

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

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LABORATORY TEST REPORT

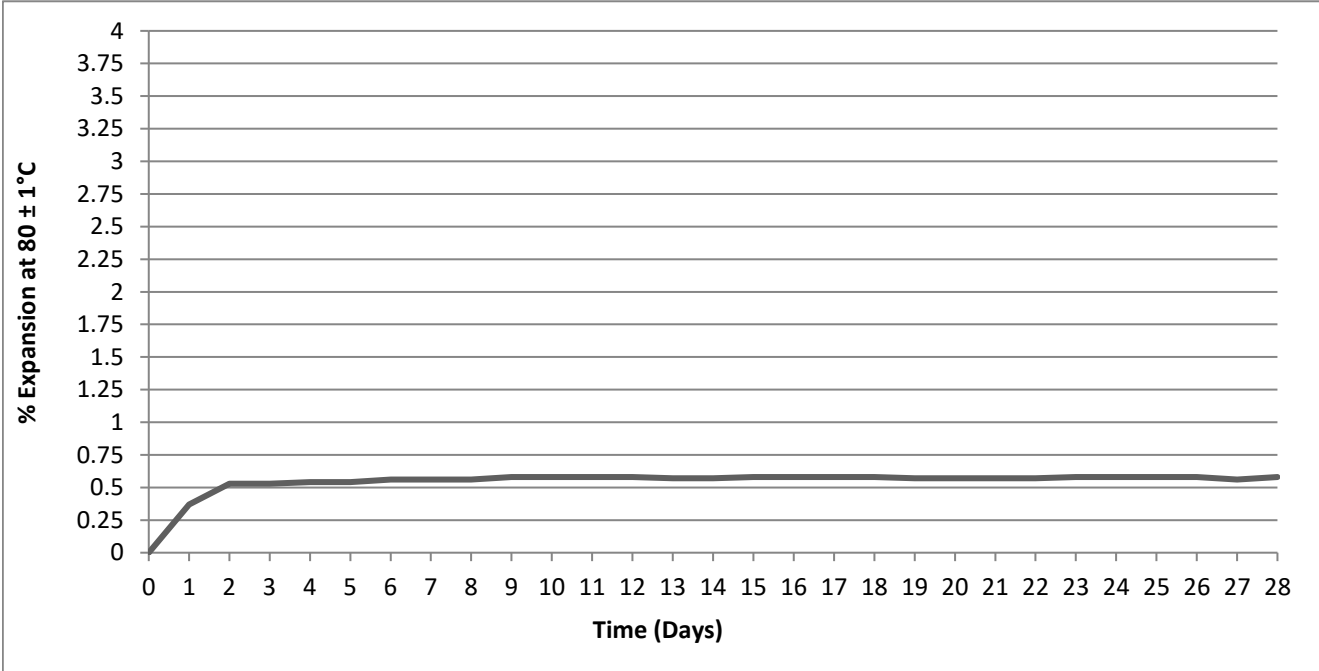
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

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LABORATORY TEST REPORT

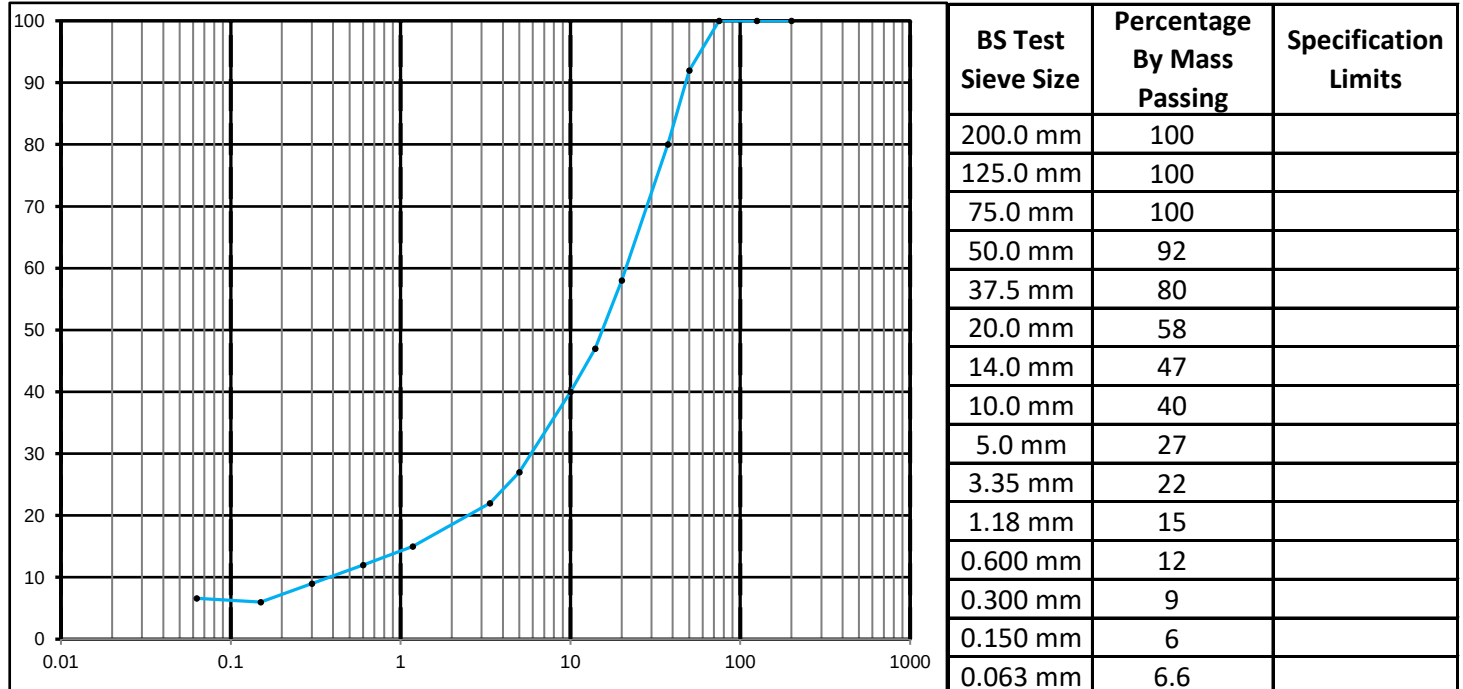
TEST REQUIREMENTS:

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

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These results relate only to the items tested.

<u>Comments:</u> None	Report checked and approved by:  Sharon Parry Aggregate Team Coordinator
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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:

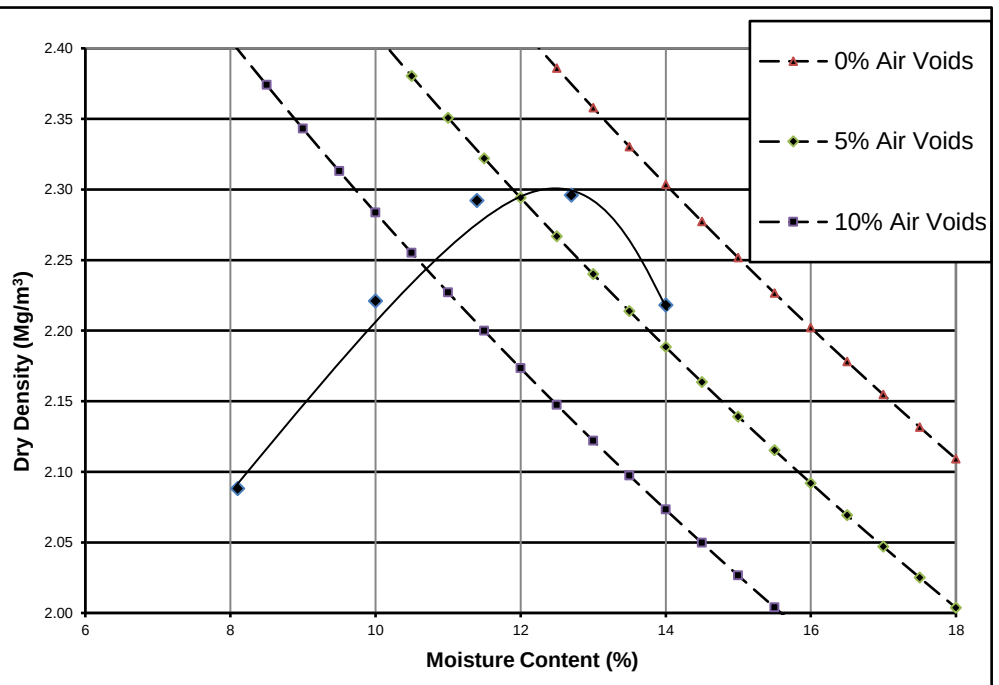
No
S92460
AK2-1
Unknown
14/01/2021
05/02/2021
Unknown
Soil

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

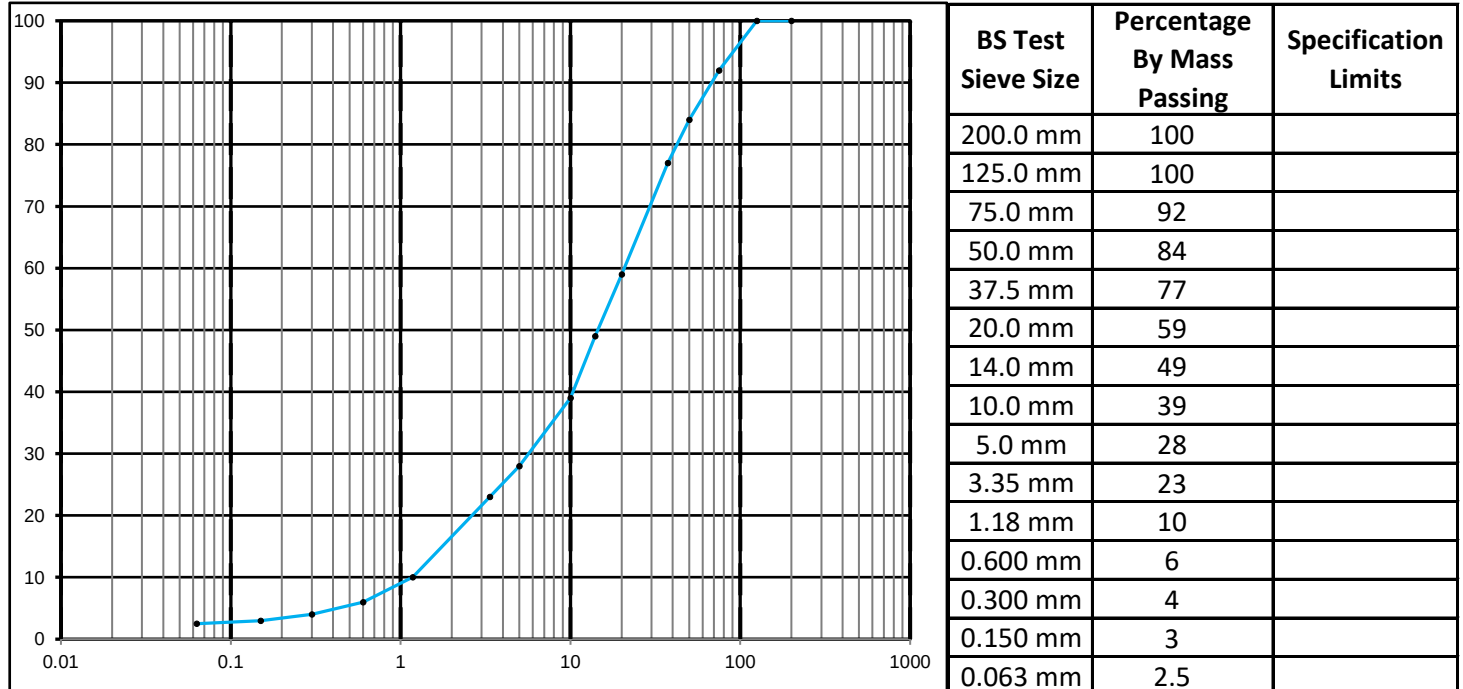
TEST REQUIREMENTS:

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:

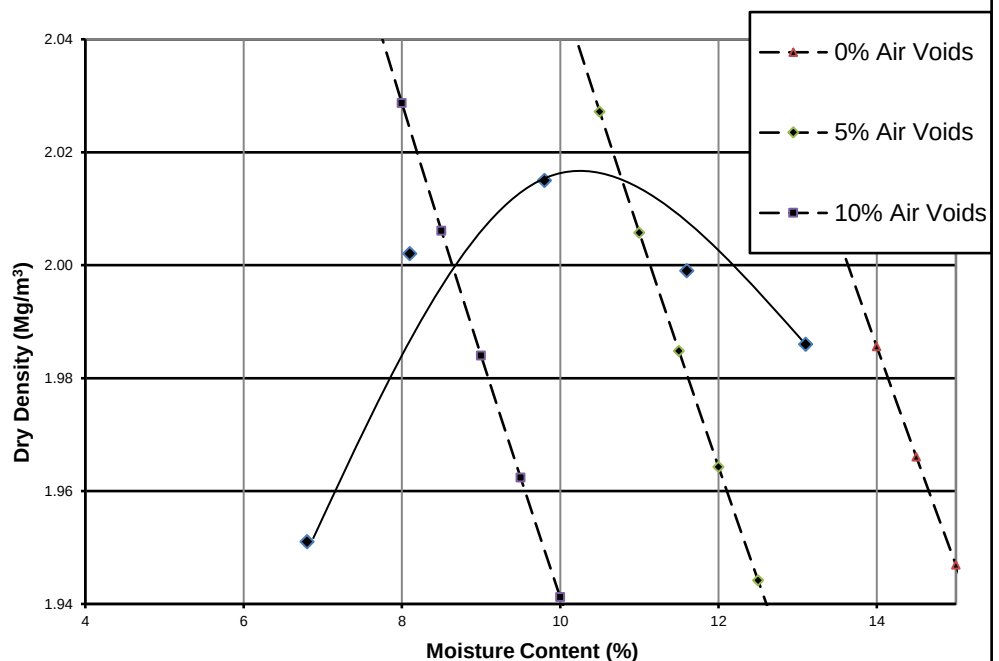
No
S92292
AK3-1
17/12/2020
05/01/2021
23/01/2021
Unknown
Soil

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

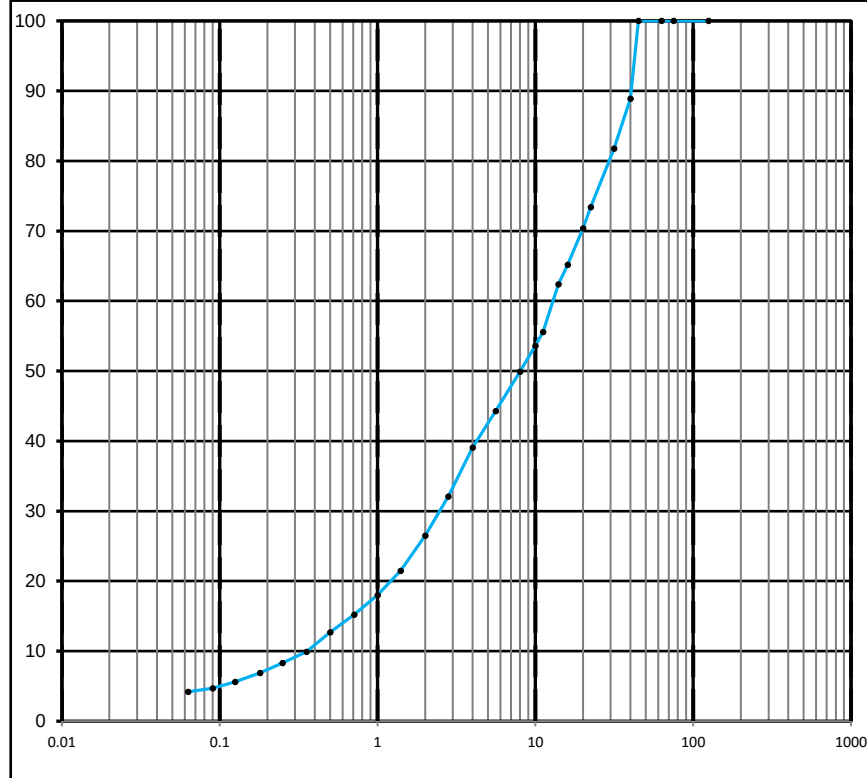
TEST REQUIREMENTS:

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:

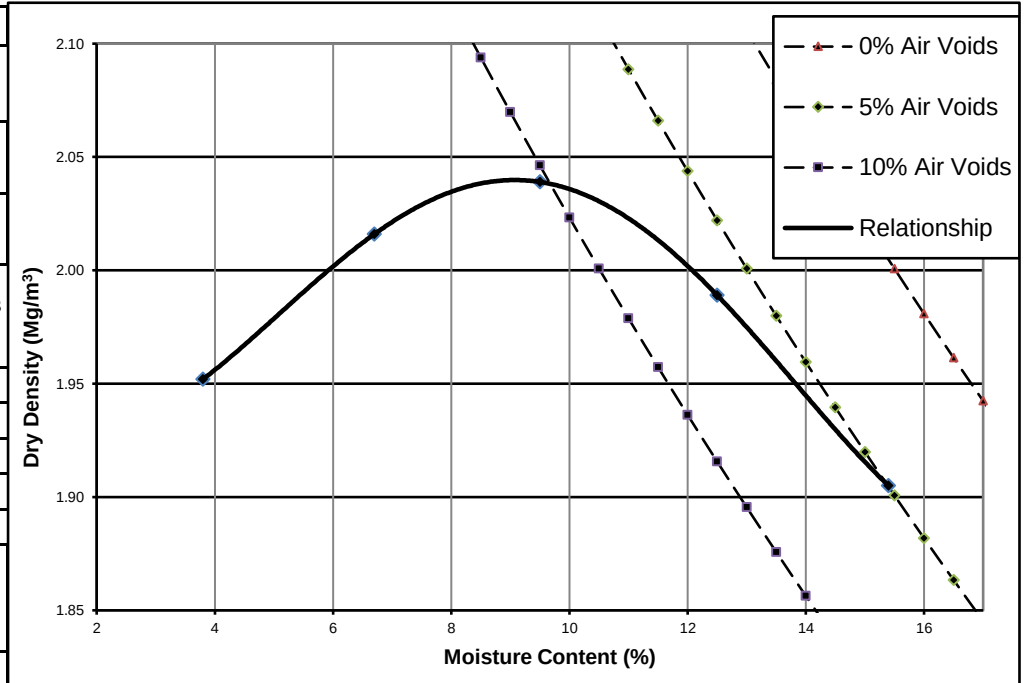
No
S112528
AK4-1 @ 1.40M
05/06/2023
25/07/2023
15/11/2023
AK4-1 @ 1.40M
Granular - 40mm Down

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.

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 968586

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

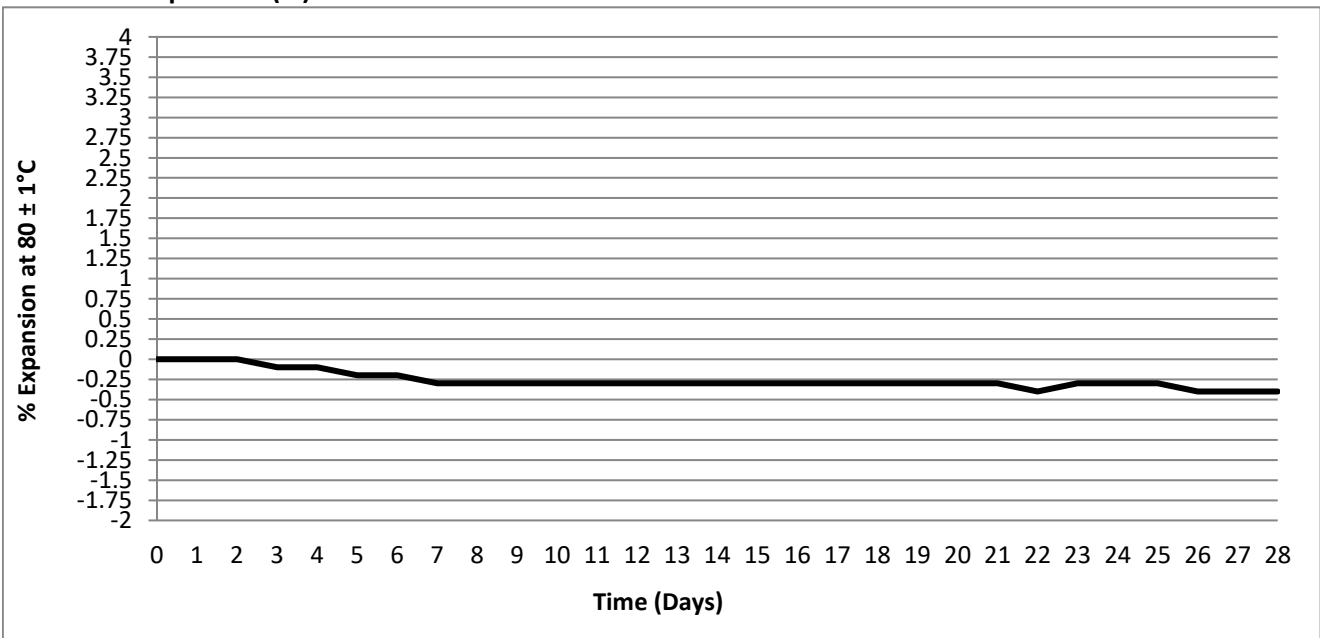
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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
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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

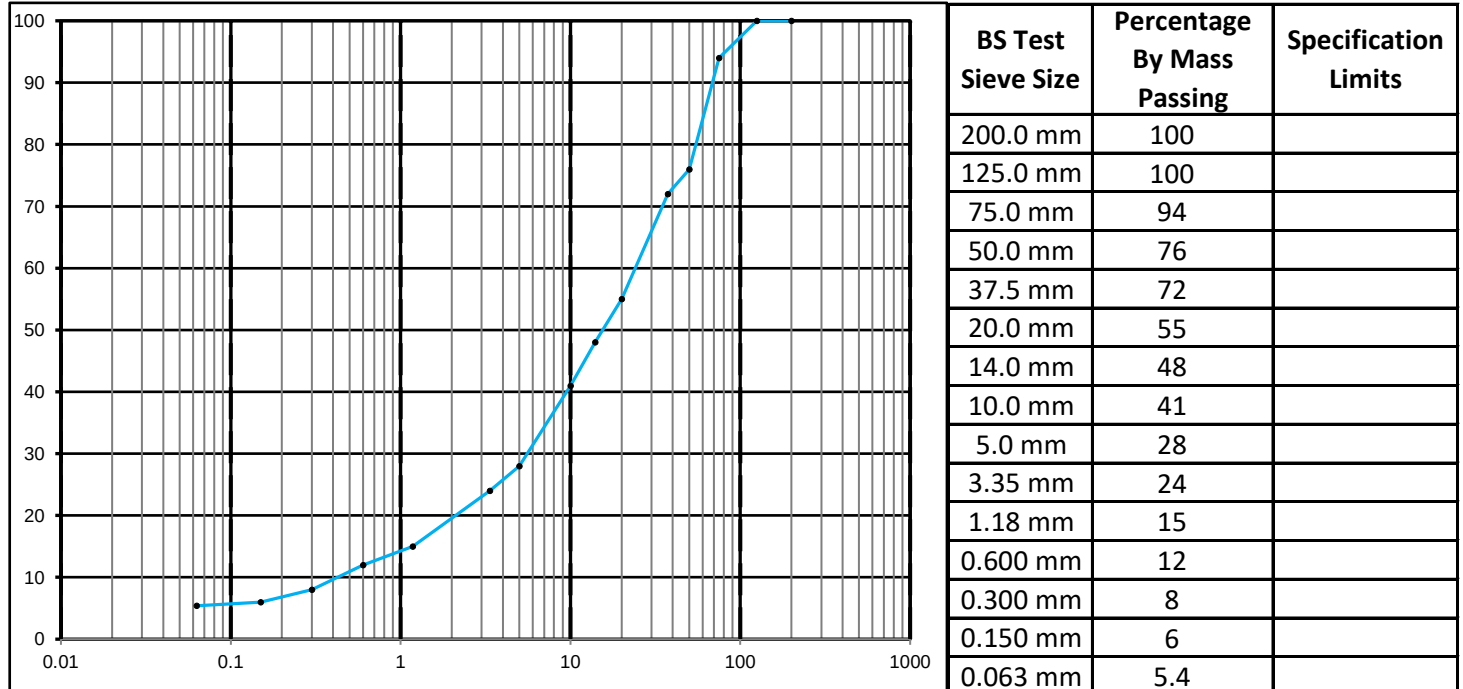
TEST REQUIREMENTS:

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:

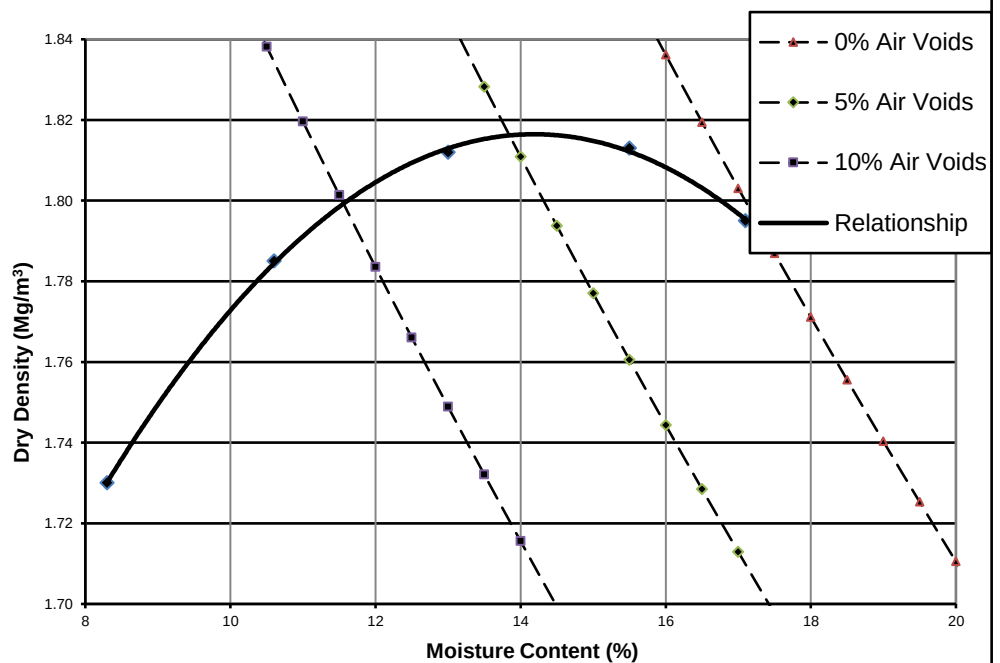
No
S92292
AK5-1
Unknown
05/01/2021
27/01/2021
Unknown
Soil

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

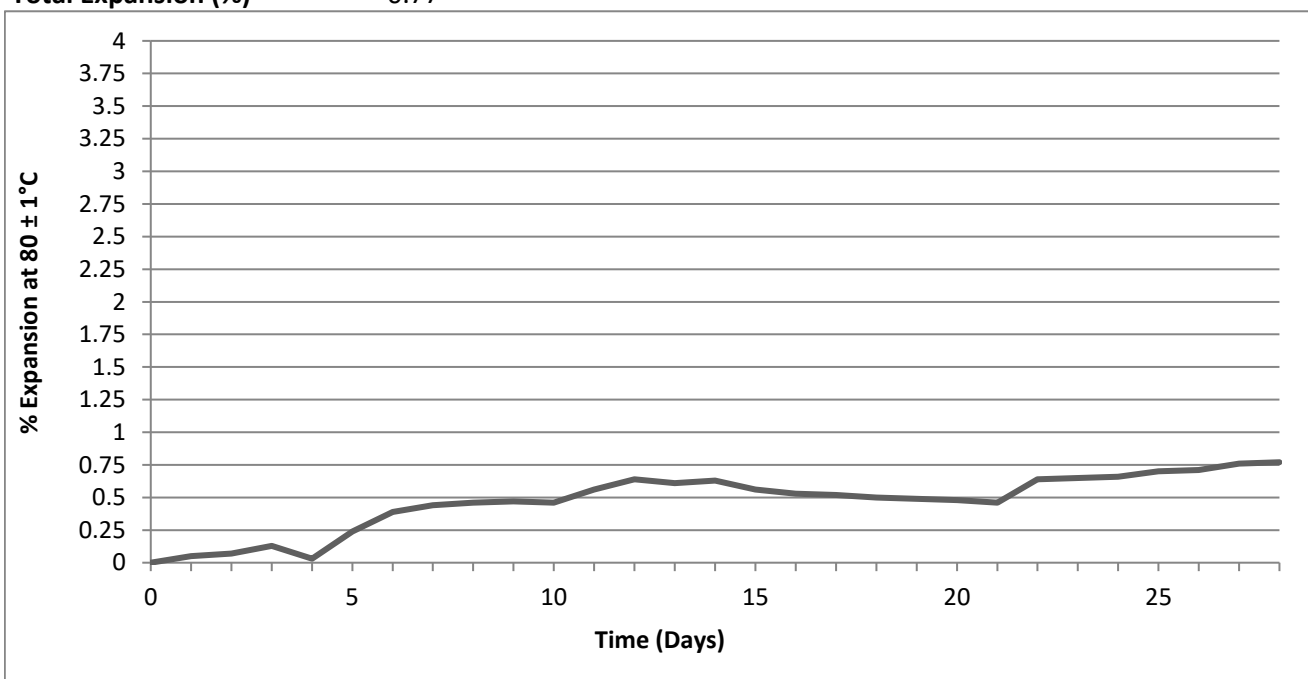
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

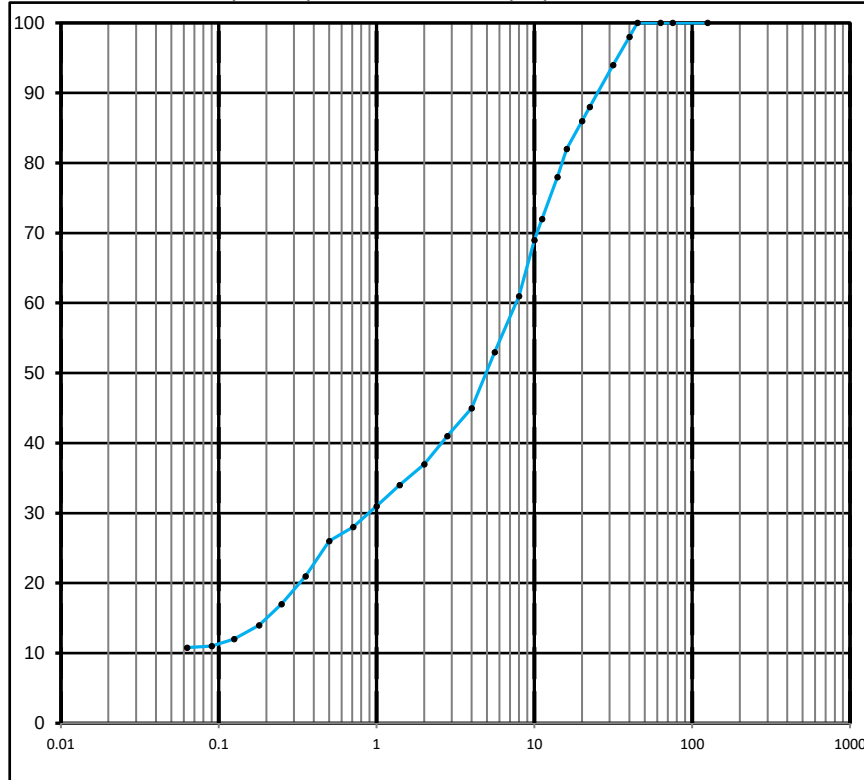
TEST REQUIREMENTS:

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	

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These results relate only to the items tested.

Comments:

None

Report checked 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:

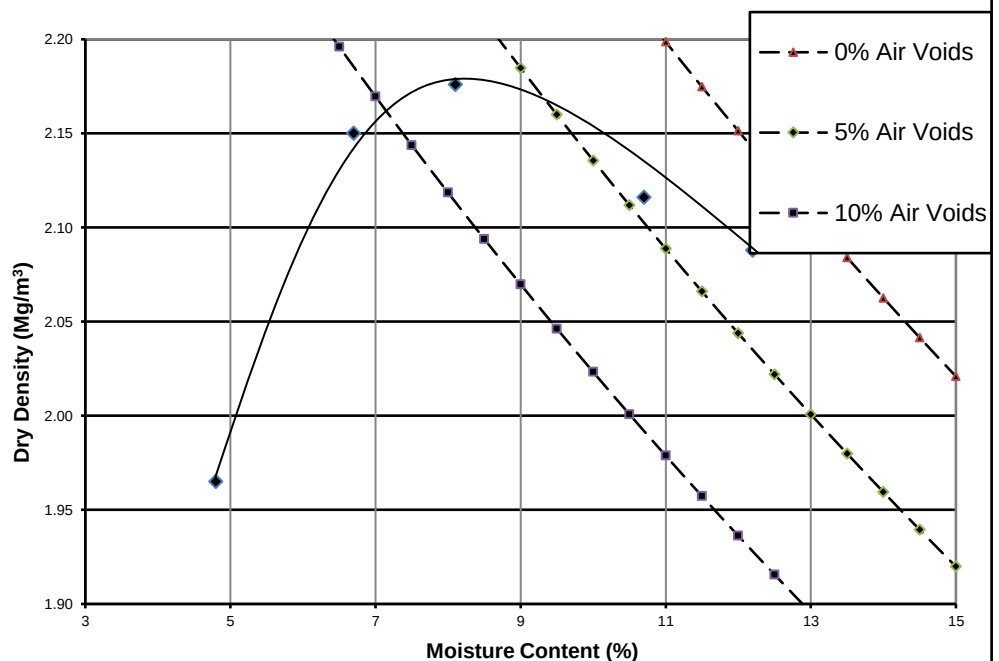
No
S93086
AL05-1 - 0.3m
Unknown
12/02/2021
22/04/2021
Unknown
Granular - 40mm Down

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

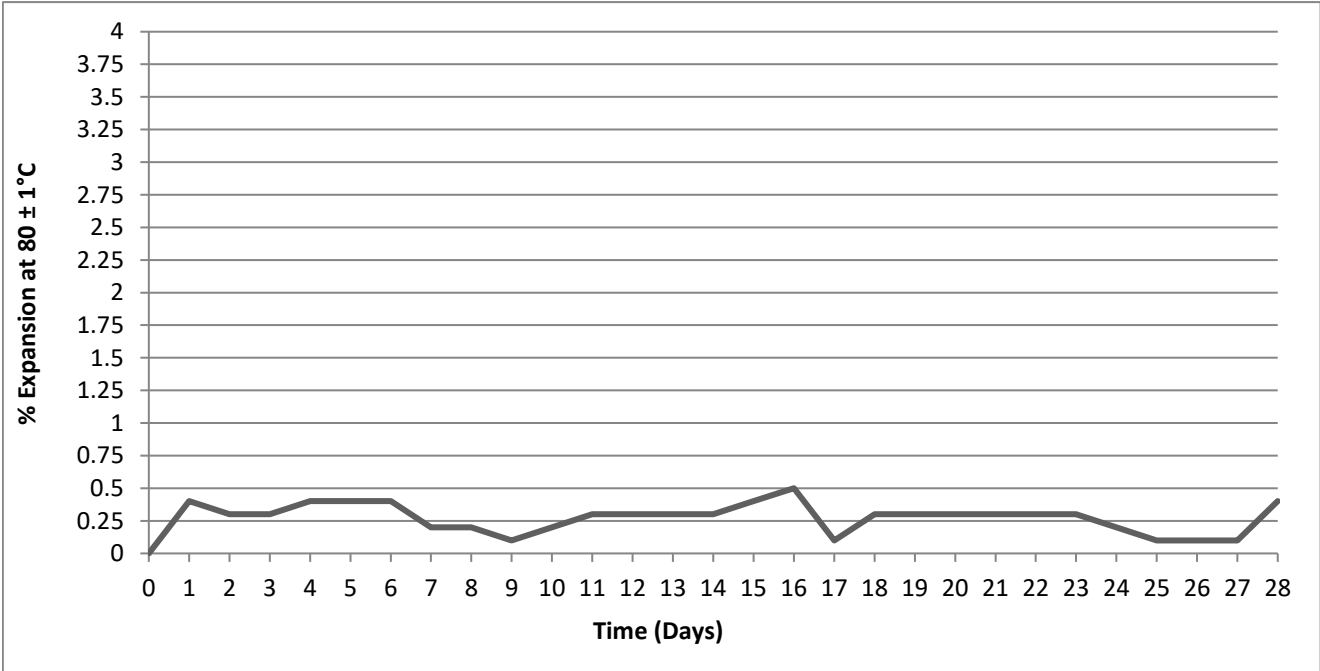
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

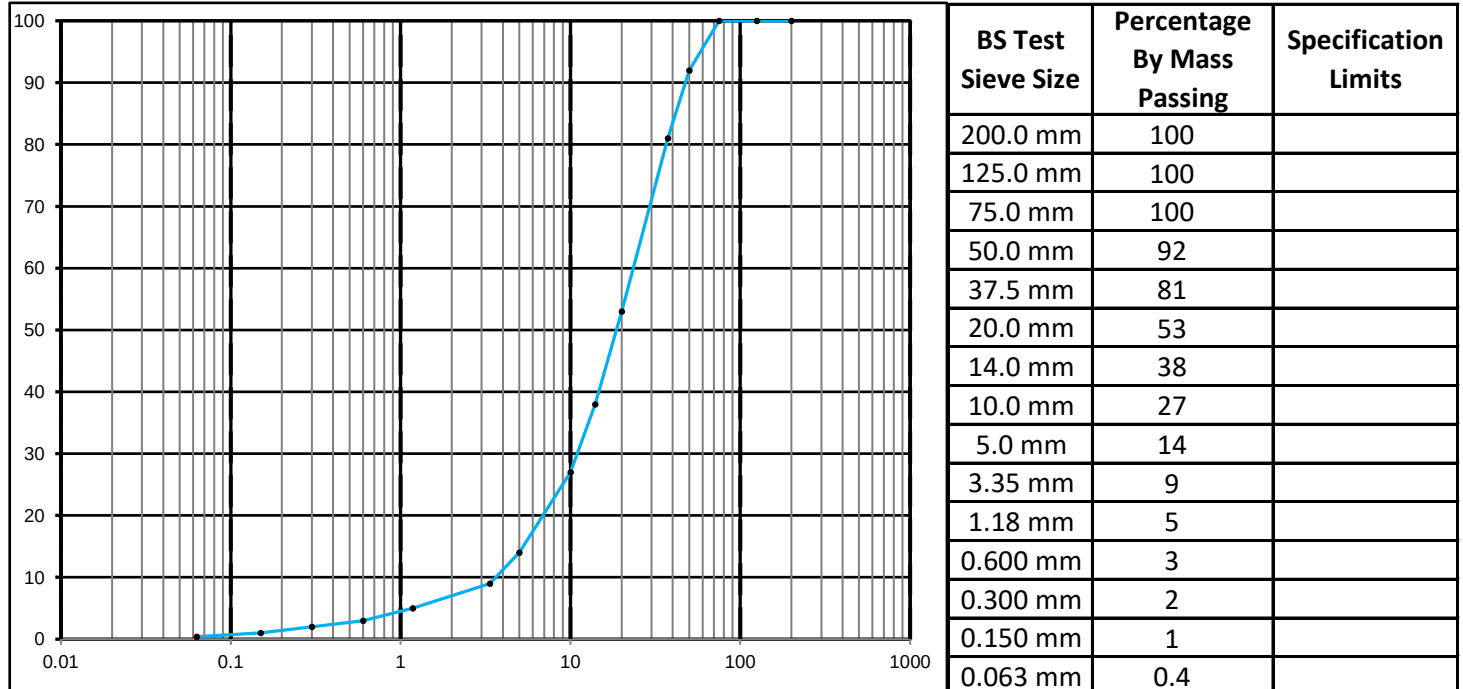
TEST REQUIREMENTS:

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:

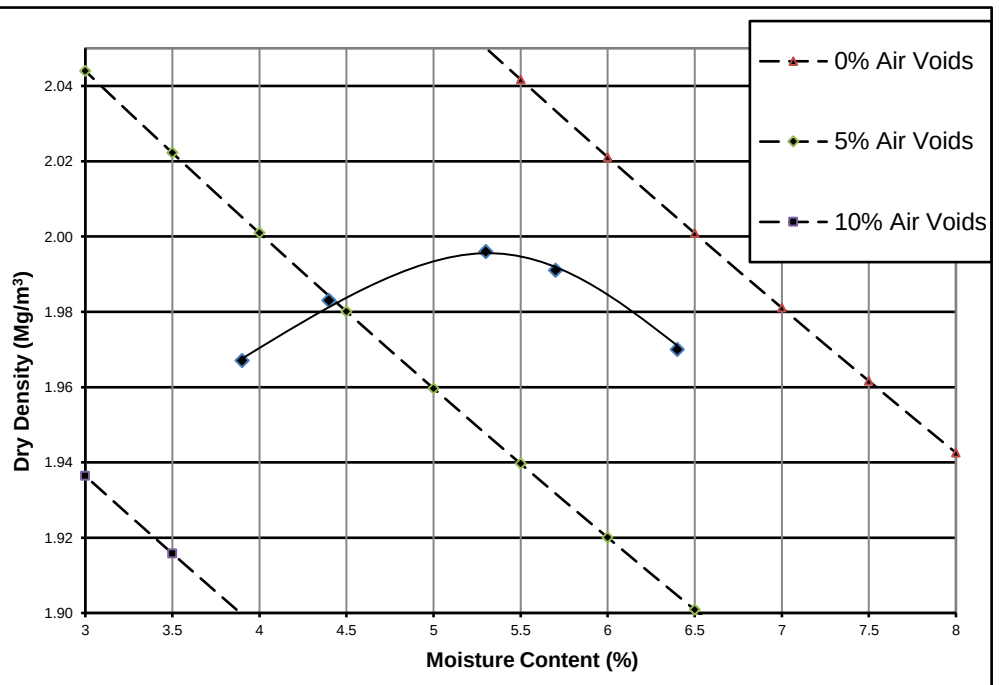
No
S92460
AL1-1
Unknown
14/01/2021
05/02/2021
Unknown
Soil

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.

<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 777539

Page 1 of 1

LABORATORY TEST REPORT

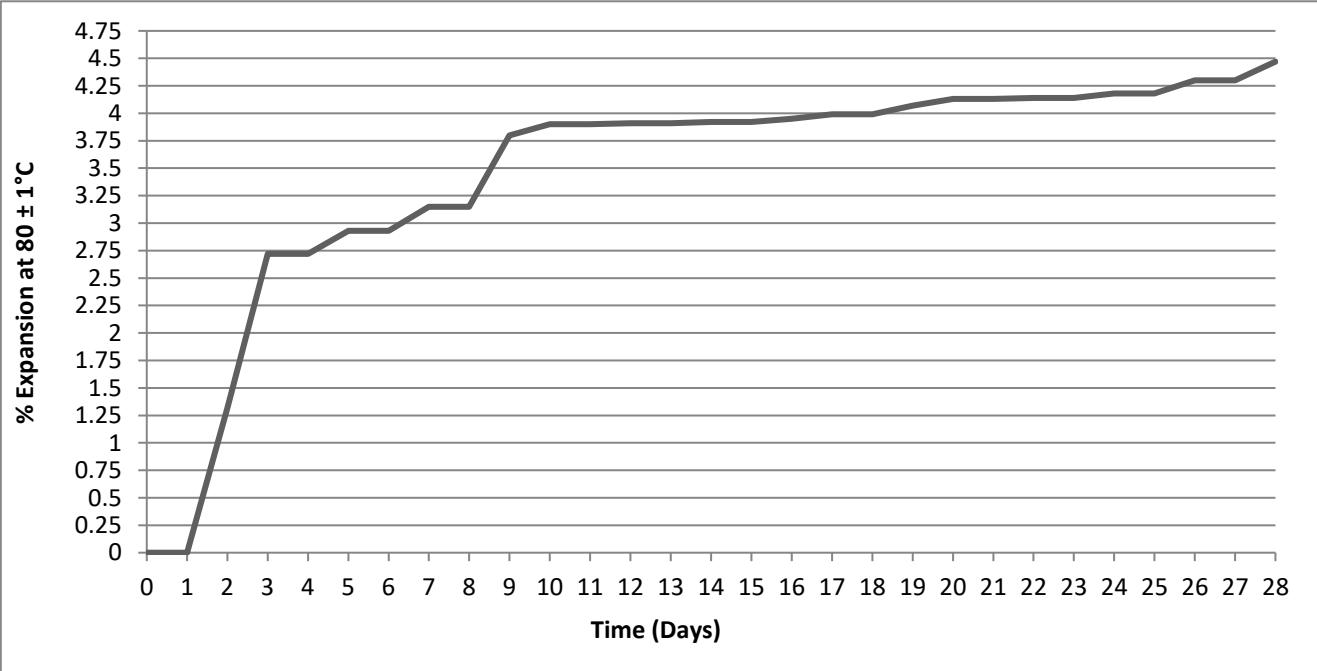
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

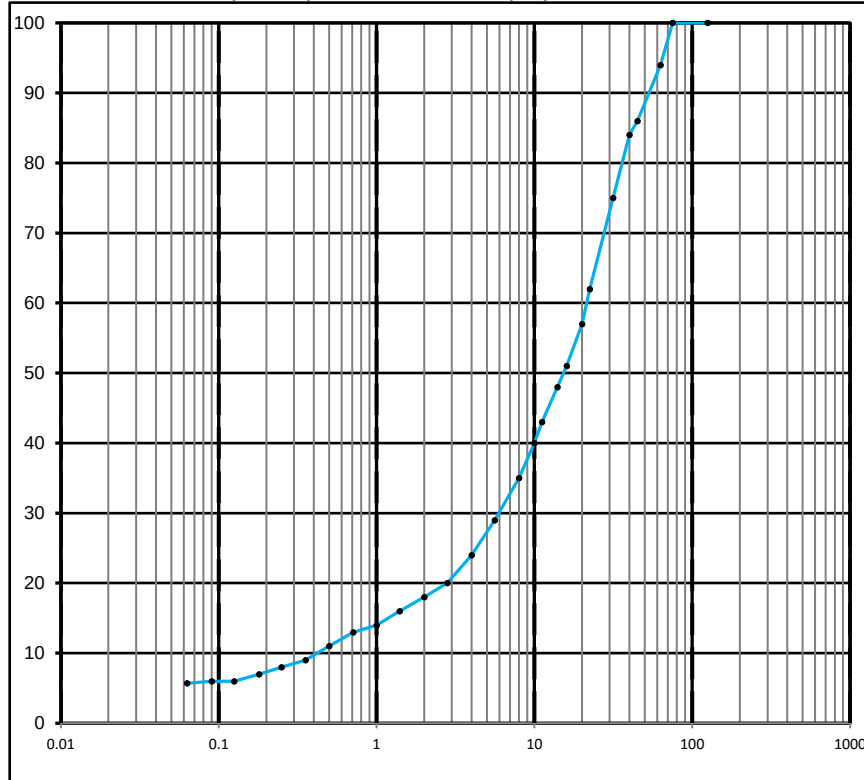
TEST REQUIREMENTS:

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.

