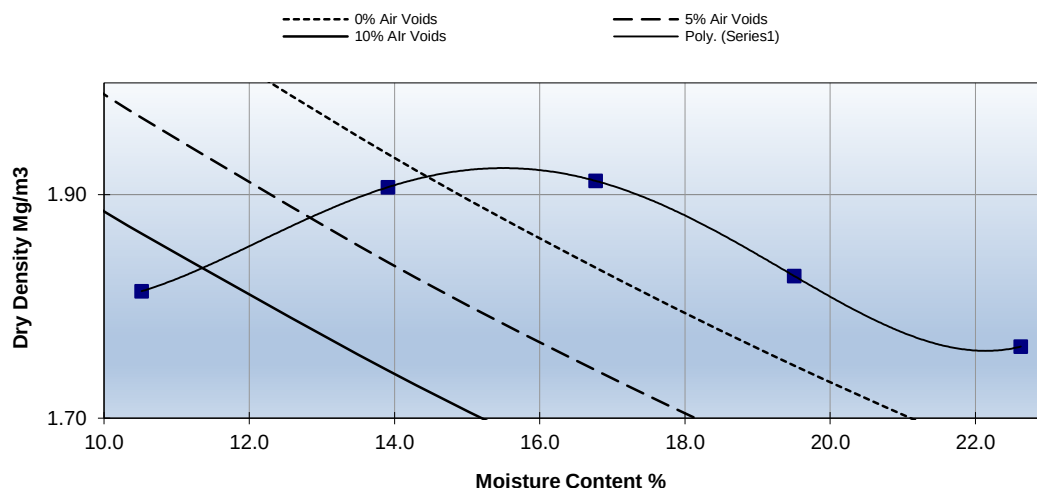
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/4
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	AK9-1 AT 0.8M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/4	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			0	
No of sub samples :	0	% retained on 37.5mm sieve			0.5	
Mould Size:	CBR	% retained on 20mm sieve			1.4	
Bulk Density: Mg/m³		2.00	2.17	2.23	2.18	2.16
Moisture Content: %		11	14	17	20	23
Dry Density: Mg/m³		1.81	1.91	1.91	1.83	1.76



Maximum Dry Density (Mg/m³)

1.92

Optimum Moisture Content (%)

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

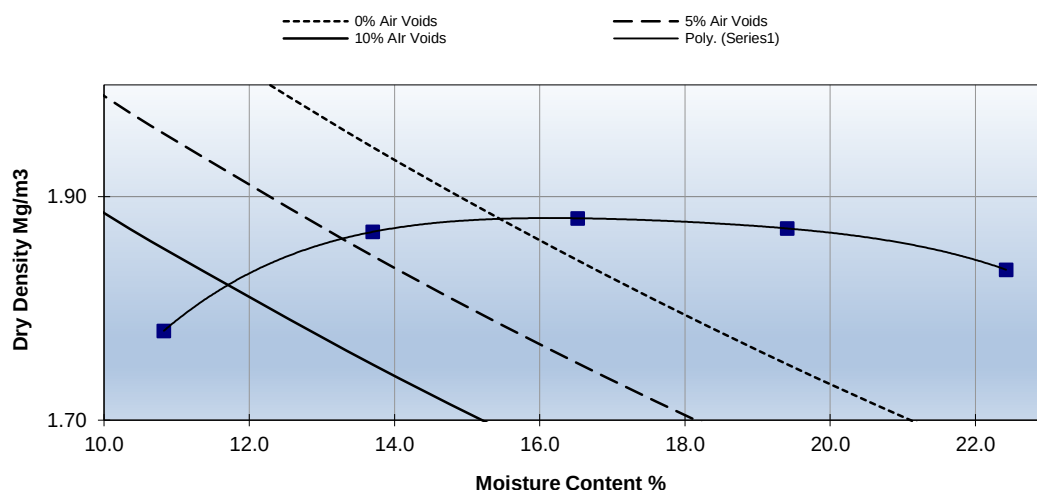
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/5
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	AK8-1 AT 1.45M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/5	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:	0			
No of sub samples :	0	% retained on 37.5mm sieve	1.8			
Mould Size:	CBR	% retained on 20mm sieve	3.9			
Bulk Density: Mg/m³		1.97	2.12	2.19	2.23	2.25
Moisture Content: %		11	14	17	19	22
Dry Density: Mg/m³		1.78	1.87	1.88	1.87	1.83



Maximum Dry Density (Mg/m³)

1.88

Optimum Moisture Content (%)