<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: 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:

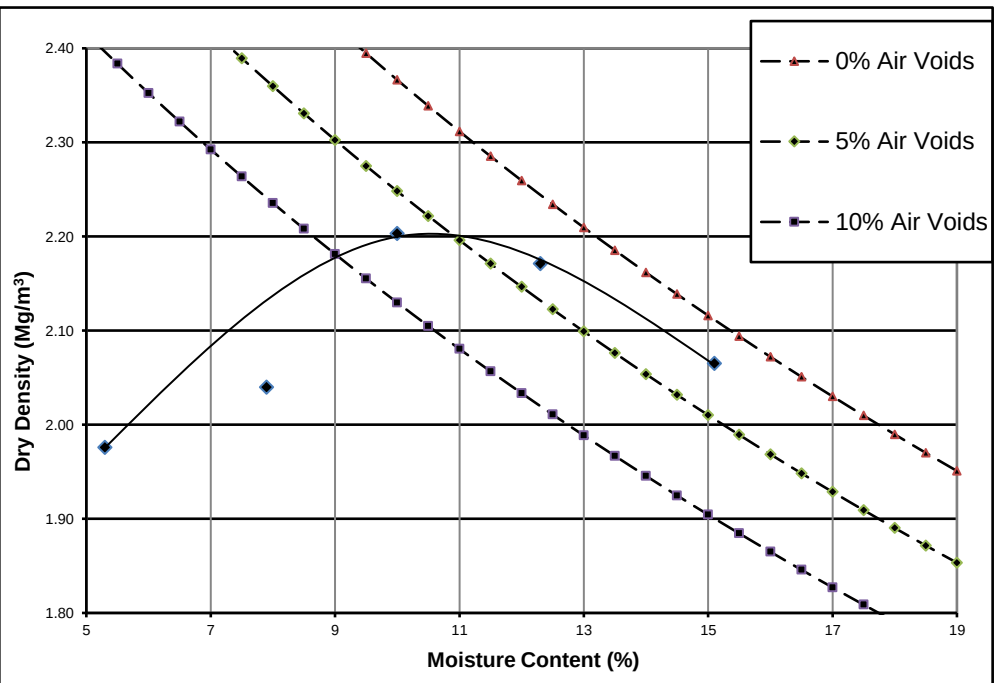
No
S93086
AL10-1 - 1.8m
22/01/2021
12/02/2021
22/04/2021
Unknown
Granular - 40mm Down

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
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

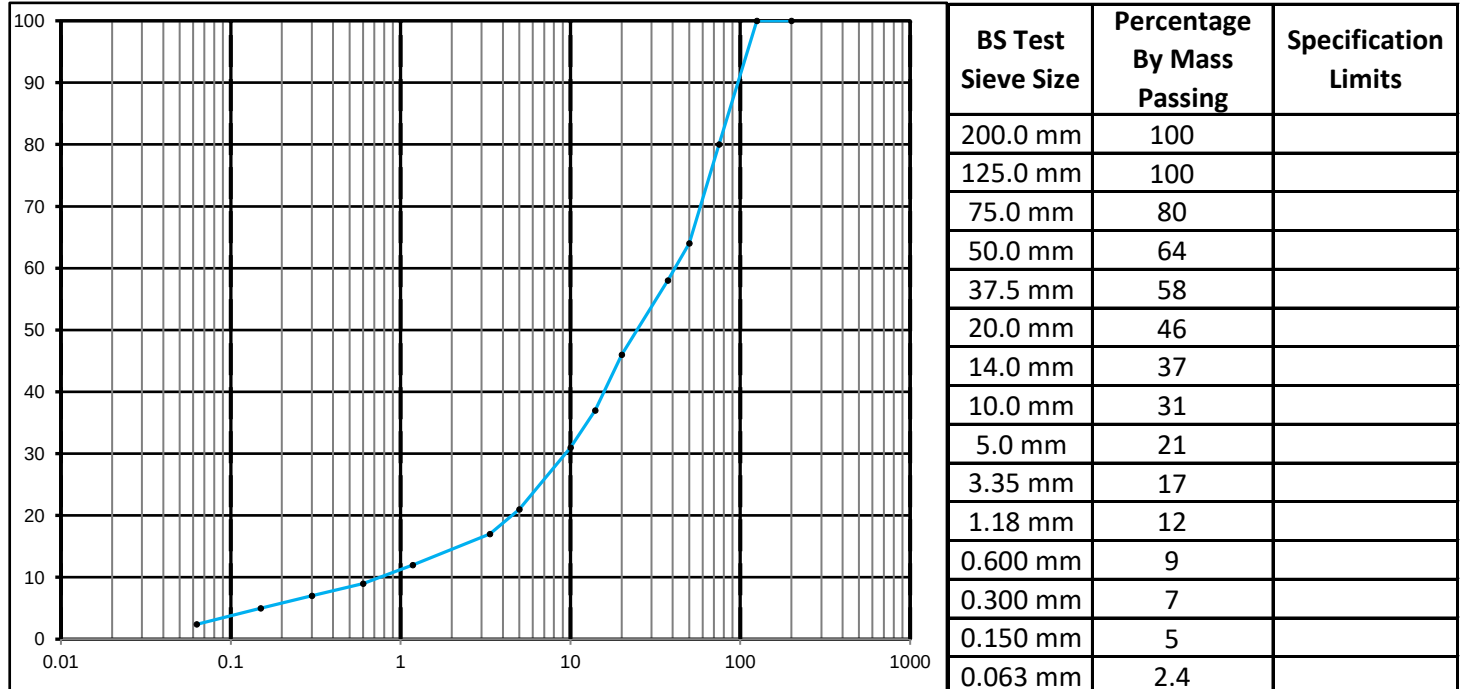
TEST REQUIREMENTS:

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:

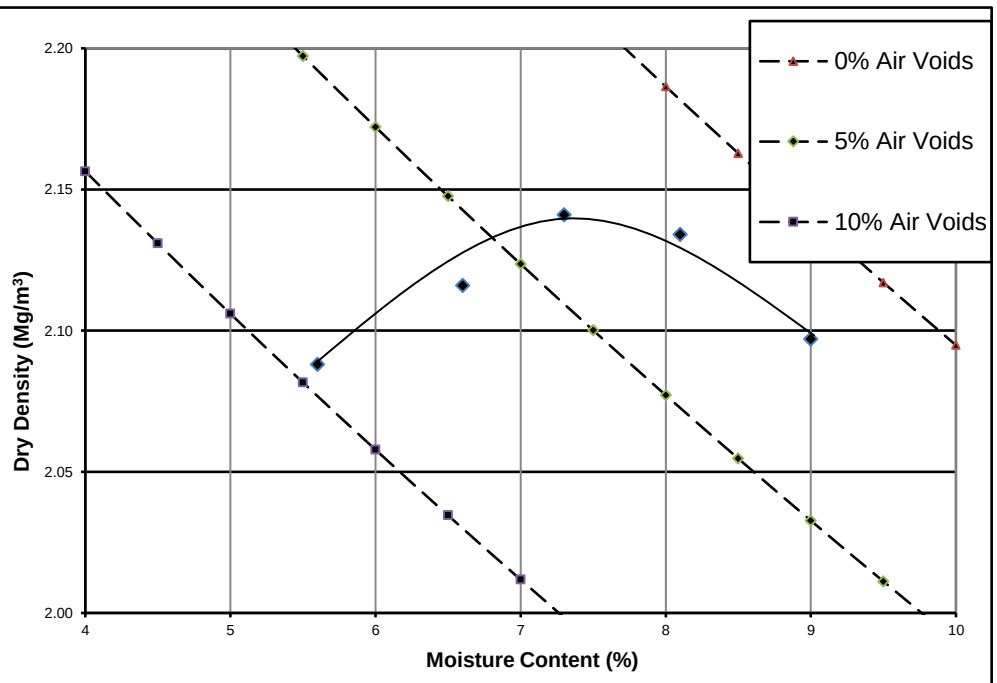
No
S92460
AL10-1
Unknown
14/01/2021
01/02/2021
Unknown
Soil

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

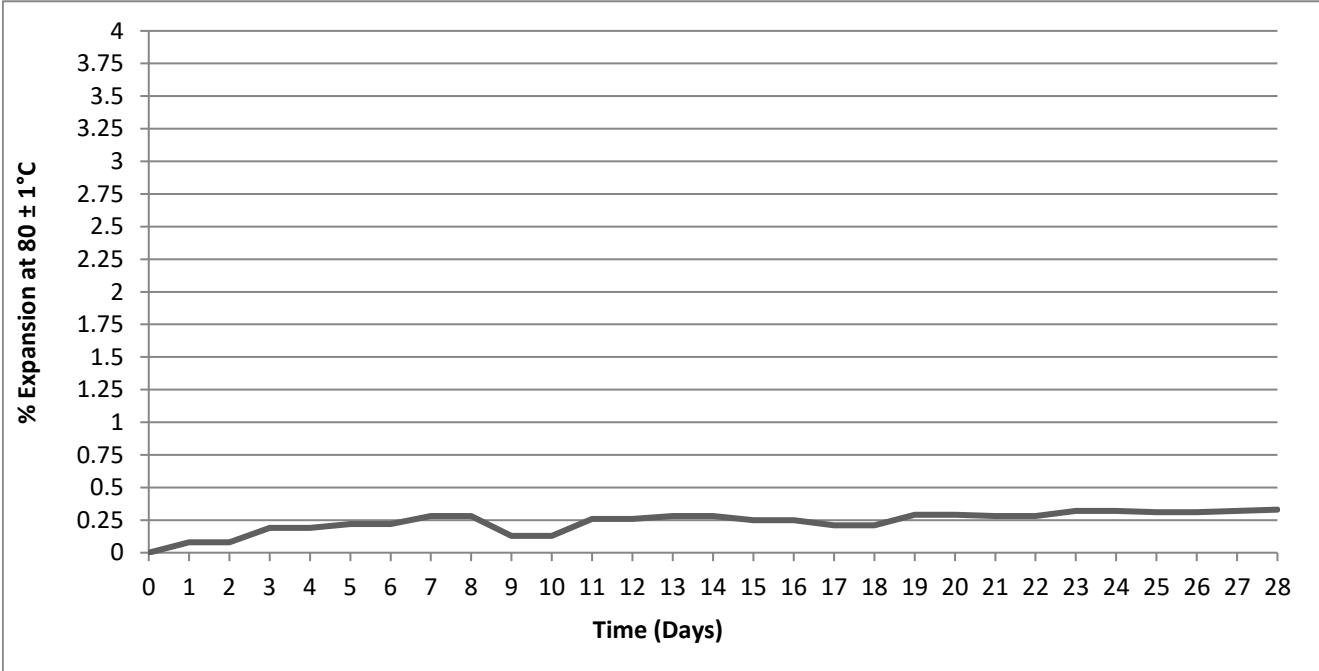
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

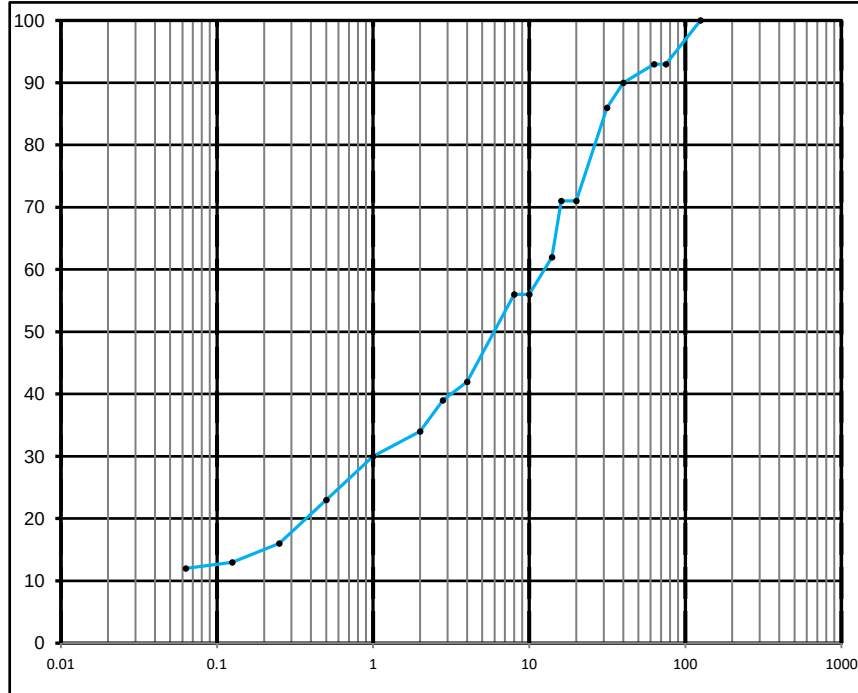
TEST REQUIREMENTS:

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

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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
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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:

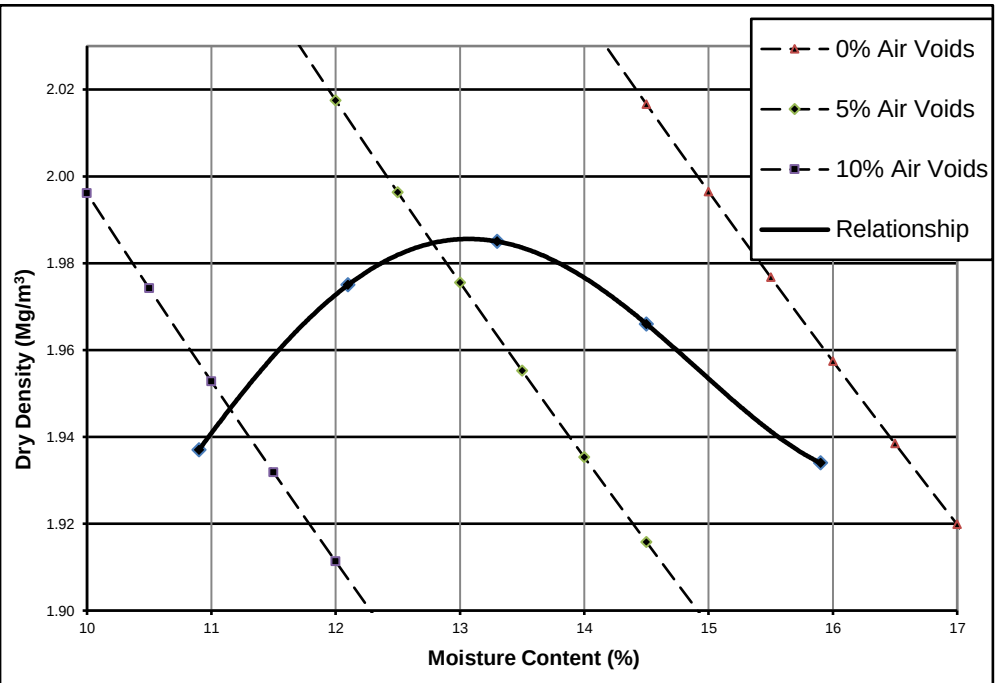
No **S92900**
AL11-1
Unknown
04/02/2021
31/03/2021
Unknown
Granular - 40mm Down

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.

Comments:

None

Report checked 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

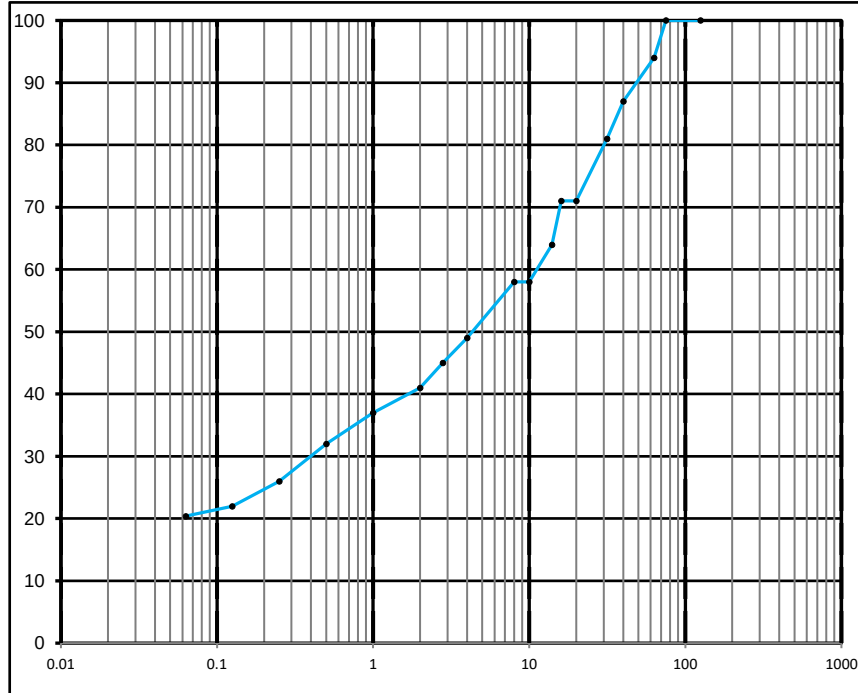
TEST REQUIREMENTS:

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:

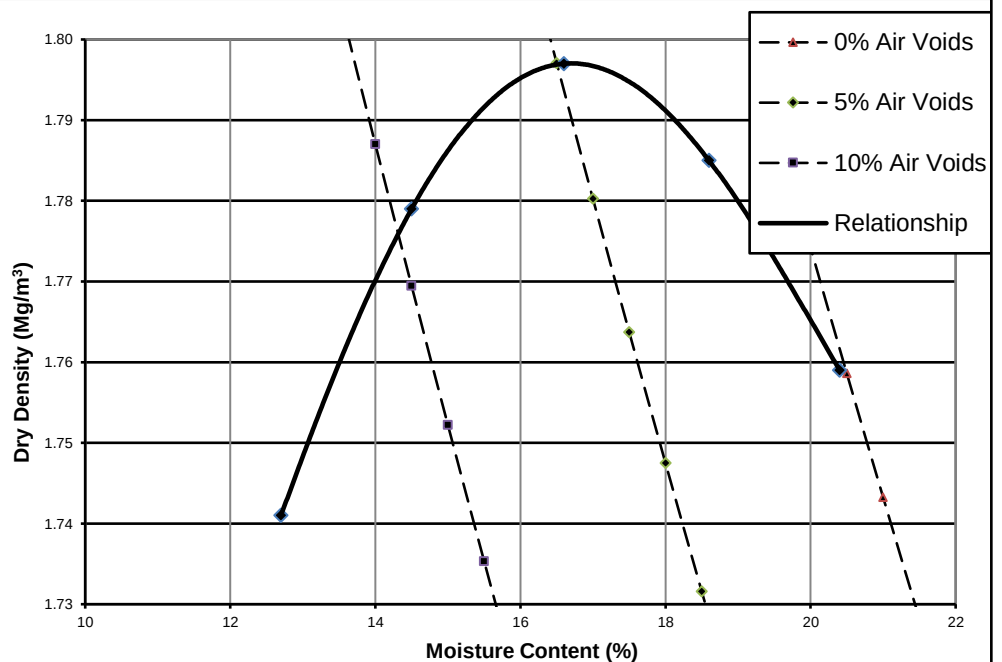
No
S92900
AL12-1
Unknown
04/02/2021
16/03/2021
Unknown
Granular - 40mm Down

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.

Comments:

None

Report checked 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

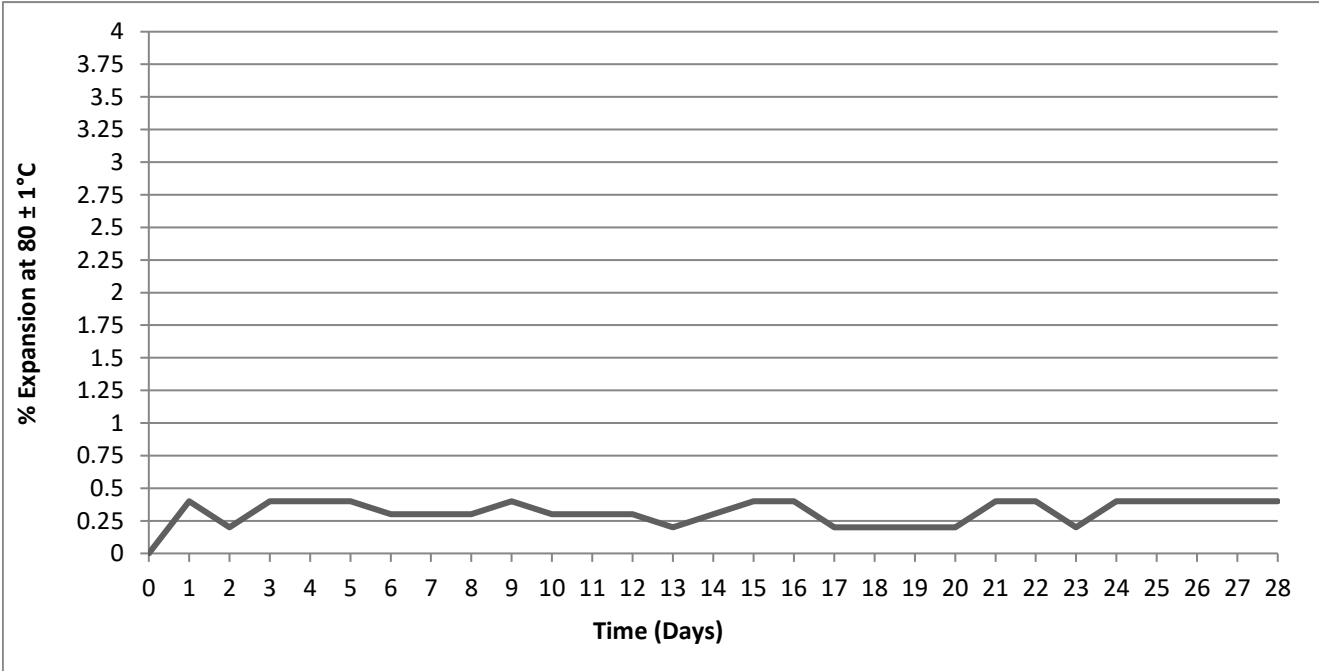
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

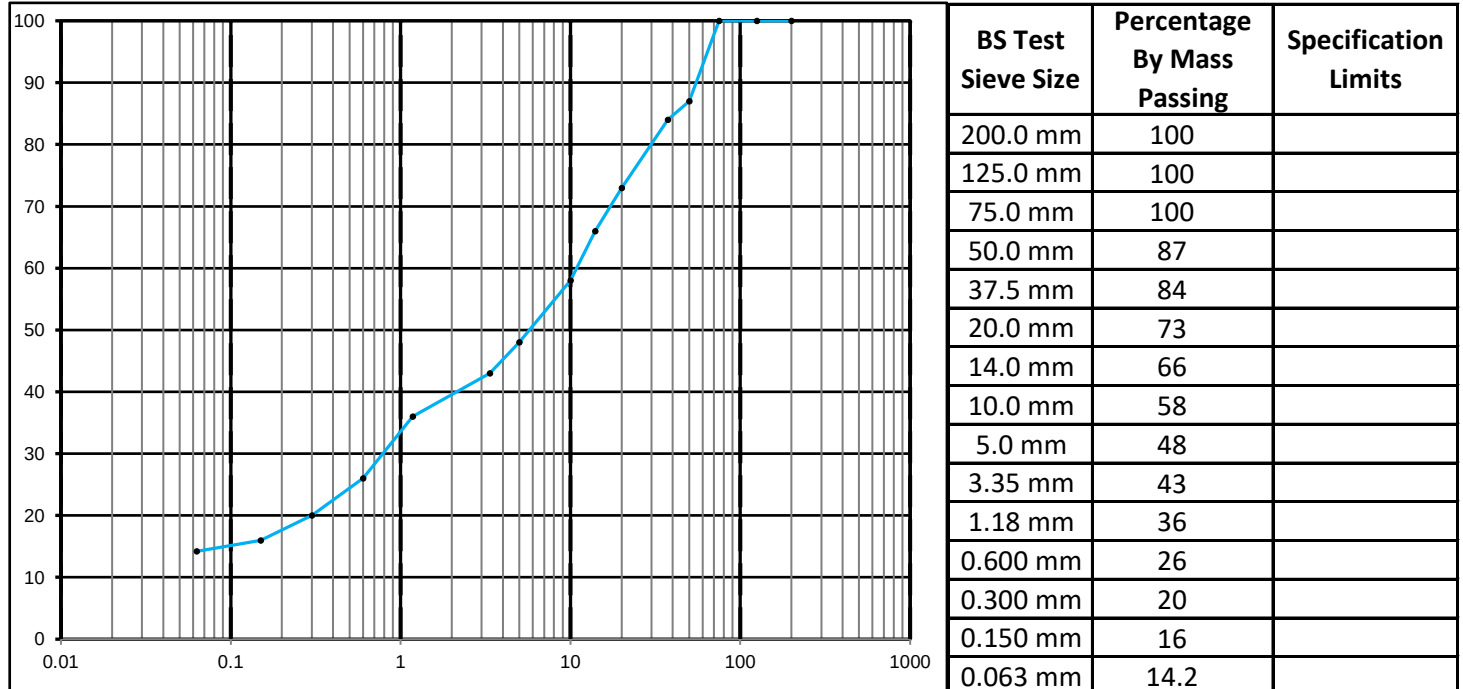
TEST REQUIREMENTS:

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:

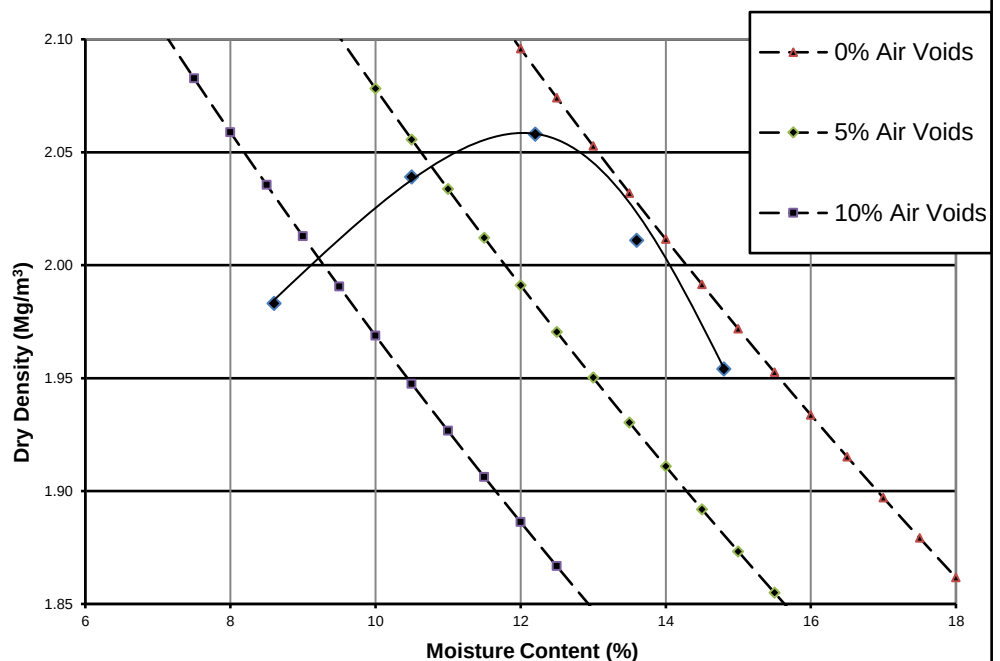
No
S92460
AL13-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

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
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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

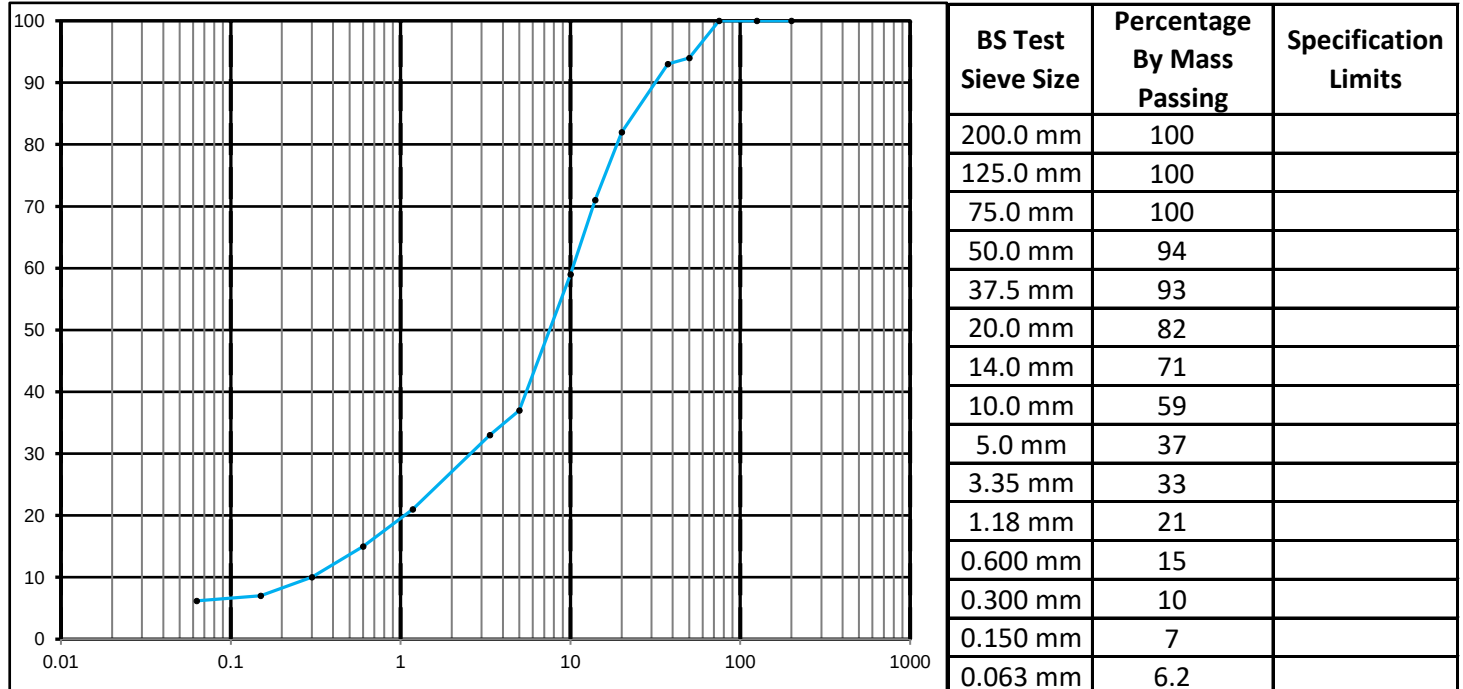
TEST REQUIREMENTS:

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:

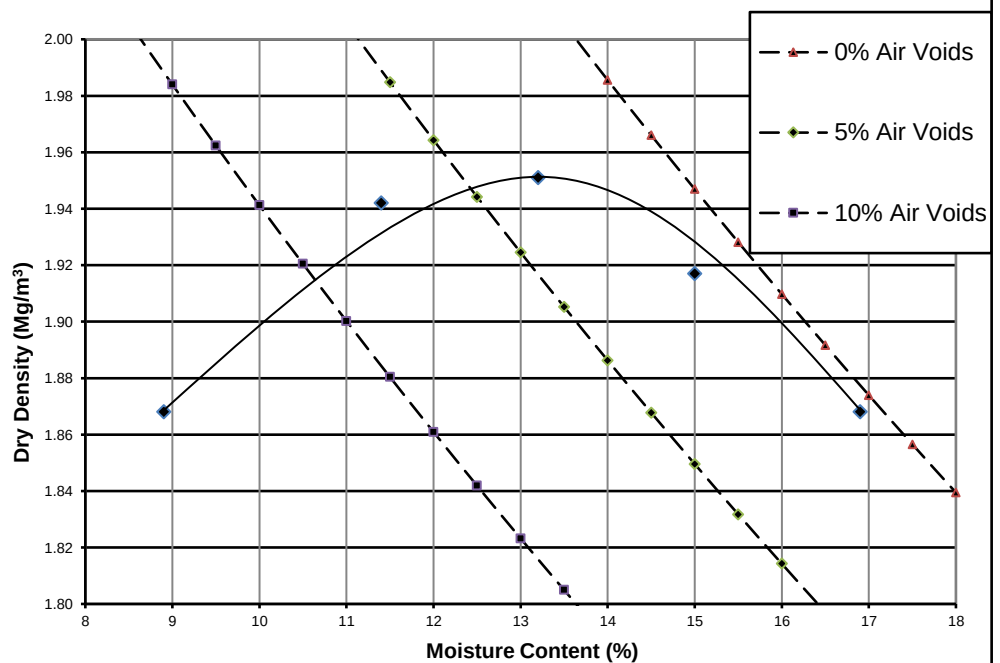
No
S92460
AL14-1
Unknown
14/01/2021
15/02/2021
Unknown
Soil

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



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These results relate only to the items tested.

Comments:

None

Report checked 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 %

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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 777589

Page 1 of 1

LABORATORY TEST REPORT

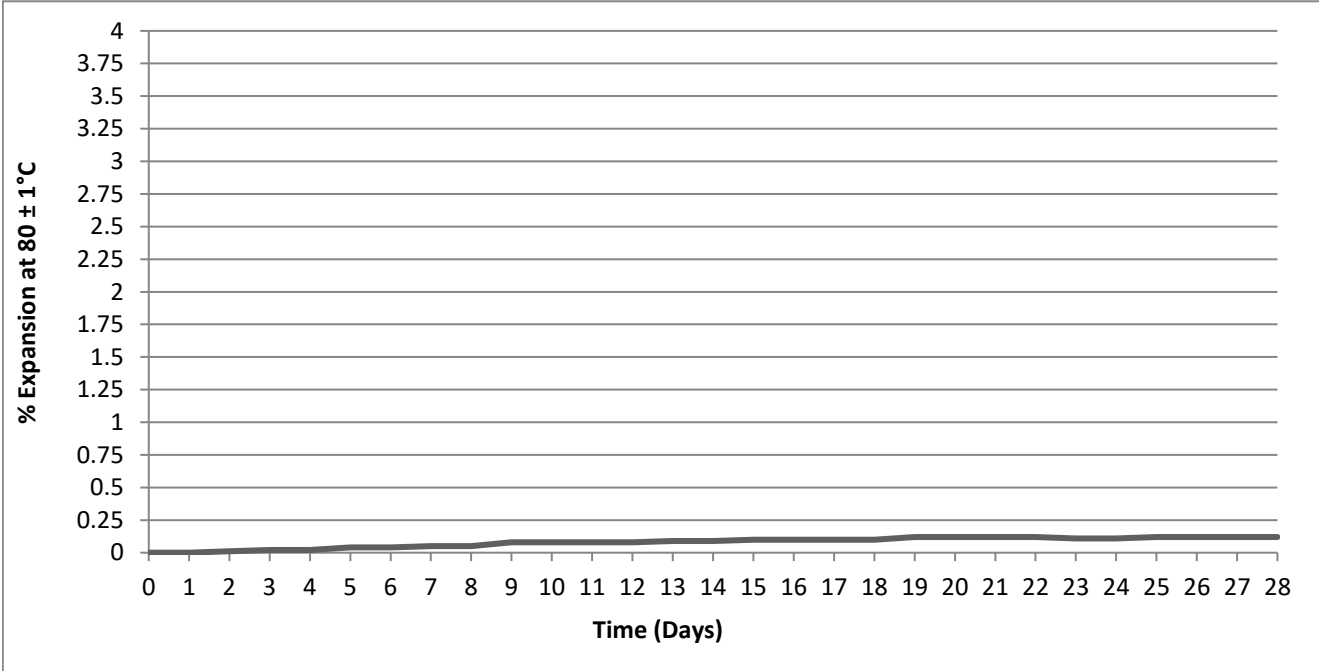
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

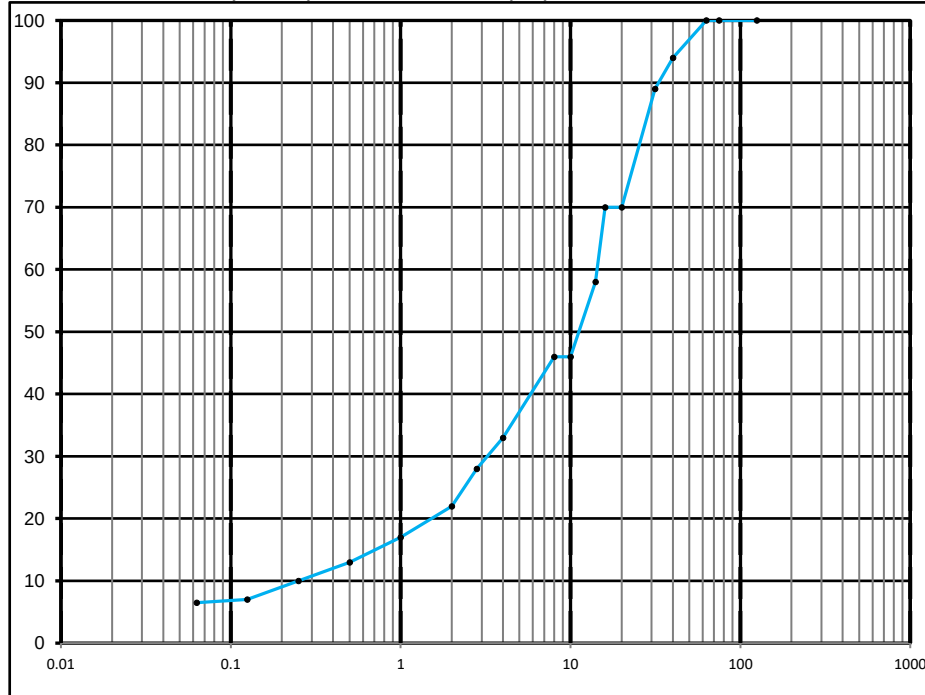
TEST REQUIREMENTS:

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

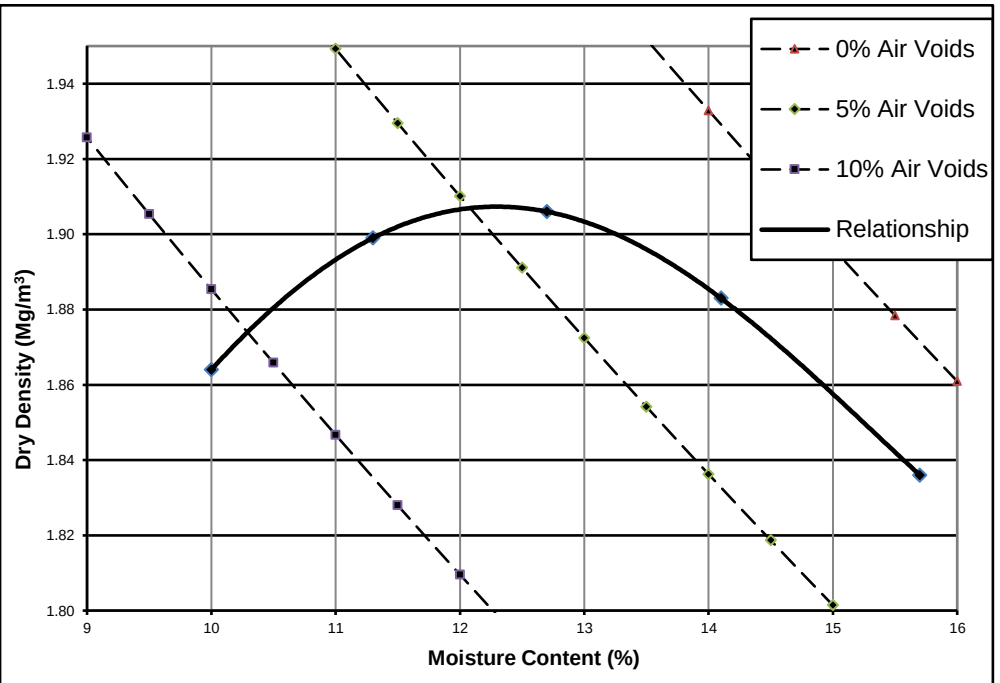
Name of Source: **Former Llanwern Steelworks**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

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

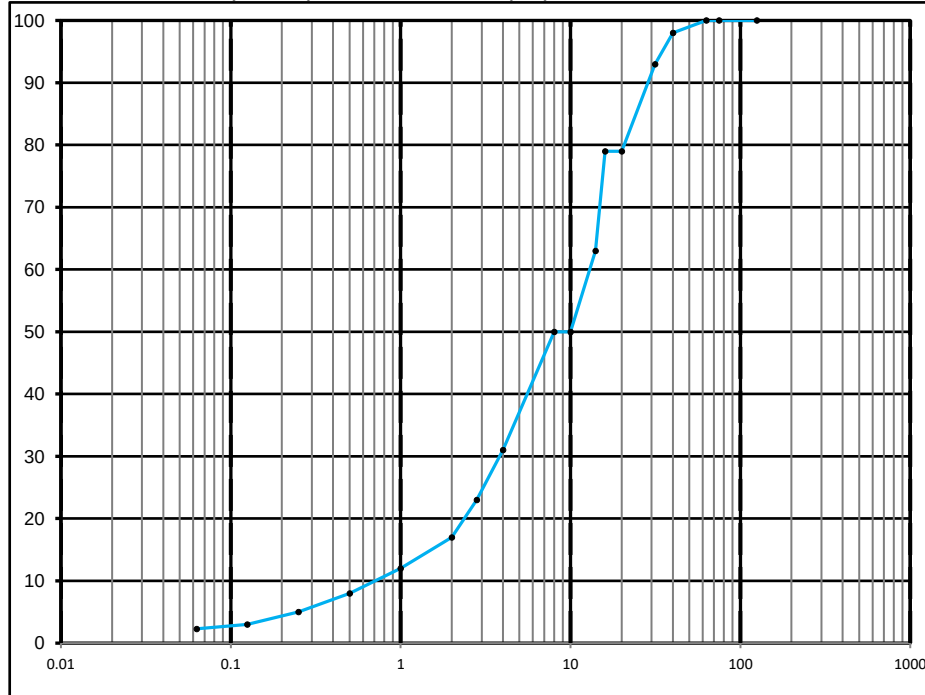
TEST REQUIREMENTS:

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:

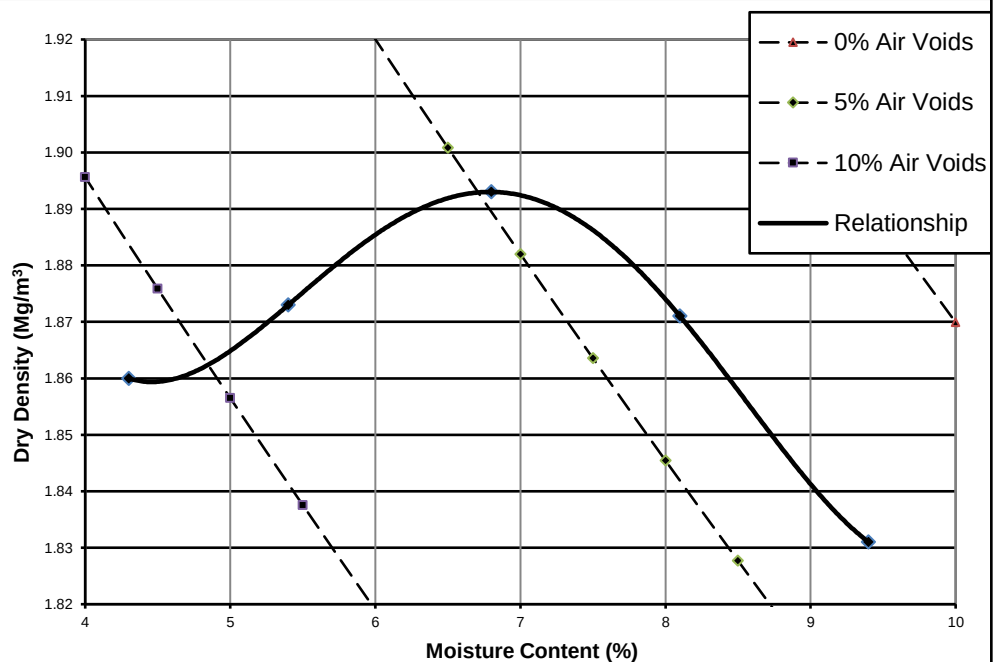
No
S92900
AL16-1 - 2.9
21/01/2021
04/02/2021
22/03/2021
Unknown
Granular - 40mm Down

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.

<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 782202

Page 1 of 1

LABORATORY TEST REPORT

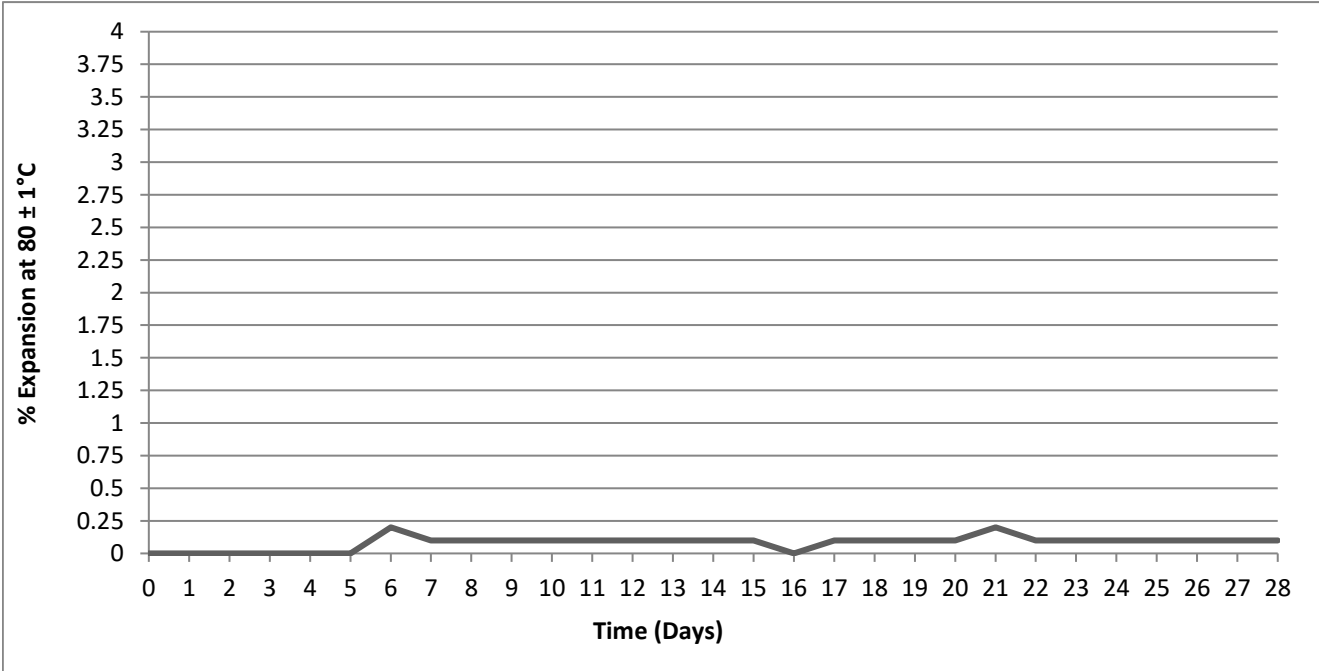
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

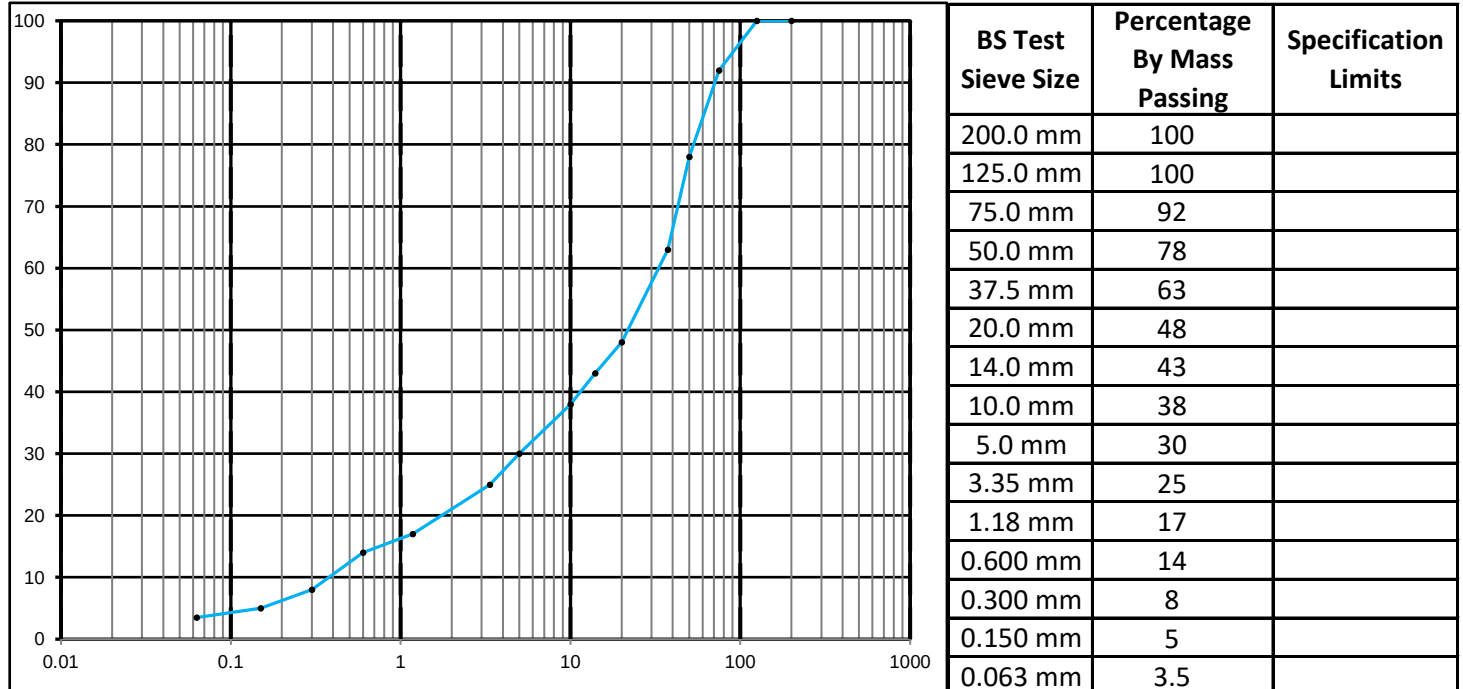
TEST REQUIREMENTS:

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

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These results relate only to the items tested.

Comments:

None

Report checked 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

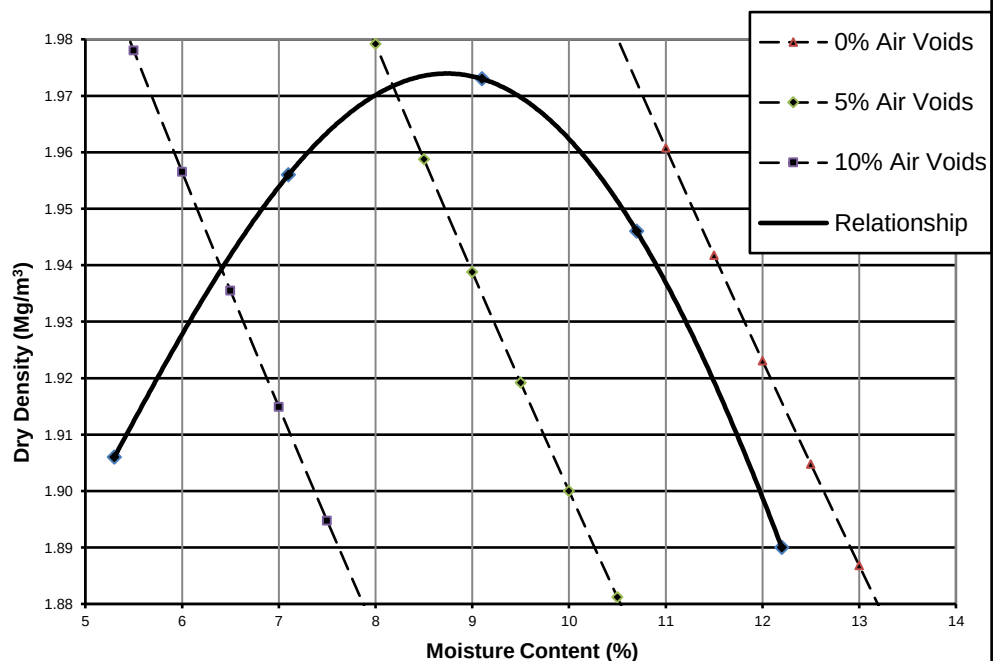
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

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

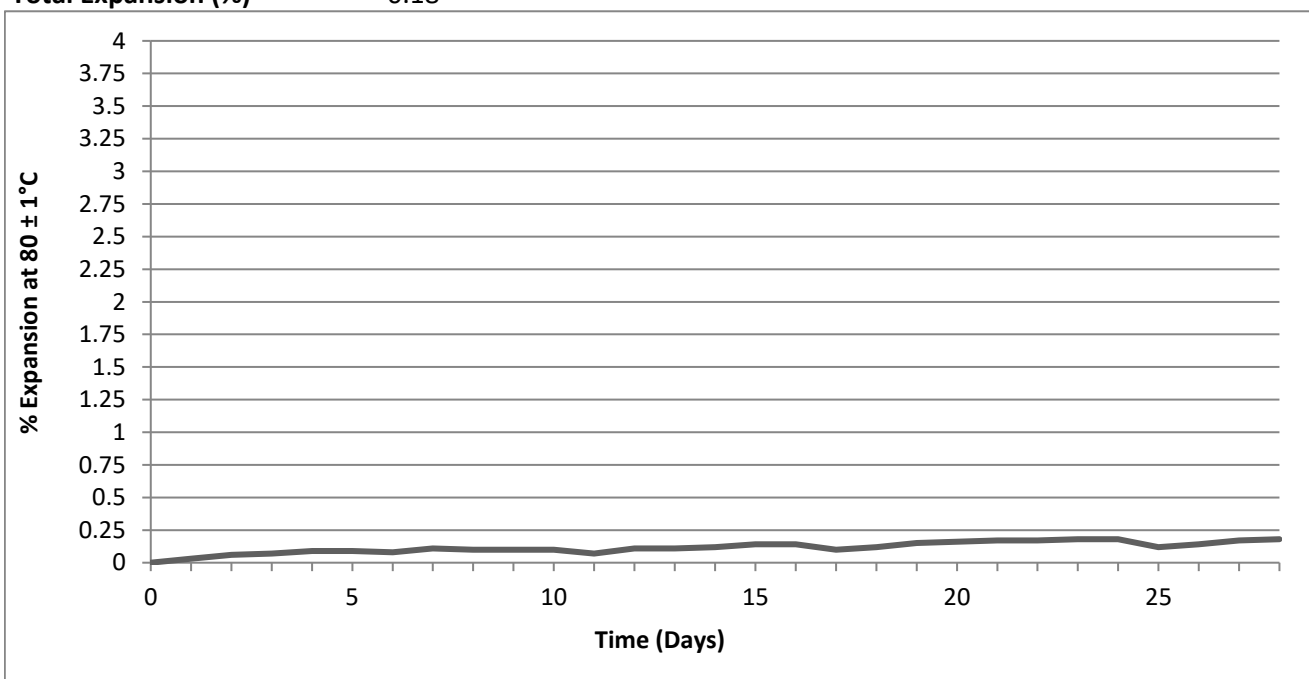
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

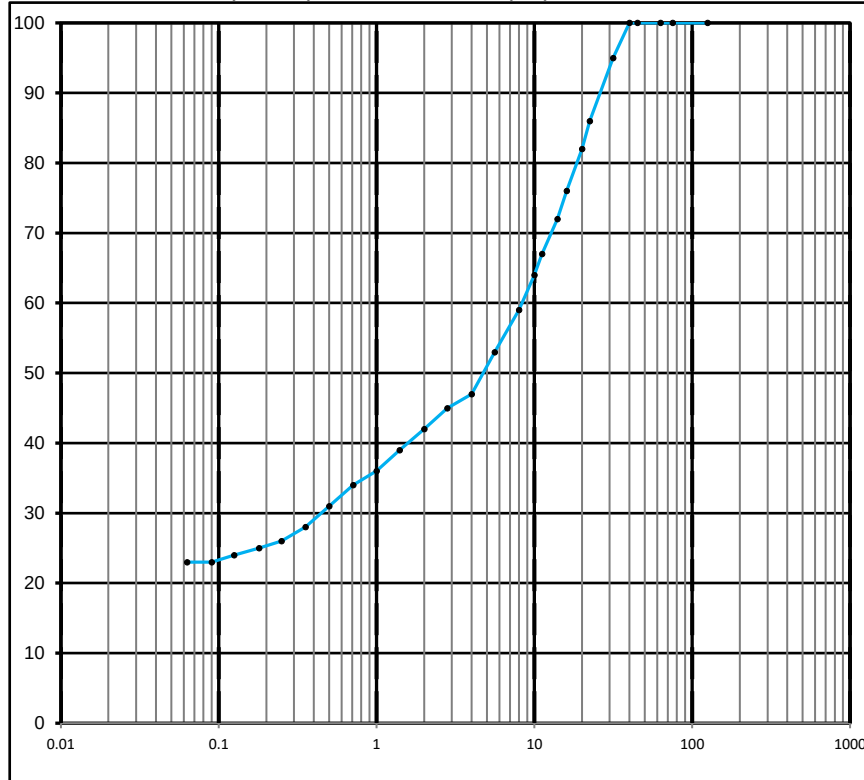
TEST REQUIREMENTS:

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:

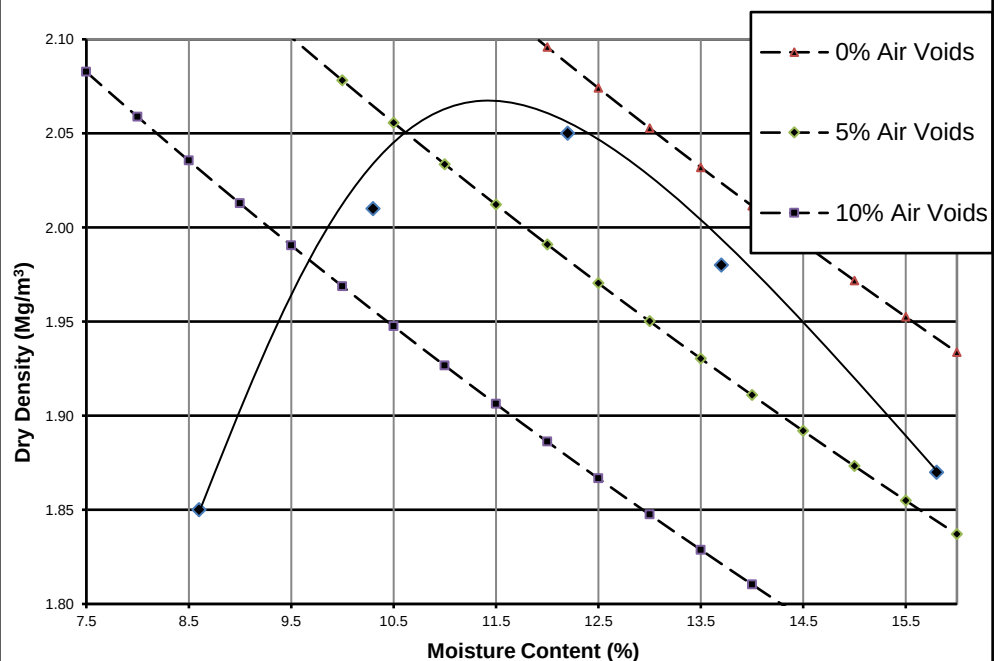
No
S93086
AL7-1
22/01/2021
12/02/2021
16/04/2021
Unknown
Granular - 40mm Down

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



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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

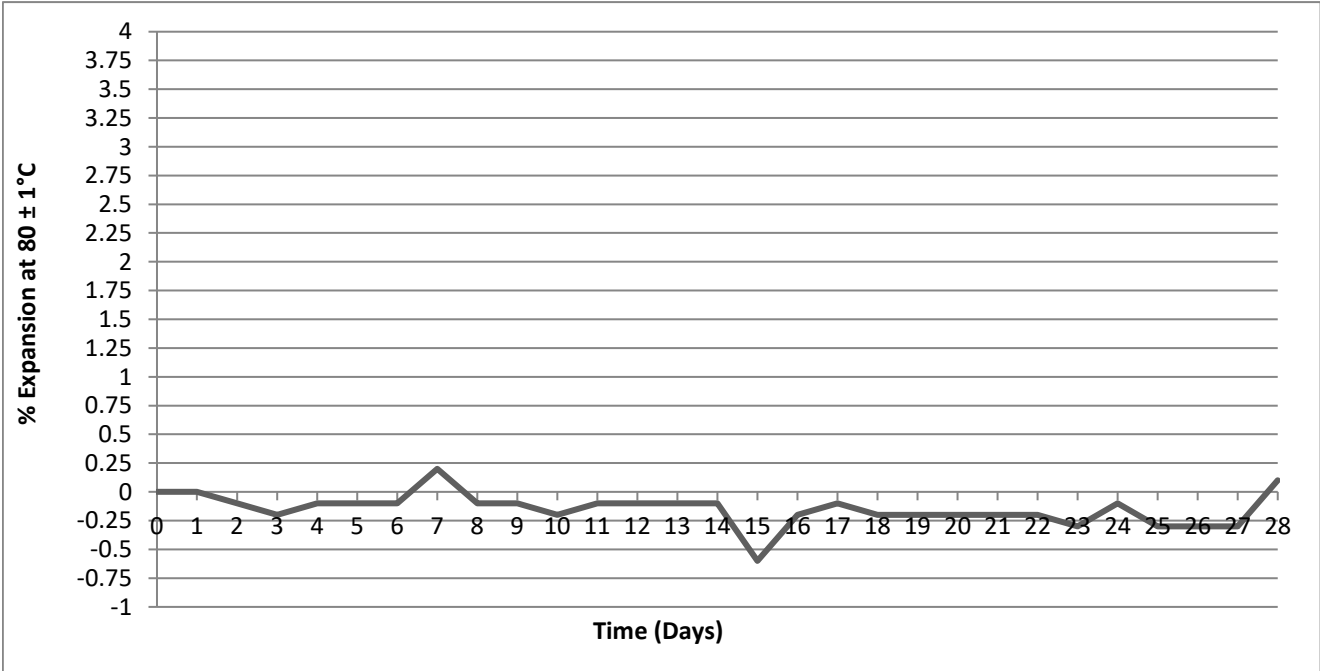
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

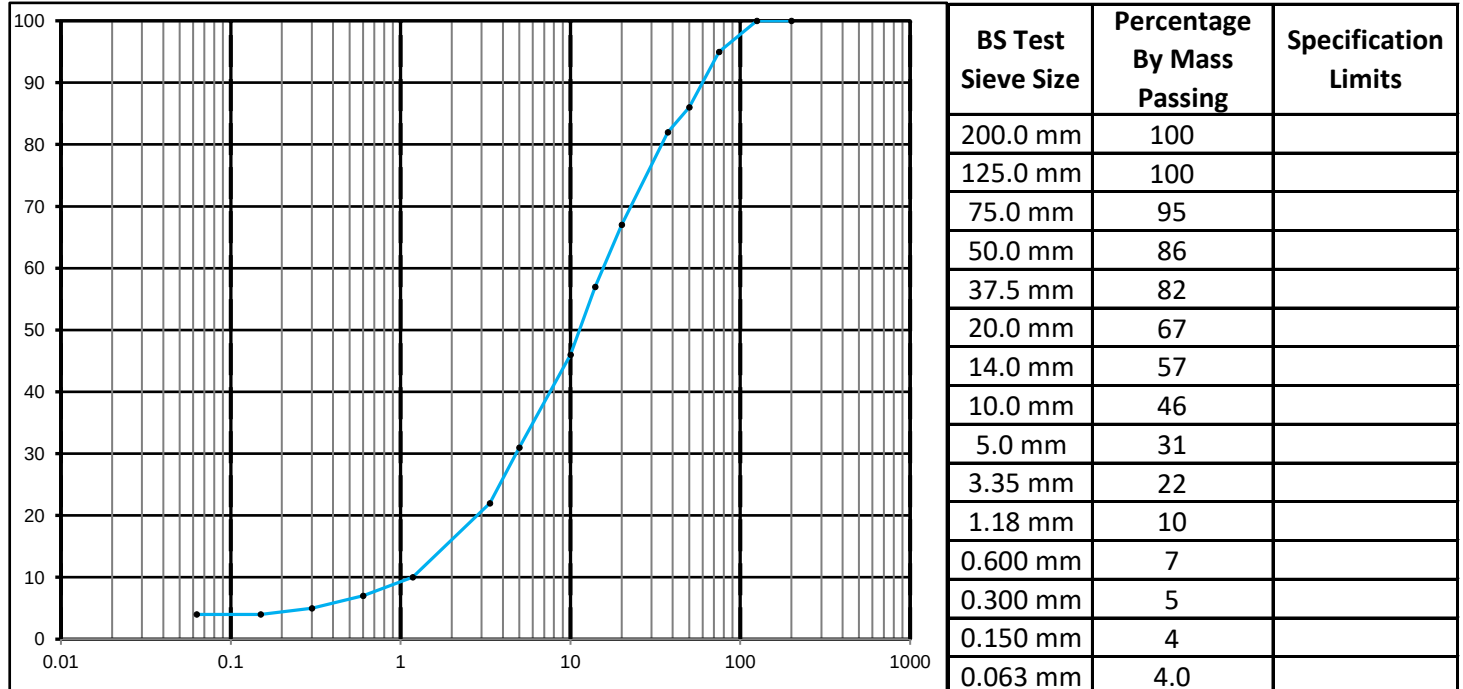
TEST REQUIREMENTS:

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
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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

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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

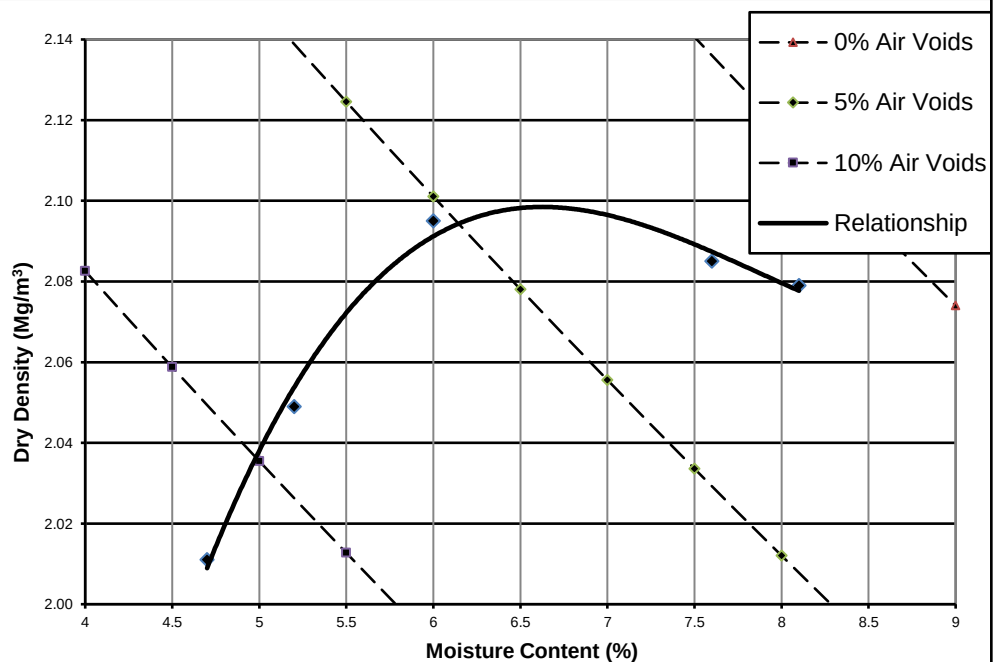
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method:

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

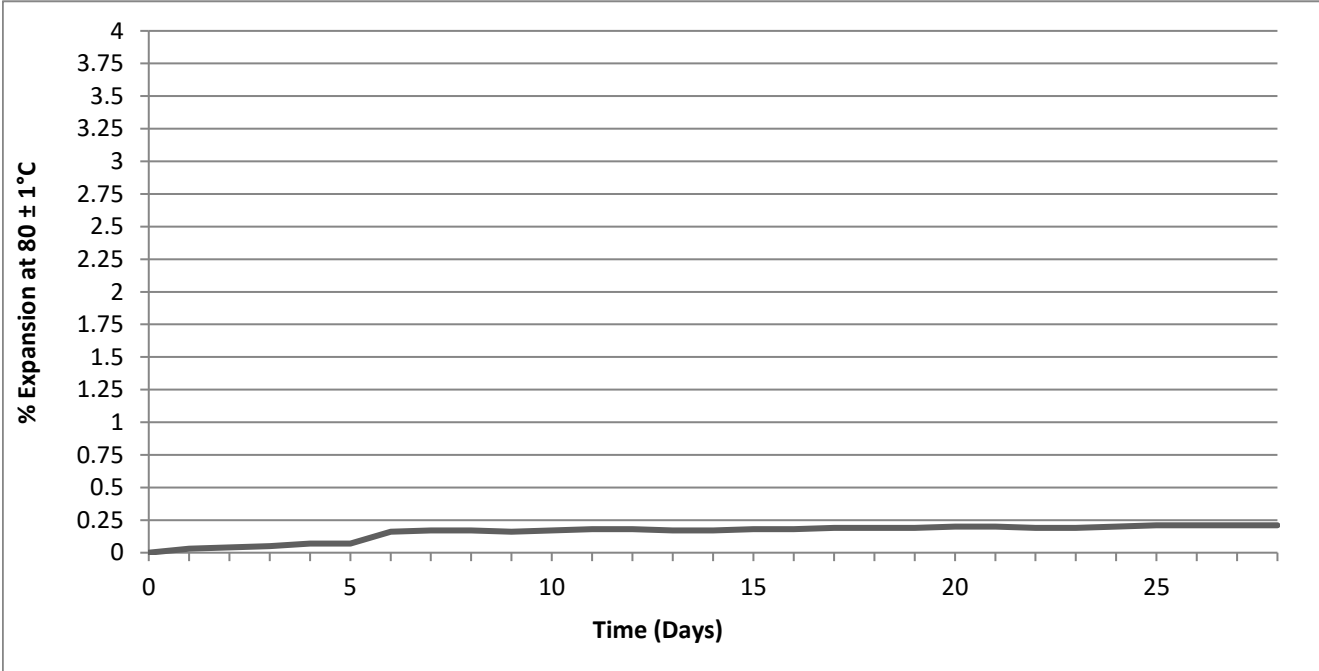
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

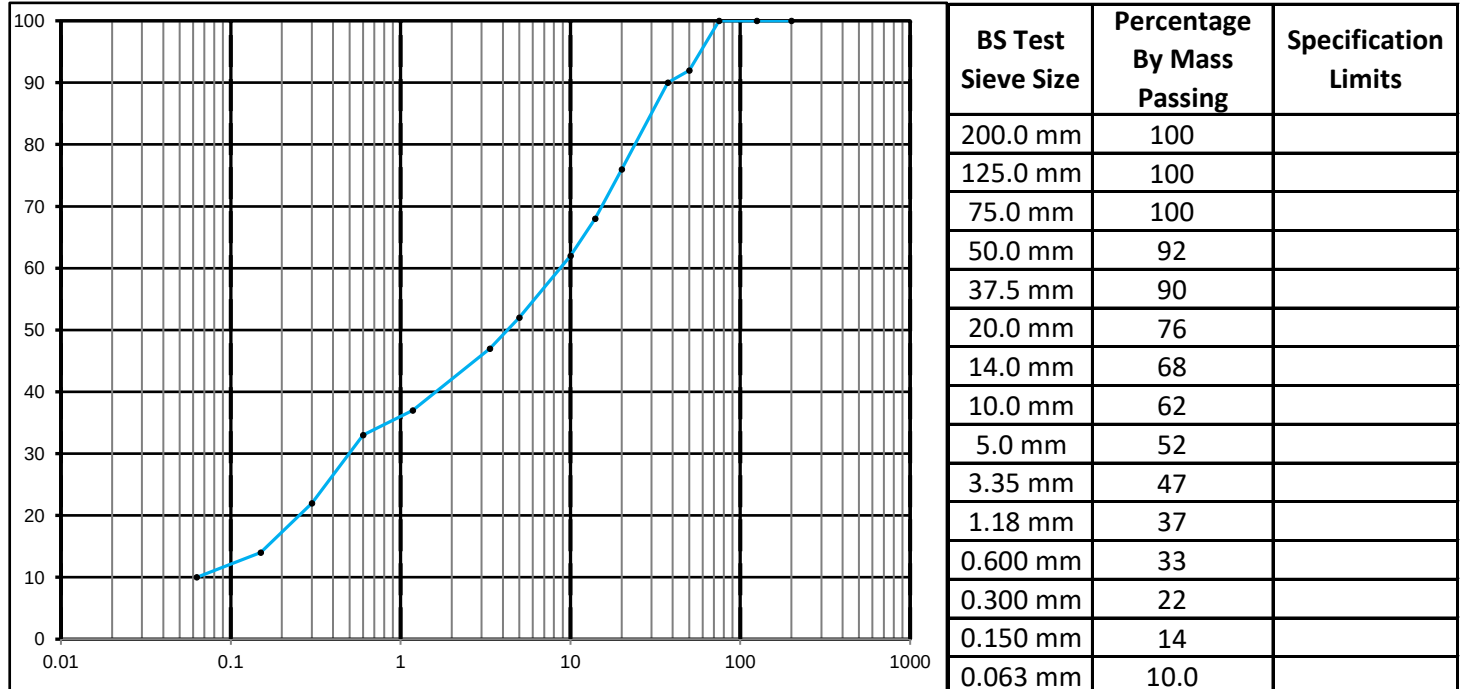
TEST REQUIREMENTS:

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:

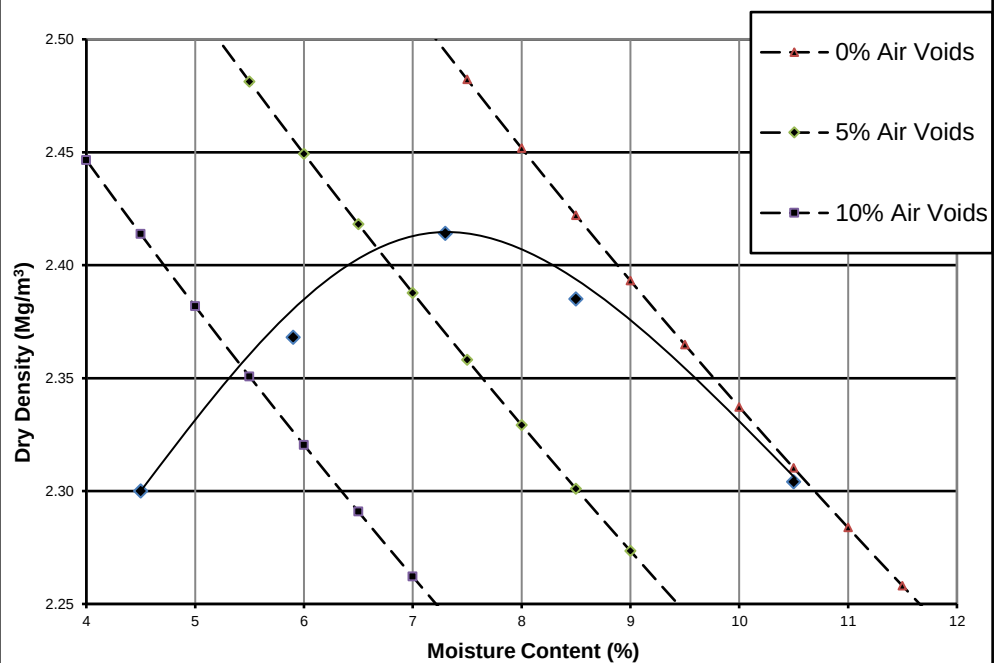
No
S92460
AM10-1
Unknown
14/01/2021
10/02/2021
Unknown
Soil

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

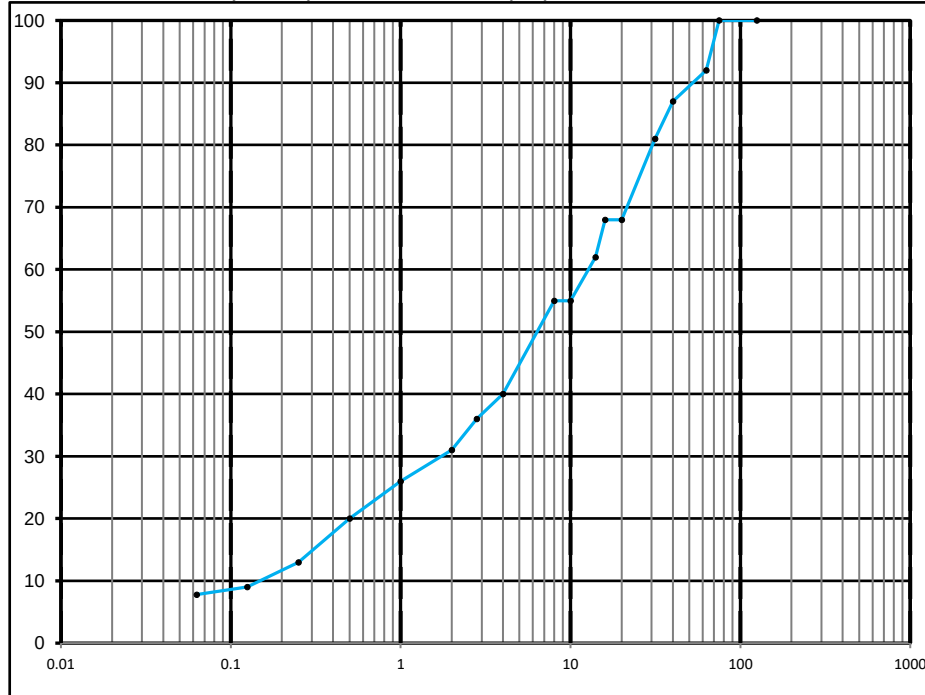
TEST REQUIREMENTS:

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:

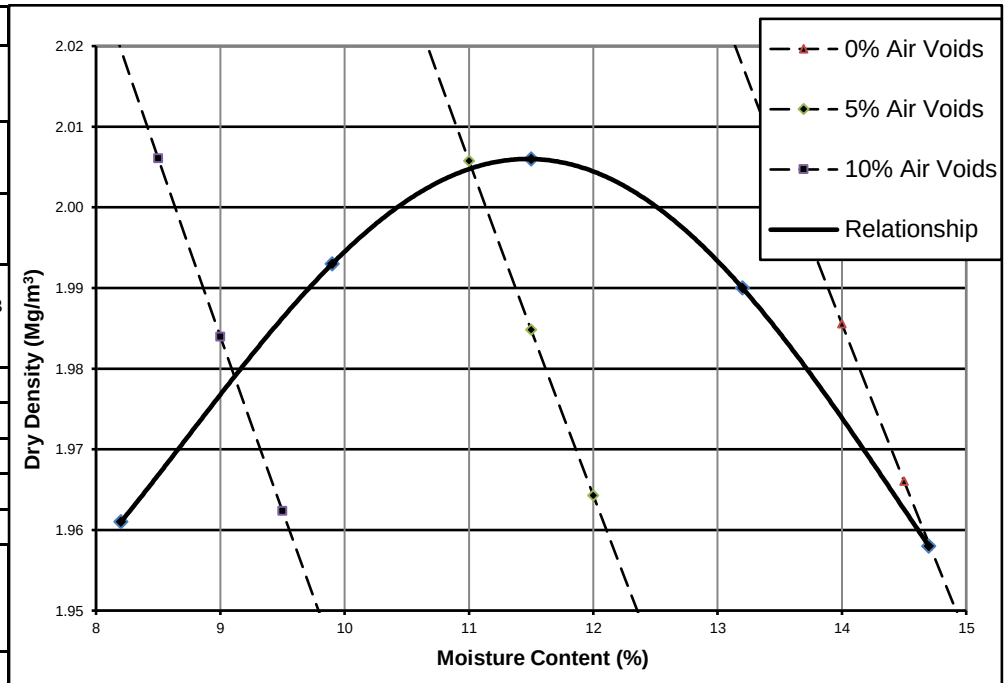
No **S92900**
AM11-1
Unknown
04/02/2021
19/03/2021
Unknown
Granular - 40mm Down

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.

<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 782730

Page 1 of 1

LABORATORY TEST REPORT

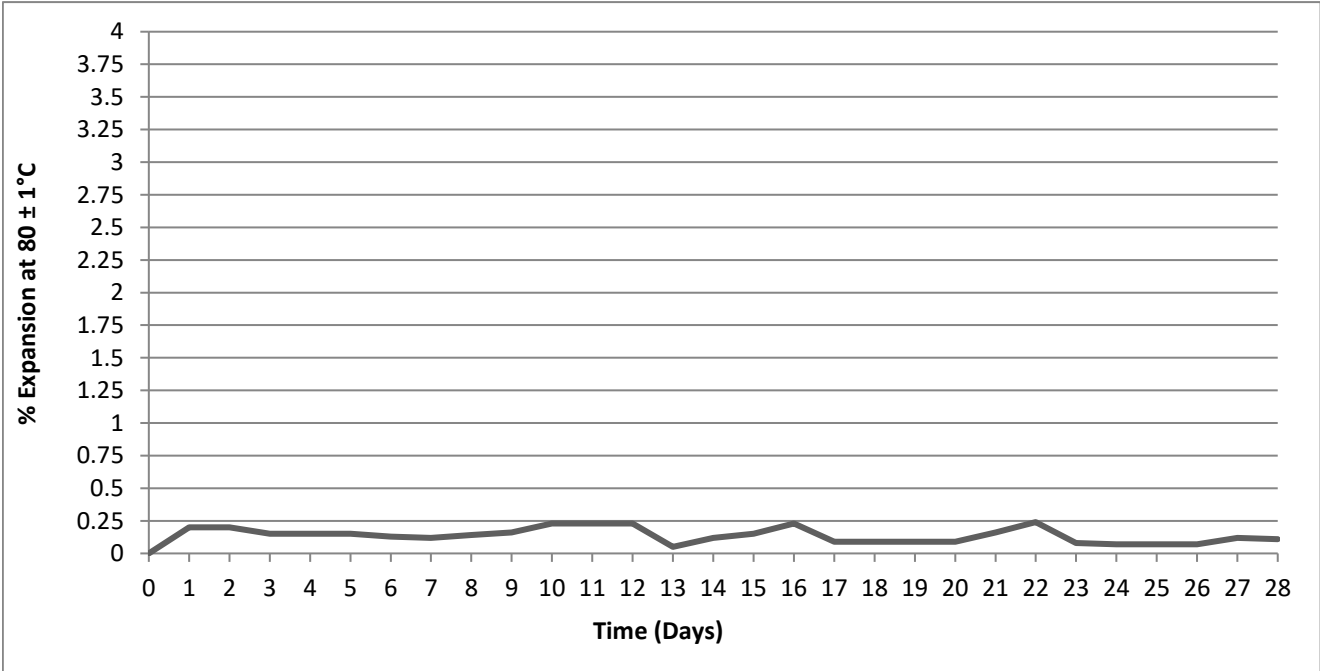
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

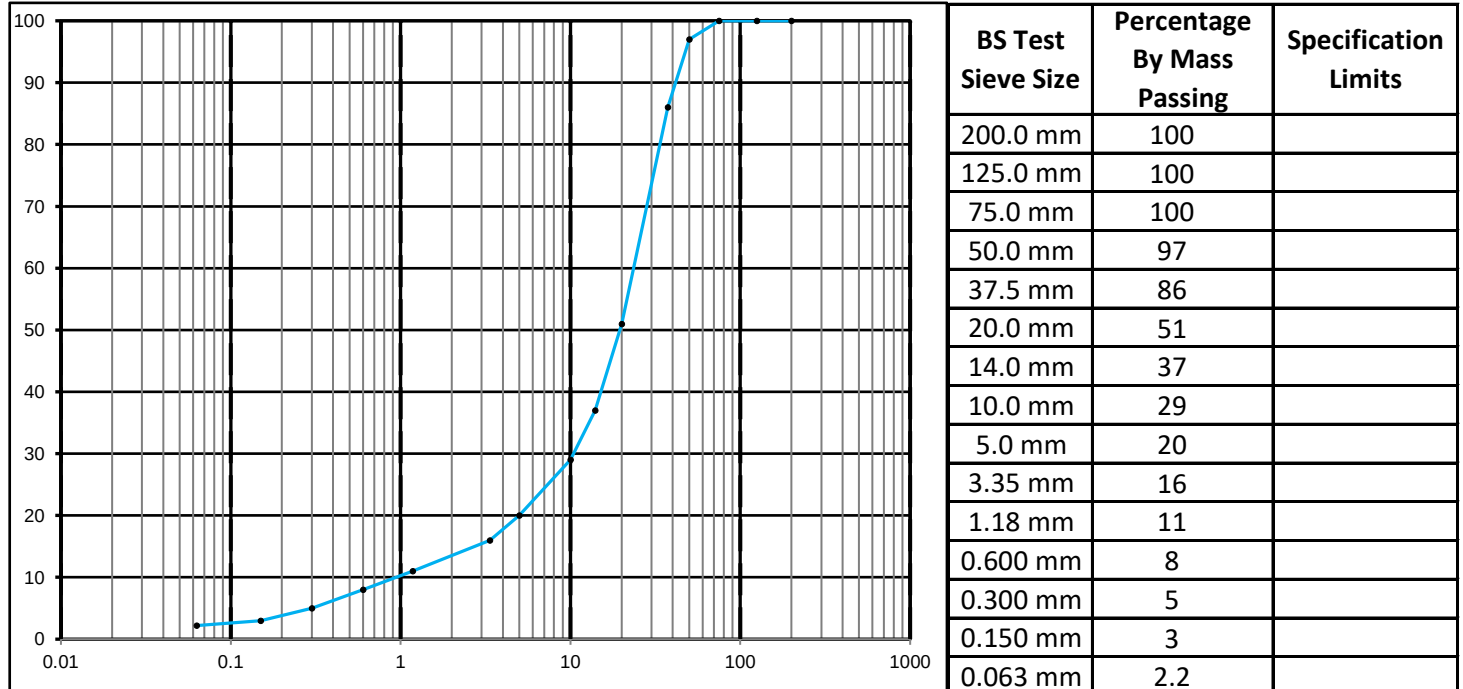
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked 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

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These results relate only to the items tested.

Comments:

None

Report checked 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 777608

Page 1 of 1

LABORATORY TEST REPORT

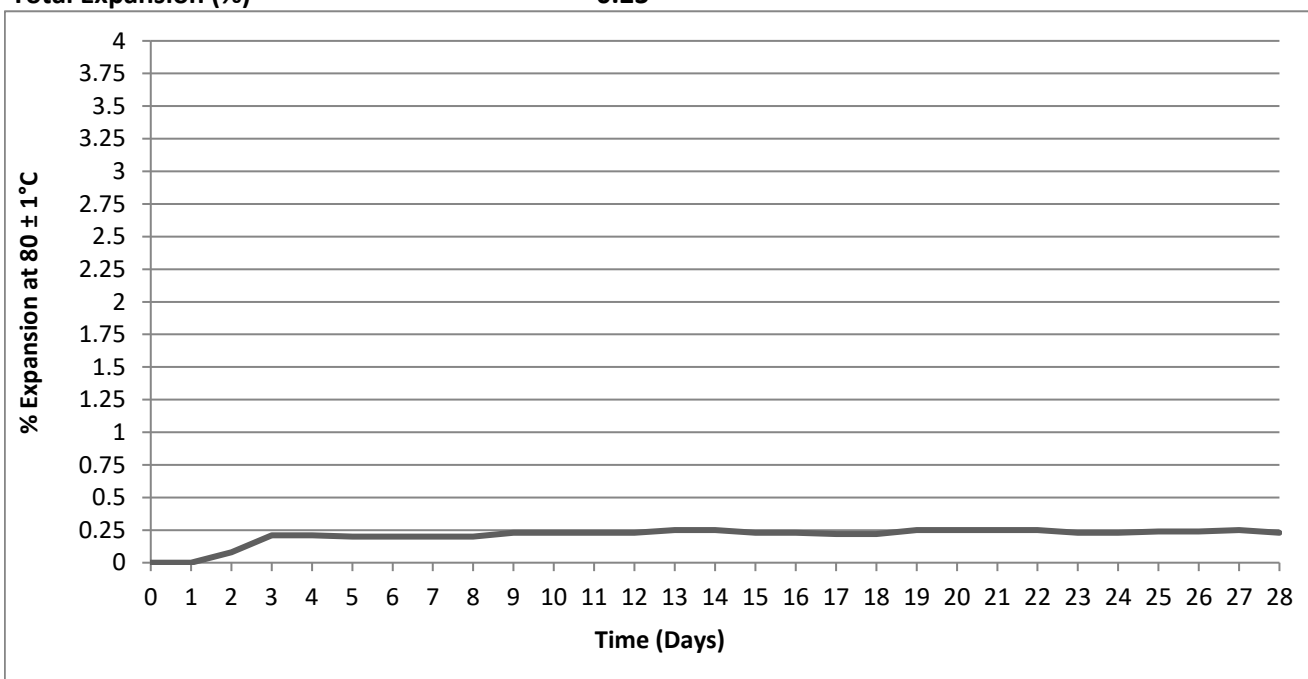
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

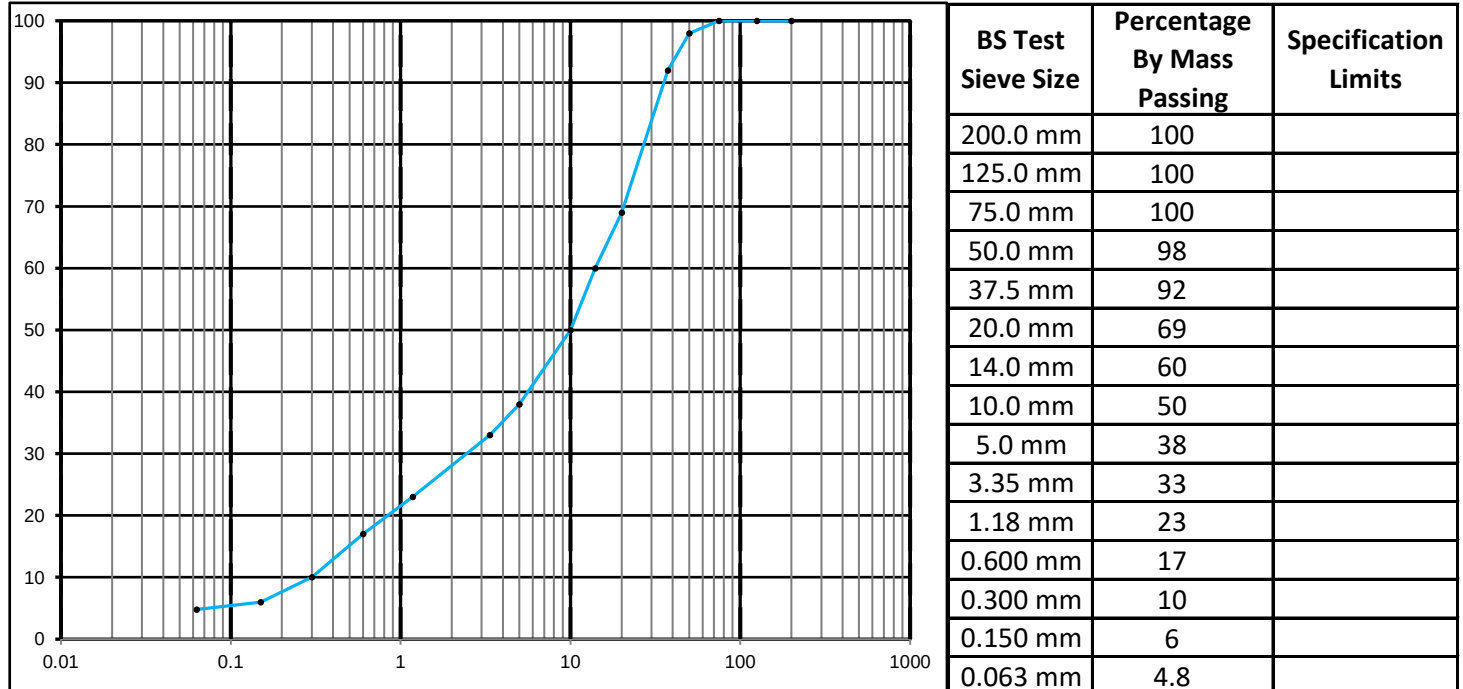
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked 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:

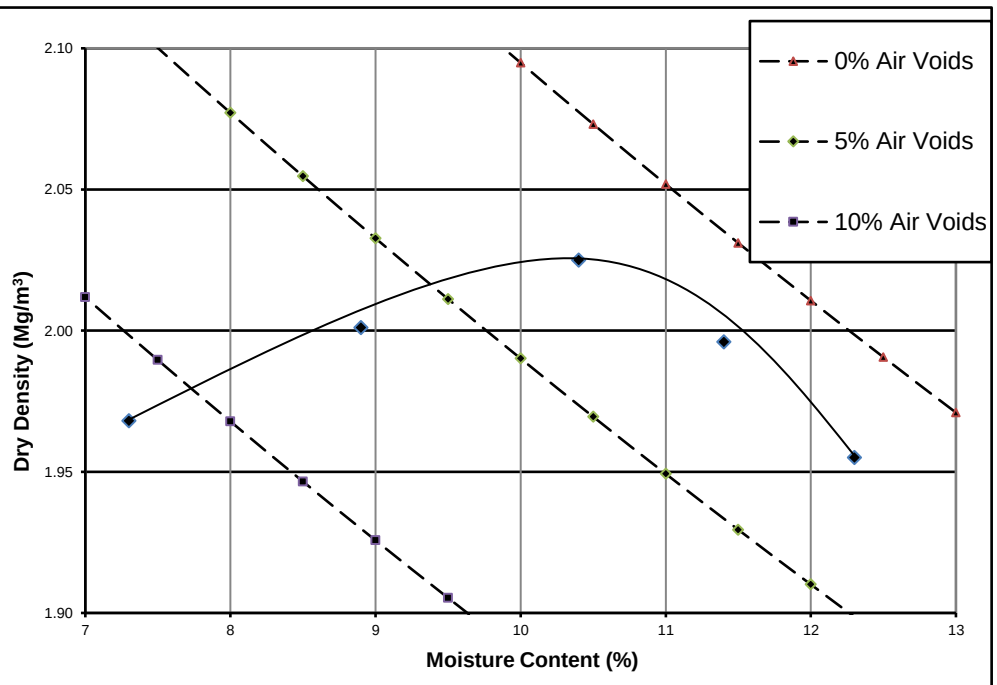
No
S92460
AM13-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

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

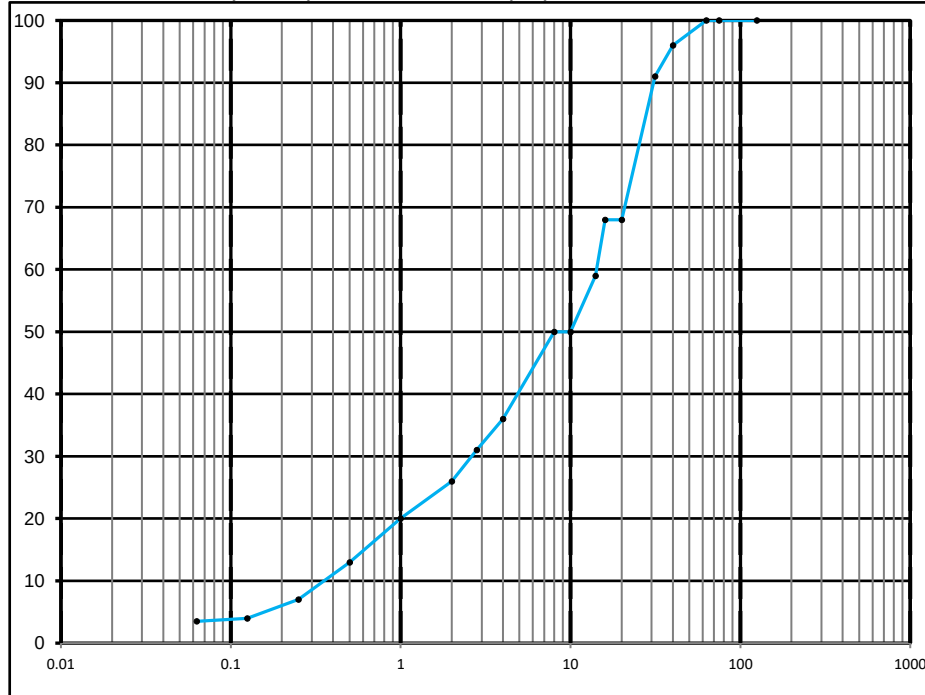
TEST REQUIREMENTS:

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:

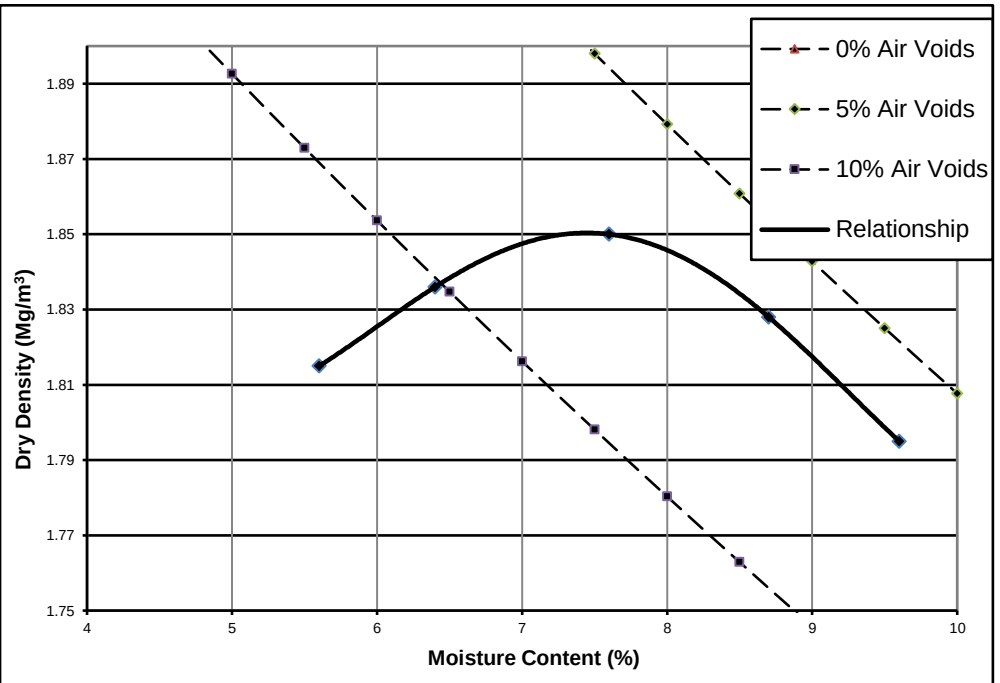
No
S92900
AM14-1
Unknown
04/02/2021
06/04/2021
Unknown
Granular - 40mm Down

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

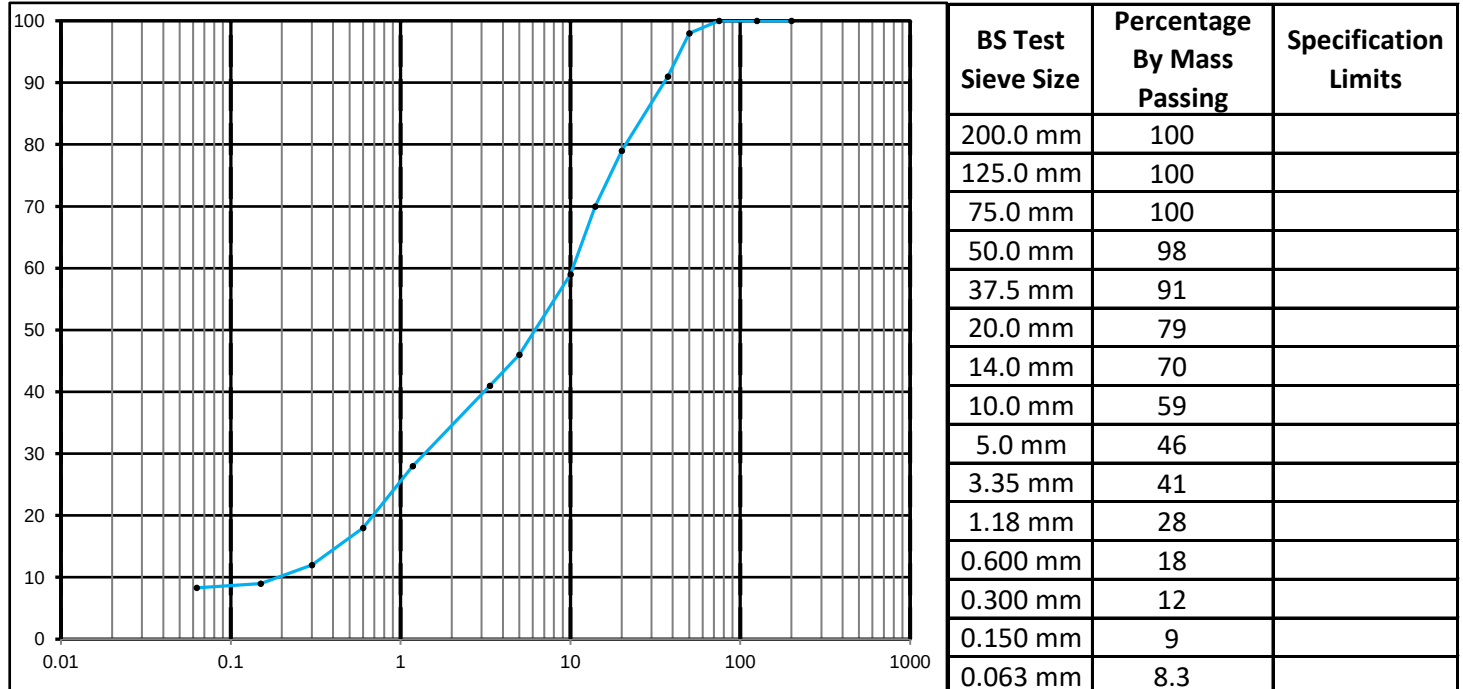
TEST REQUIREMENTS:

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.