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

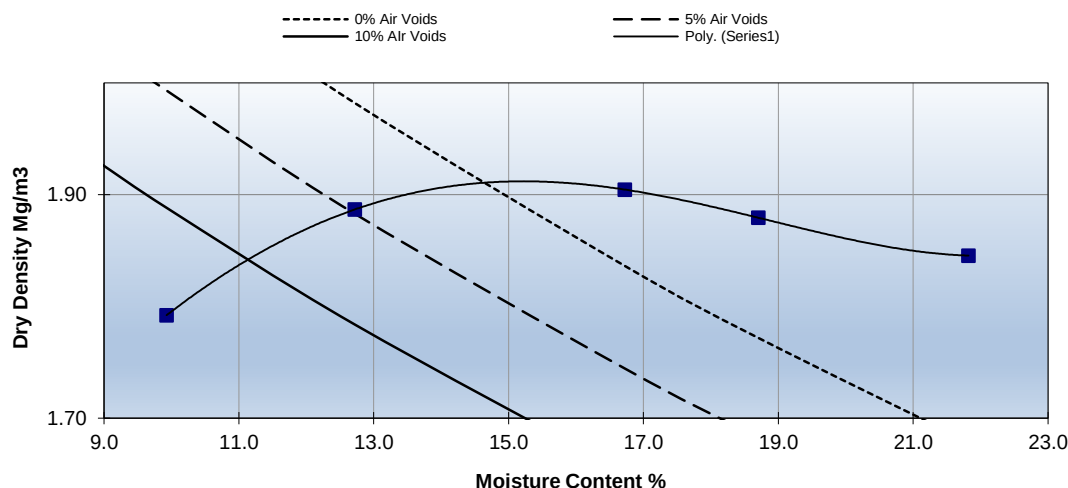
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/6
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	AL9-1 AT 2.2M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/6	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			0	
No of sub samples :	0	% retained on 37.5mm sieve			1.2	
Mould Size:	CBR	% retained on 20mm sieve			3.2	
Bulk Density: Mg/m³		1.97	2.13	2.22	2.23	2.25
Moisture Content: %		9.9	13	17	19	22
Dry Density: Mg/m³		1.79	1.89	1.90	1.88	1.85



Maximum Dry Density (Mg/m³)

1.91

Optimum Moisture Content (%)

15

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

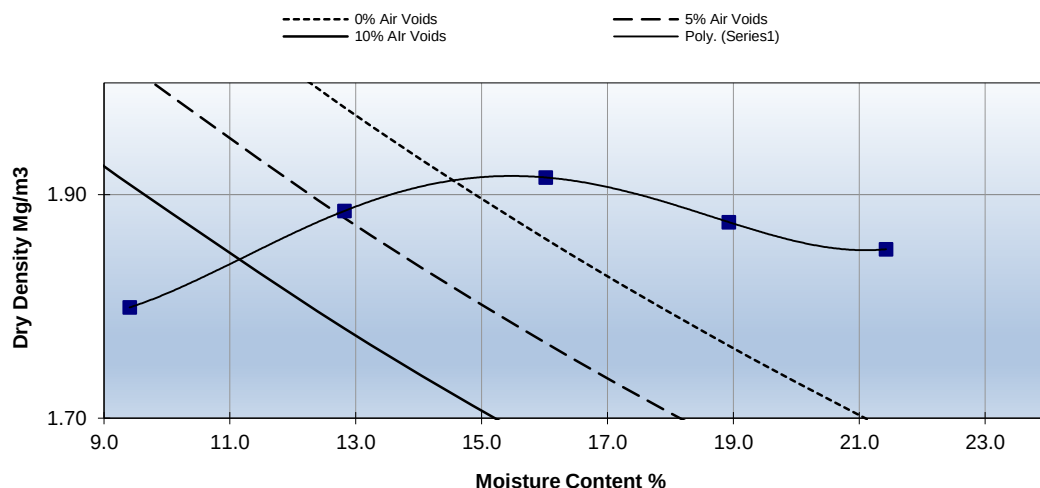
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0037/8
Client:	Celtest Company Limited	Date Sampled:	21/03/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	12/04/2024
	LL57 4LH	Date Tested:	16/04/2024
	AJ9-1 AT 1.1M	Date Reported:	22/04/2023

Originator: Mathew Sayer

Client Sample Ref :	S0037/8	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 40mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:	0			
No of sub samples :	0	% retained on 37.5mm sieve	2.1			
Mould Size:	CBR	% retained on 20mm sieve	4.0			
Bulk Density: Mg/m³		1.97	2.13	2.22	2.23	2.25
Moisture Content: %		9.4	13	16	19	21
Dry Density: Mg/m³		1.80	1.89	1.92	1.88	1.85



Maximum Dry Density (Mg/m³)

1.92

Optimum Moisture Content (%)