Comments:

None

Report checked 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 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:

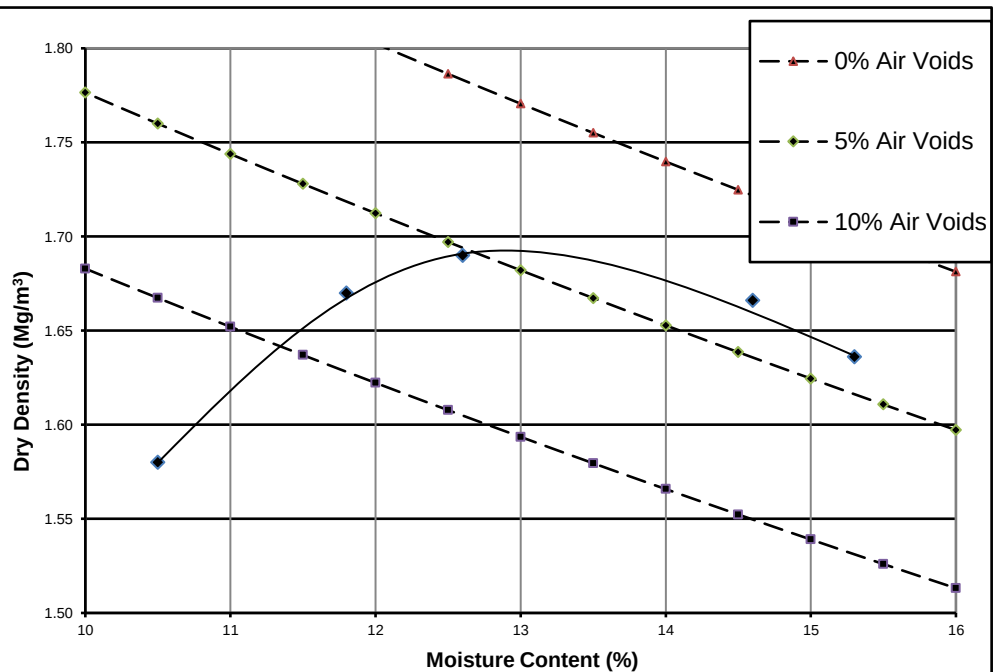
No
S92460
AM15-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

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

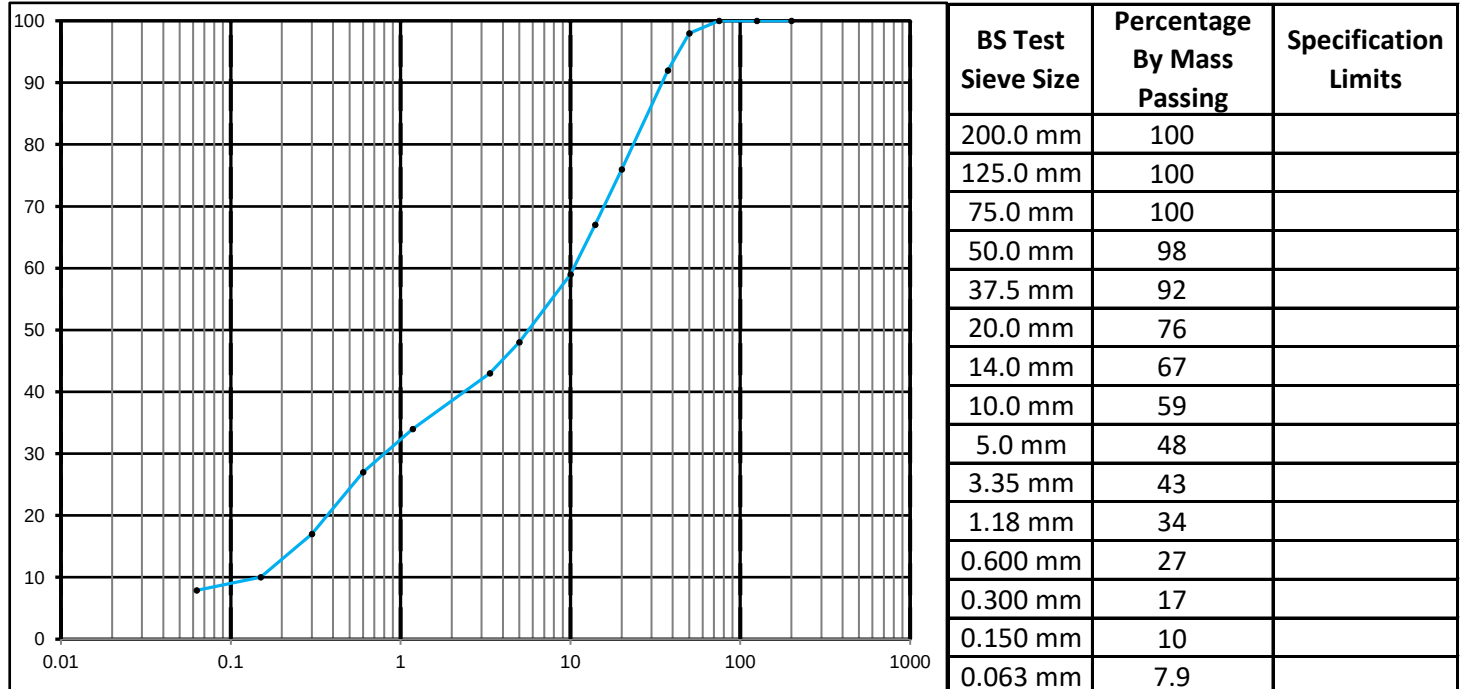
TEST REQUIREMENTS:

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:

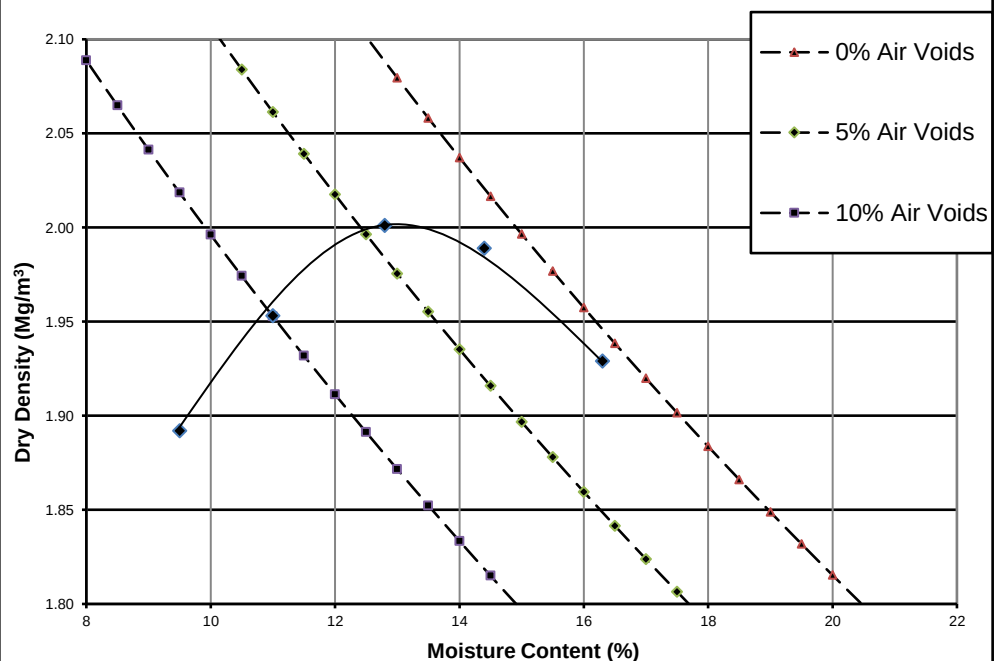
No
S92460
AM16-1
Unknown
14/01/2021
13/02/2021
Unknown
Soil

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.

<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 777617

Page 1 of 1

LABORATORY TEST REPORT

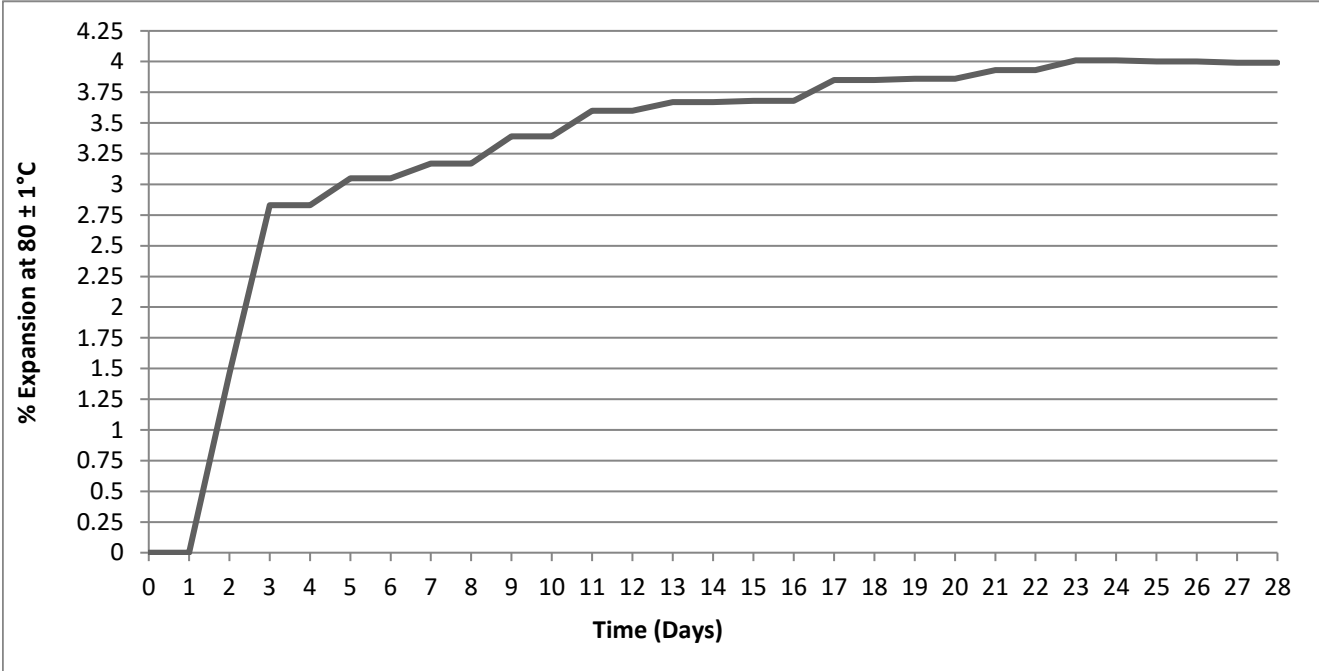
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

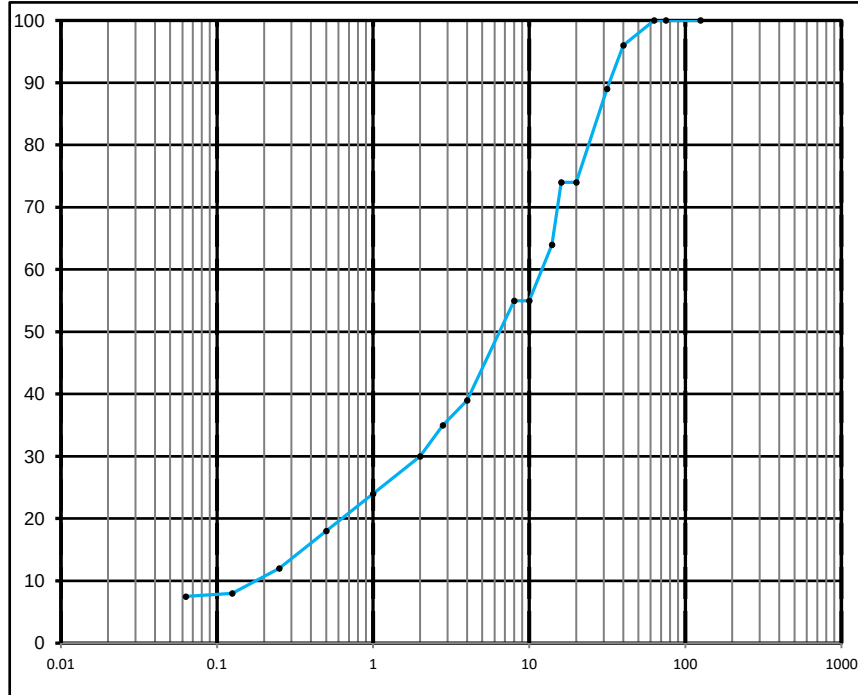
TEST REQUIREMENTS:

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	

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These results relate only to the items tested.

Comments:

None

Report checked 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.

Comments:

None

Report checked 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 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:

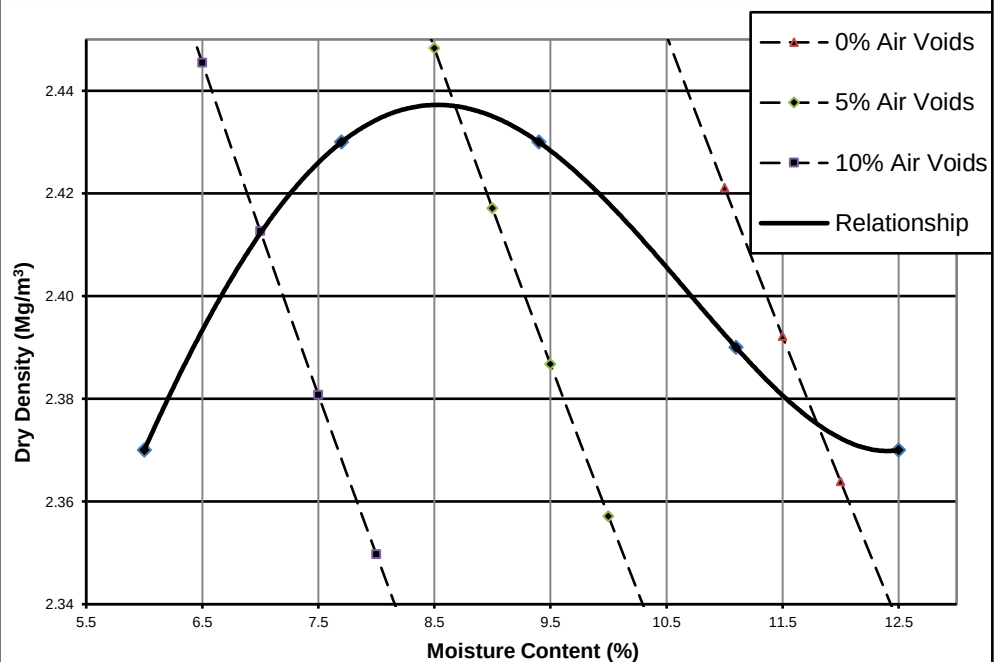
No
S92900
AM16-1
Unknown
04/02/2021
11/03/2021
Unknown
Granular - 40mm Down

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.

Comments:

None

Report checked 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

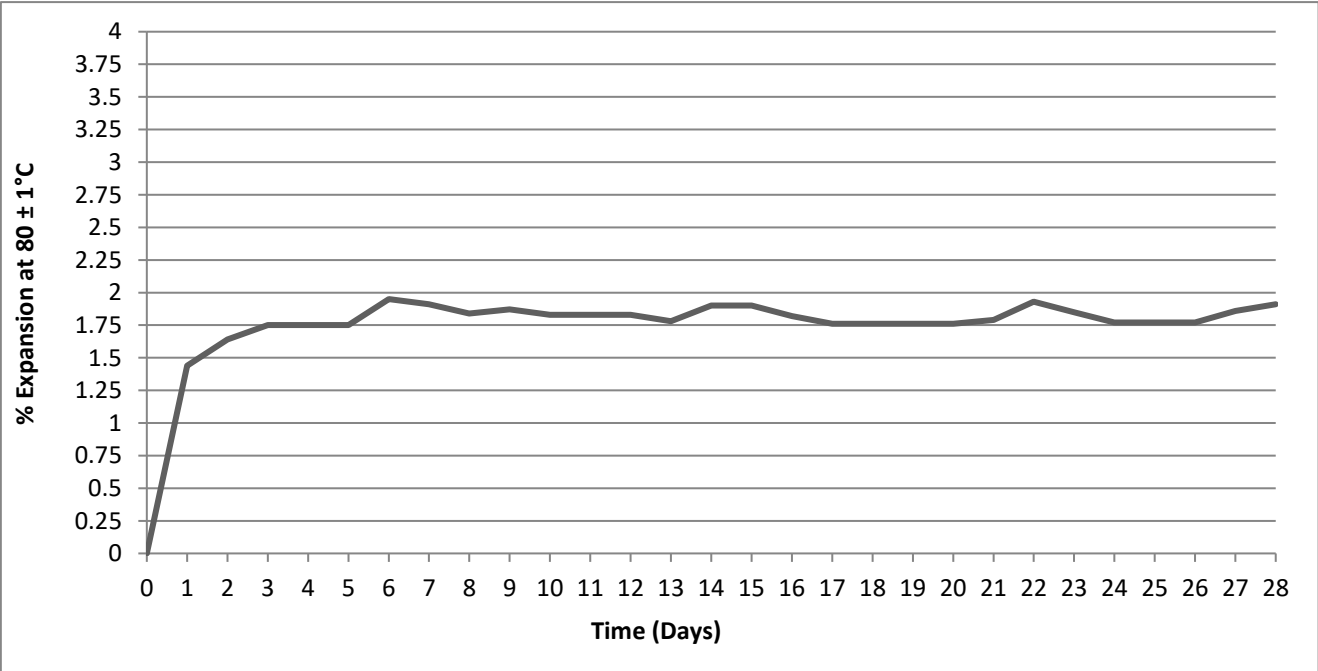
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

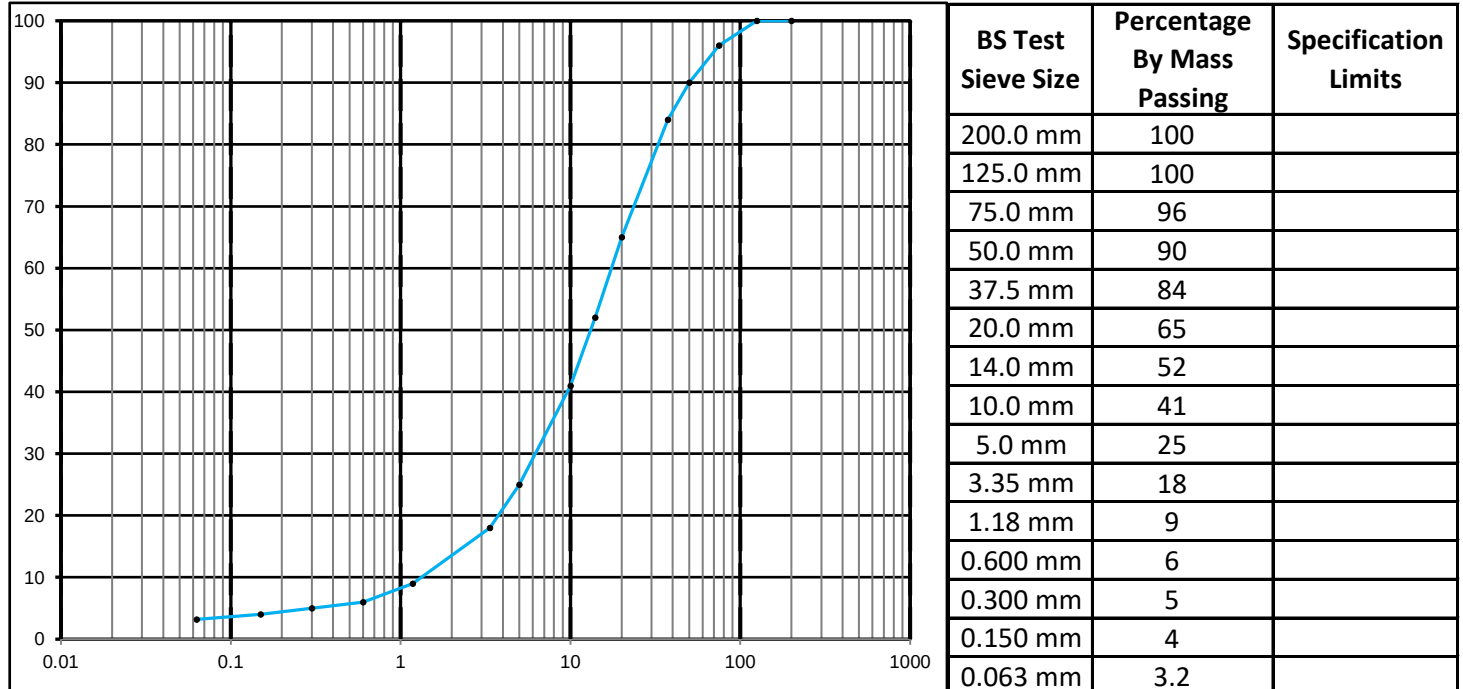
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked 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

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These results relate only to the items tested.

Comments:

None

Report checked 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:

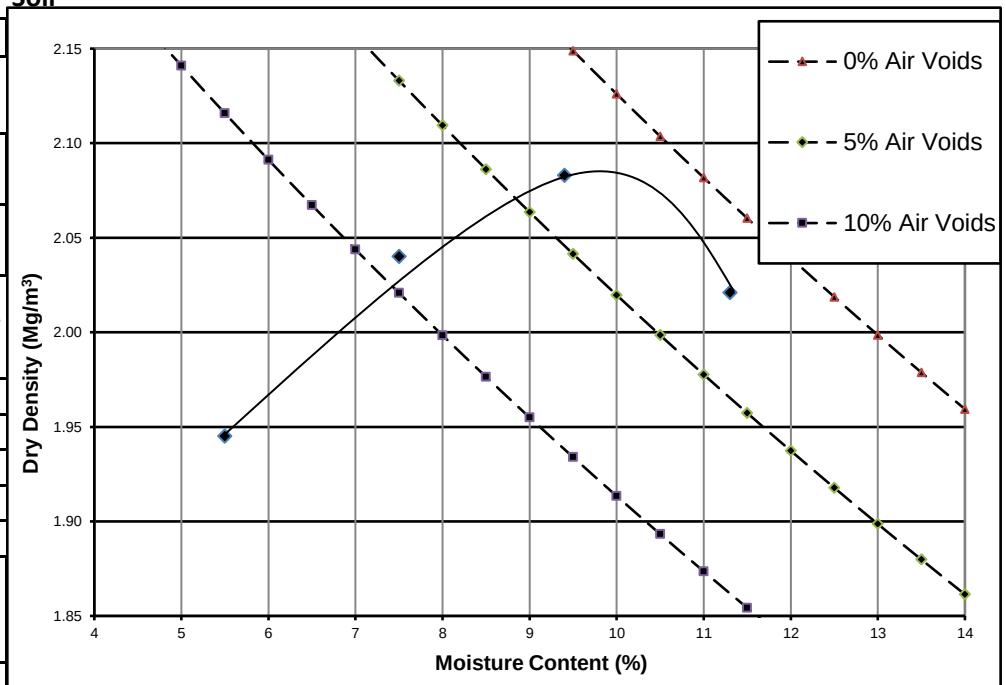
No
S92292
AM2-1
17/12/2020
05/01/2021
20/01/2021
Unknown
Soil

Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method: **3.2.5.3 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



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These results relate only to the items tested.

Comments:

None

Report checked 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

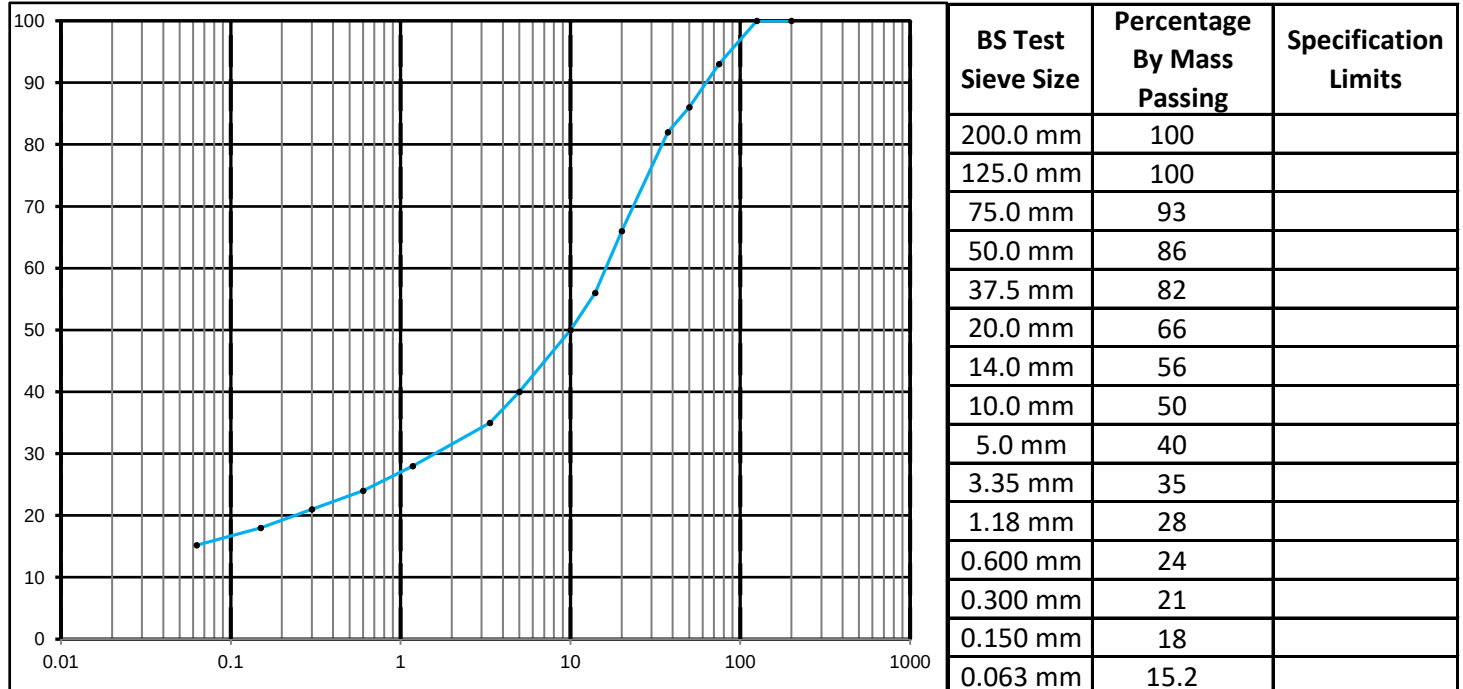
TEST REQUIREMENTS:

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:

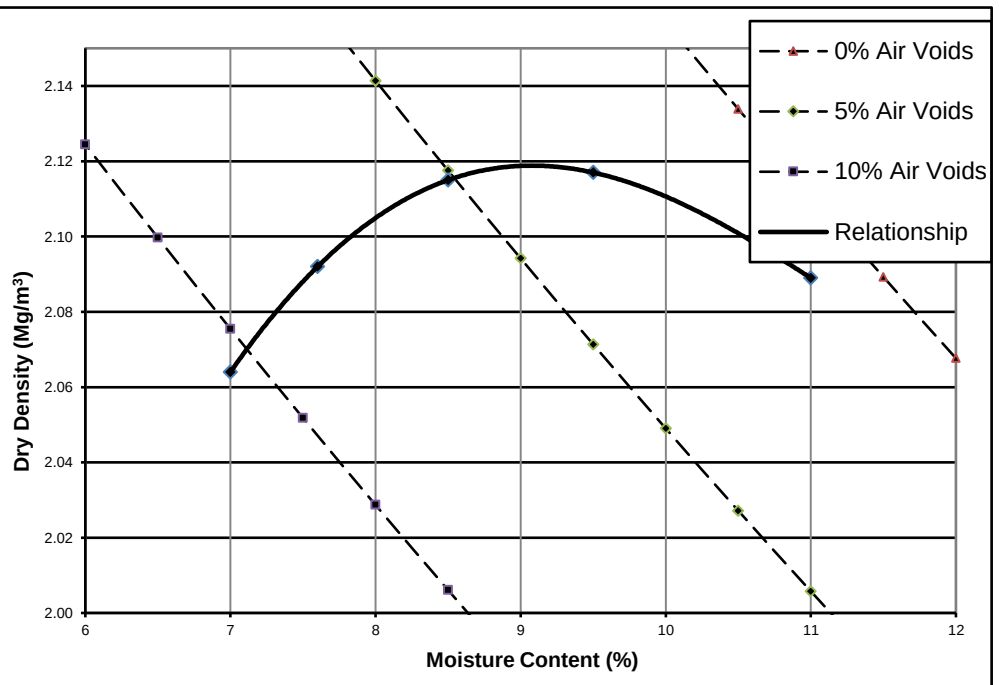
No
S92292
AN1-1
17/12/2020
05/01/2021
22/01/2021
Unknown
Soil

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/m ³
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

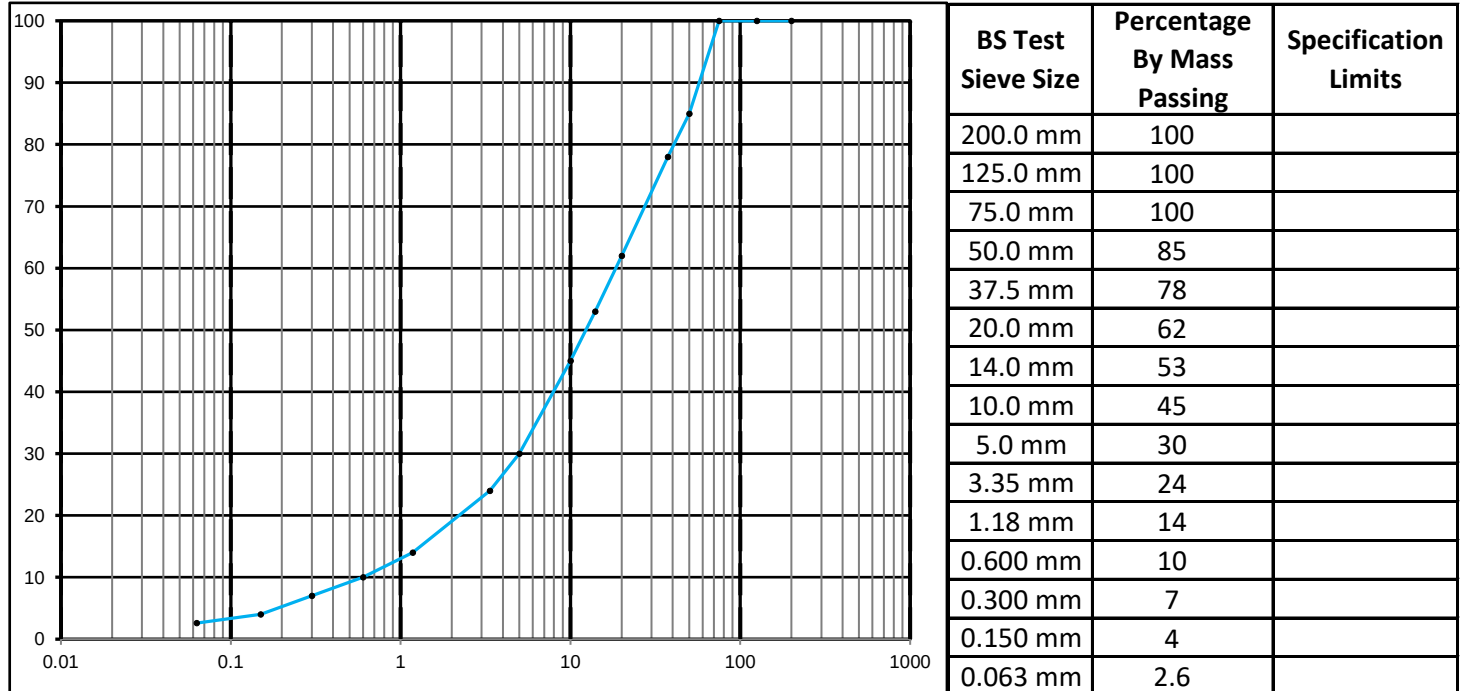
TEST REQUIREMENTS:

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:

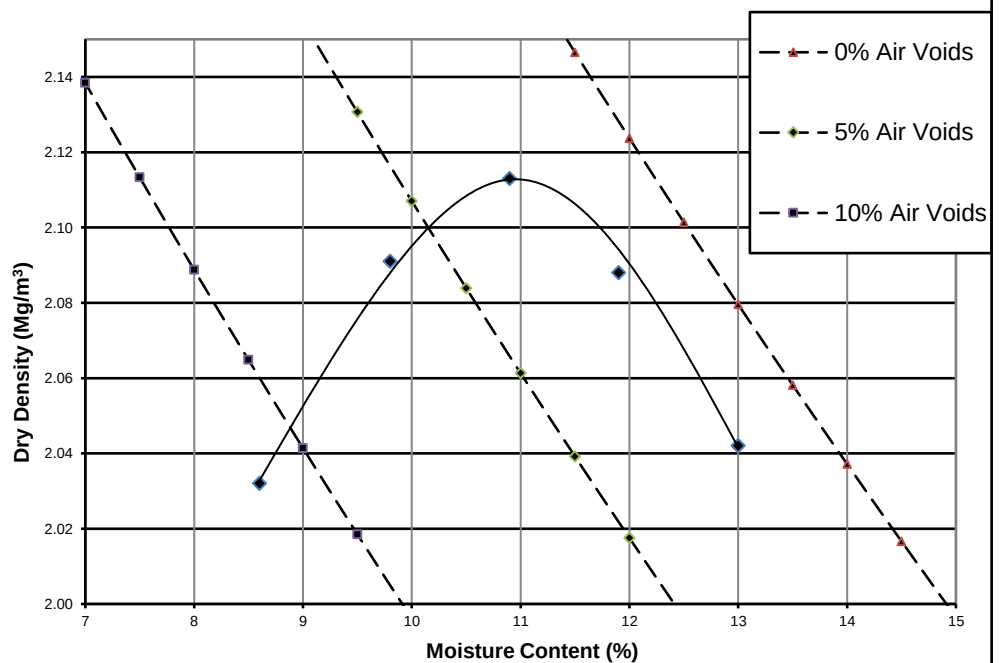
No
S92460
AN10-1
Unknown
14/01/2021
09/02/2021
Unknown
Soil

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



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These results relate only to the items tested.

Comments:

None

Report checked 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 %

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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

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17 High Street
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Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777504

Page 1 of 1

LABORATORY TEST REPORT

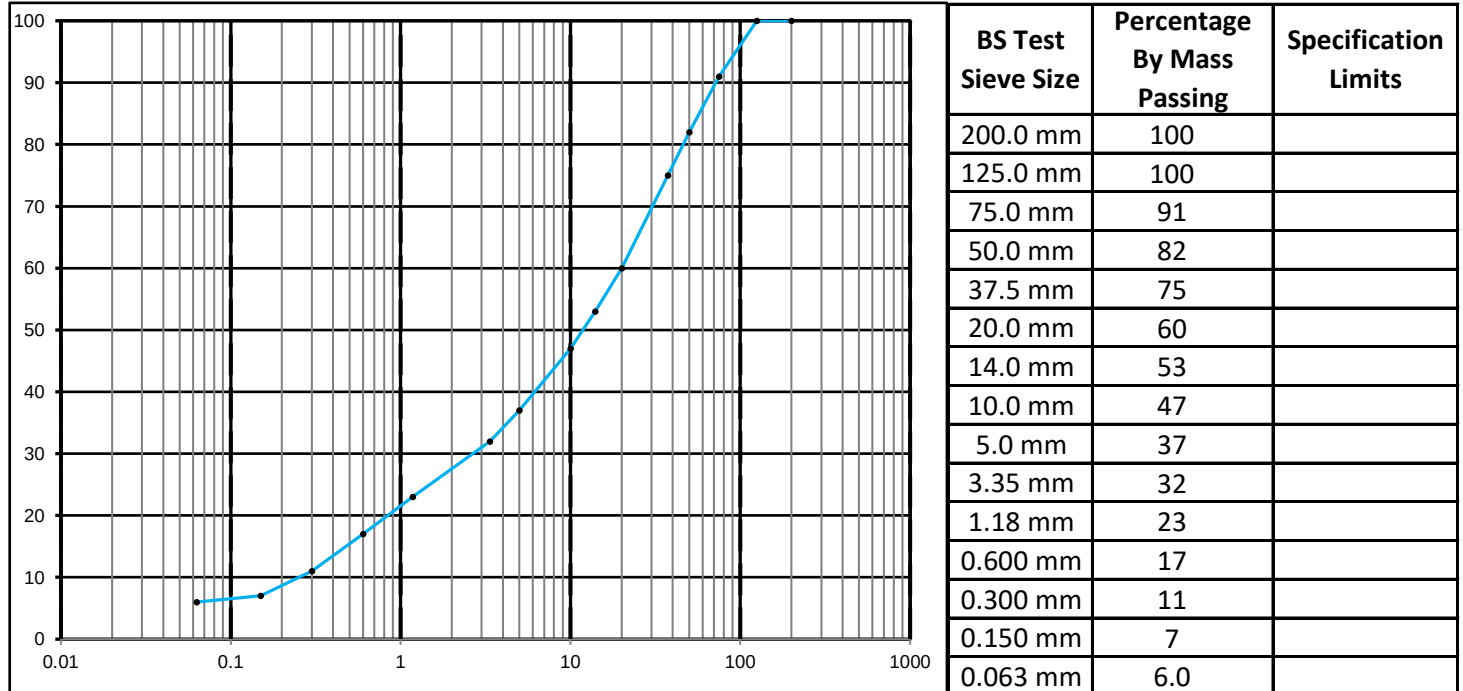
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

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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

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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

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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:

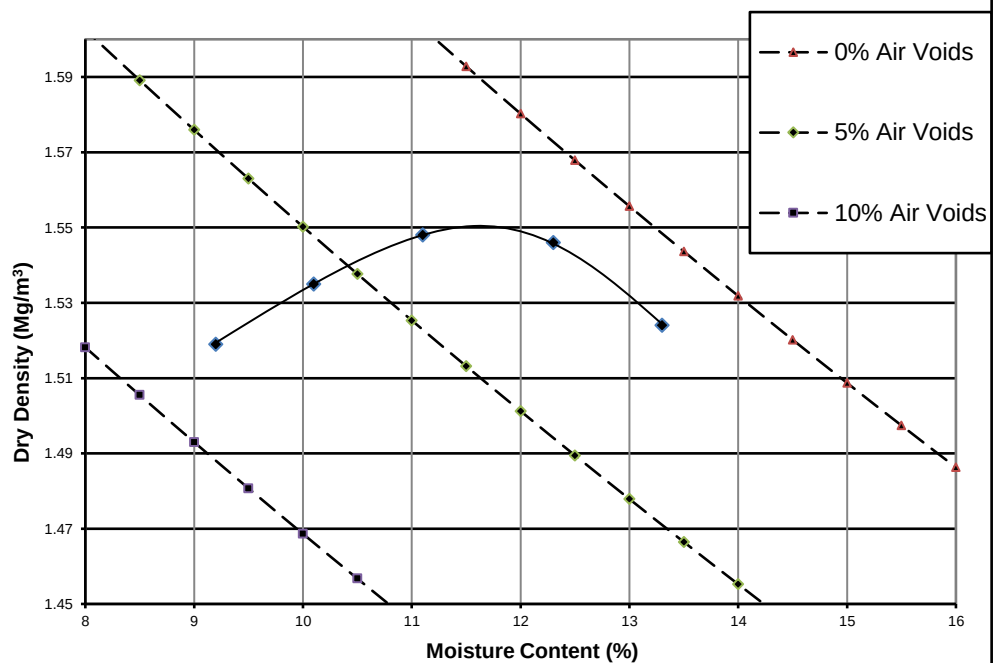
No
S92460
AN11-1
Unknown
14/01/2021
01/02/2021
Unknown
Soil

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
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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 %

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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
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17 High Street
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Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777508

Page 1 of 1

LABORATORY TEST REPORT

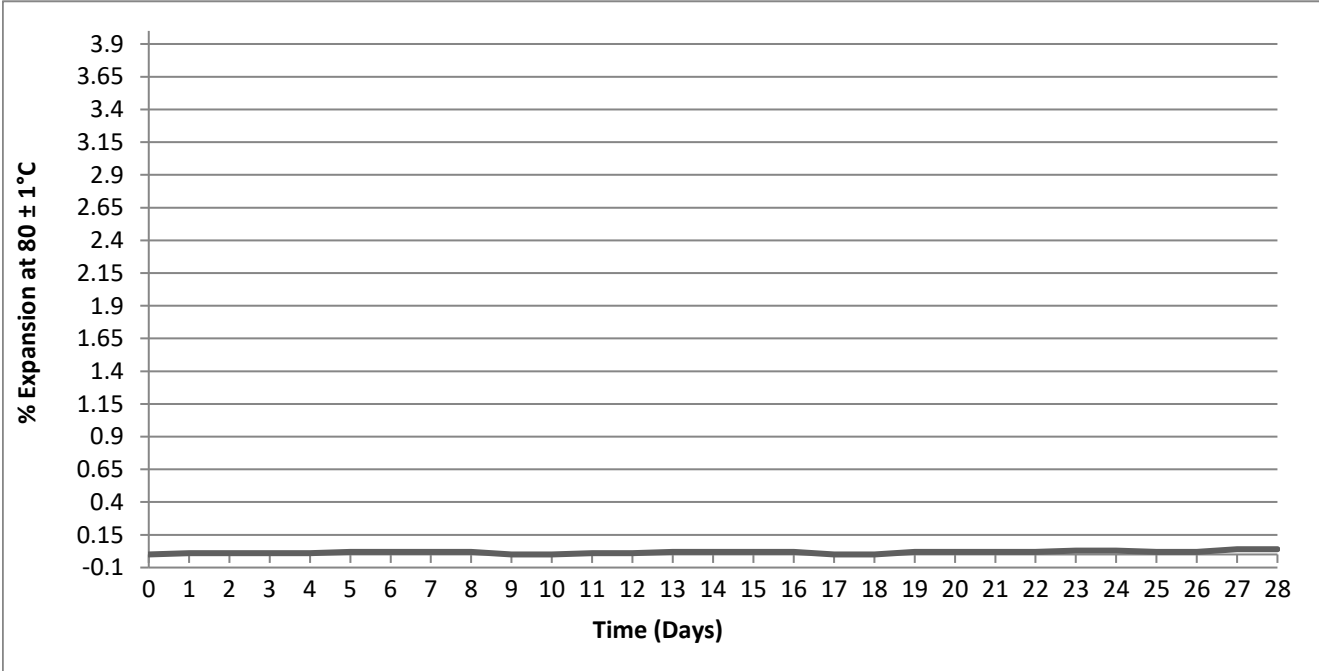
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 35

Report checked and approved by:

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Sharon Parry

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17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777509

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LABORATORY TEST REPORT

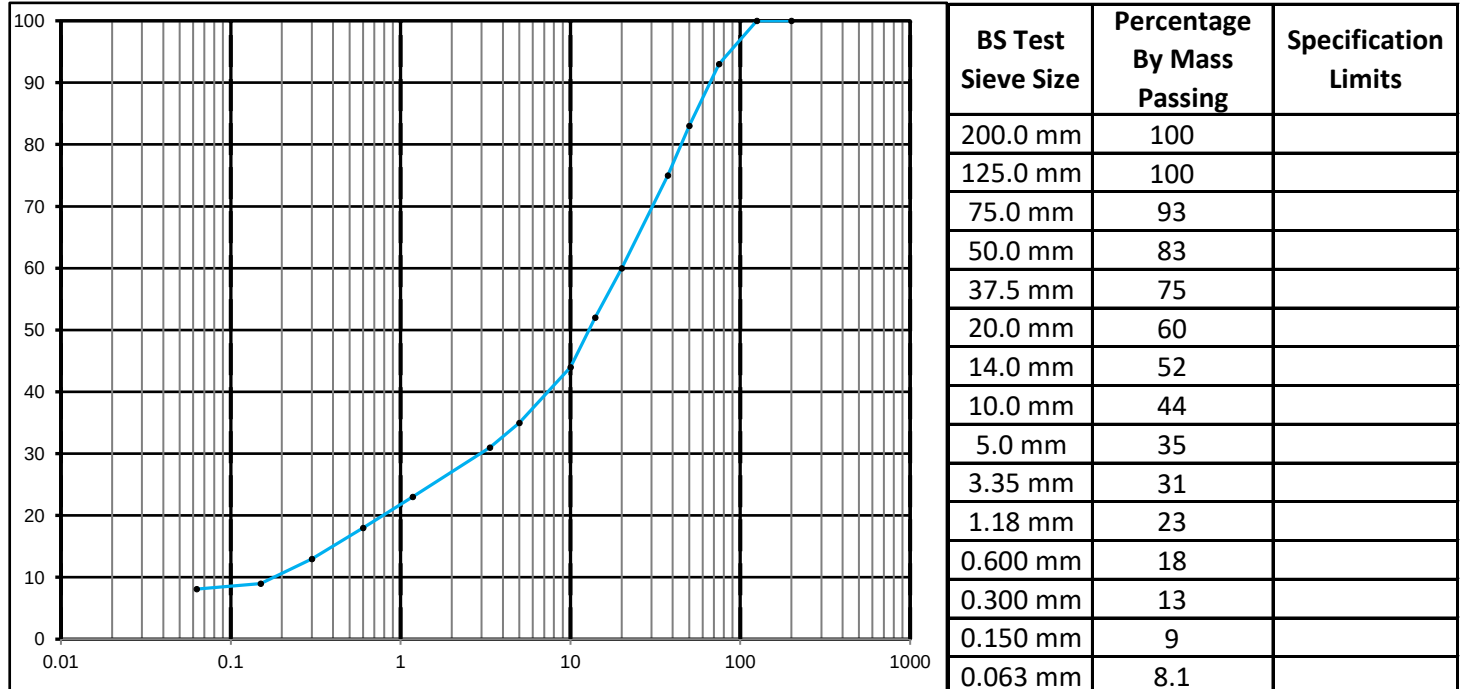
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

Sharon Parry
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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

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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

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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:

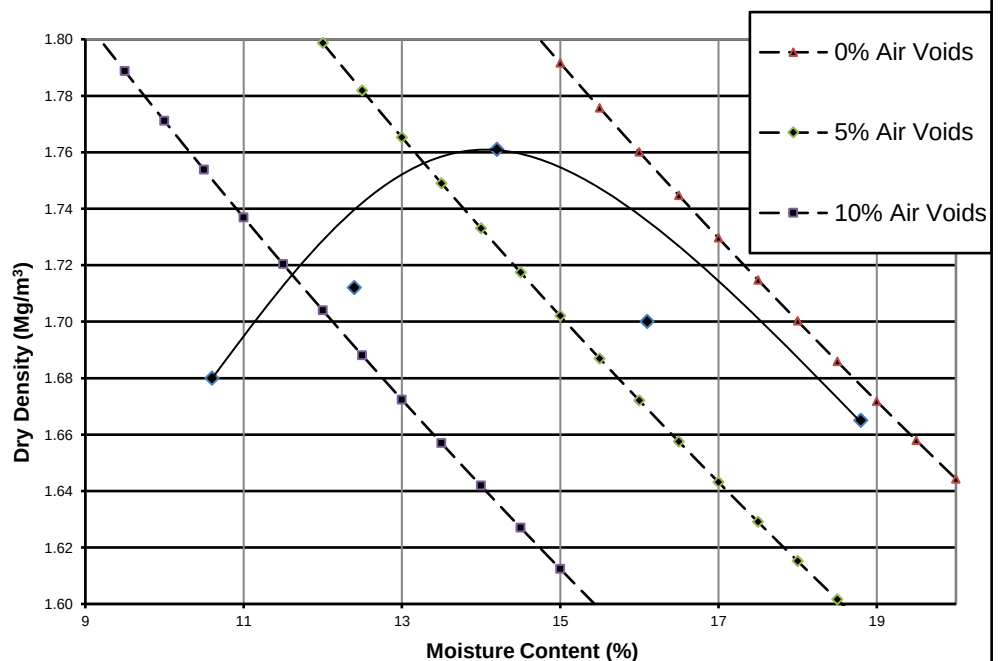
No
S92460
AN12-1
Unknown
14/01/2021
09/02/2021
Unknown
Soil

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

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Aggregate Team Coordinator

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17 High Street
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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

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Aggregate Team Coordinator

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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

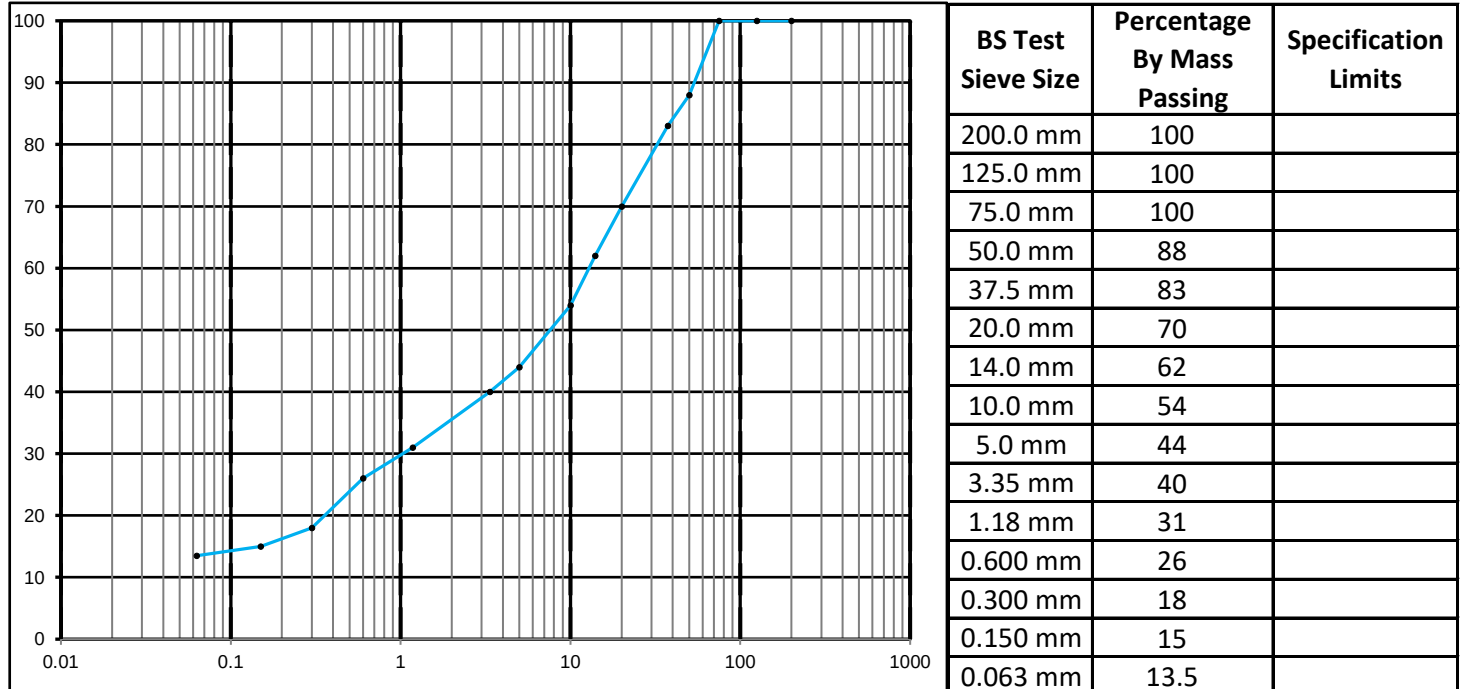
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked and approved by:

S Parry

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Aggregate Team Coordinator

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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

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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:

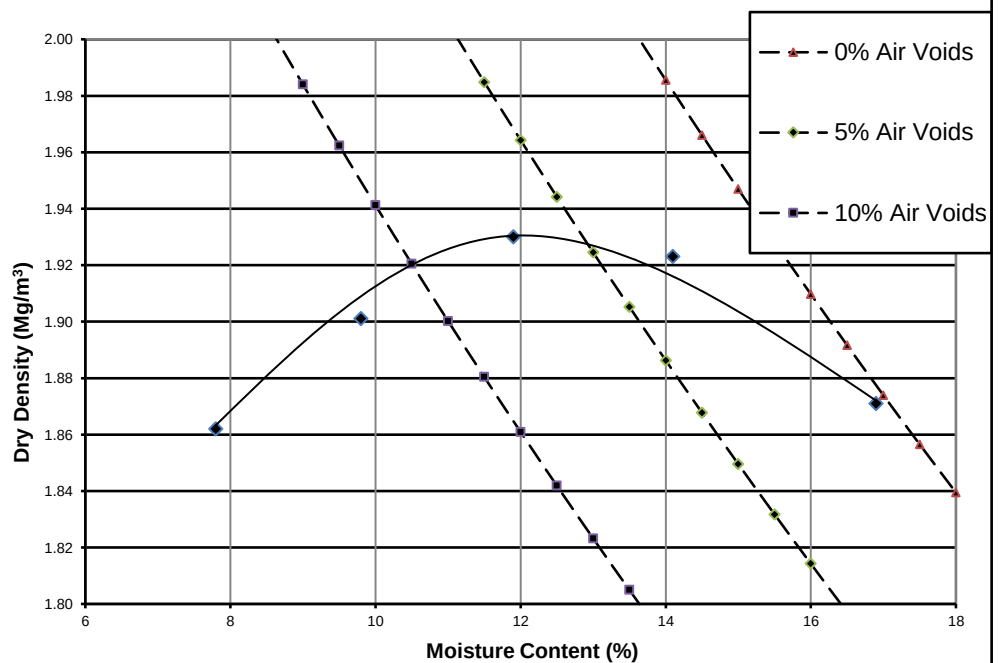
No
S92460
AN13-1
Unknown
14/01/2021
10/02/2021
Unknown
Soil

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:

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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

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Aggregate Team Coordinator

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17 High Street
Longbridge
Birmingham
B31 2UQ

Date: 23 March 2021
Test Report Ref: TR 777517

Page 1 of 1

LABORATORY TEST REPORT

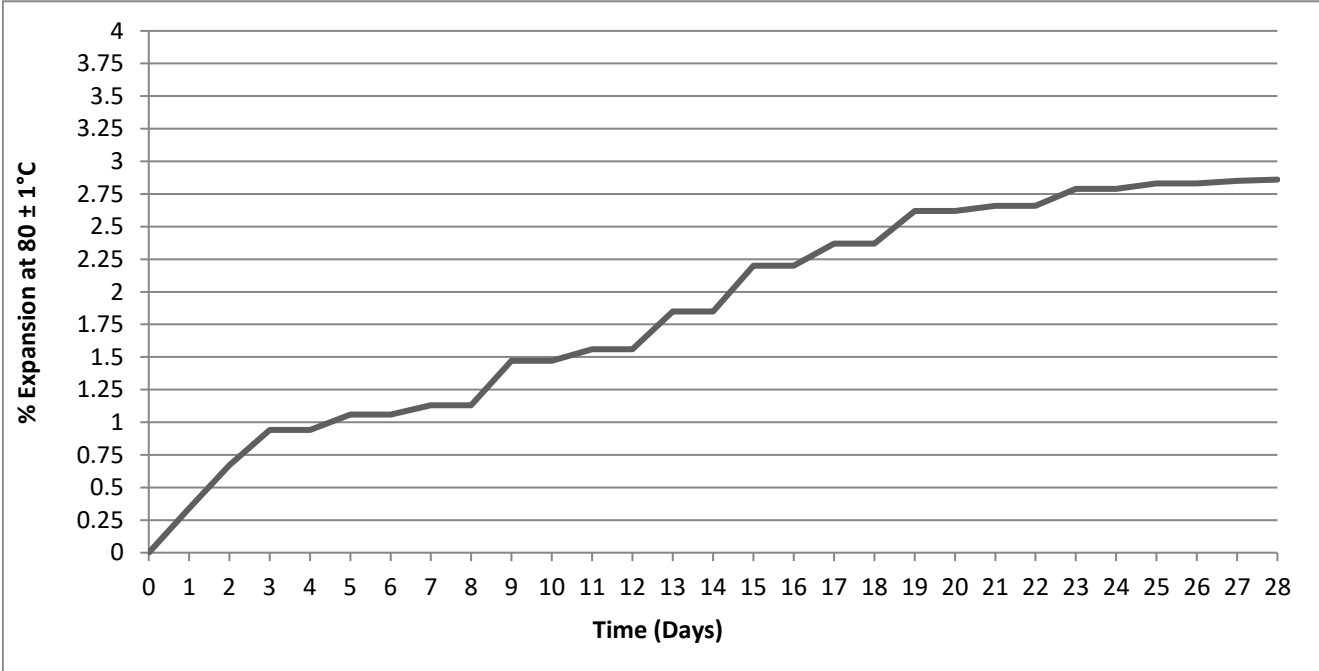
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 26

Report checked and approved by:

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Aggregate Team Coordinator

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Longbridge
Birmingham
B31 2UQ

Date: 11 February 2021
Test Report Ref: TR 777518

Page 1 of 1

LABORATORY TEST REPORT

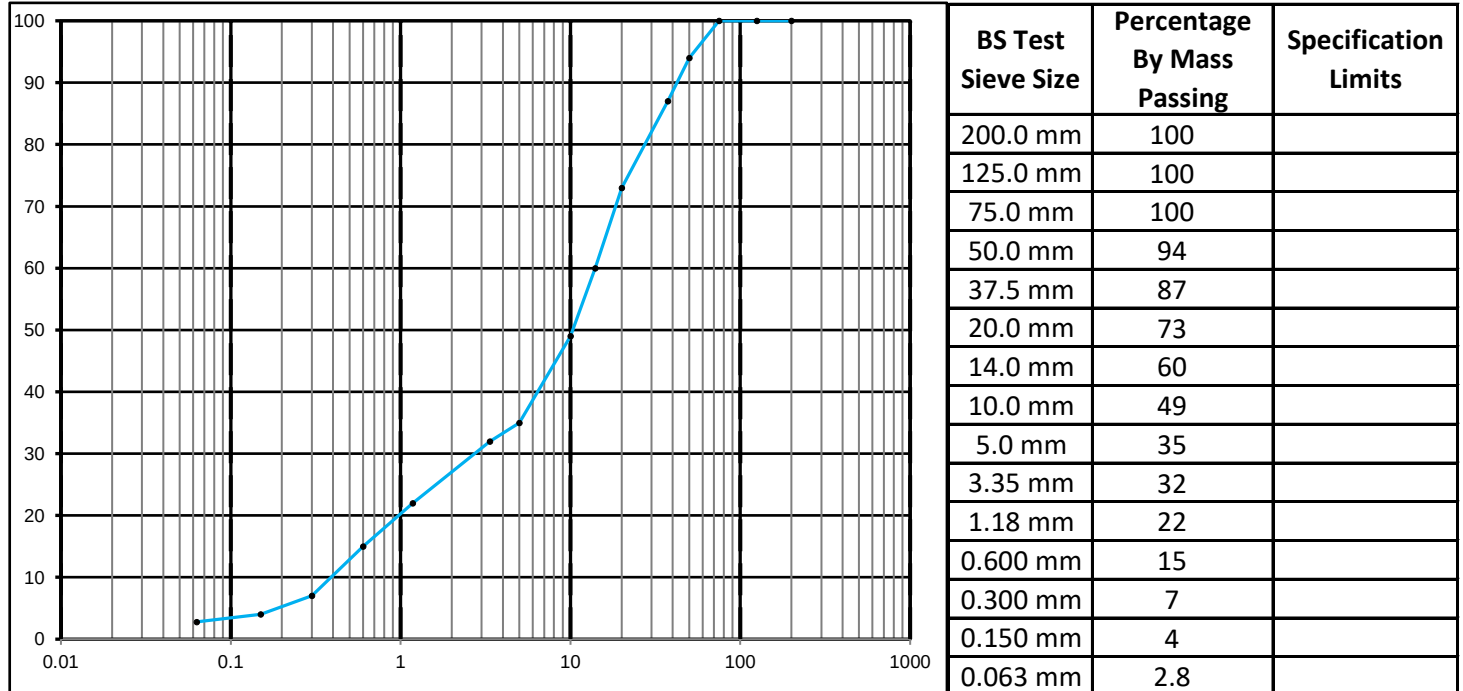
TEST REQUIREMENTS:

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

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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

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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:

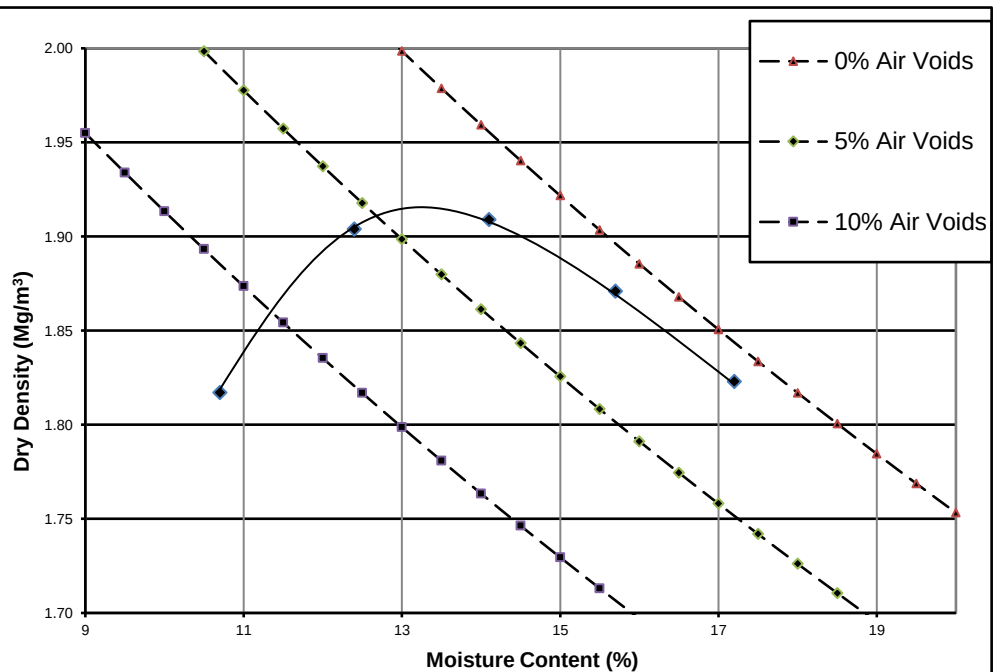
No
S92460
AN14-1
Unknown
14/01/2021
04/02/2021
Unknown
Soil

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

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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

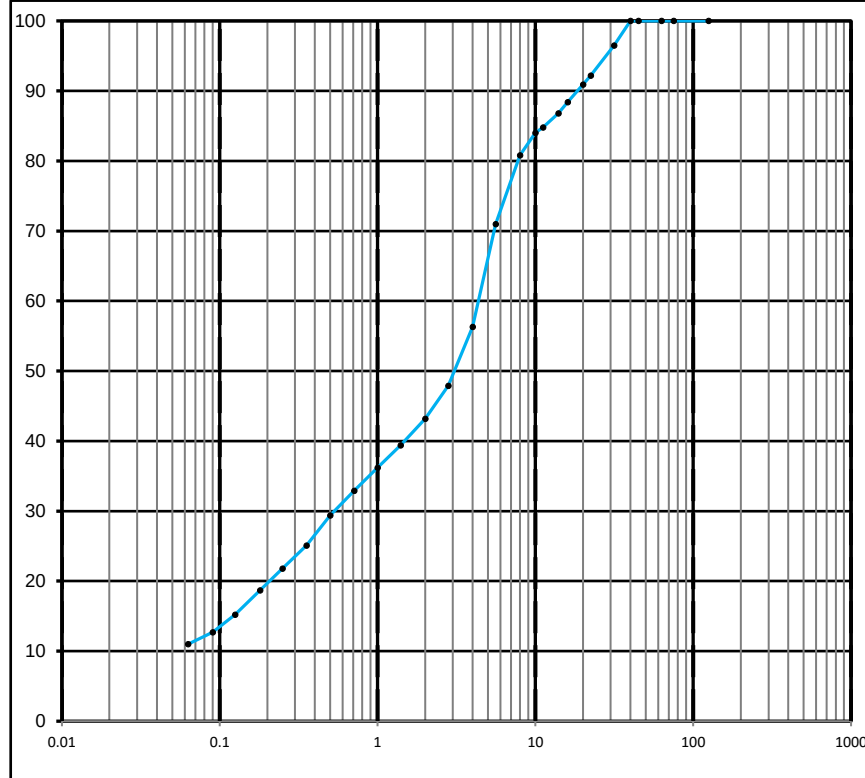
TEST REQUIREMENTS:

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:

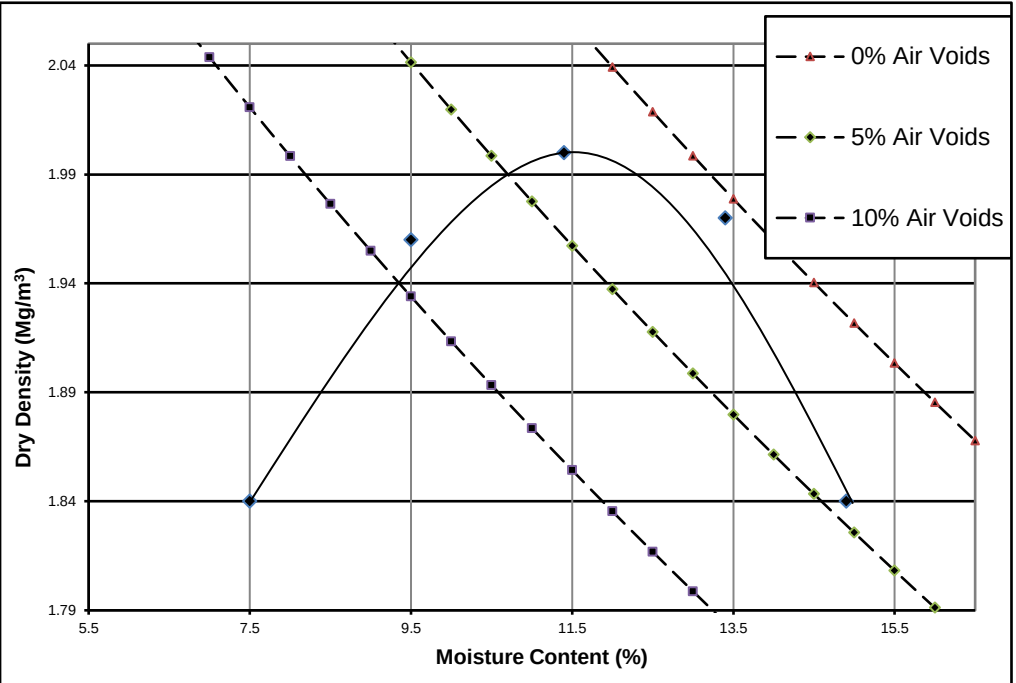
No
S112528
AN2-1 @ 1.70M
05/06/2023
25/07/2023
24/11/2023
AN2-1 @ 1.70M
Granular - 40mm Down

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

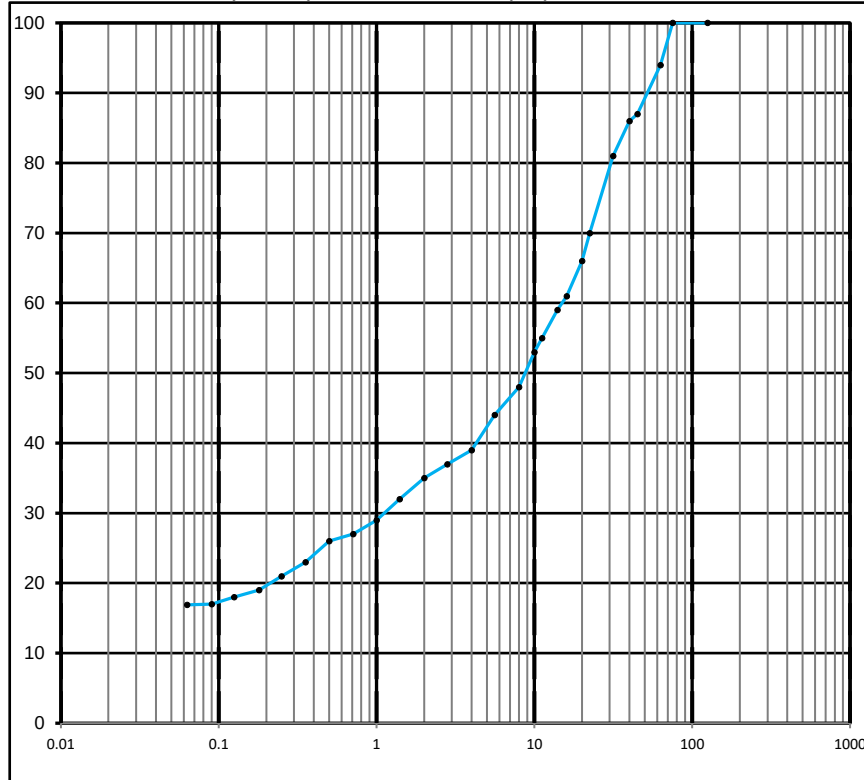
TEST REQUIREMENTS:

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:

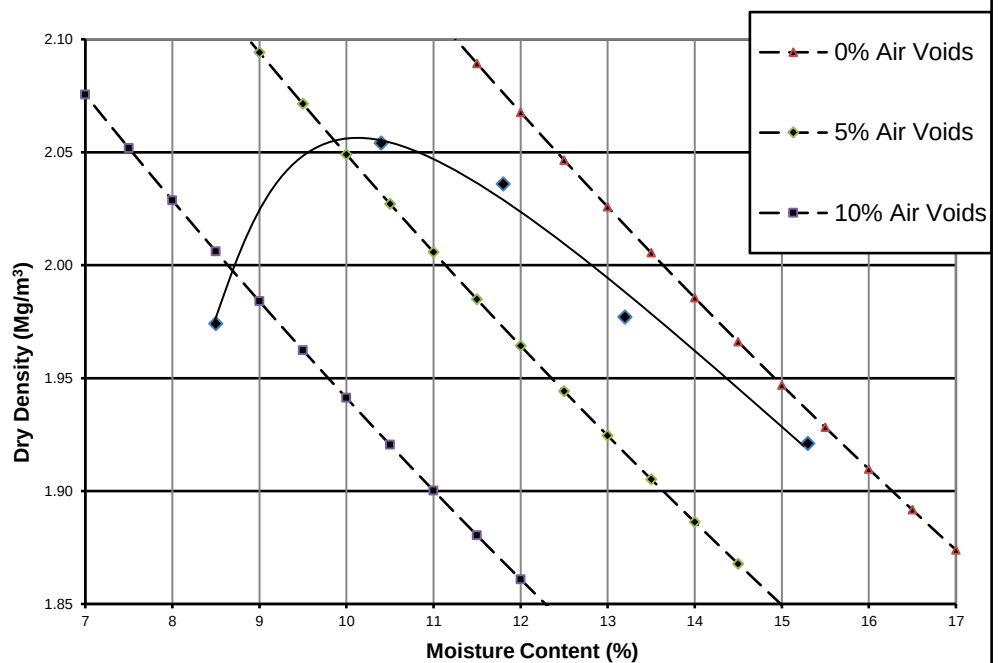
No
S93086
AN6-1 - 0.3m
22/01/2021
12/02/2021
16/04/2021
Unknown
Granular - 40mm Down

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

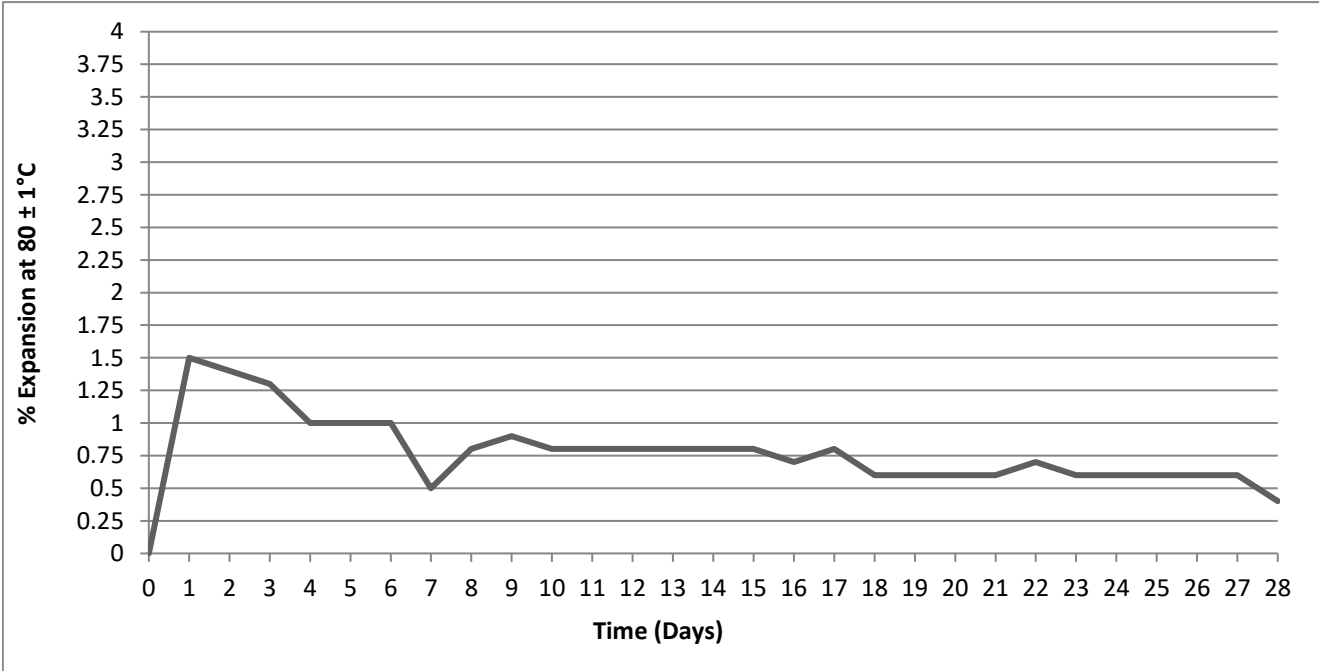
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

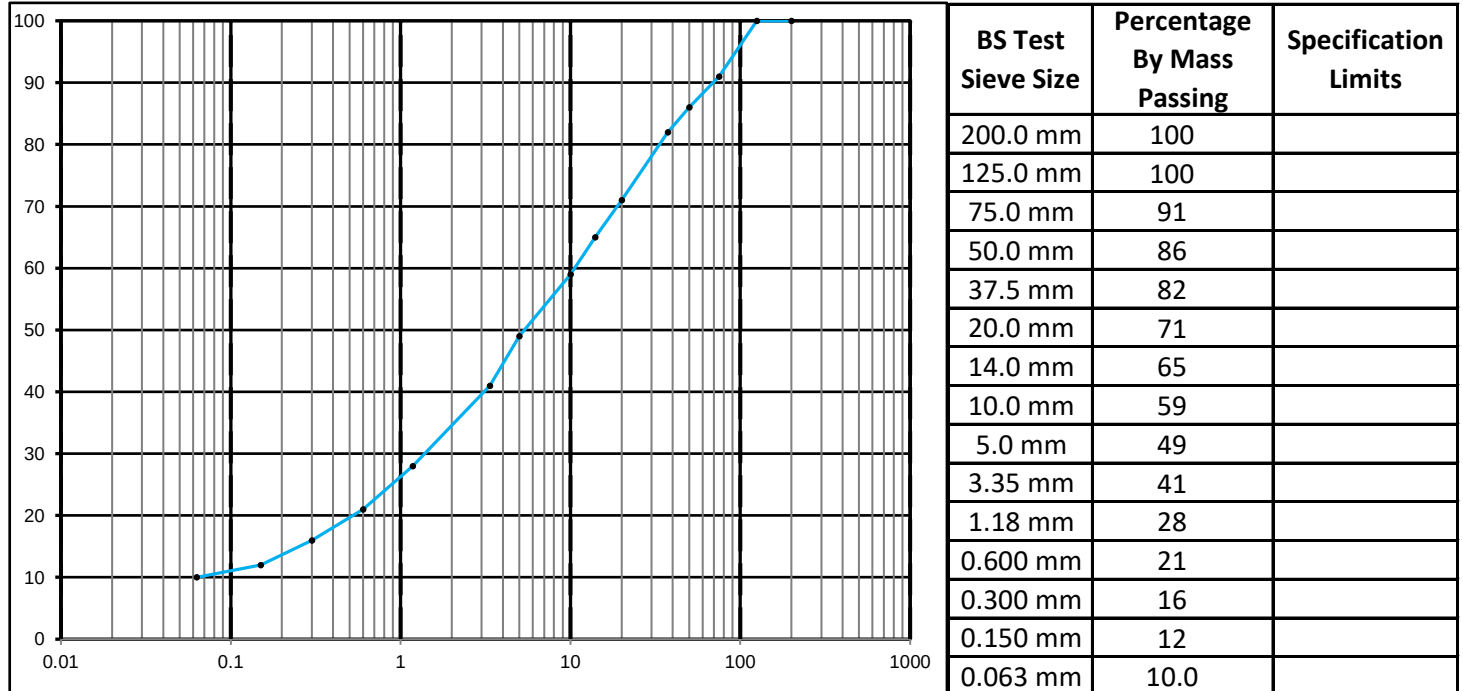
TEST REQUIREMENTS:

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:

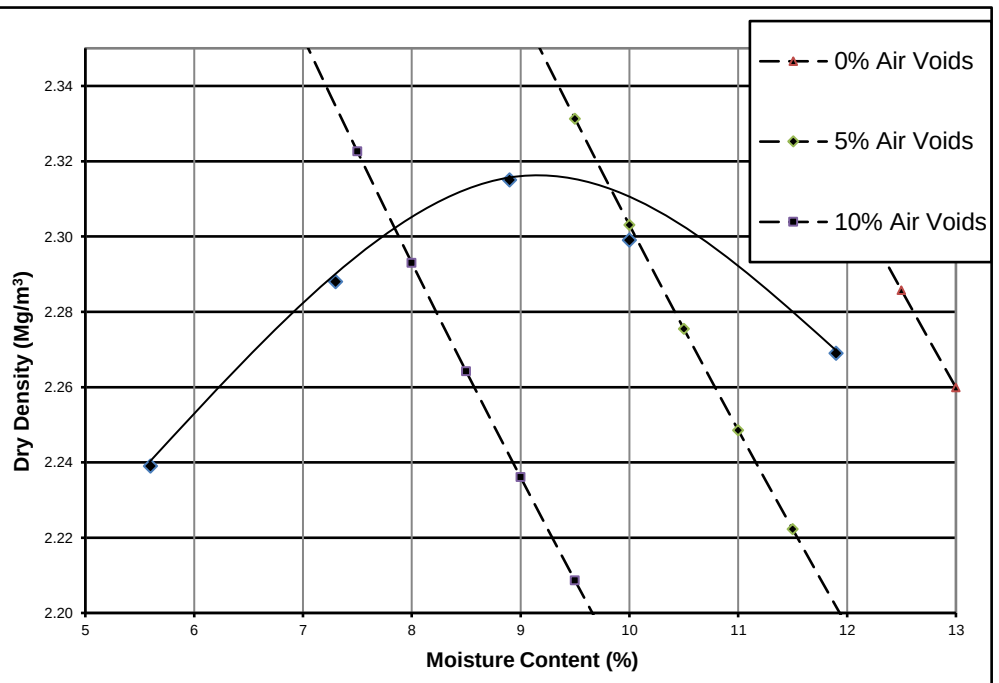
No
S92292
AO1-1
17/12/2020
05/01/2021
20/01/2021
Unknown
Soil

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

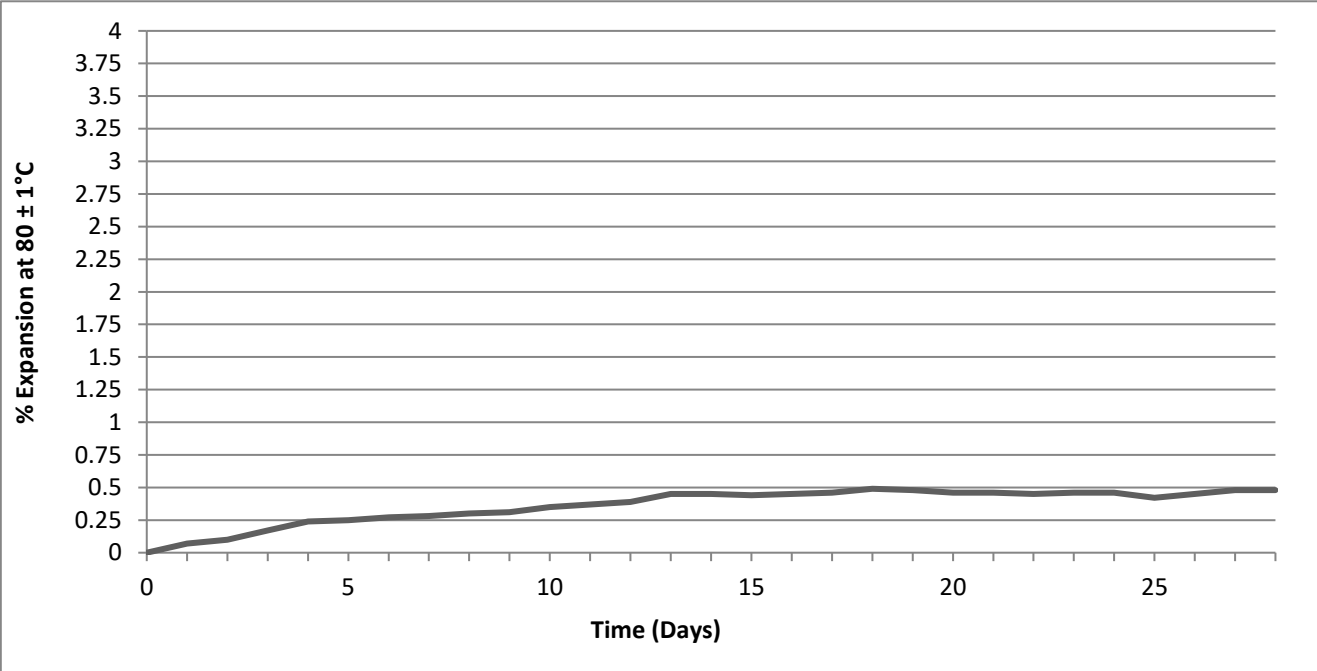
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

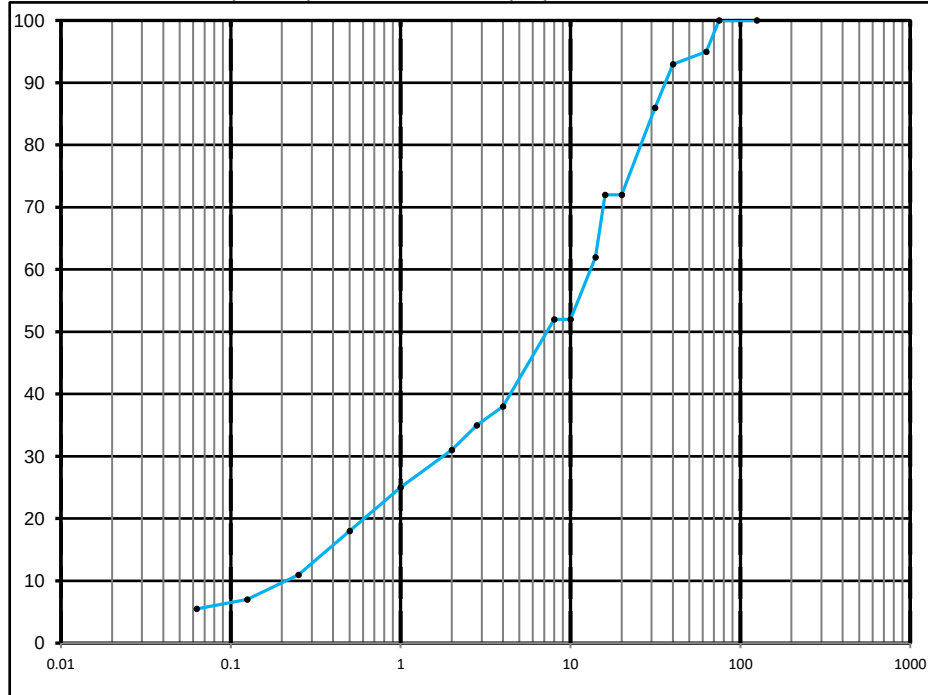
TEST REQUIREMENTS:

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.

<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: 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:

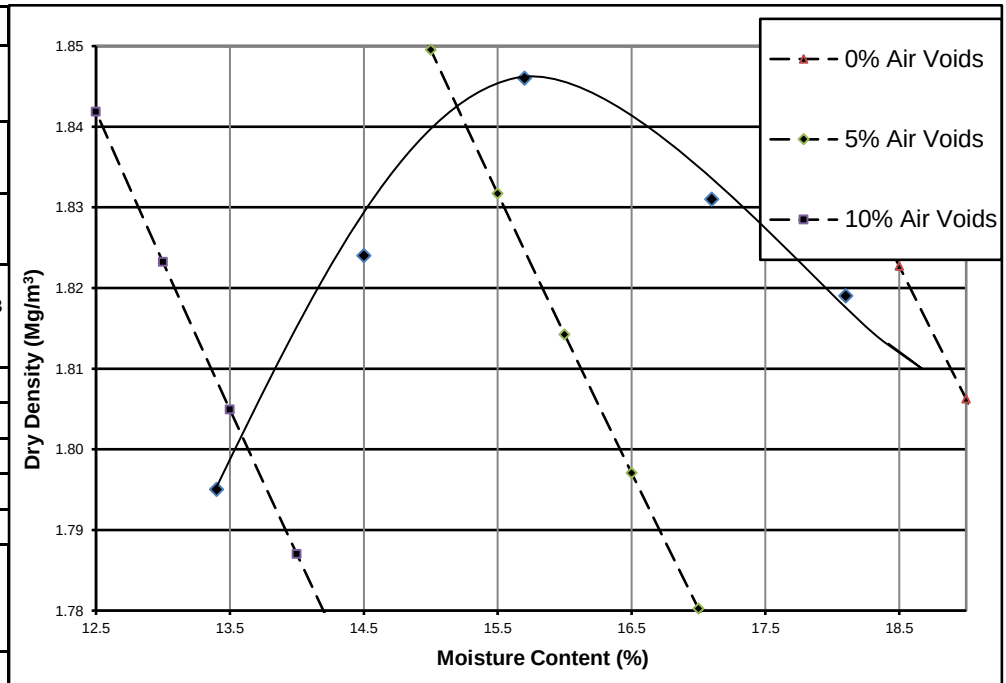
No **S92900**
AO12-1
Unknown
04/02/2021
06/04/2021
Unknown
Granular - 40mm Down

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

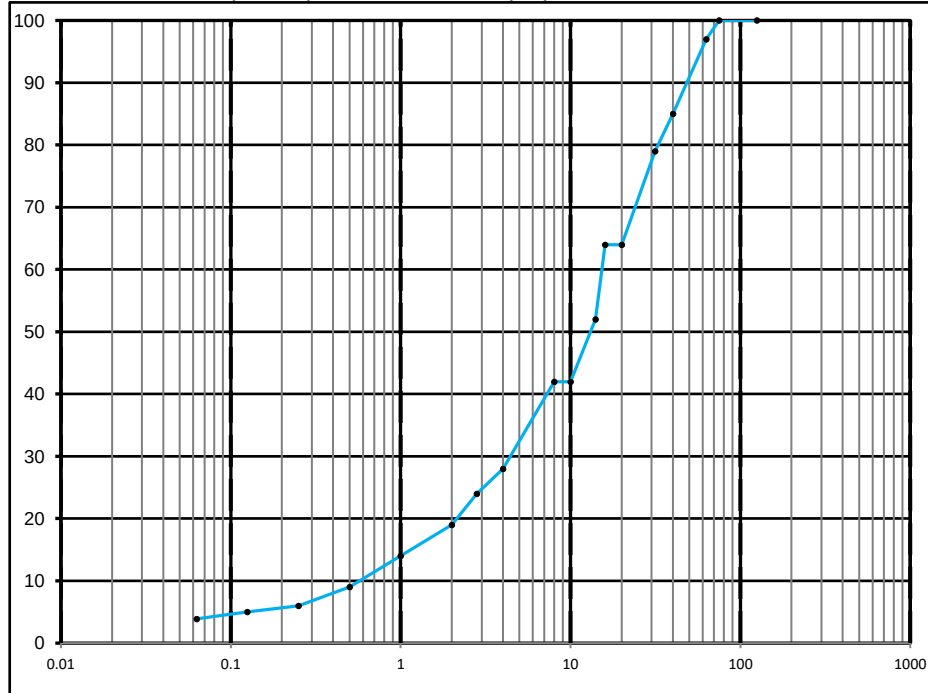
TEST REQUIREMENTS:

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:

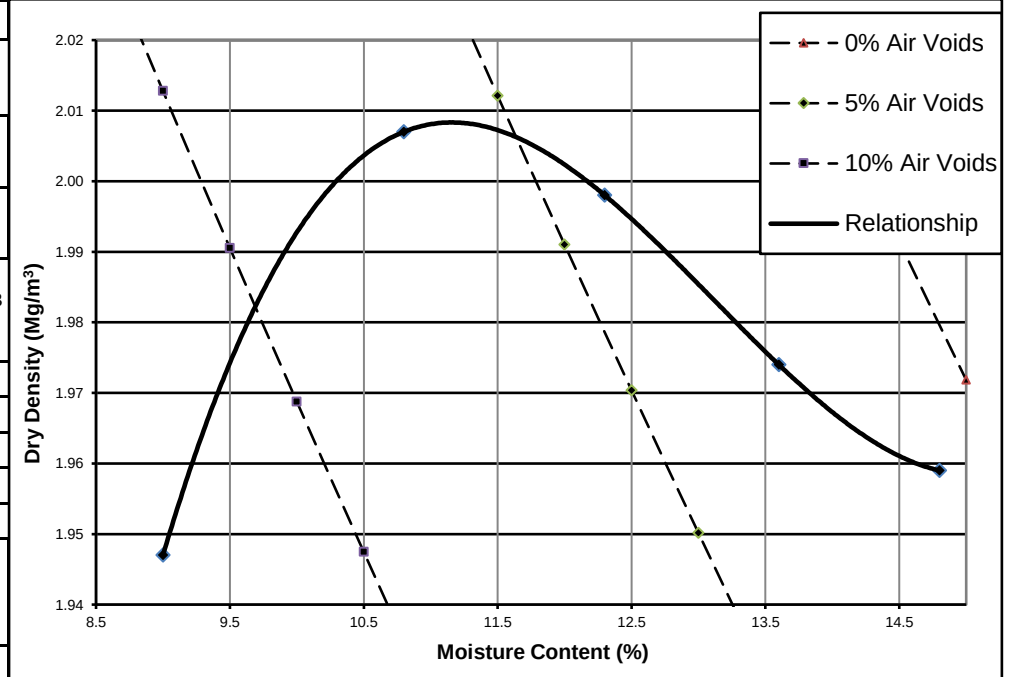
No **S92900**
AO13-1
Unknown
04/02/2021
16/03/2021
Unknown
Granular - 40mm Down

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

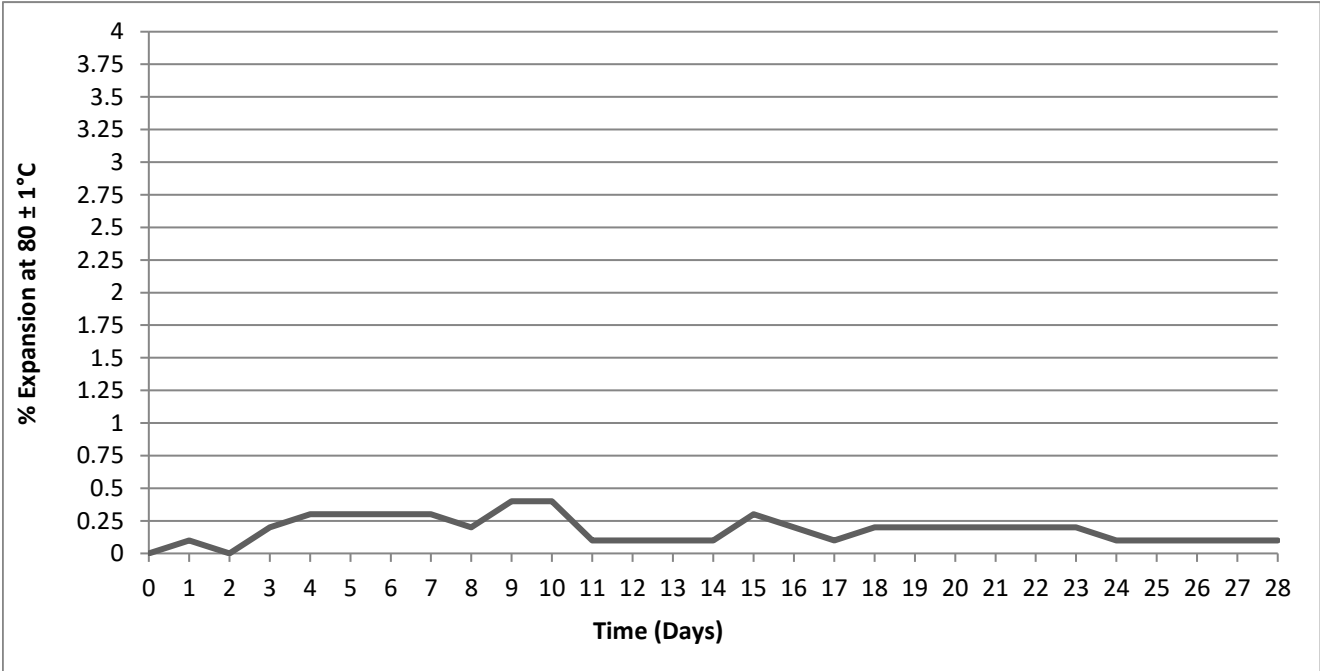
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

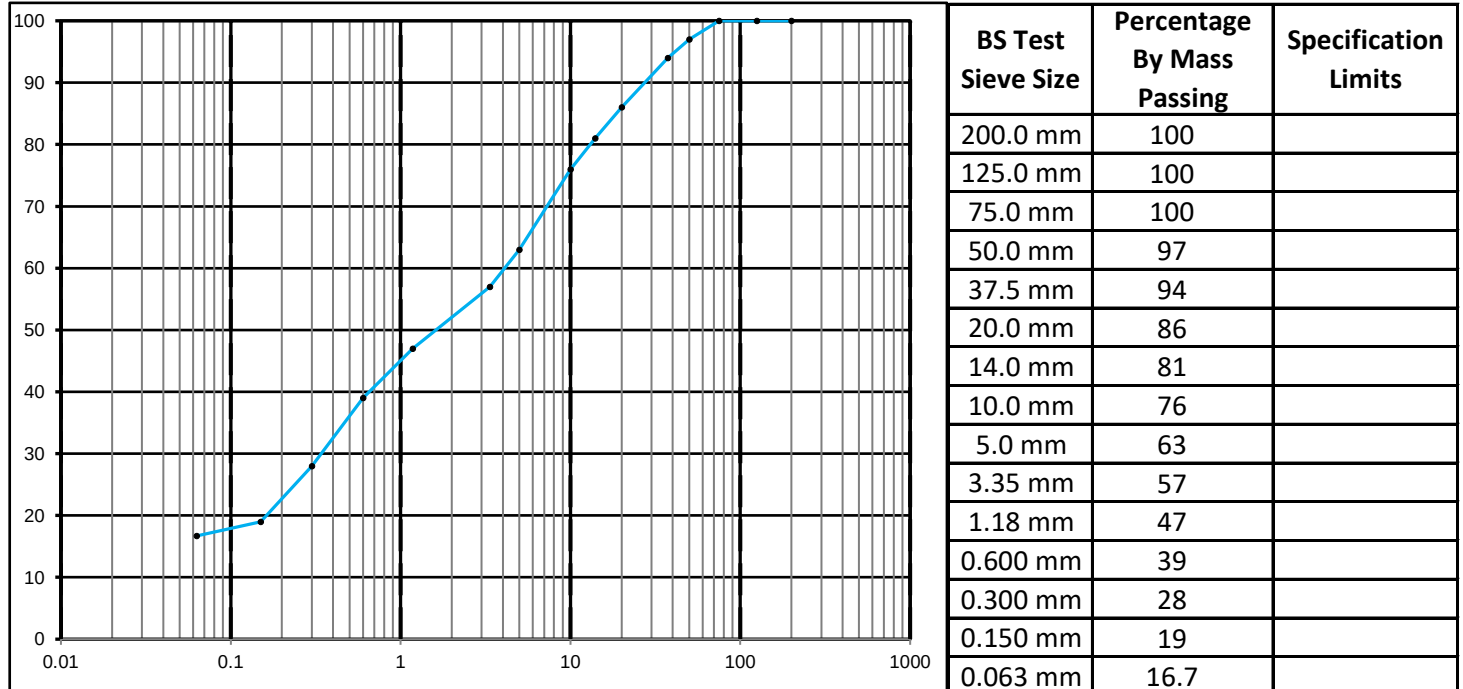
TEST REQUIREMENTS:

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:

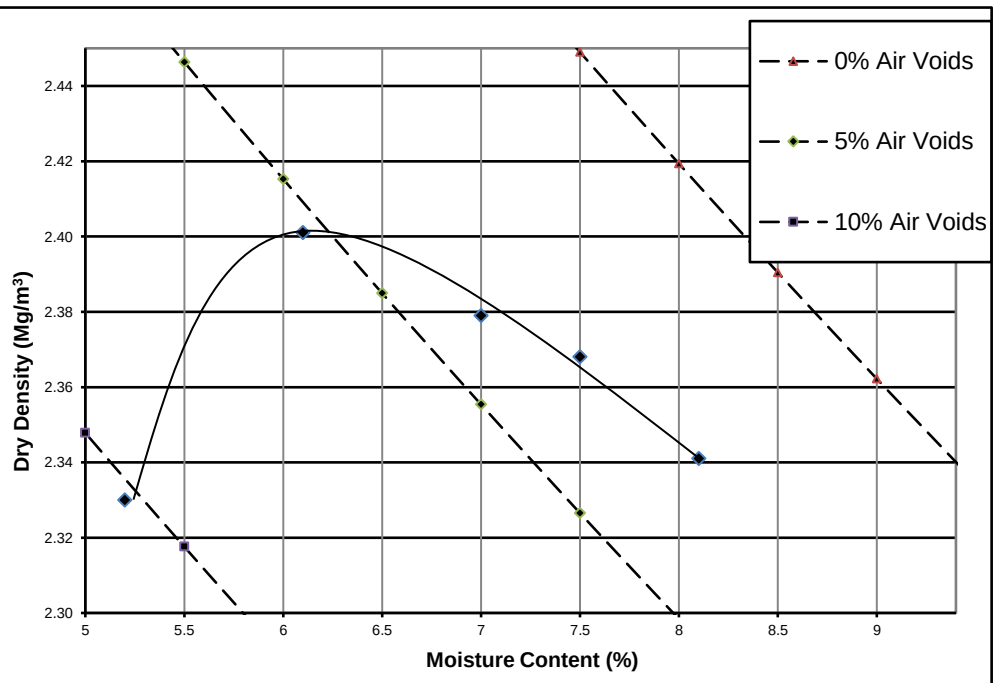
No
S92292
AP1-1
17/12/2020
05/01/2021
22/01/2021
Unknown
Soil

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

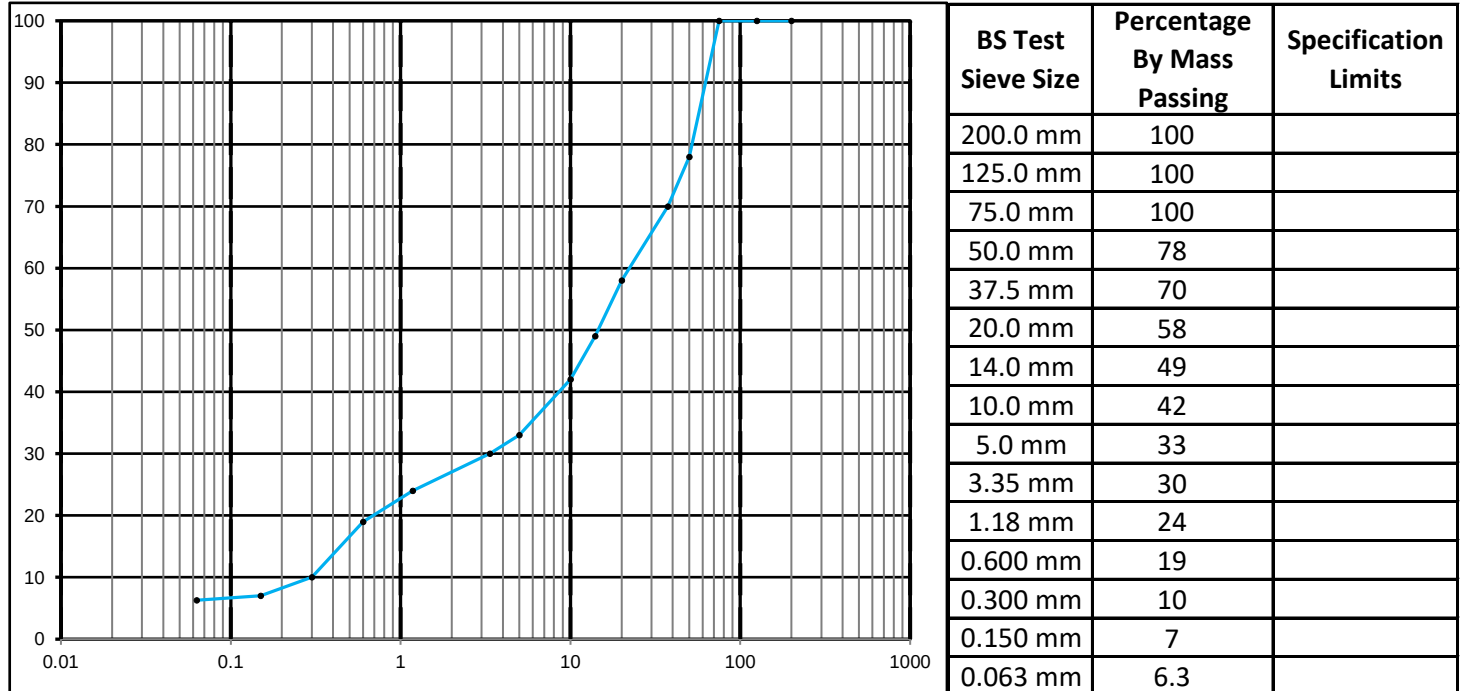
TEST REQUIREMENTS:

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:

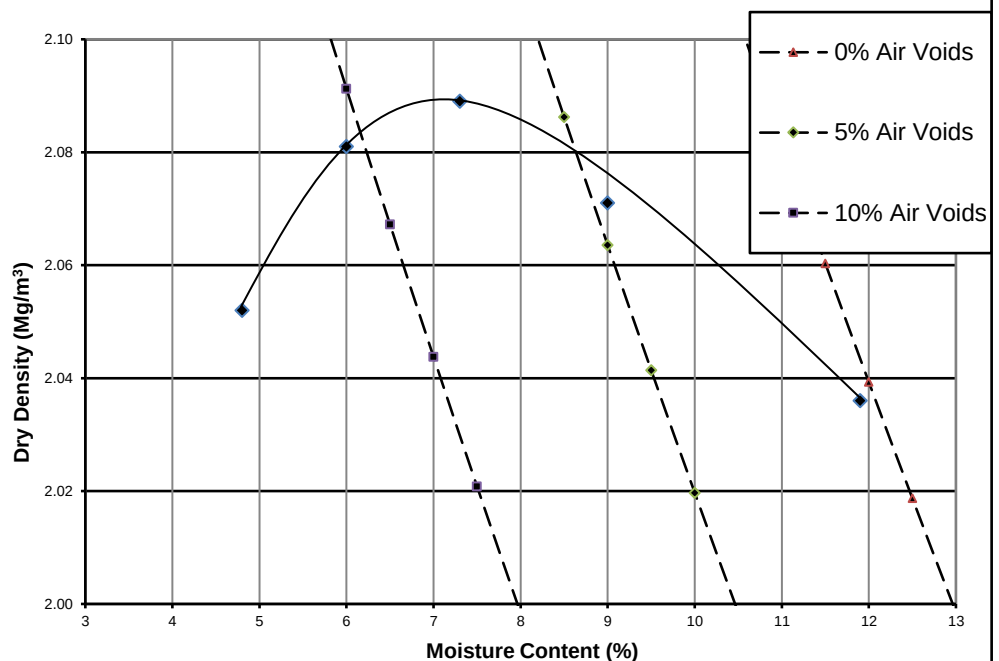
No
S92460
AP10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

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.