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

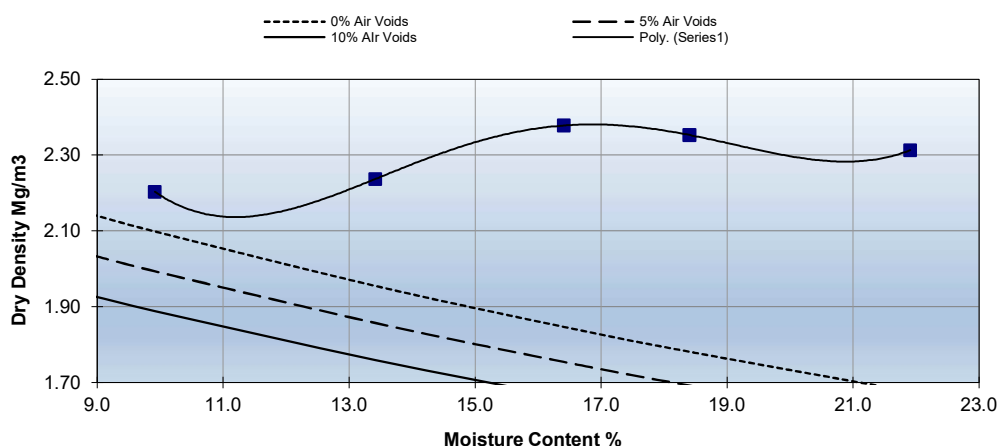
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.1
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AW6-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			7.0	
Mould Size:	CBR	% retained on 20mm sieve			22.6	
Bulk Density: Mg/m³		2.42	2.54	2.77	2.79	2.82
Moisture Content: %		9.9	13	16	18	22
Dry Density: Mg/m³		2.20	2.24	2.38	2.35	2.31



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

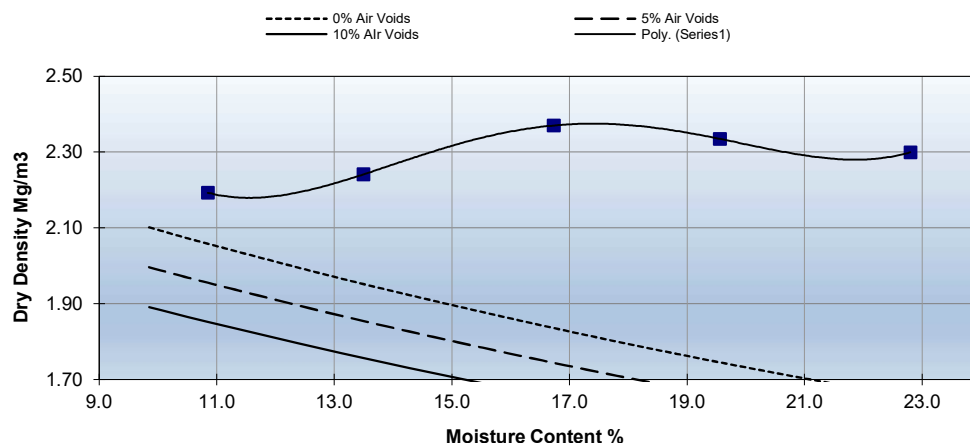
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.10
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AR9-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.7	
Mould Size:	CBR	% retained on 20mm sieve			10.5	
Bulk Density: Mg/m³		2.43	2.54	2.77	2.79	2.82
Moisture Content: %		11	13	17	20	23
Dry Density: Mg/m³		2.19	2.24	2.37	2.33	2.30



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.37
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

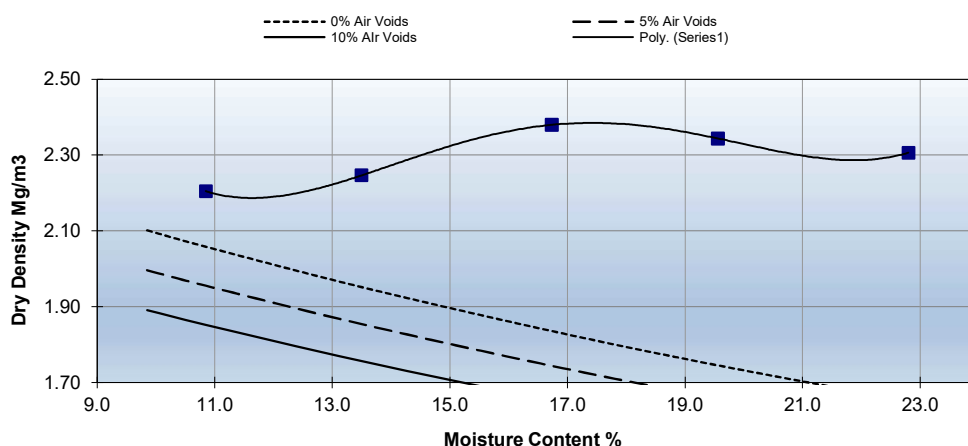


LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.11
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AR1-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.7	
Mould Size:	CBR	% retained on 20mm sieve			10.5	
Bulk Density: Mg/m³		2.44	2.55	2.78	2.80	2.83
Moisture Content: %		11	13	17	20	23
Dry Density: Mg/m³		2.20	2.25	2.38	2.34	2.31