Comments:

None

Report checked 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

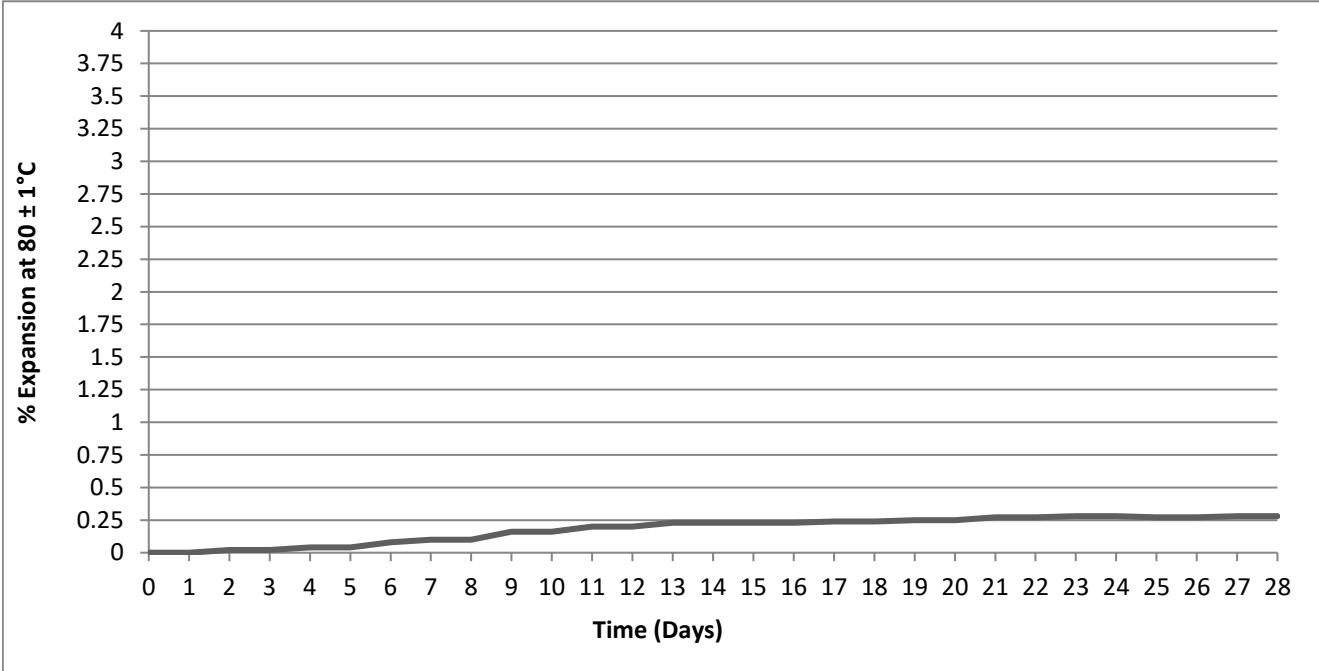
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

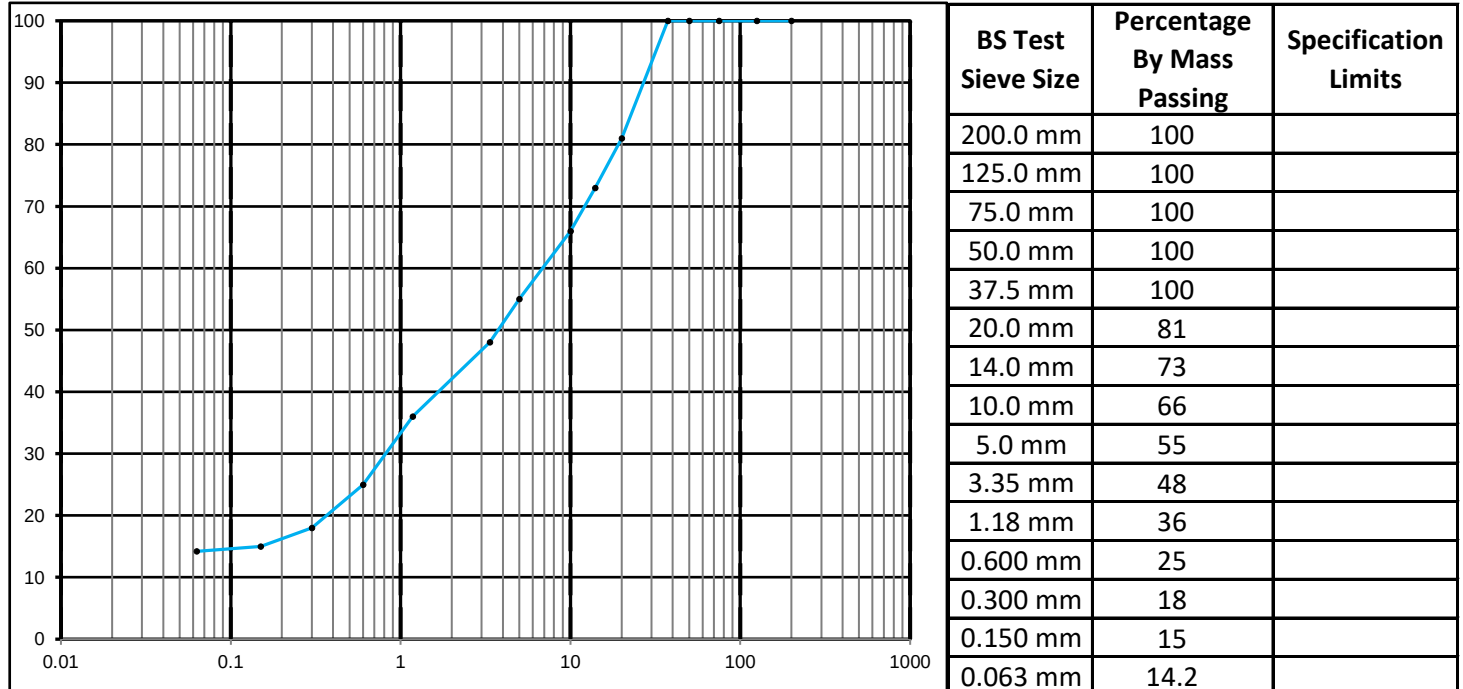
TEST REQUIREMENTS:

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

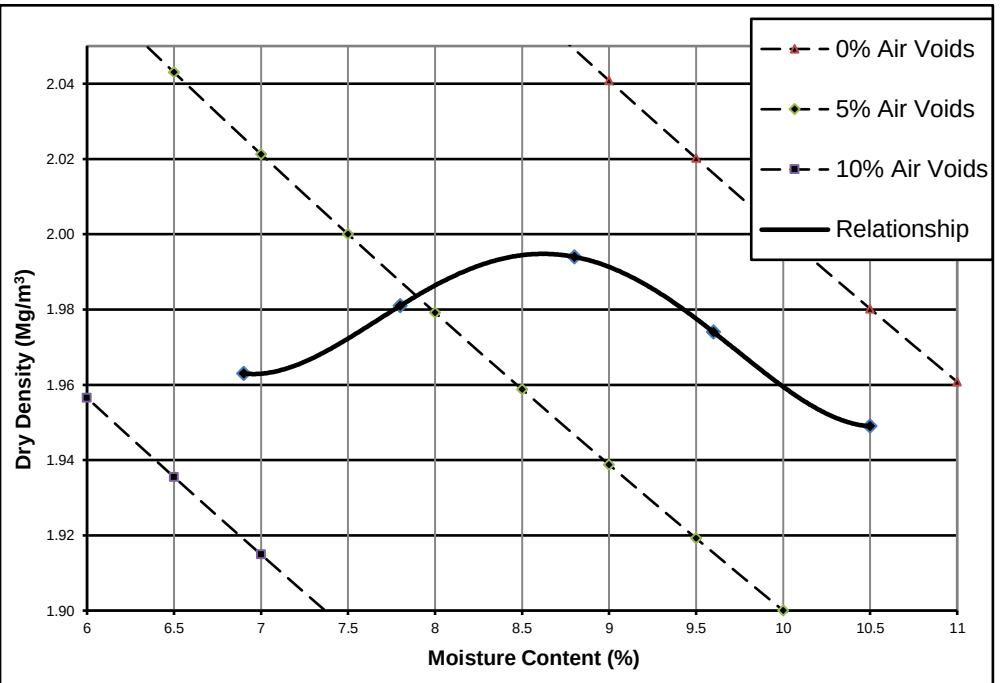
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **IJ**
Sample Preparation Procedure:
Sample Preparation Method:

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

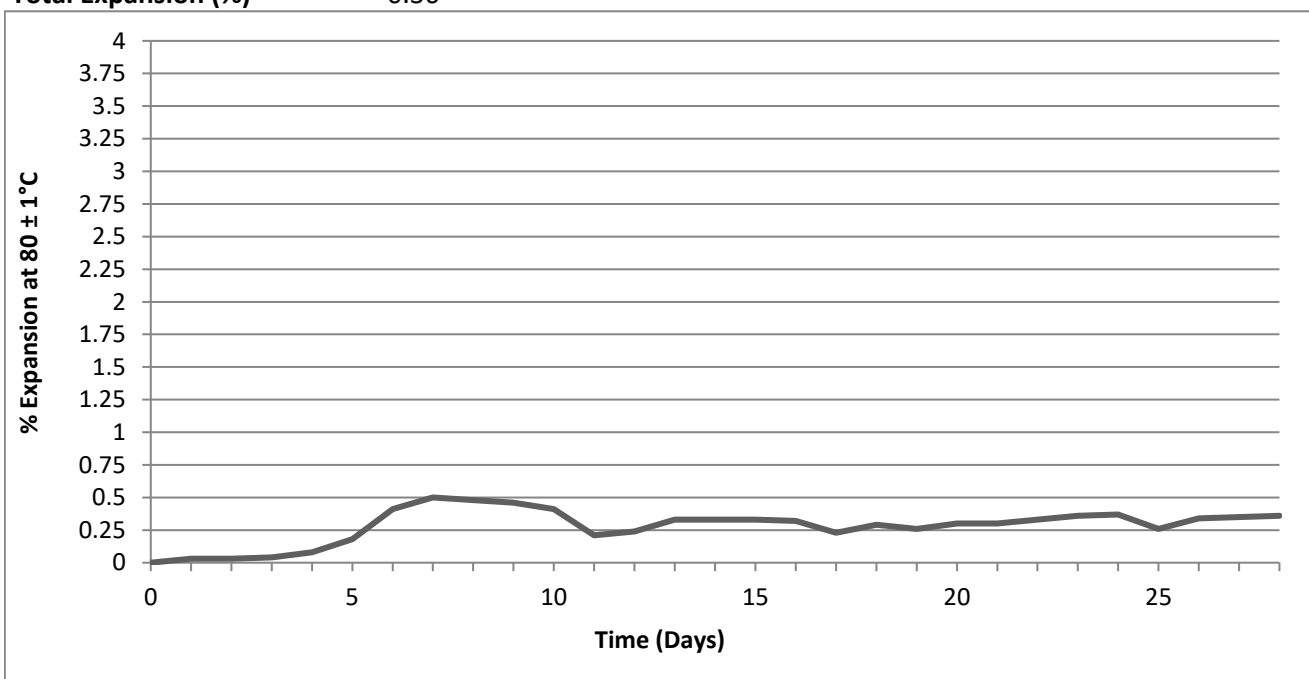
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

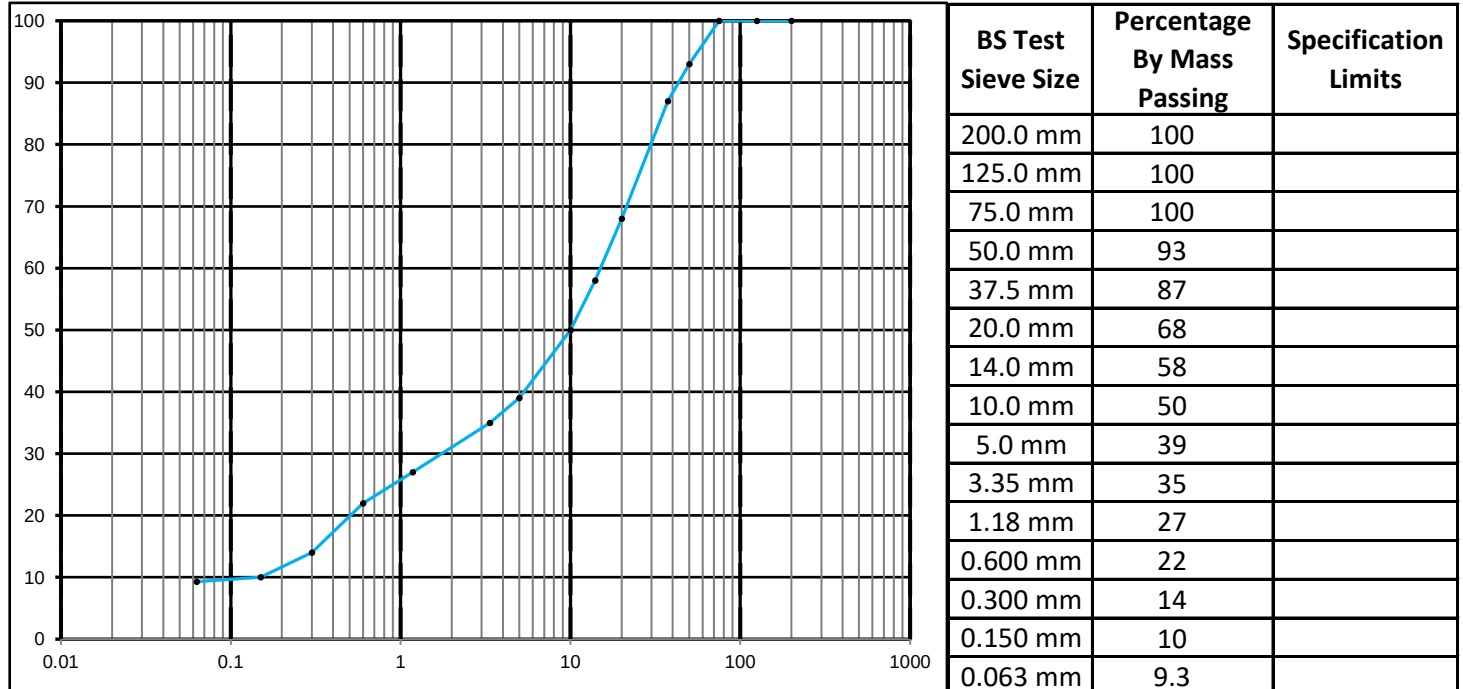
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked 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.

Comments:

None

Report checked 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 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:

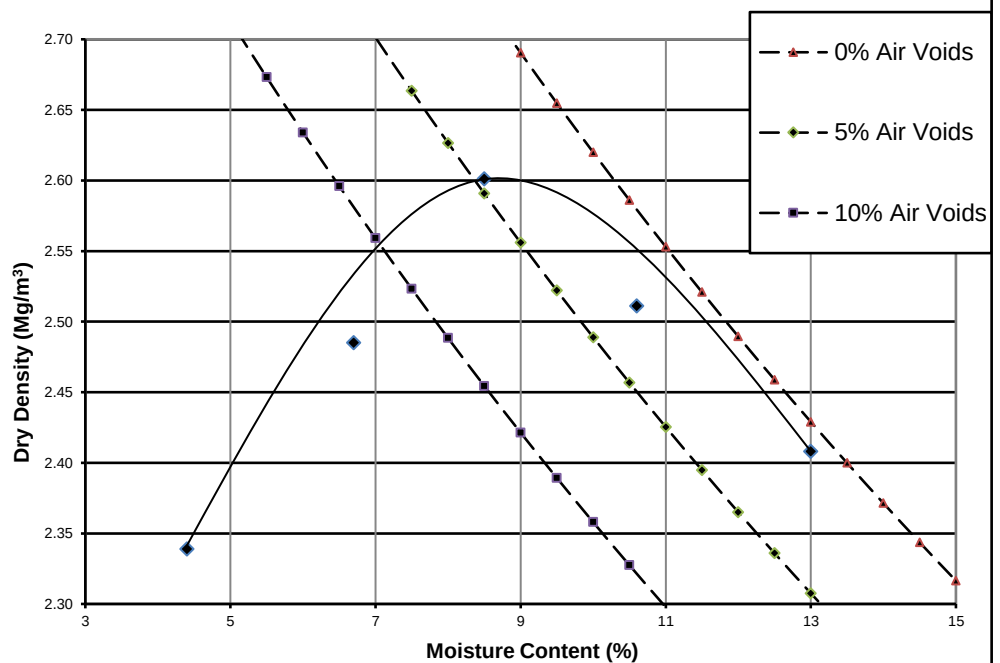
No
S92460
AQ10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

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.

<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 777409

Page 1 of 1

LABORATORY TEST REPORT

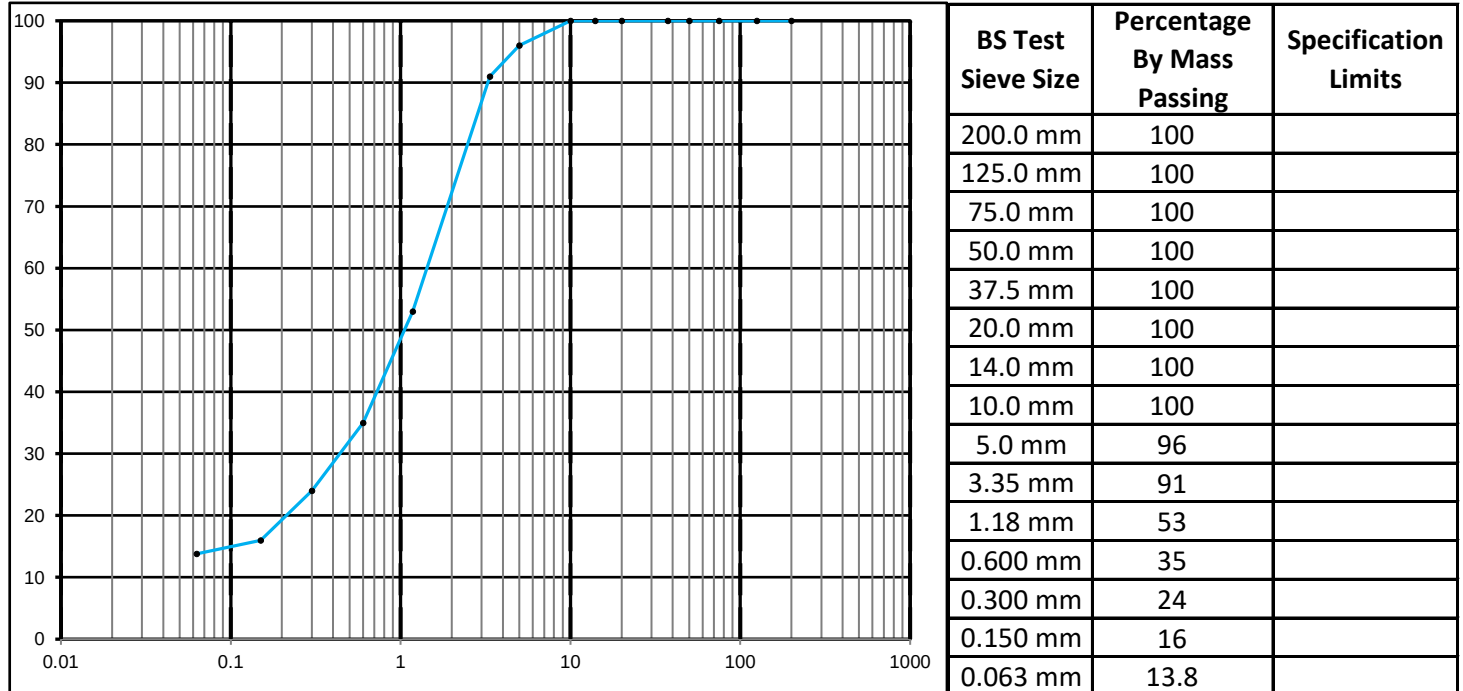
TEST REQUIREMENTS:

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:

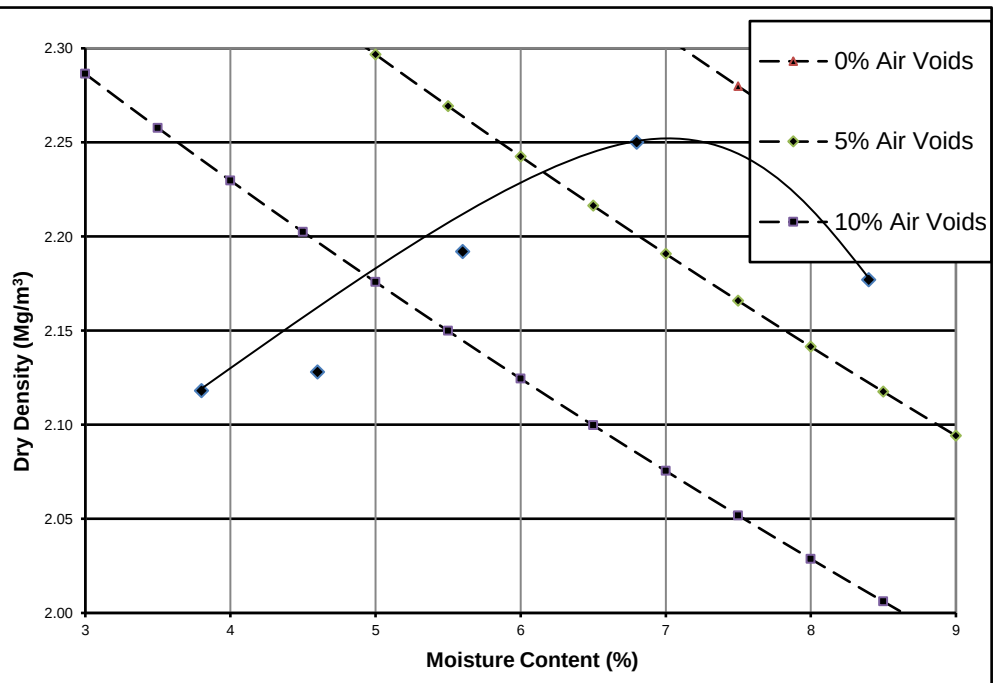
No
S92460
AR10-1
Unknown
14/01/2021
08/02/2021
Unknown
Soil

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.

<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 777413

Page 1 of 1

LABORATORY TEST REPORT

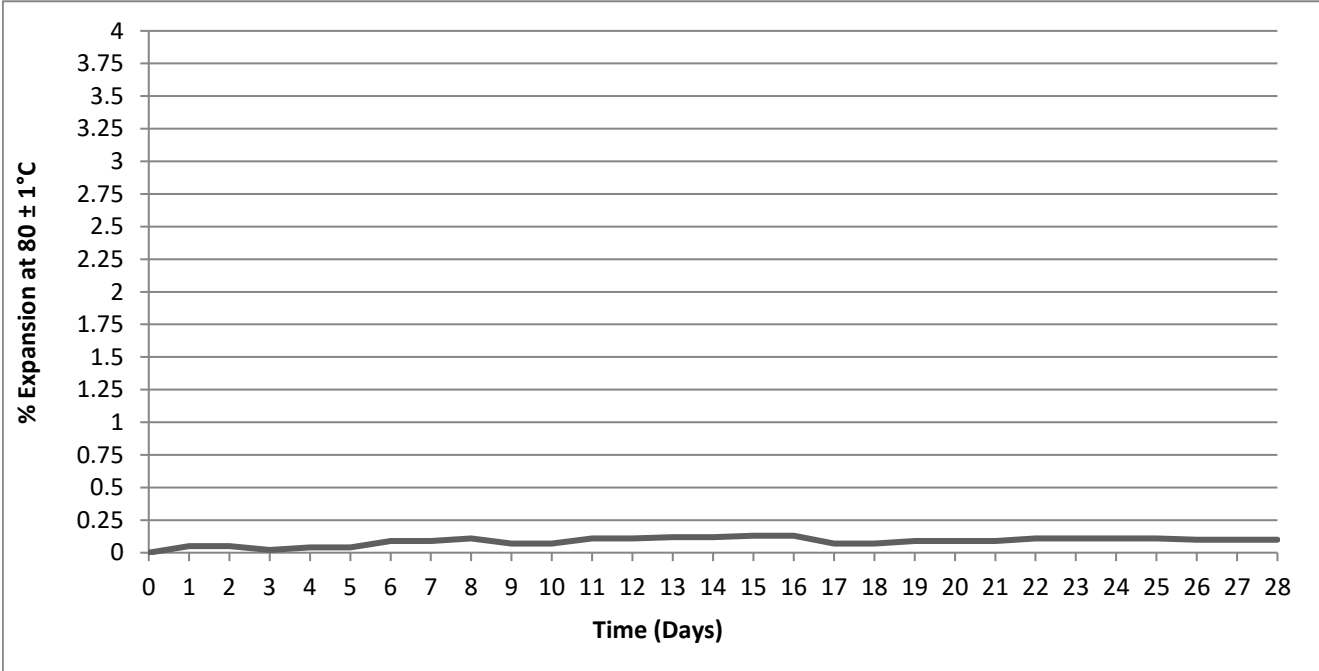
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

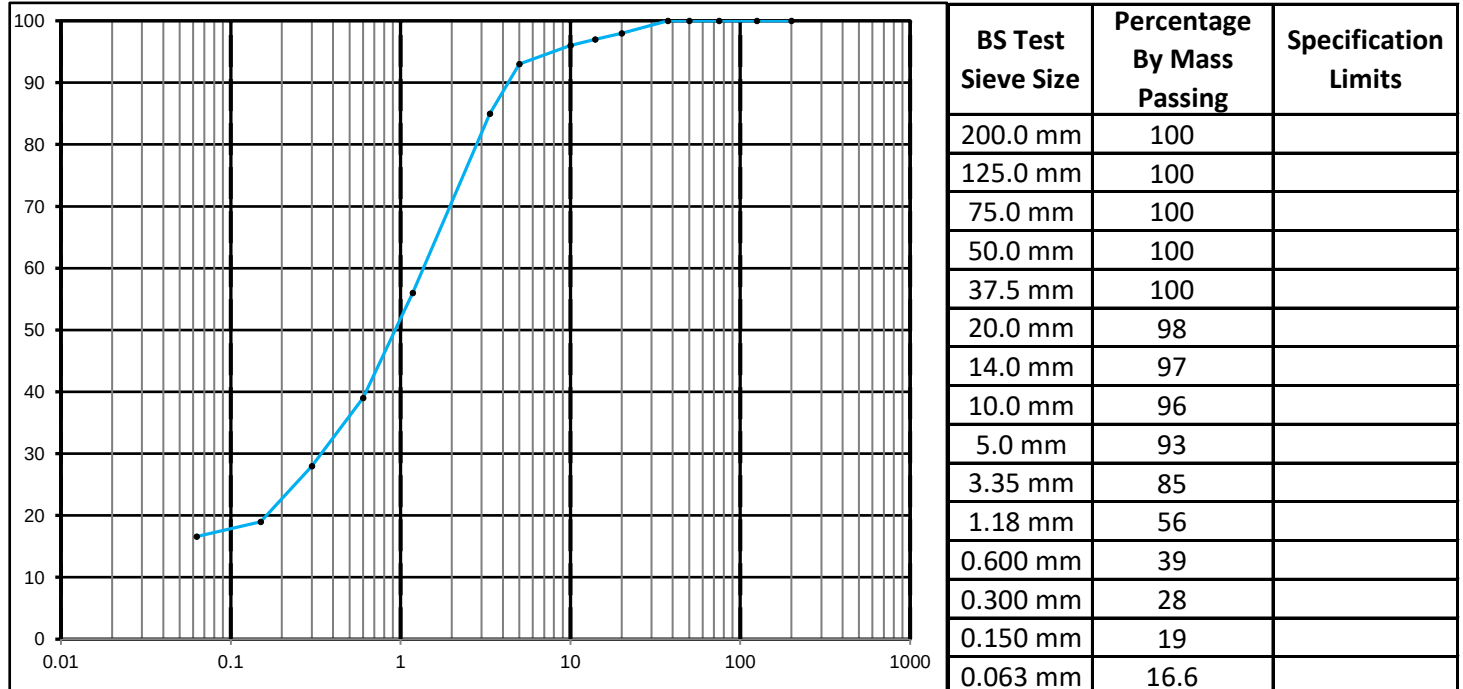
TEST REQUIREMENTS:

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:

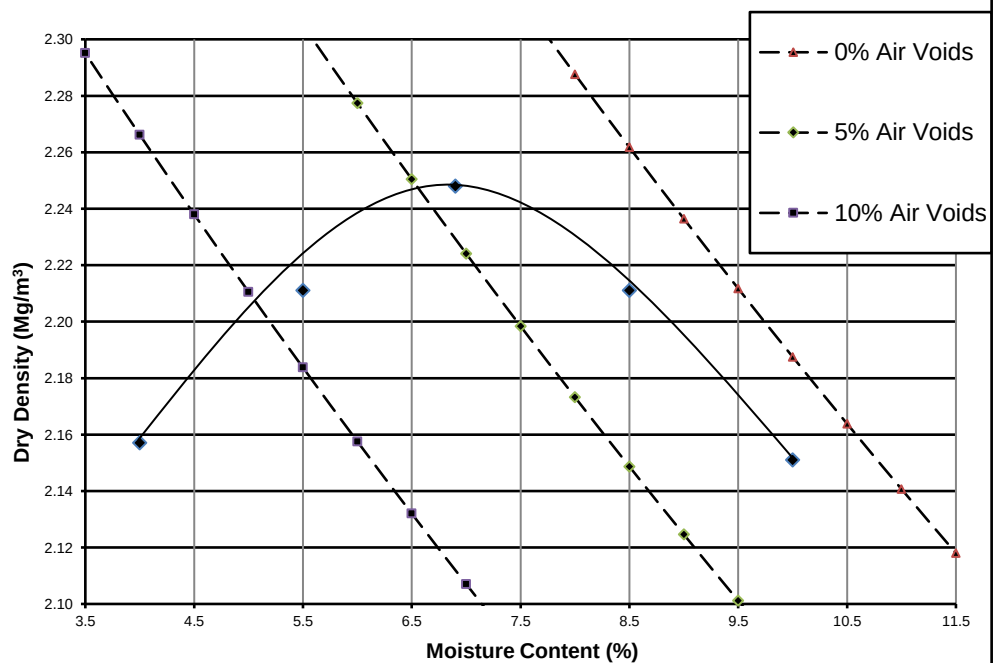
No
S92460
AR11-1
Unknown
14/01/2021
03/02/2021
Unknown
Soil

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

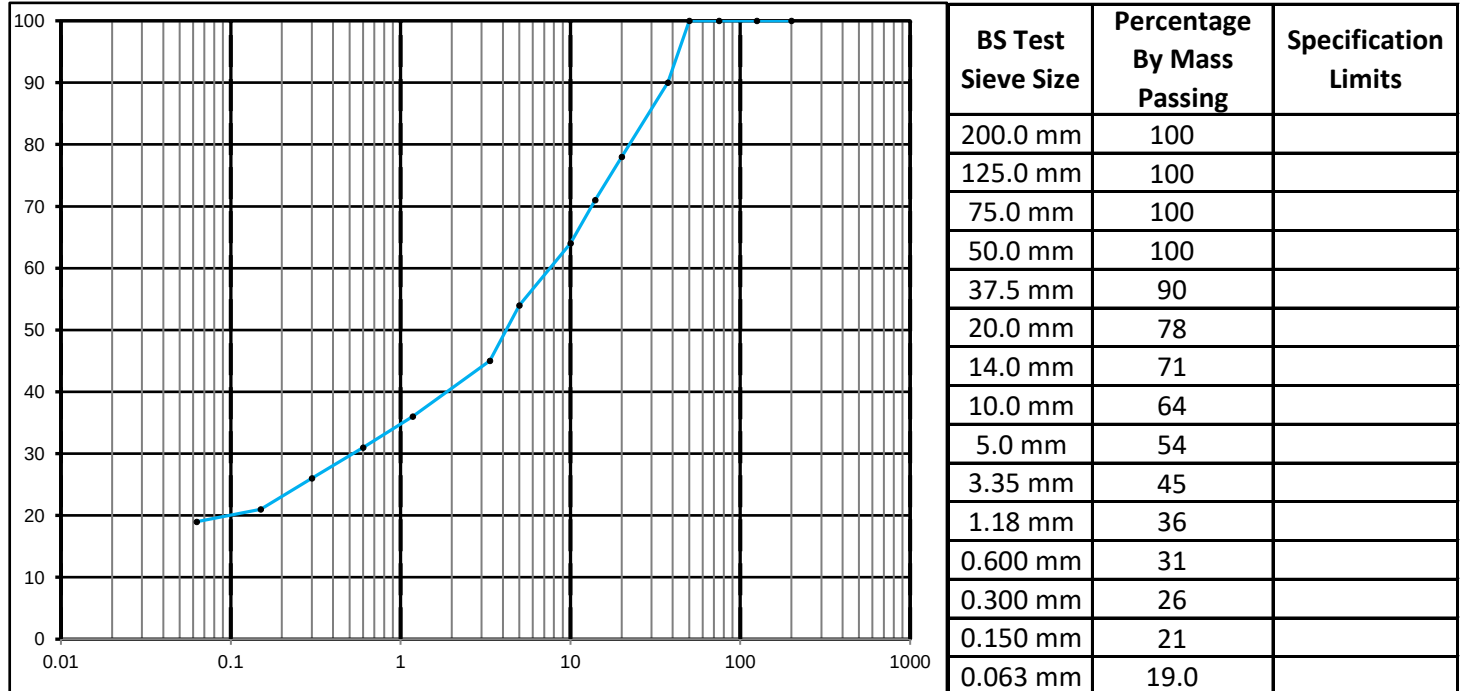
TEST REQUIREMENTS:

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

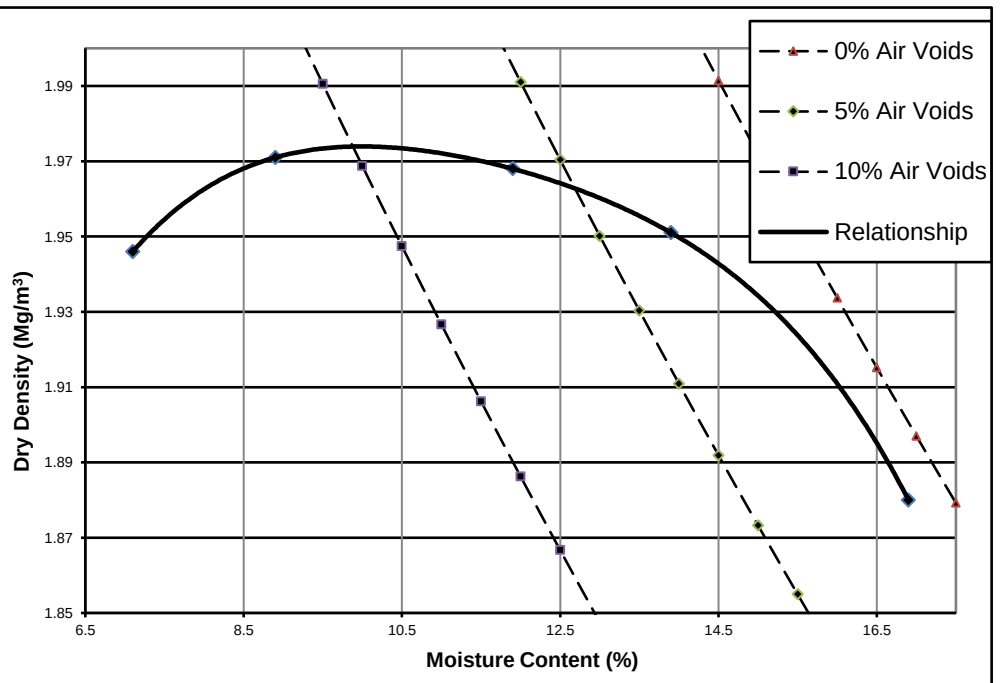
Name of Source: **Unknown**
Method of Sampling: **Unknown**
Sampled By: **Client**
Tested By: **AO**
Sample Preparation Procedure:
Sample Preparation Method:

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

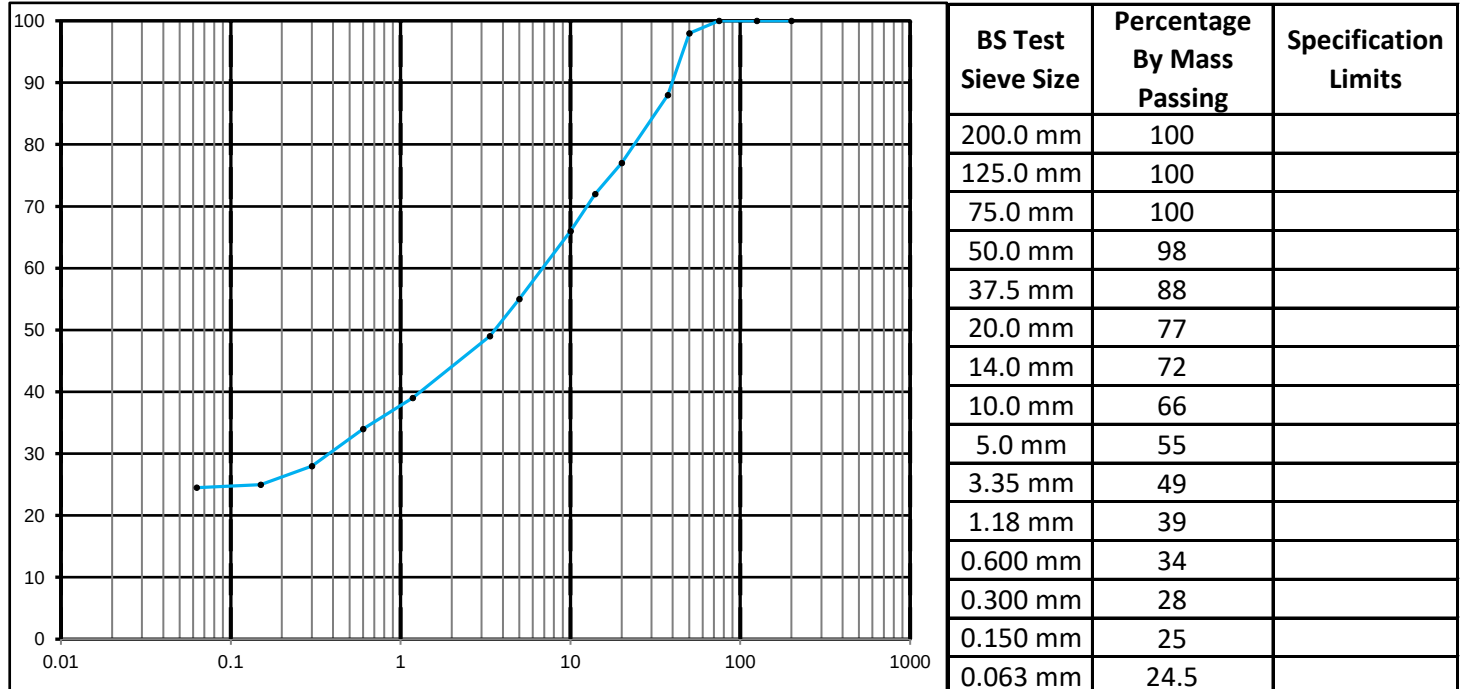
TEST REQUIREMENTS:

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:

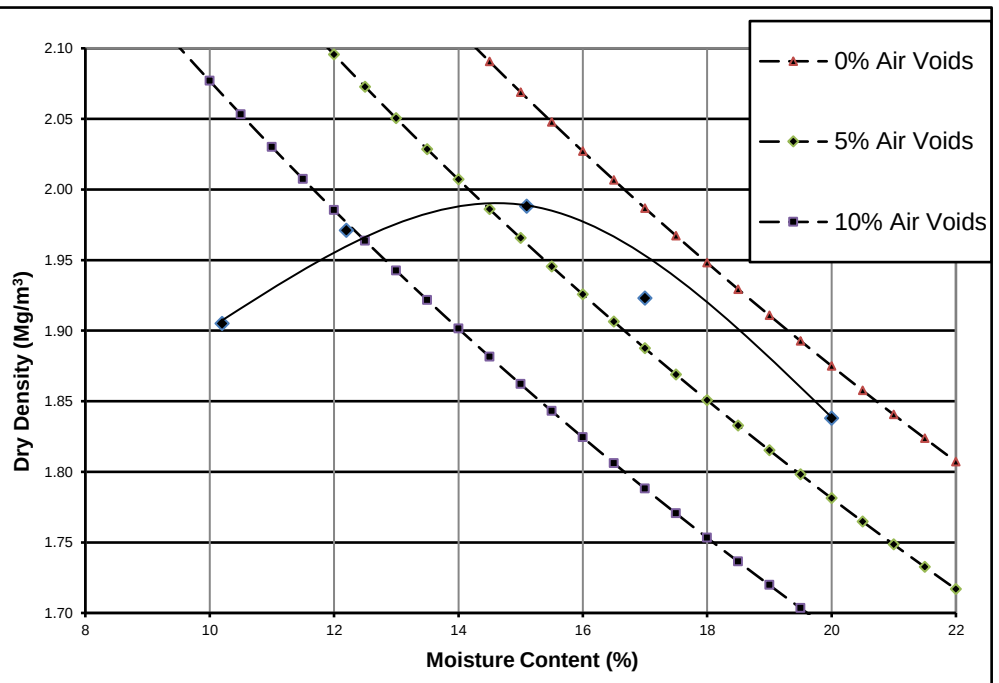
No
S92292
AS3-1
17/12/2020
05/01/2021
27/01/2021
Unknown
Soil

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

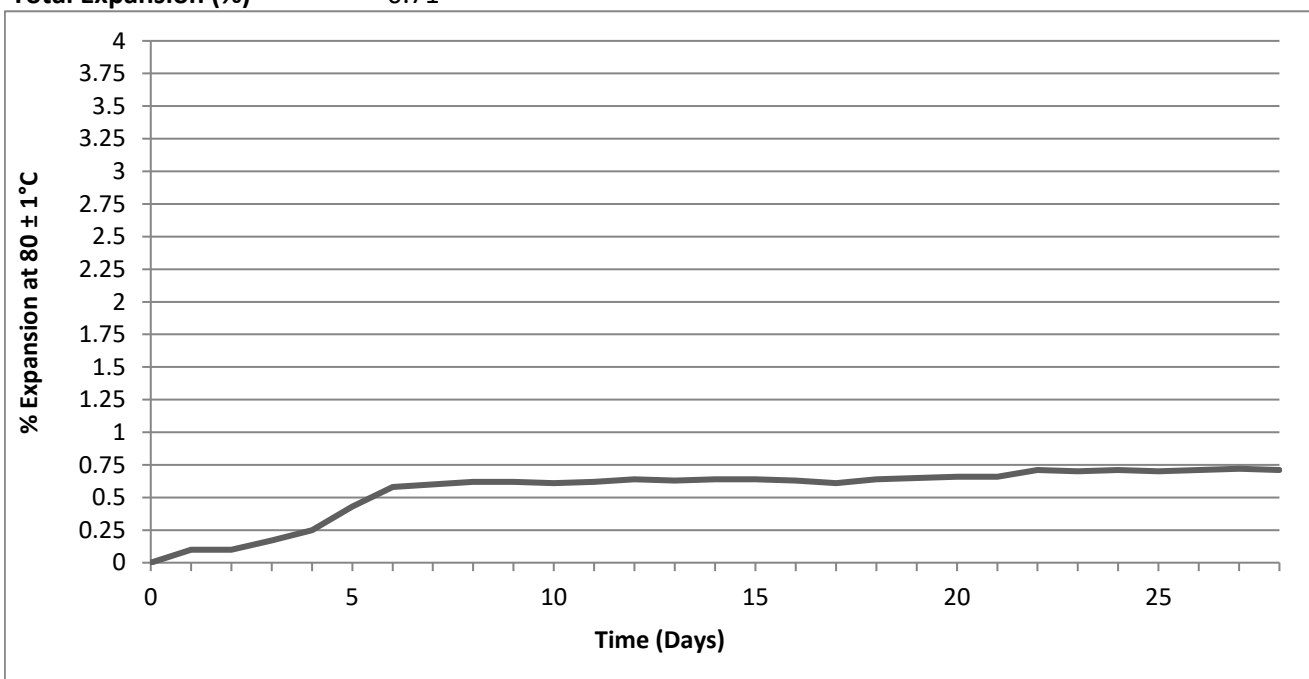
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

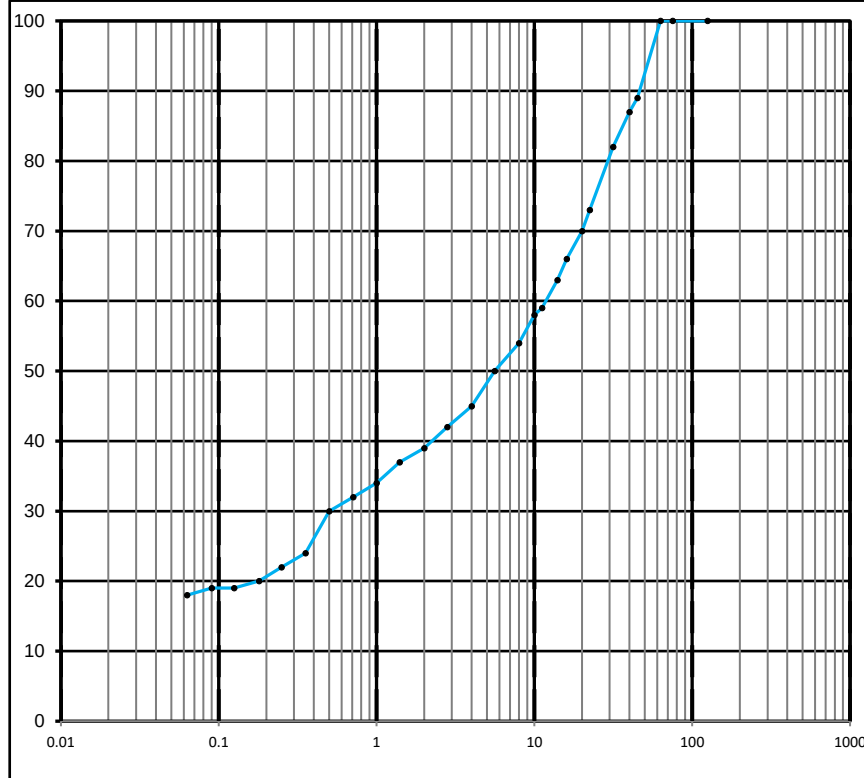
TEST REQUIREMENTS:

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:

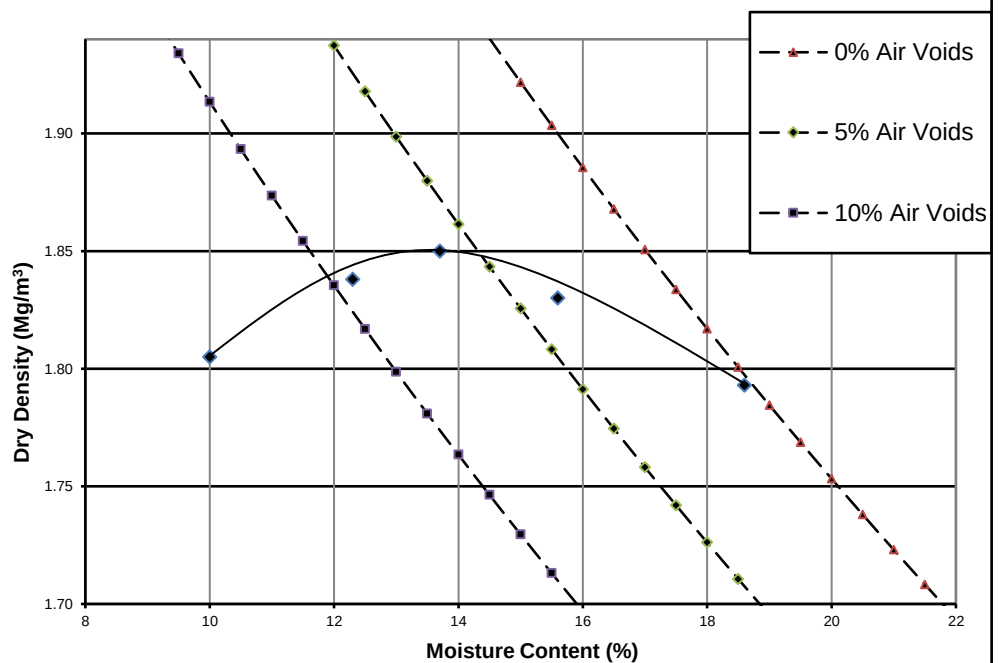
No
S93086
AS5-1 - 0.2m
10/02/2021
12/02/2021
12/04/2021
Unknown
Granular - 40mm Down

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/m ³
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.