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

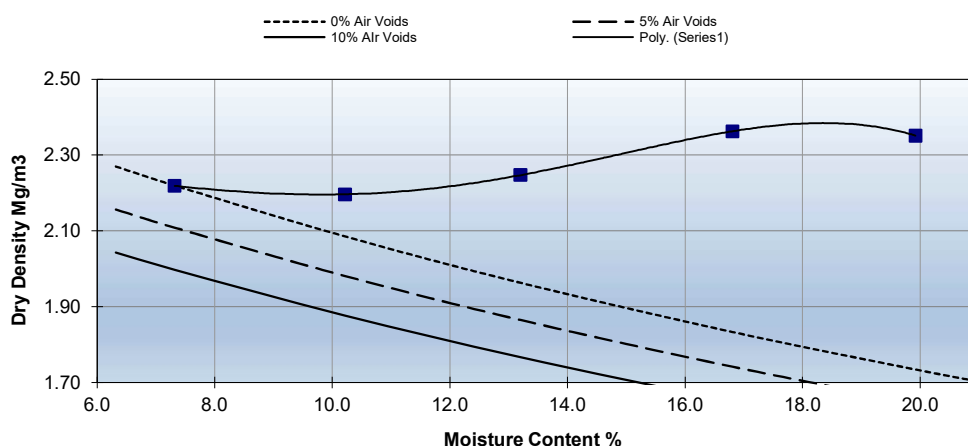
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.12
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024
Originator: Mathew Sayer			

Client Sample Ref :	AQ9-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.7	
Mould Size:	CBR	% retained on 20mm sieve			10.5	
Bulk Density: Mg/m³		2.38	2.42	2.54	2.76	2.82
Moisture Content: %		7.3	10	13	17	20
Dry Density: Mg/m³		2.22	2.20	2.25	2.36	2.35



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
18

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

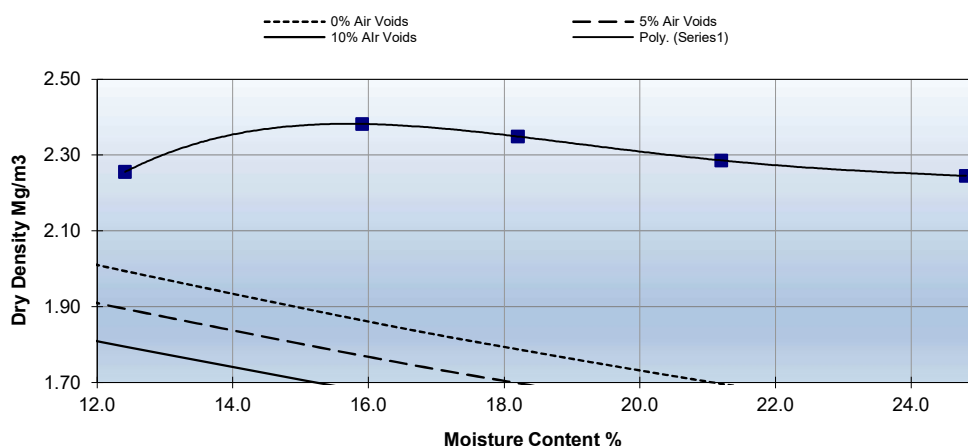
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.13
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AP9-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			4.2	
Mould Size:	CBR	% retained on 20mm sieve			11.0	
Bulk Density: Mg/m³		2.54	2.76	2.78	2.77	2.80
Moisture Content: %		12	16	18	21	25
Dry Density: Mg/m³		2.26	2.38	2.35	2.29	2.25



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38

16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

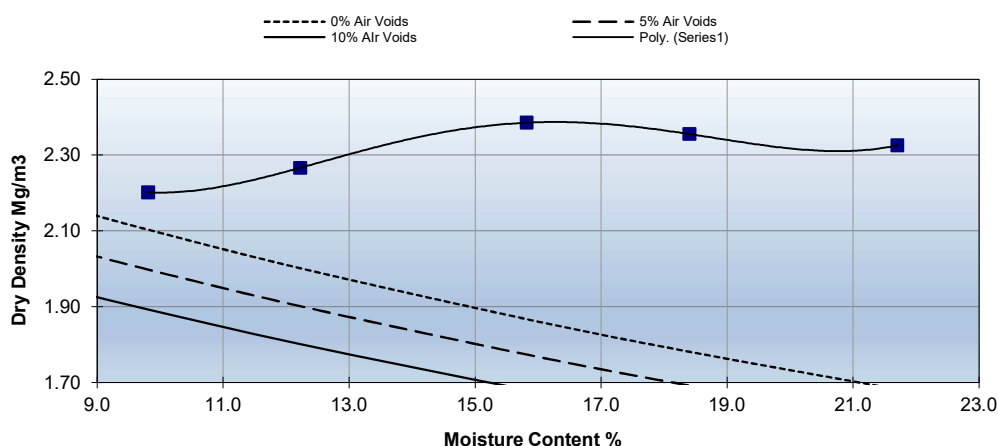
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.15
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AP3-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.7	
Mould Size:	CBR	% retained on 20mm sieve			9.7	
Bulk Density: Mg/m³		2.42	2.54	2.76	2.79	2.83
Moisture Content: %		9.8	12	16	18	22
Dry Density: Mg/m³		2.20	2.27	2.39	2.36	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.39
16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

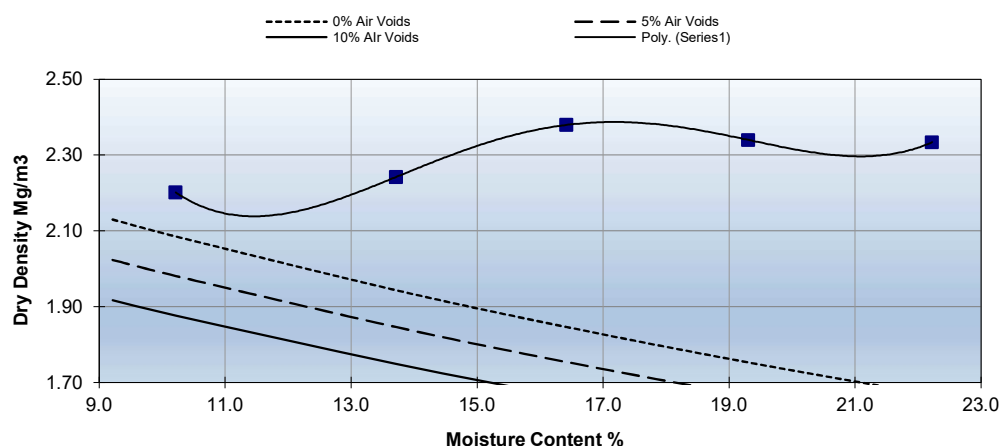
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.16
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	A09-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.55	2.77	2.79	2.85
Moisture Content: %		10	14	16	19	22
Dry Density: Mg/m³		2.20	2.24	2.38	2.34	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.39
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

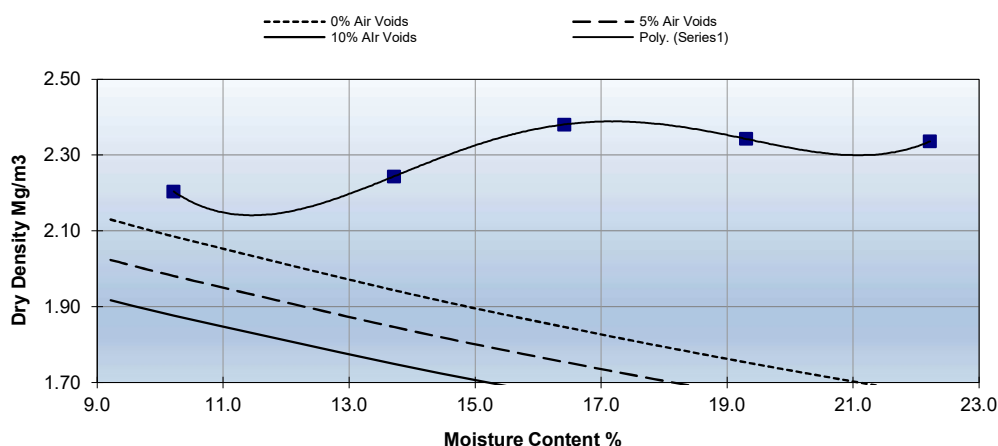
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.16
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	A09-1	Date Reported:	10/05/2024
Originator: Mathew Sayer			

Client Sample Ref :	A03-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.55	2.77	2.79	2.86
Moisture Content: %		10	14	16	19	22
Dry Density: Mg/m³		2.20	2.24	2.38	2.34	2.34



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.39
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

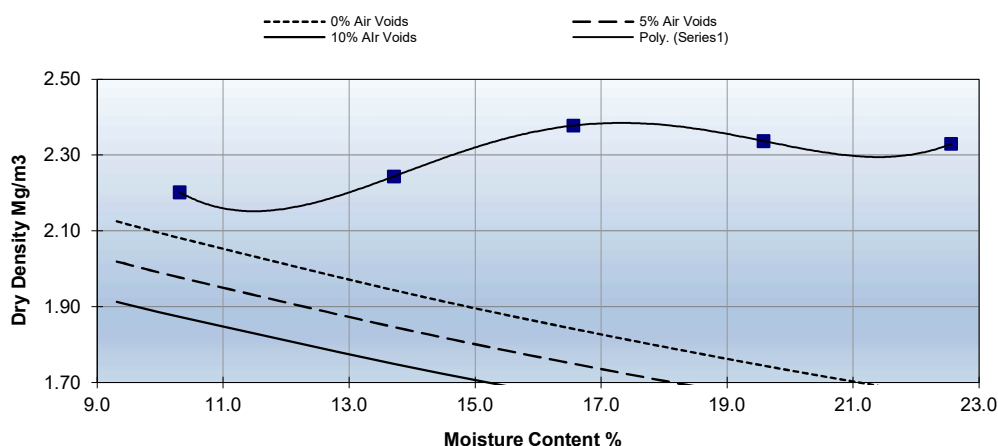
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.18
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024
Originator: Mathew Sayer			

Client Sample Ref :	AN9-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.55	2.77	2.79	2.86
Moisture Content: %		10	14	17	20	23
Dry Density: Mg/m³		2.20	2.24	2.38	2.34	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