<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: 05 July 2021
Test Report Ref: TR 784321

Page 1 of 1

LABORATORY TEST REPORT

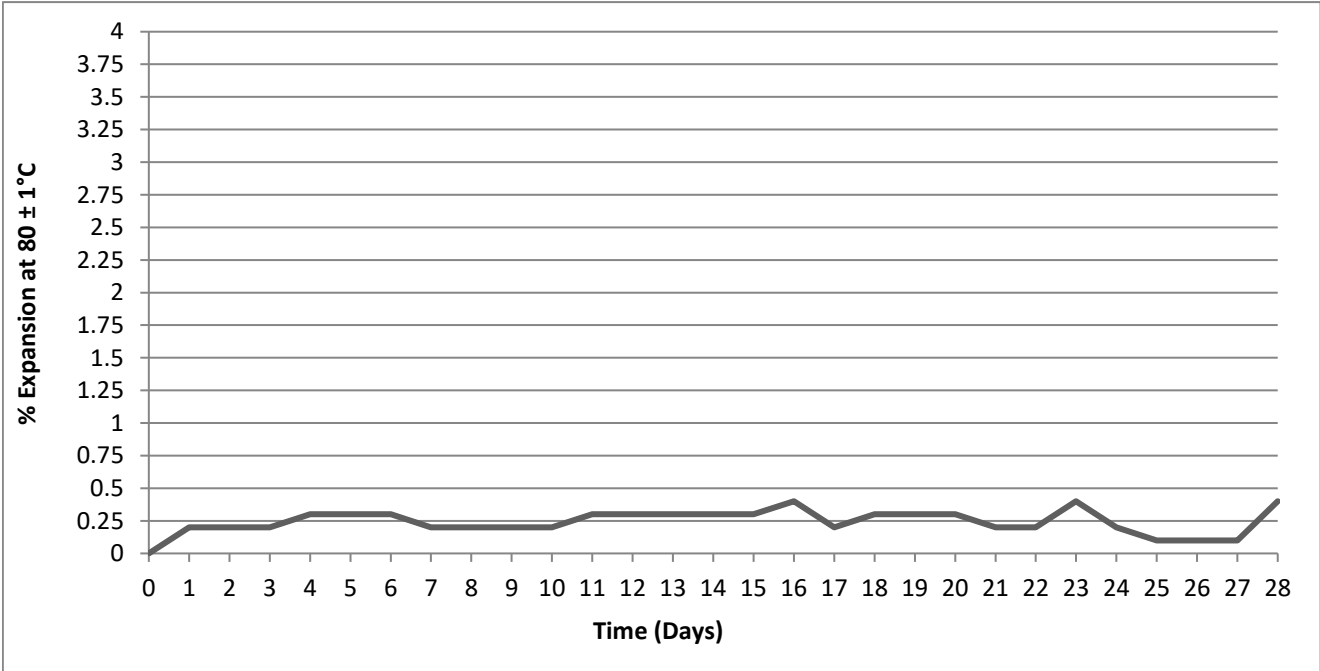
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

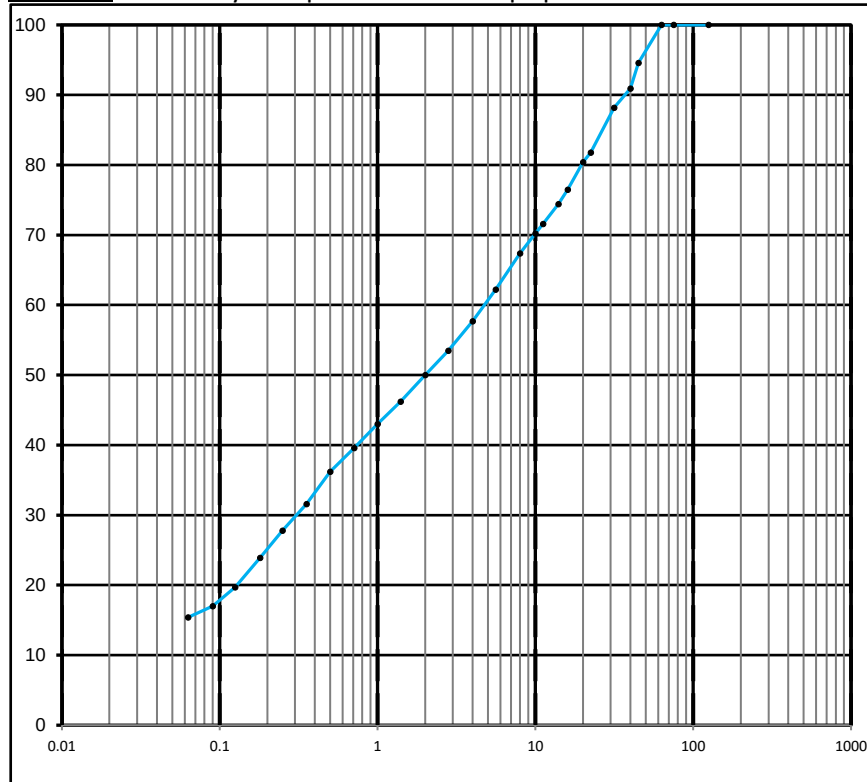
TEST REQUIREMENTS:

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

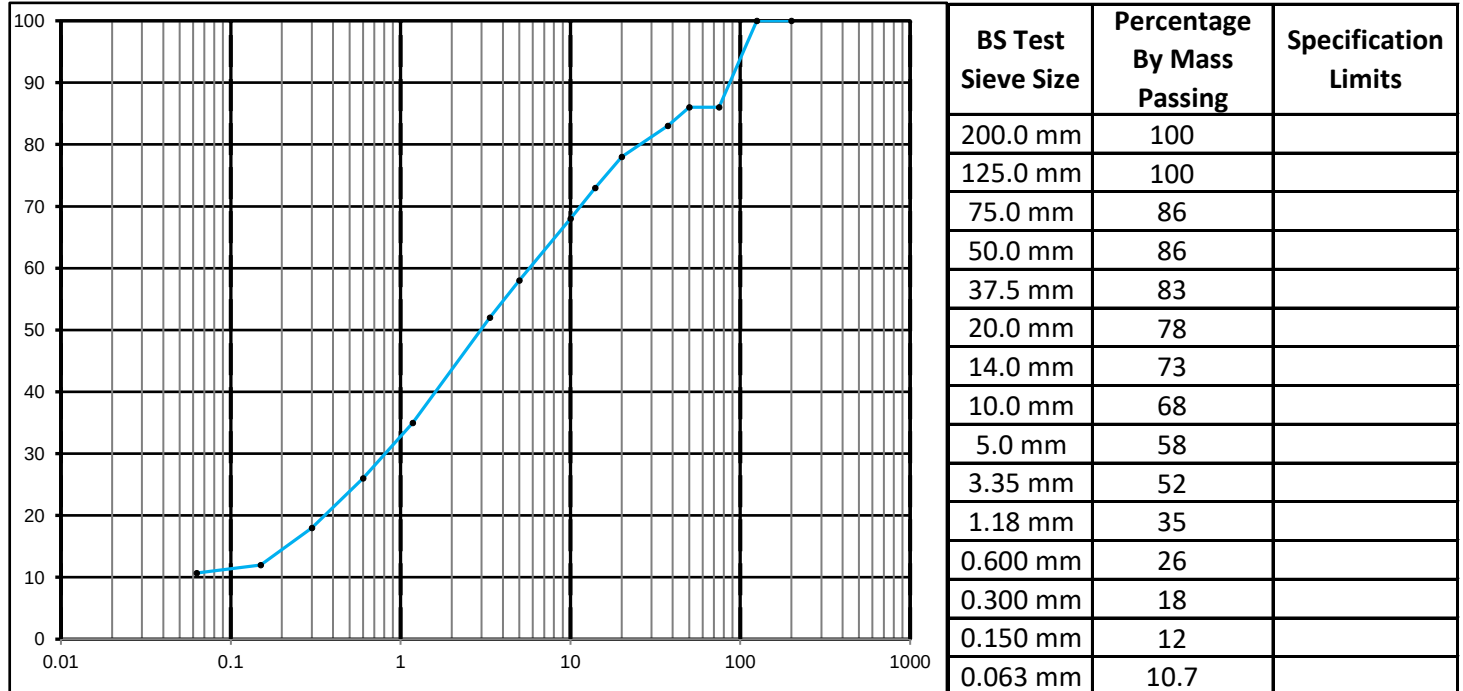
TEST REQUIREMENTS:

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



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These results relate only to the items tested.

Comments:

None

Report checked 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:

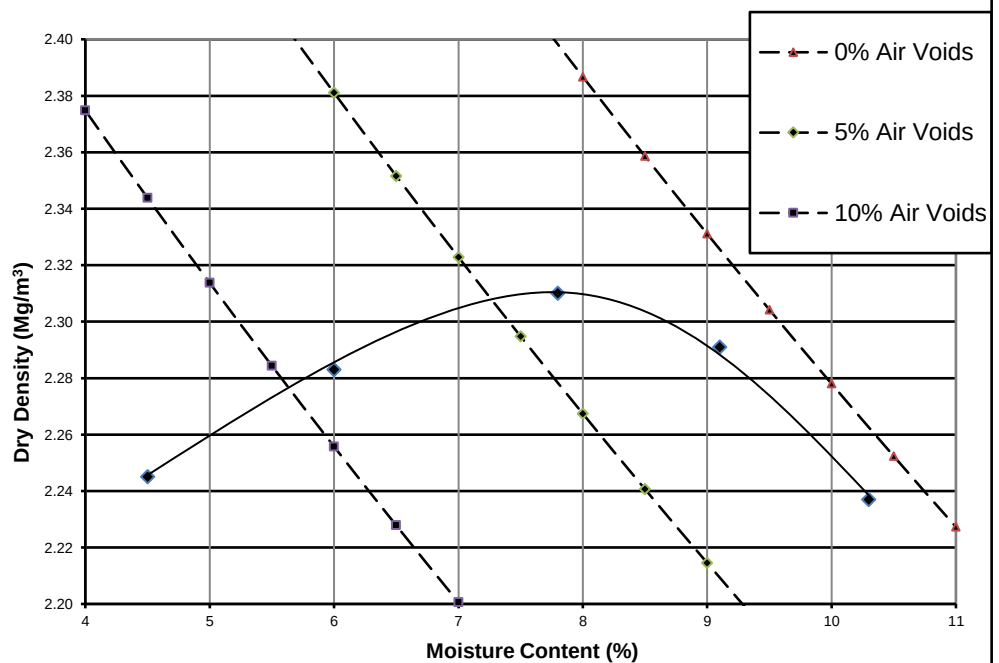
No
S92460
AS9-1
Unknown
14/01/2021
11/02/2021
Unknown
Soil

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/m³
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

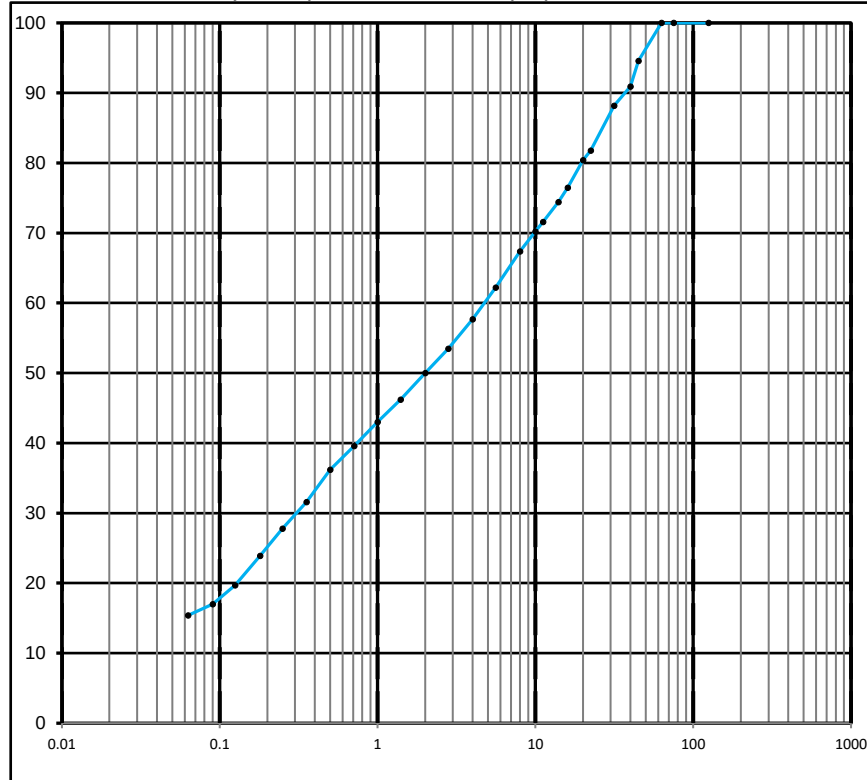
LABORATORY TEST REPORT

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:

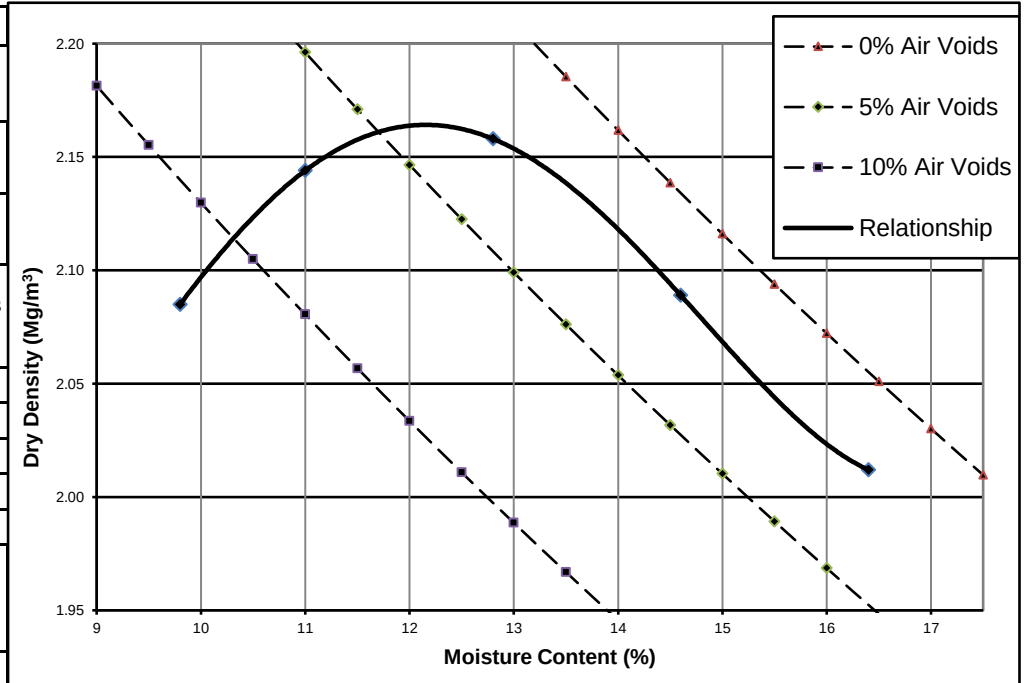
No
S112528
AS9-1 @ 1.00M
13/07/2023
25/07/2023
16/11/2023
AS9-1 @ 1.00M
Granular - 40mm Down

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 %

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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 968640

Page 1 of 1

Contract: Former Llanwern Steelworks

LABORATORY TEST REPORT

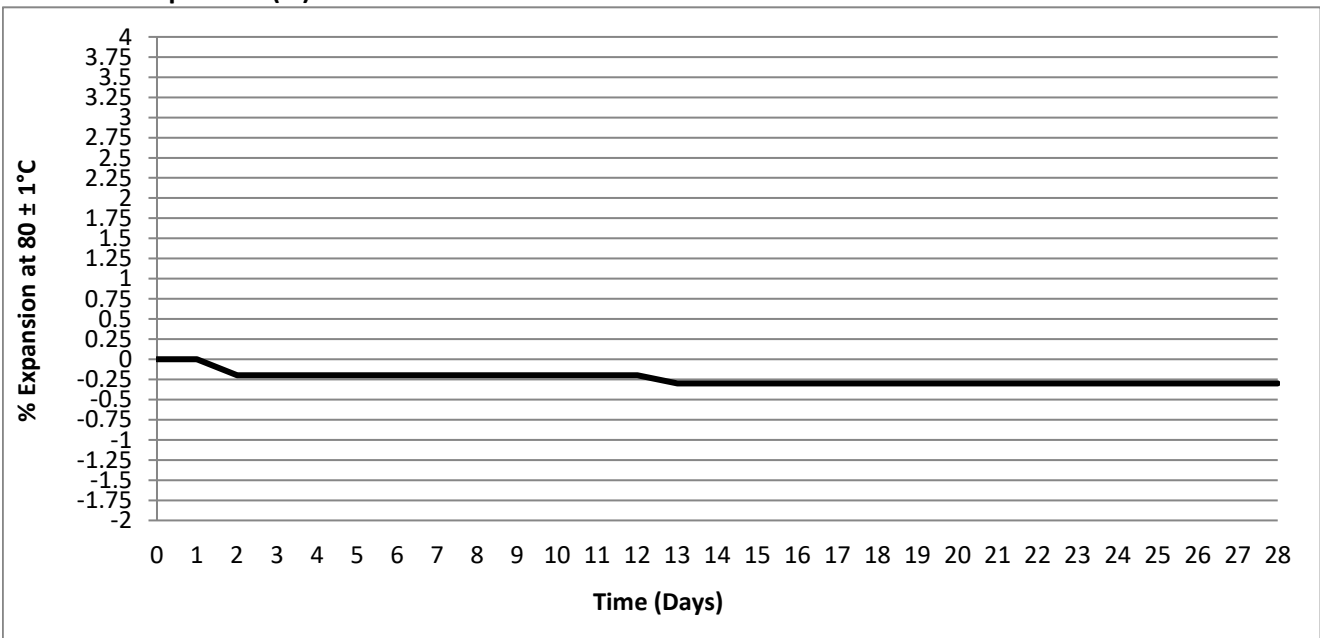
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

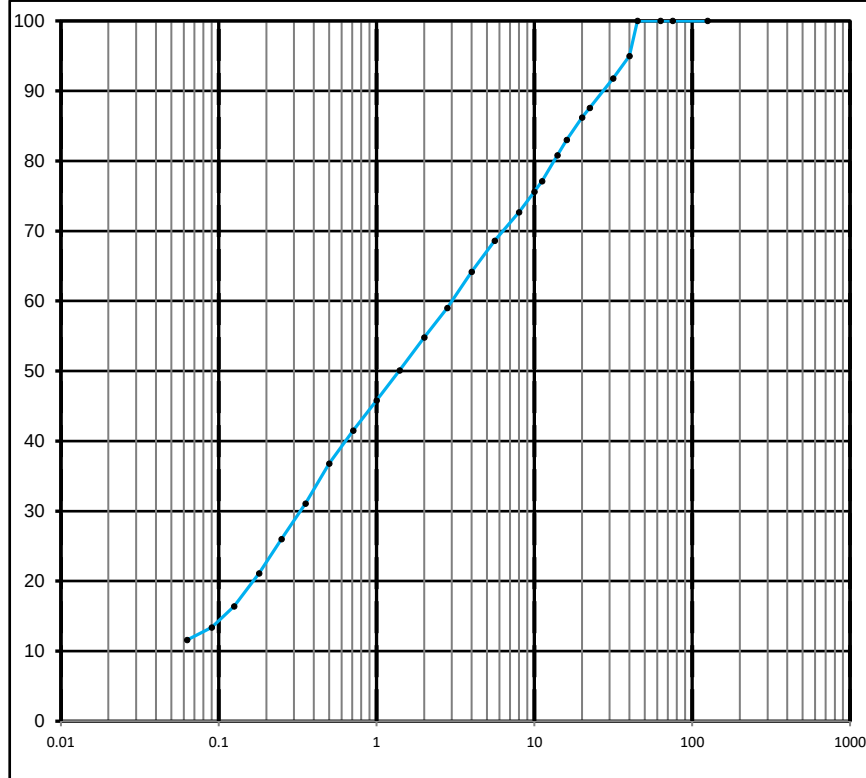
TEST REQUIREMENTS:

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	

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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:

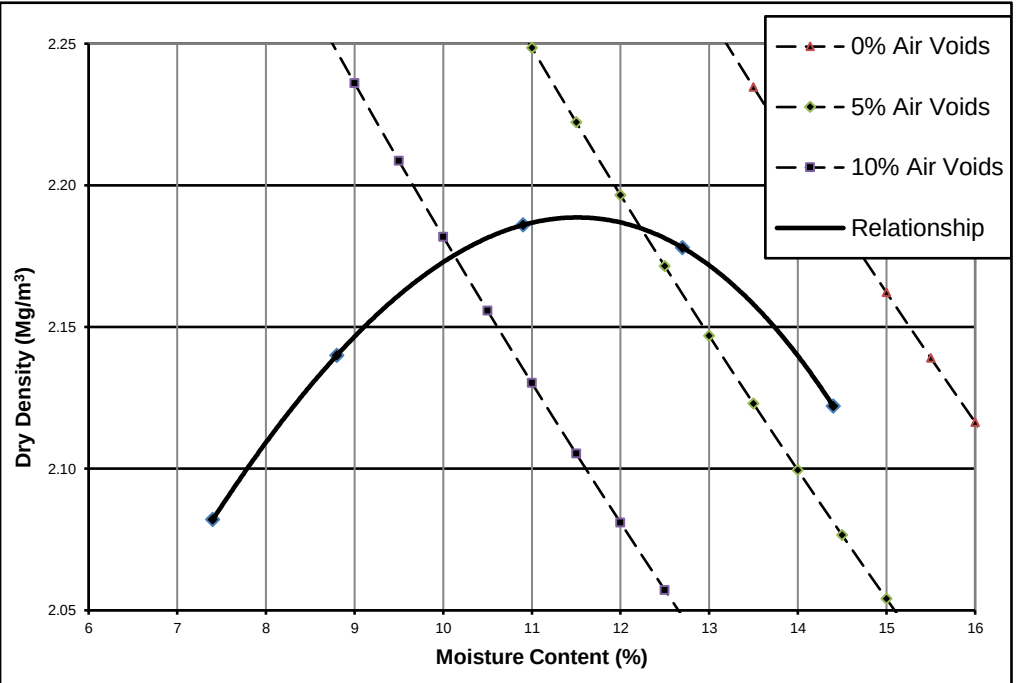
No
S112528
AS9-2 @ 1.50M
13/07/2023
25/07/2023
16/11/2023
AS9-2 @ 1.50M
Granular - 40mm Down

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 %

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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 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

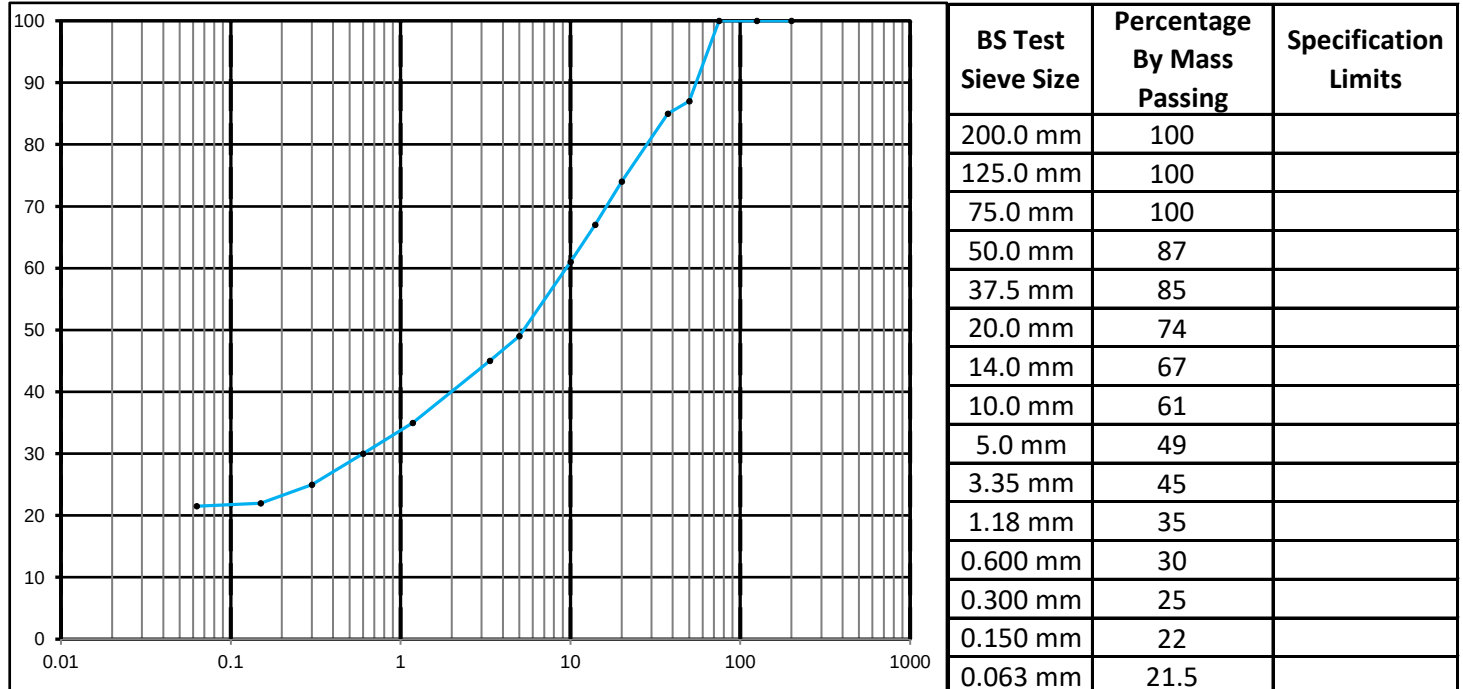
TEST REQUIREMENTS:

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:

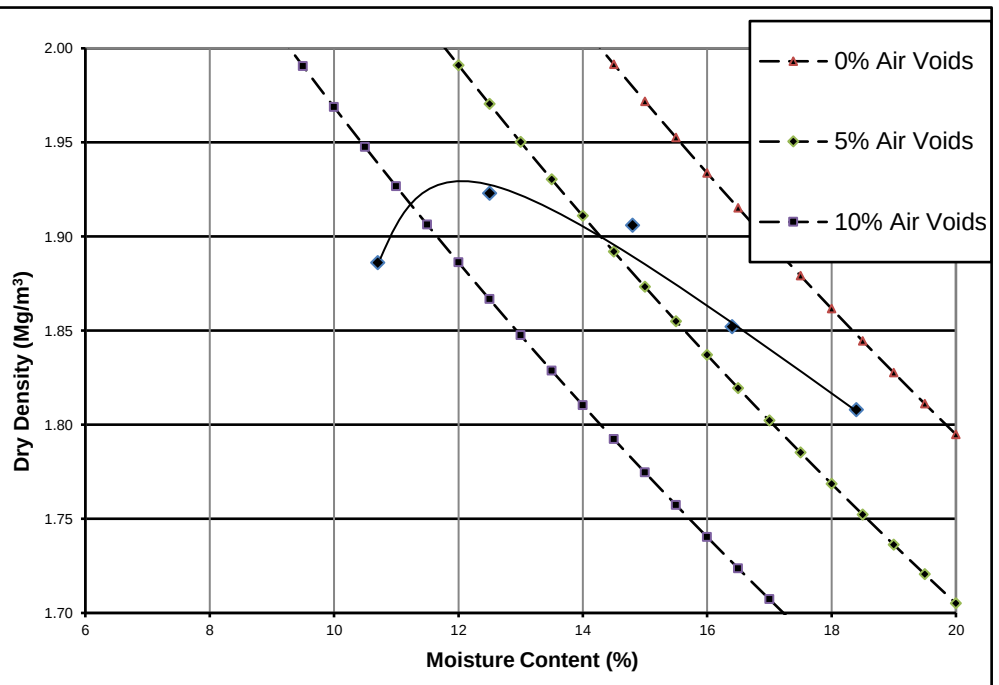
No
S92292
AT4-1
17/12/2020
05/01/2021
23/01/2021
Unknown
Soil

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

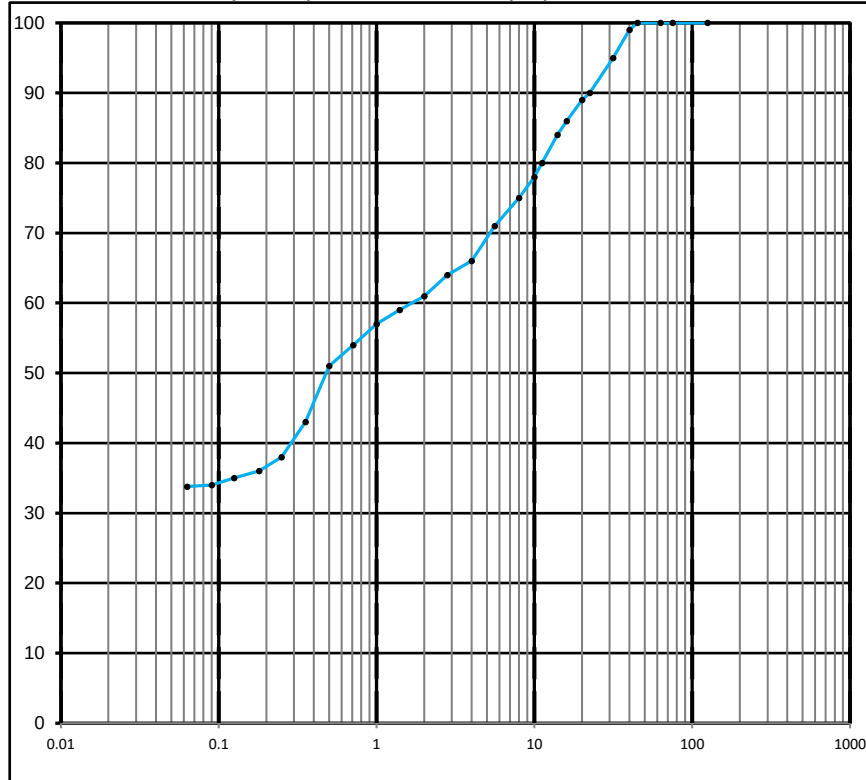
TEST REQUIREMENTS:

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:

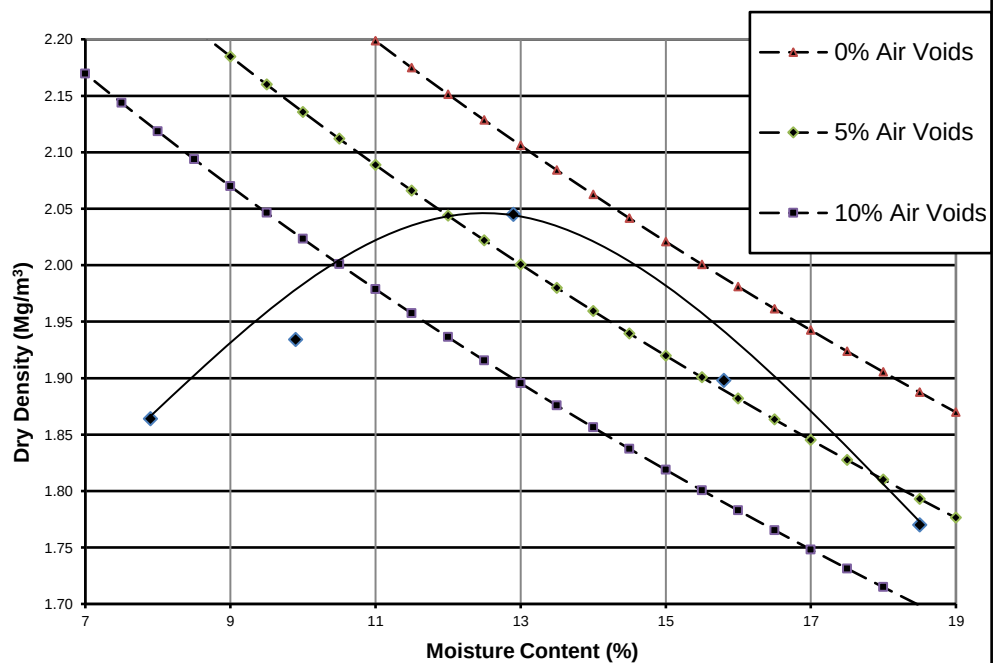
No
S93086
AT5-1 - 0.2m
10/02/2021
12/02/2021
15/04/2021
Unknown
Granular - 40mm Down

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.

Comments:

None

Report checked 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

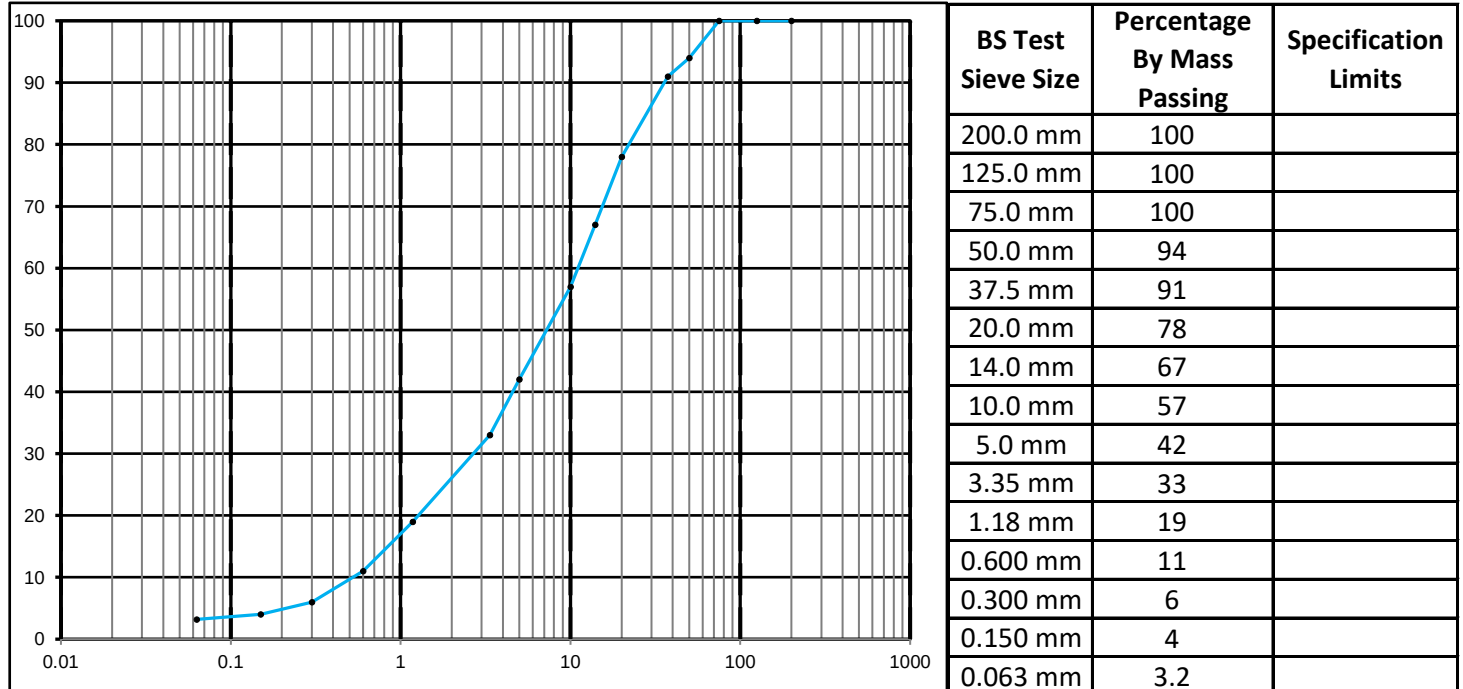
TEST REQUIREMENTS:

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:

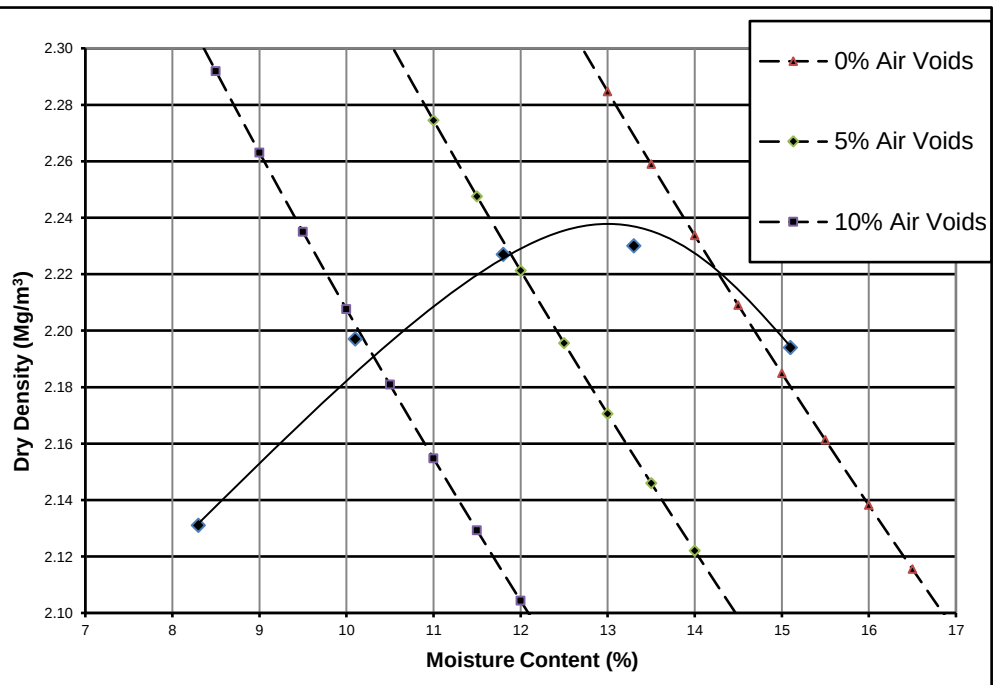
No
S92460
AT9-1
Unknown
14/01/2021
15/02/2021
Unknown
Soil

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.

<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 777462

Page 1 of 1

LABORATORY TEST REPORT

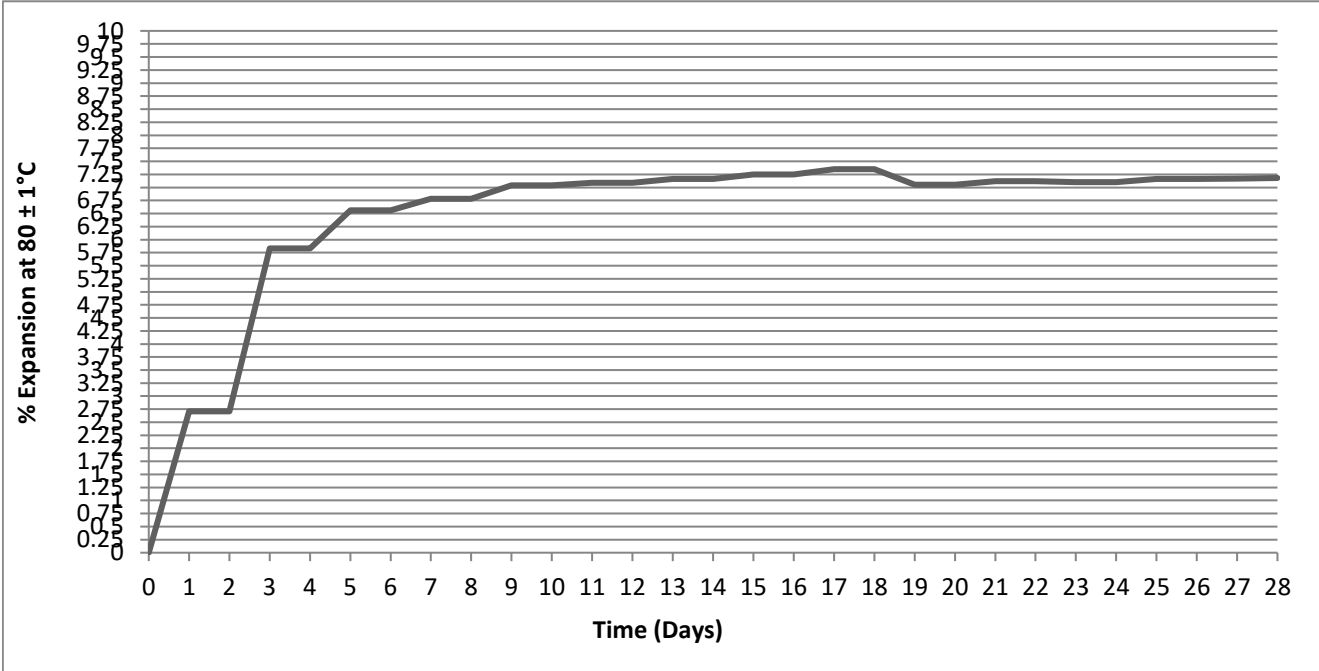
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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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

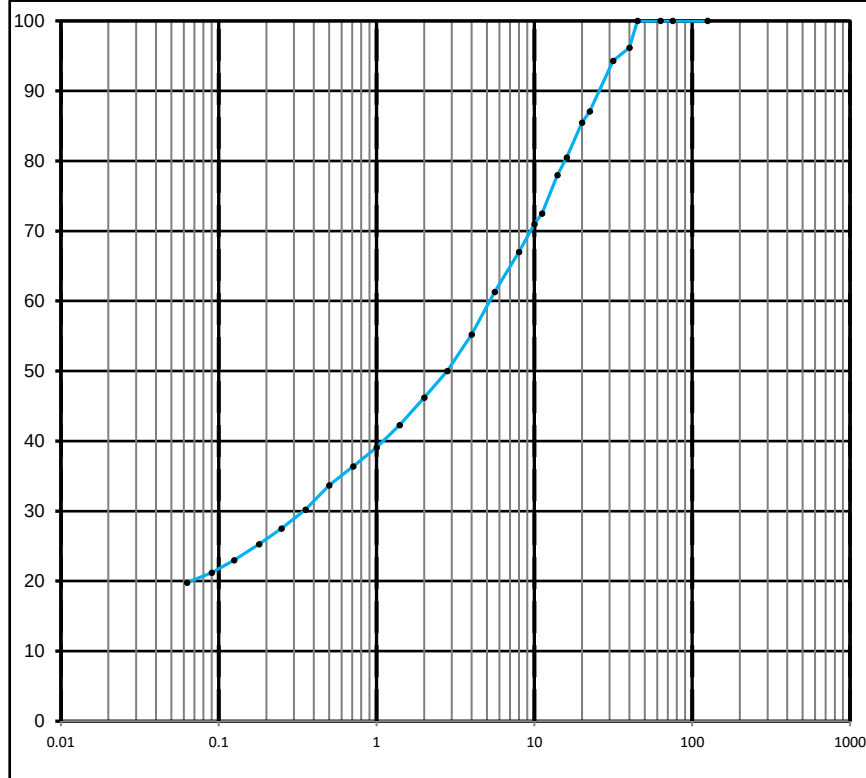
TEST REQUIREMENTS:

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:

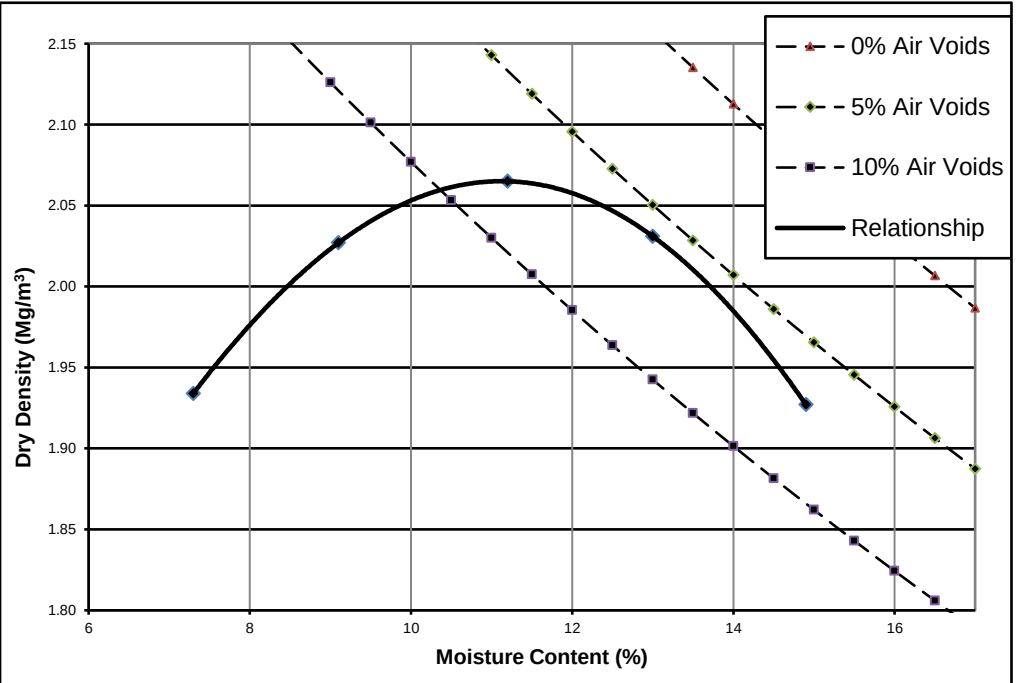
No
S112528
AT9-1 @ 0.90M
13/07/2023
25/07/2023
15/11/2023
AT9-1 @ 0.90M
Granular - 40mm Down

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.

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 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)

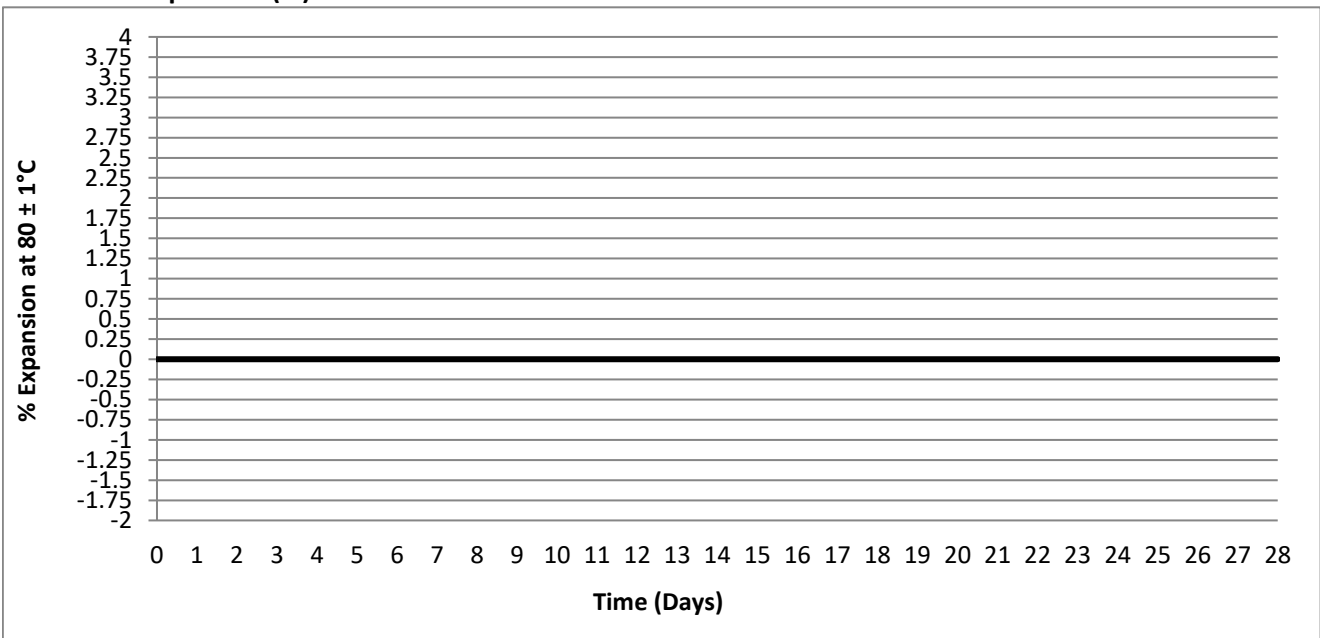
SAMPLE DETAILS:

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.