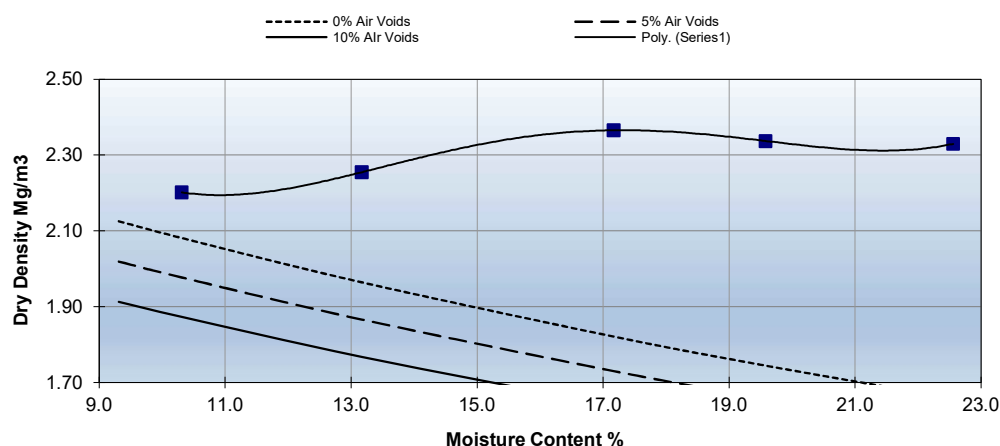
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
 Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.19
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AN4-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.55	2.77	2.79	2.86
Moisture Content: %		10	13	17	20	23
Dry Density: Mg/m³		2.20	2.25	2.37	2.34	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.37
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

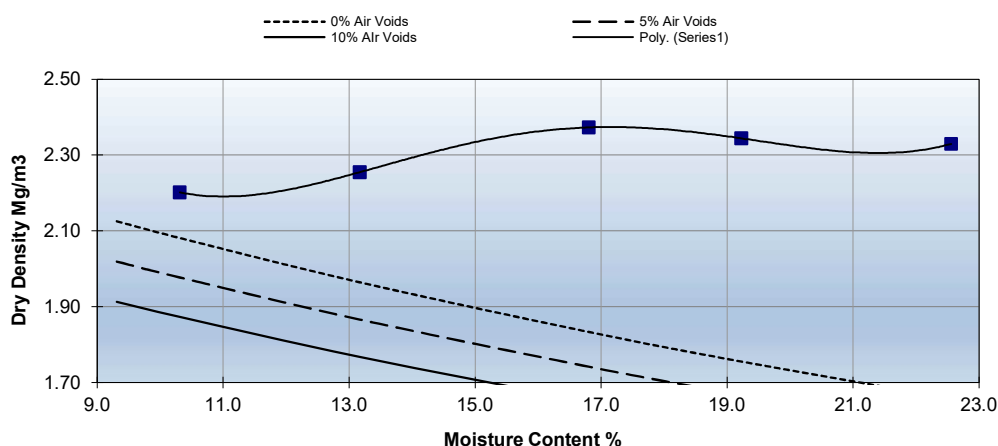
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.20
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AN3-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.55	2.77	2.79	2.86
Moisture Content: %		10	13	17	19	23
Dry Density: Mg/m³		2.20	2.25	2.37	2.34	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.37
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

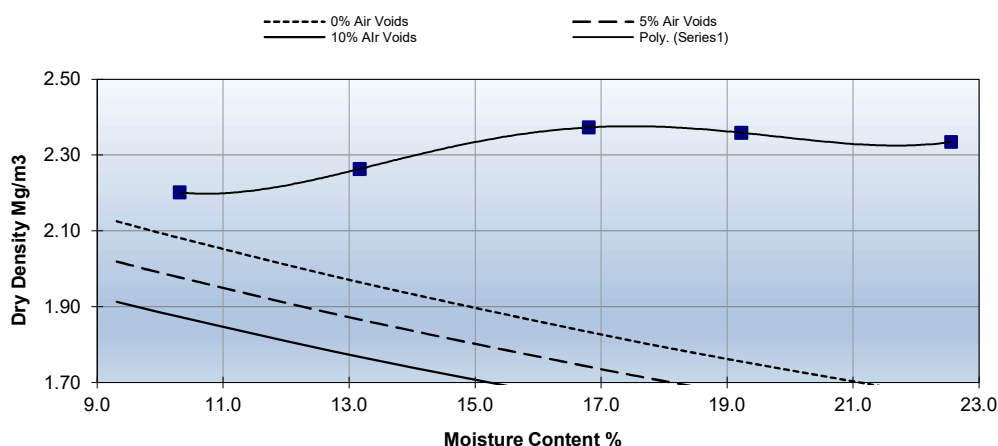
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.20
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024
Originator: Mathew Sayer			

Client Sample Ref :	AM9-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.4	
Mould Size:	CBR	% retained on 20mm sieve			8.8	
Bulk Density: Mg/m³		2.43	2.56	2.77	2.81	2.86
Moisture Content: %		10	13	17	19	23
Dry Density: Mg/m³		2.20	2.26	2.37	2.36	2.33



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
18

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

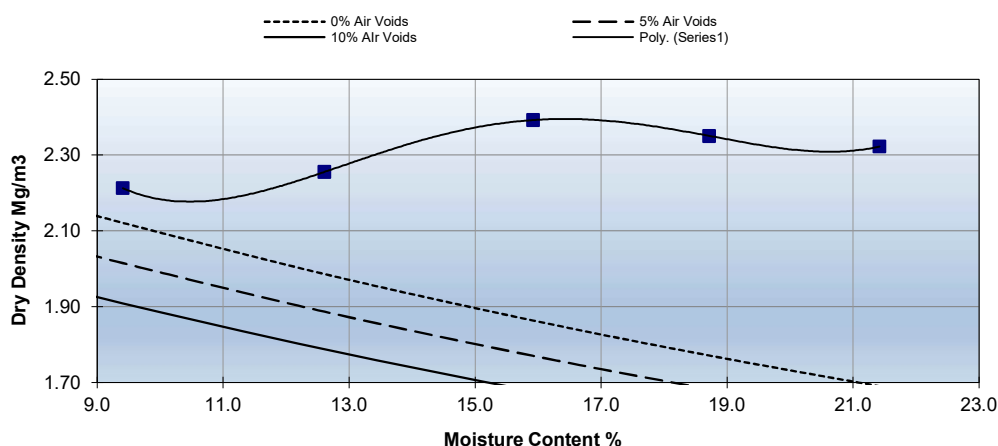
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.4
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024
Originator: Mathew Sayer			

Client Sample Ref :	AV5-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			4.5	
Mould Size:	CBR	% retained on 20mm sieve			13.4	
Bulk Density: Mg/m³		2.42	2.54	2.77	2.79	2.82
Moisture Content: %		9.4	13	16	19	21
Dry Density: Mg/m³		2.21	2.26	2.39	2.35	2.32



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.40
16

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

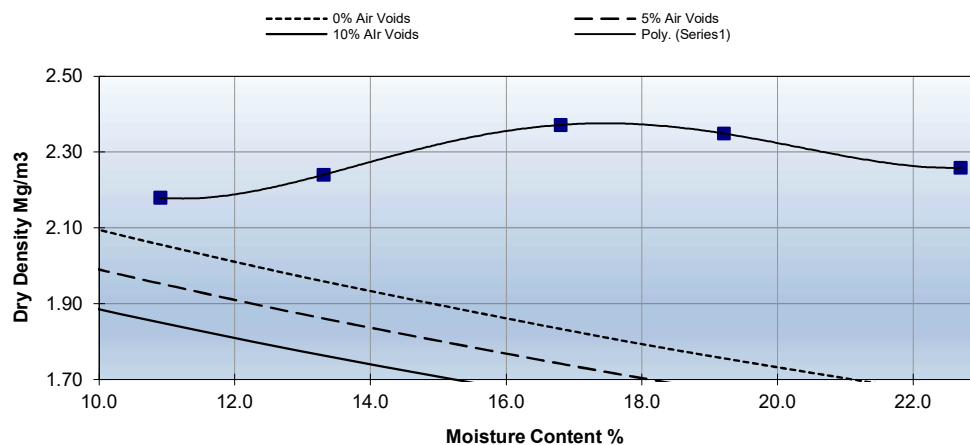
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.5
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AV4-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			4.5	
Mould Size:	CBR	% retained on 20mm sieve			13.4	
Bulk Density: Mg/m³		2.42	2.54	2.77	2.80	2.77
Moisture Content: %		11	13	17	19	23
Dry Density: Mg/m³		2.18	2.24	2.37	2.35	2.26



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
18

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

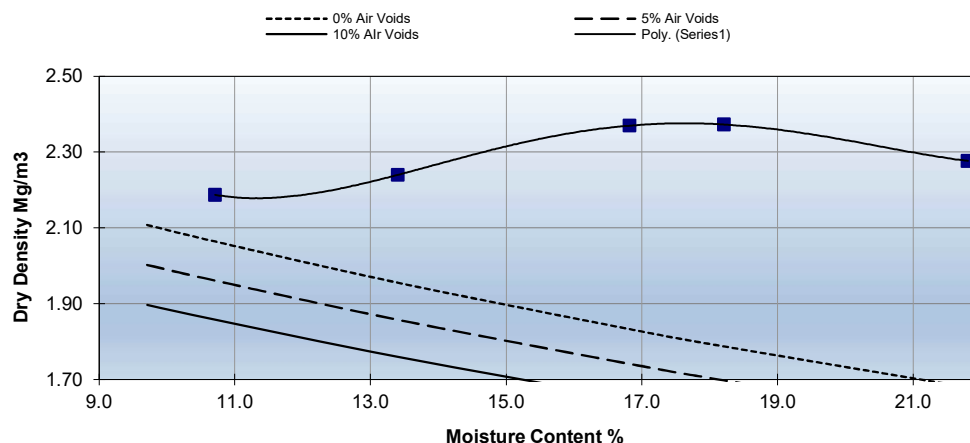
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.7
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AT7-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			4.4	
Mould Size:	CBR	% retained on 20mm sieve			12.6	
Bulk Density: Mg/m³		2.42	2.54	2.77	2.80	2.77
Moisture Content: %		11	13	17	18	22
Dry Density: Mg/m³		2.19	2.24	2.37	2.37	2.28



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.38
18

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

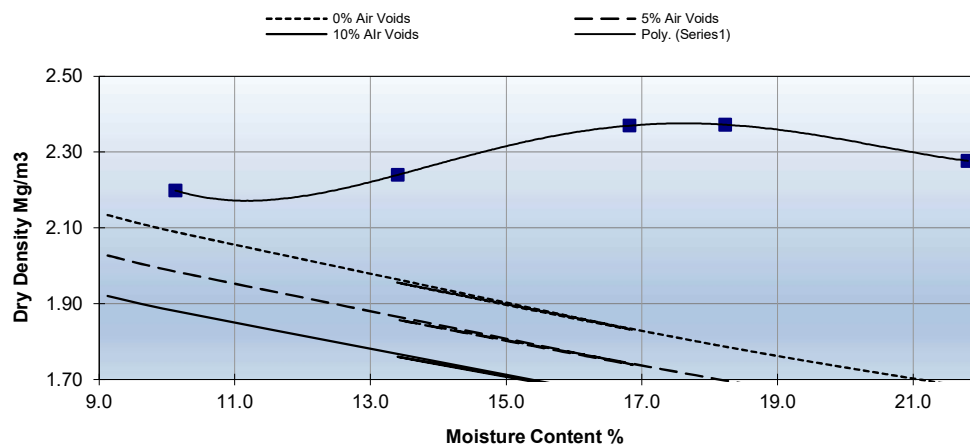
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.8
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AT3-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			4.4	
Mould Size:	CBR	% retained on 20mm sieve			12.6	
Bulk Density: Mg/m³		2.42	2.77	2.54	2.80	2.77
Moisture Content: %		10	17	13	18	22
Dry Density: Mg/m³		2.20	2.37	2.24	2.37	2.28



Maximum Dry Density (Mg/m³)

2.38

Optimum Moisture Content (%)

18

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

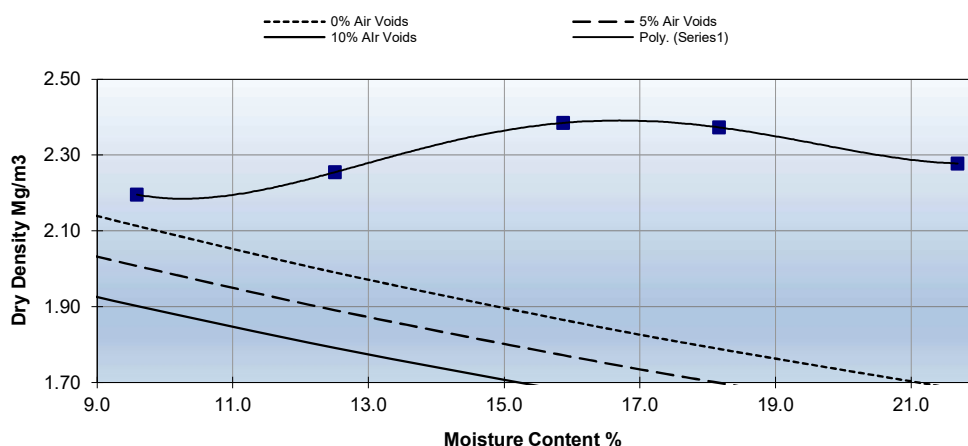
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.9
Client:	Celtest Company Limited	Date Sampled:	01/05/2024
	Trefelin, Llandegai, Bangor, Gwynedd	Date Received:	01/05/2024
	LL57 4LH	Date Tested:	09/05/2024
	-	Date Reported:	10/05/2024

Originator: Mathew Sayer

Client Sample Ref :	AS2-1	Supplier:	N/A			
Sample Location:	Unknown Stockpile	Sample Type:	Bulk			
Material:	Gravelly - 20mm Down	Sampled By:	Client			
Specification:	SHW Series 600: Table 6/2	Sampling Cert/Plan:	Yes			
Visual Description:	Stoney Clay	Preparation Method:	BS 1377-1: 2016			
Rammer used :	4.5kg	No of layers:			Multiple	
No of sub samples :	5	% retained on 37.5mm sieve			3.7	
Mould Size:	CBR	% retained on 20mm sieve			10.5	
Bulk Density: Mg/m³		2.41	2.54	2.76	2.80	2.77
Moisture Content: %		9.6	13	16	18	22
Dry Density: Mg/m³		2.20	2.25	2.38	2.37	2.28



Maximum Dry Density (Mg/m³)
Optimum Moisture Content (%)

2.39
17

The stated result only relates to the item/location tested, this report shall not be reproduced except in full.

Where CMTL are not responsible for sampling, the sample is tested in an as received condition

Tested in accordance with BS 1377: Part 4:1990: Clause 3.6

Particle Density (Mg/m³) - 2.65 (Assumed)