Comments:

% 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

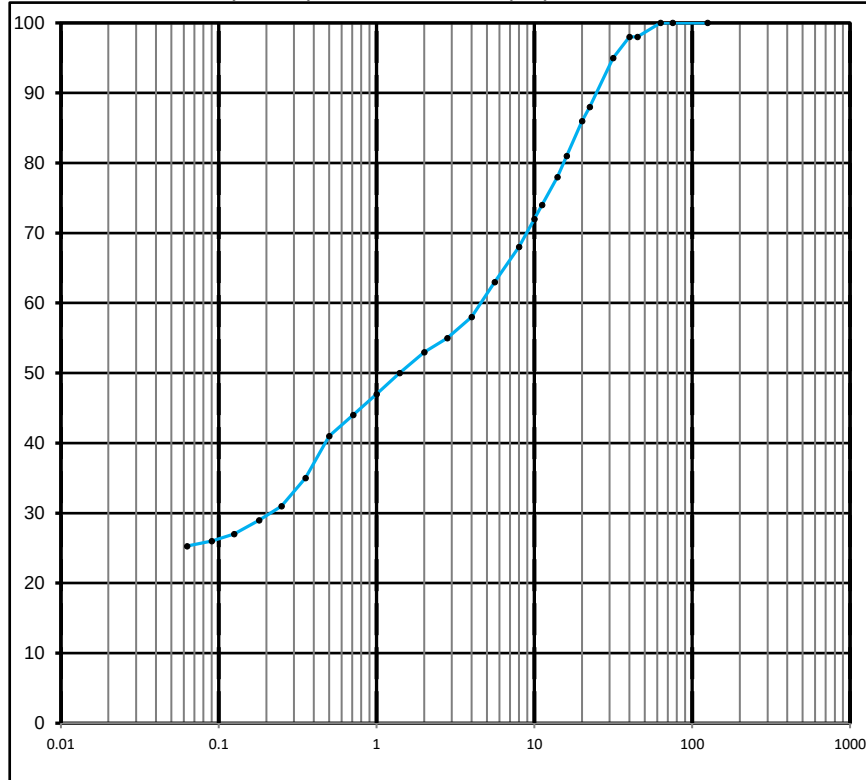
TEST REQUIREMENTS:

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:

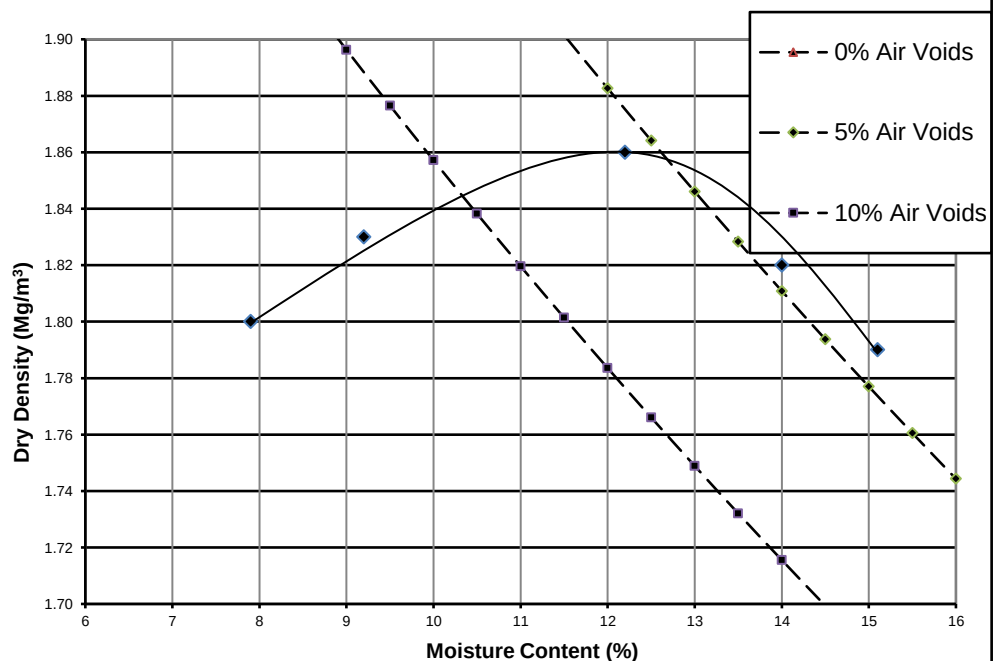
No
S93086
AU5-1 - 0.2m
10/02/2021
12/02/2021
08/04/2021
Unknown
Granular - 40mm Down

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

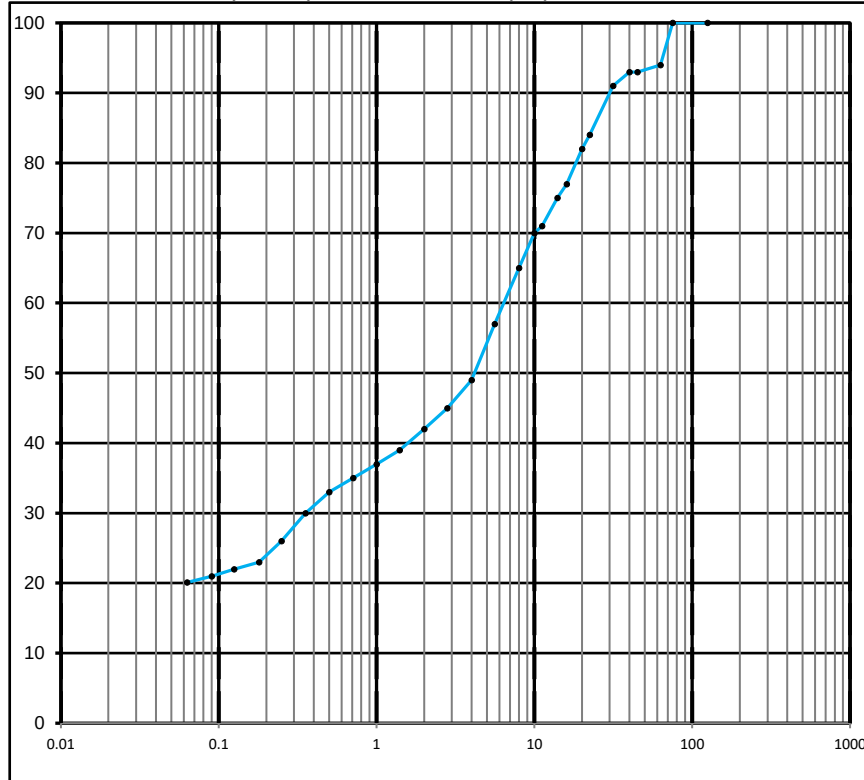
TEST REQUIREMENTS:

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:

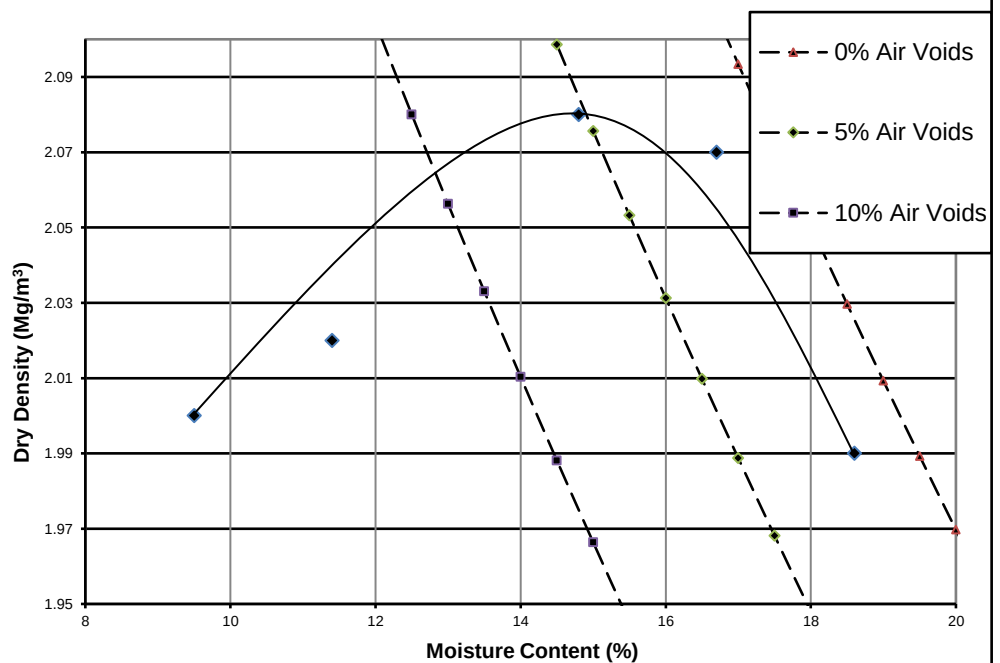
No
S93086
AU6-1 - 0.2m
10/02/2021
12/02/2021
14/04/2021
Unknown
Granular - 40mm Down

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/m ³
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
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

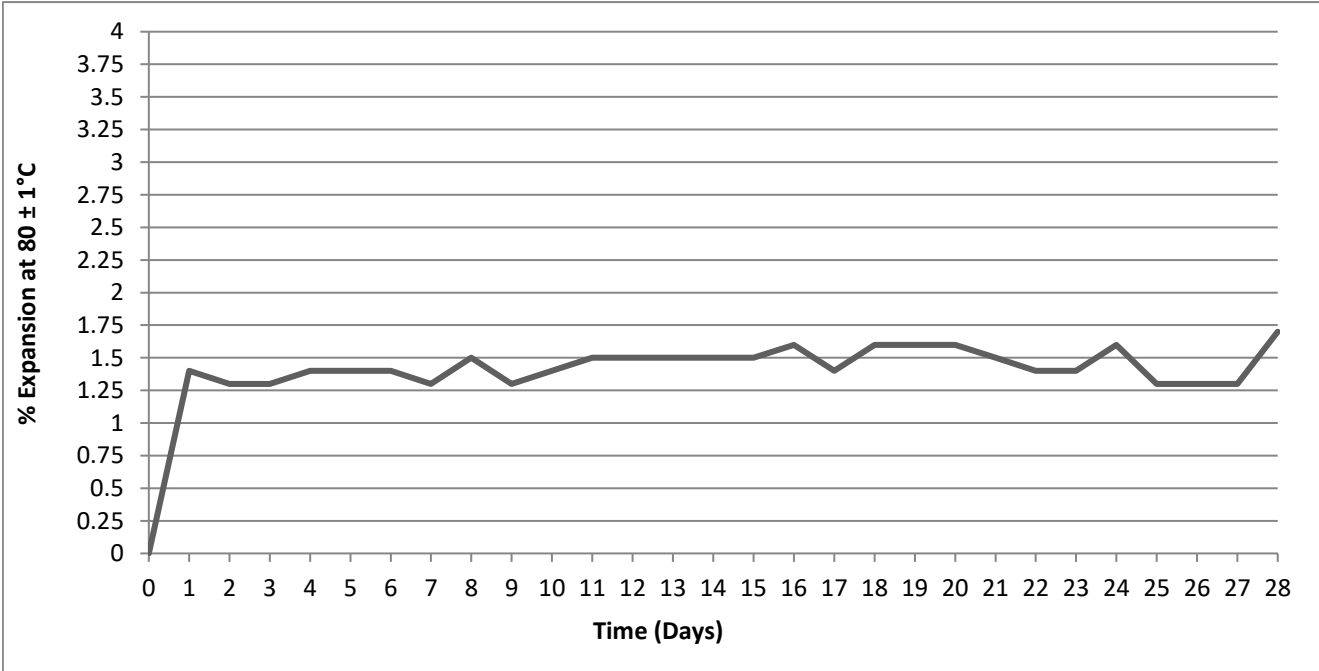
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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

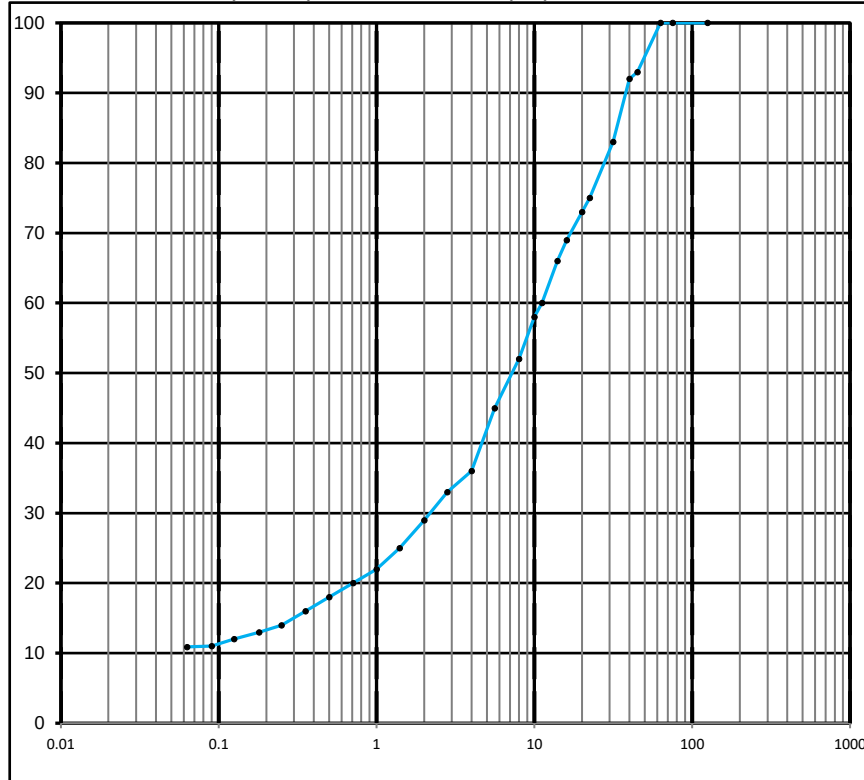
TEST REQUIREMENTS:

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.

<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 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:

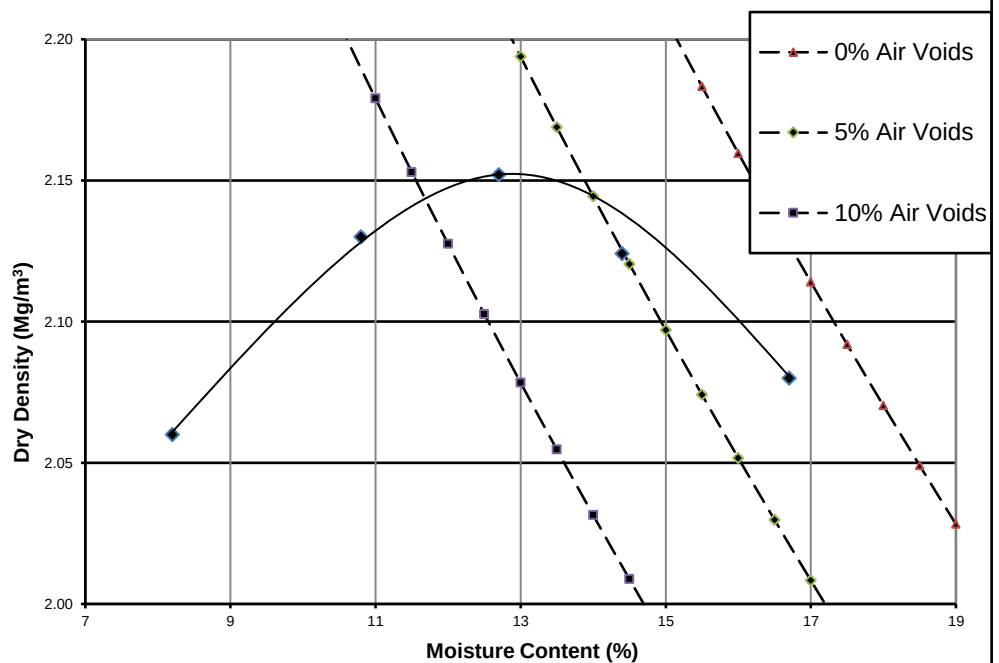
No
S93086
AV6-1 - 0.5m
Unknown
12/02/2021
14/04/2021
Unknown
Granular - 40mm Down

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/m³
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

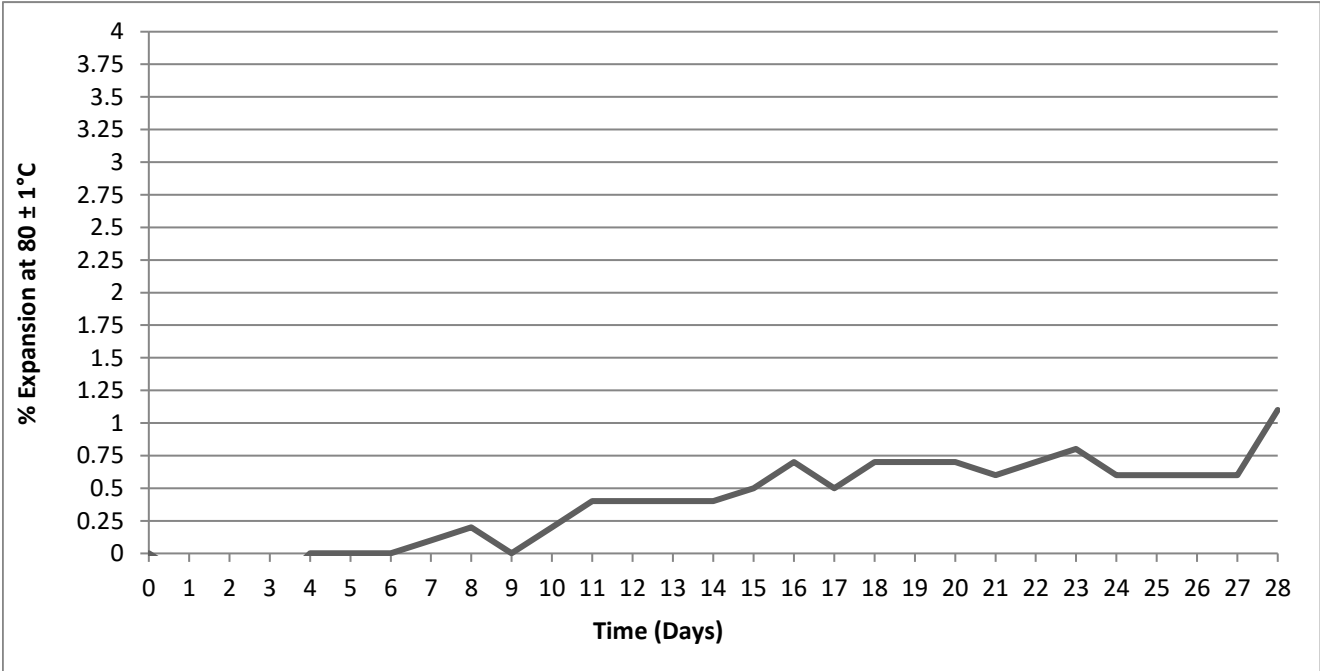
TEST REQUIREMENTS: To determine the Expansion of Steel Slag over 28 days at 80°C by
BRE in-house method (BR 481 Part B - Appendix B)

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



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These results relate only to the items tested.

Comments:

% of material retained on the 20mm sieve = 24

Report checked and approved by:

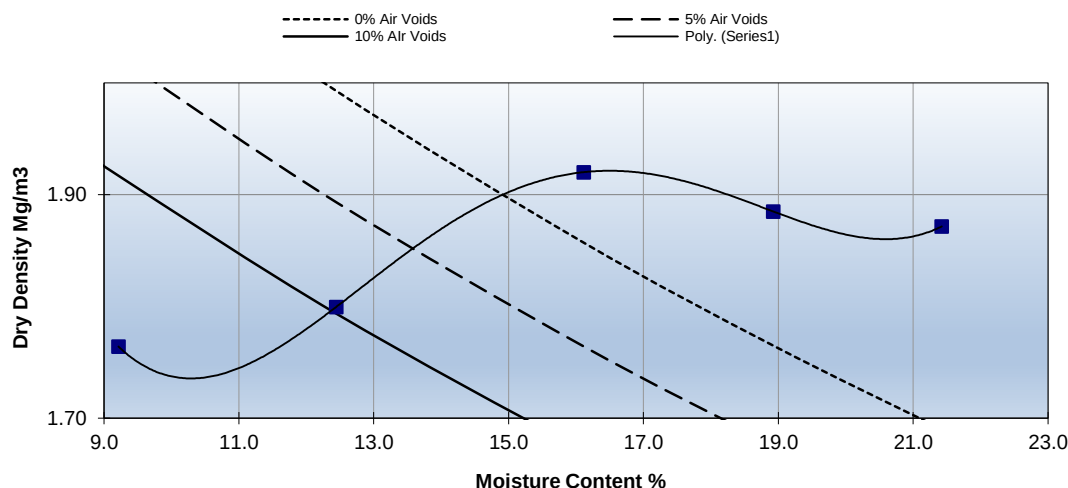
Mathew Sayer
Aggregate Team Manager

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

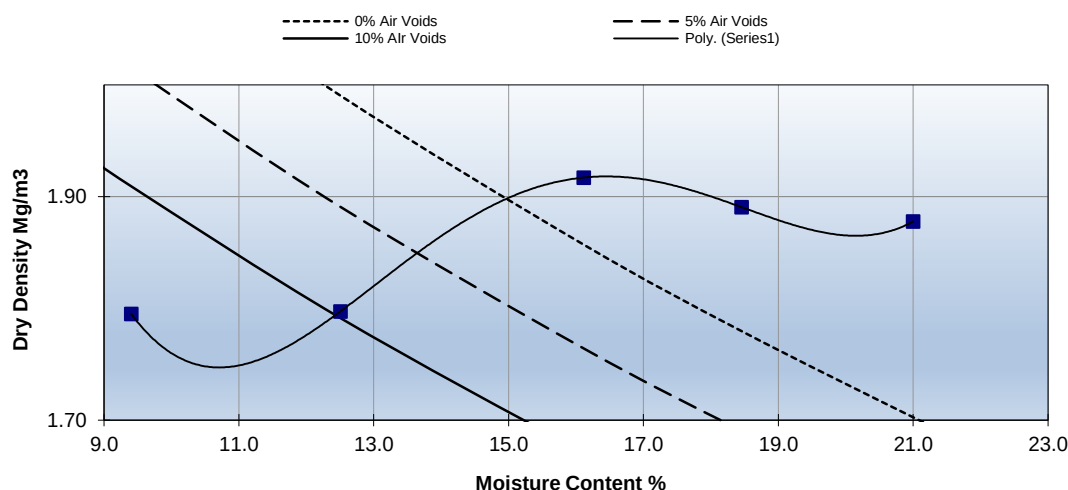
Particle Density (Mg/m³) - 2.65 (Assumed)

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

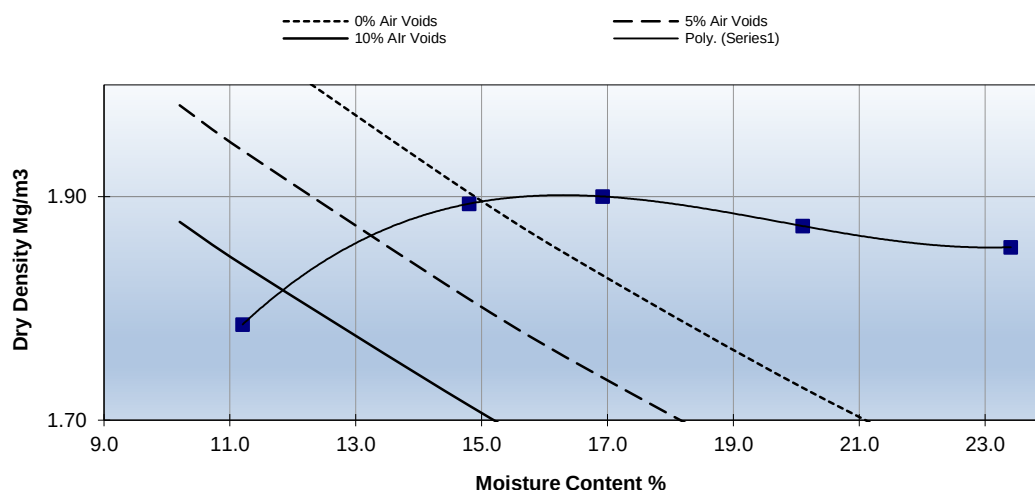
Particle Density (Mg/m³) - 2.65 (Assumed)

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

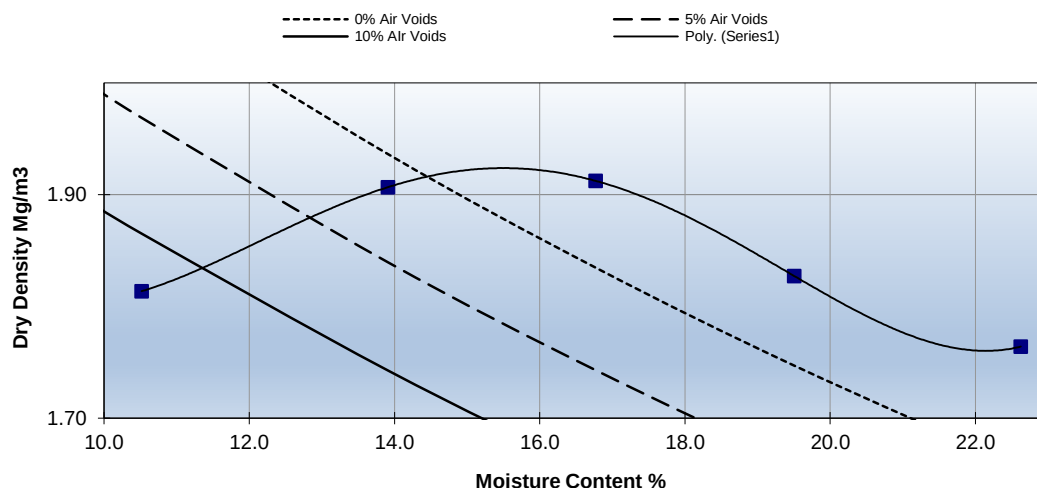
Particle Density (Mg/m³) - 2.65 (Assumed)

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

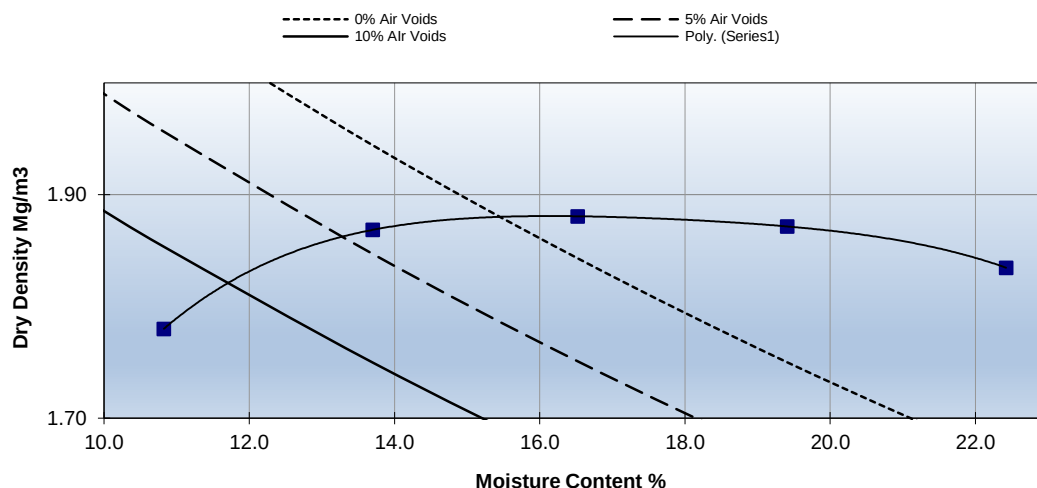
Particle Density (Mg/m³) - 2.65 (Assumed)

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

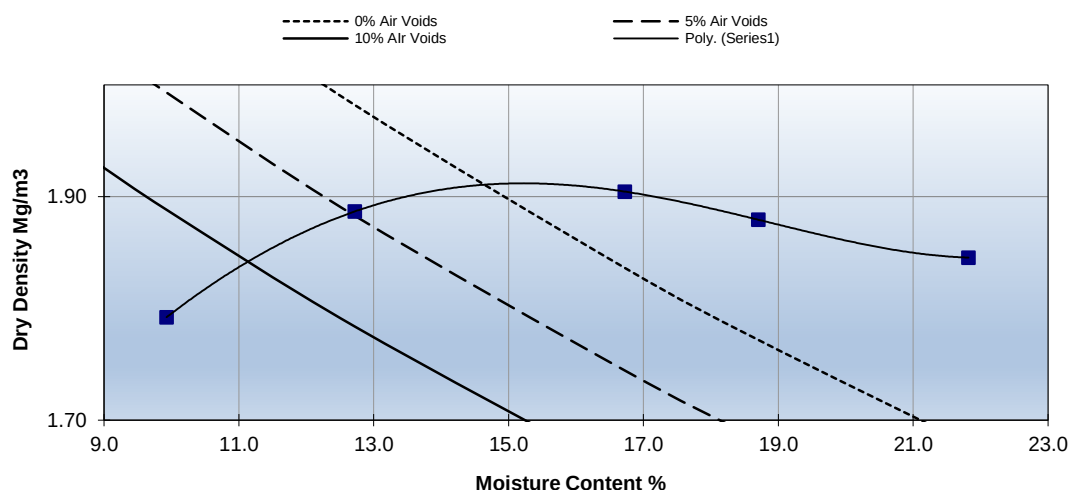
Particle Density (Mg/m³) - 2.65 (Assumed)

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

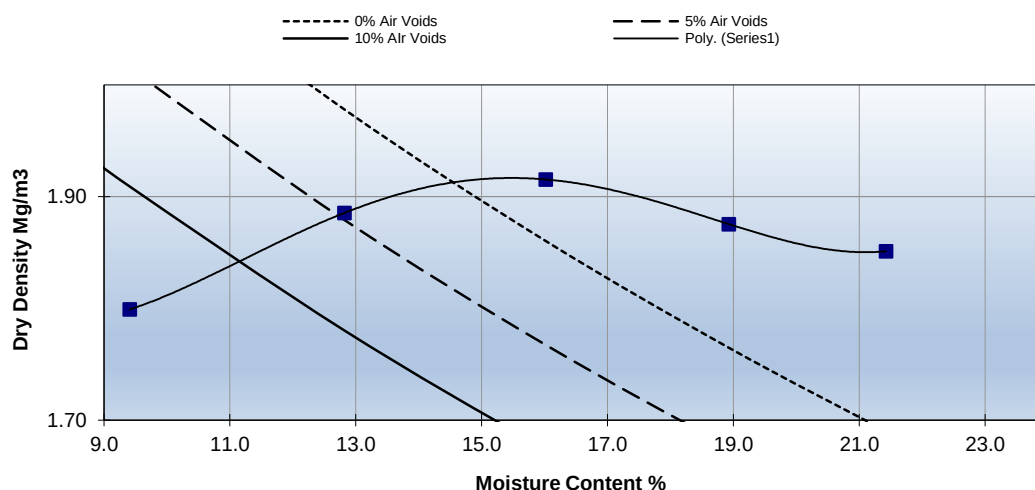
Particle Density (Mg/m³) - 2.65 (Assumed)

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

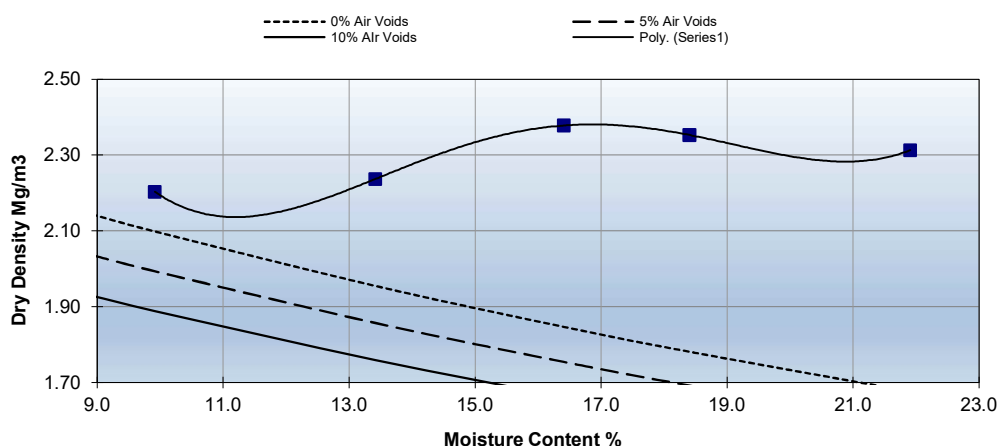
Particle Density (Mg/m³) - 2.65 (Assumed)

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

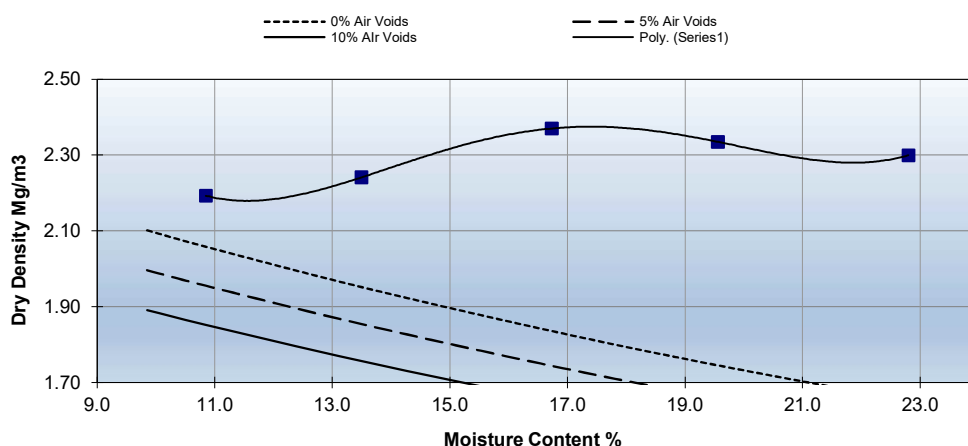
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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

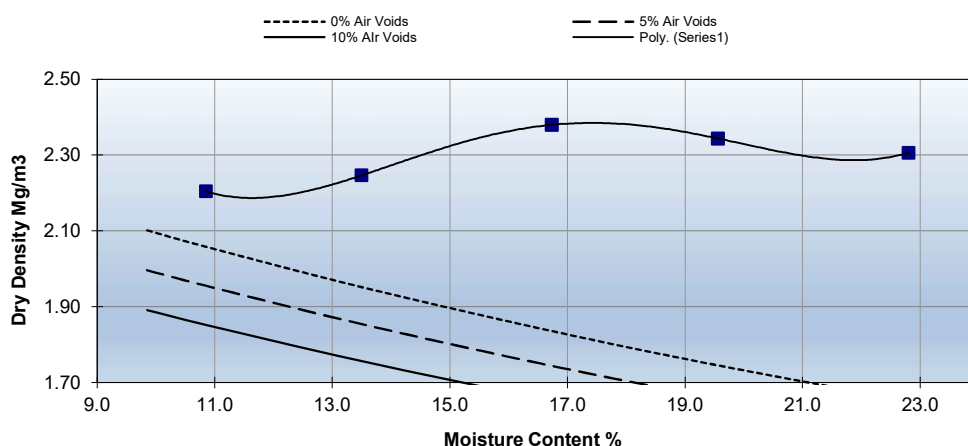
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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

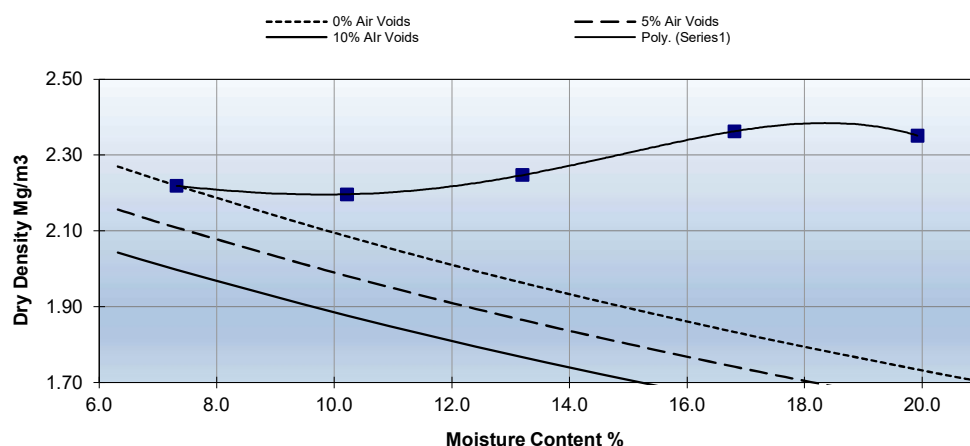
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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

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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

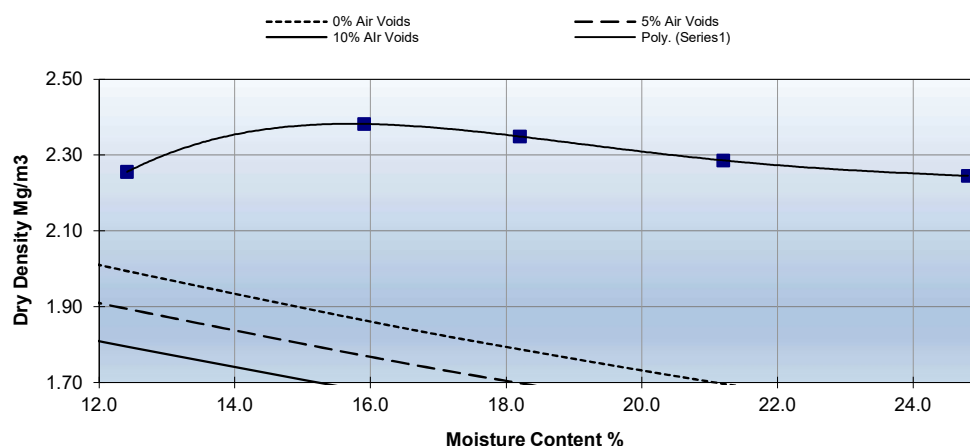
Particle Density (Mg/m³) - 2.65 (Assumed)

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

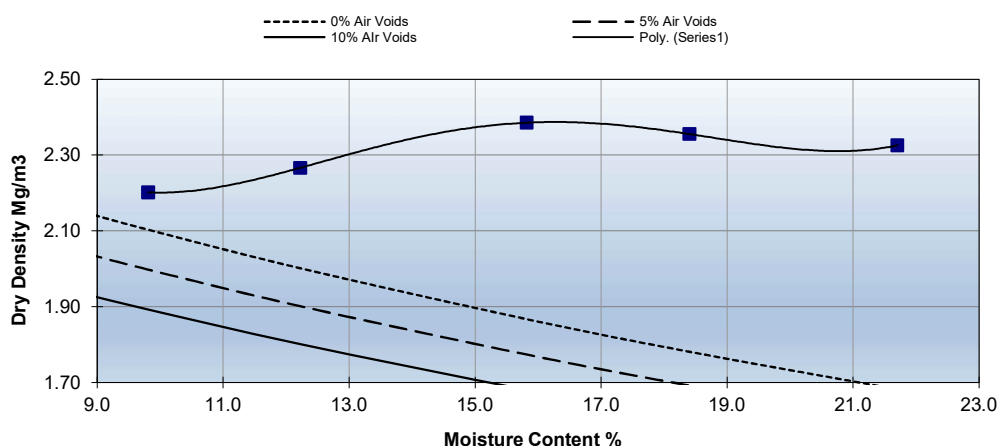
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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

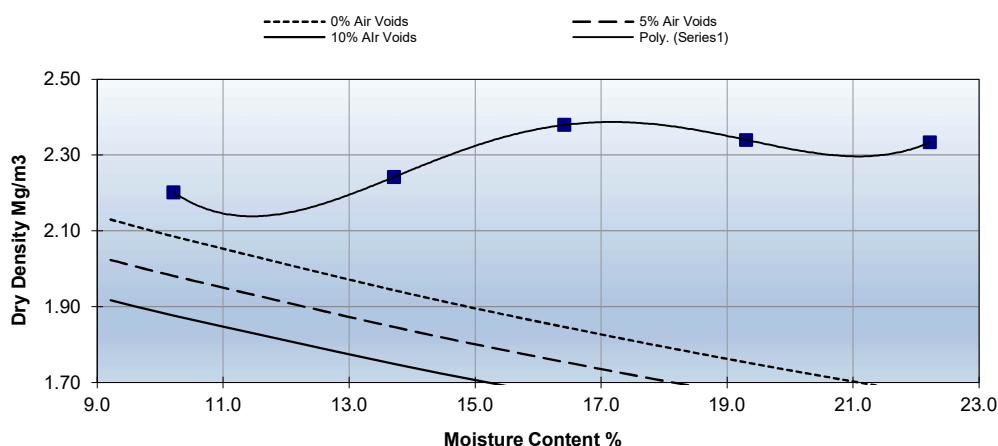
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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

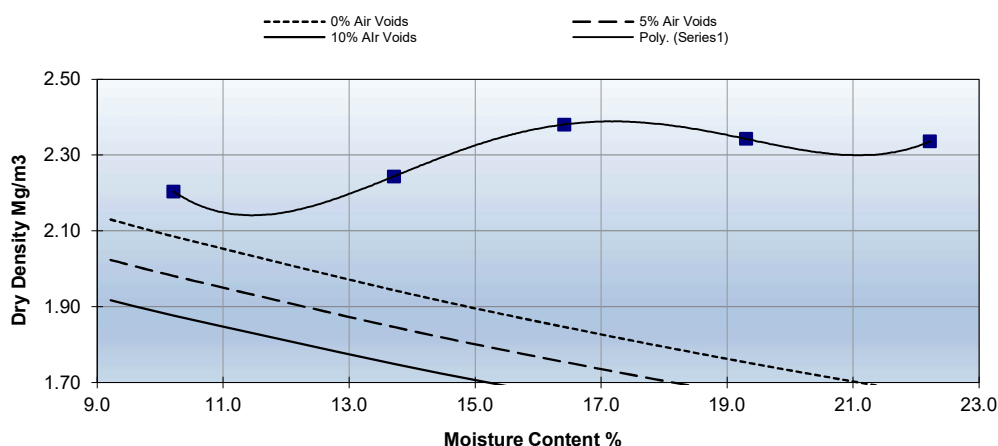
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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.

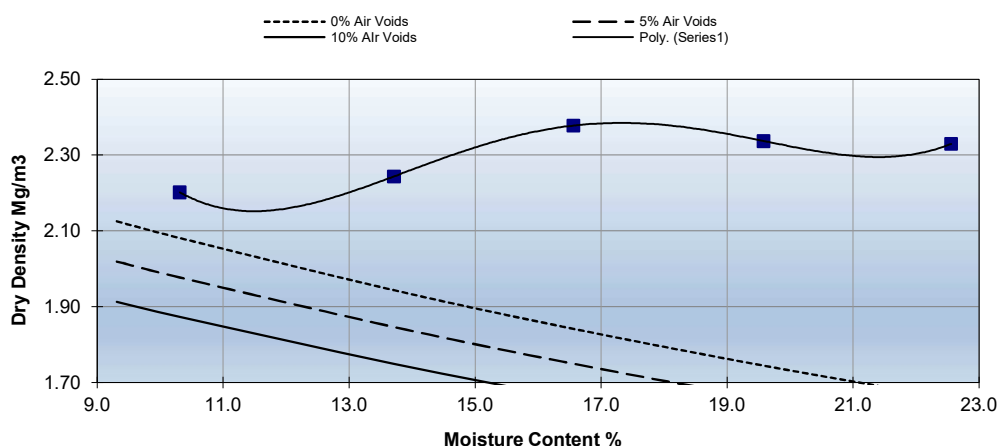
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

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

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Where CMTL are not responsible for sampling, the sample is tested in an as received condition

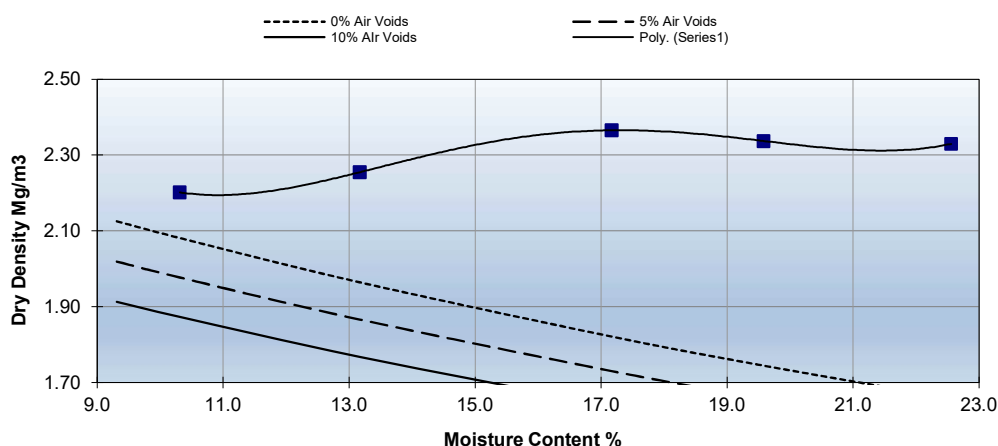
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
 Particle Density (Mg/m³) - 2.65 (Assumed)

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

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Where CMTL are not responsible for sampling, the sample is tested in an as received condition

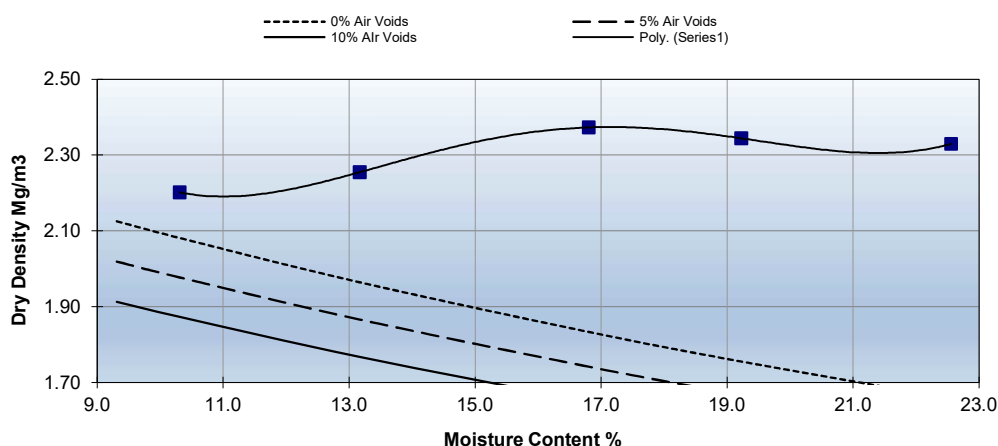
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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.

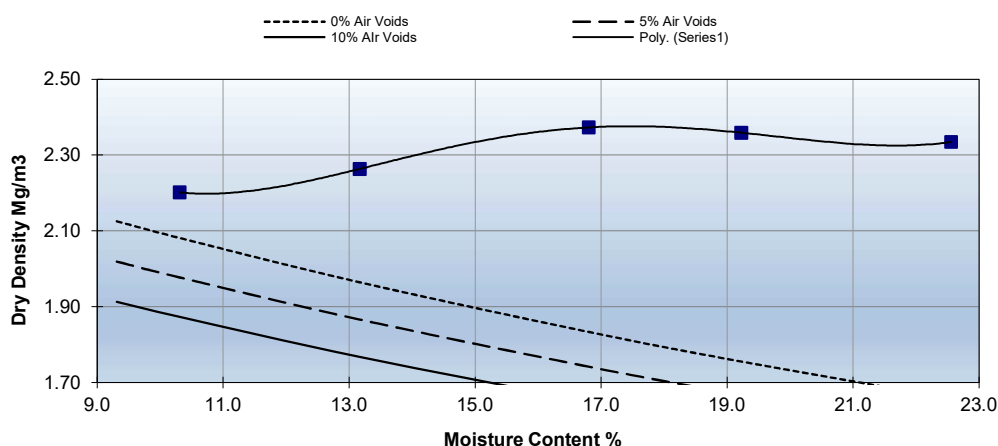
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

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

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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

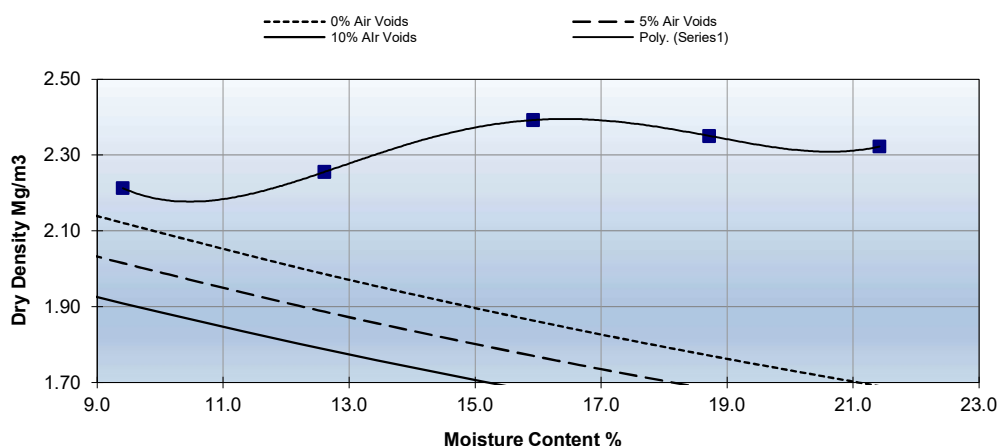
Particle Density (Mg/m³) - 2.65 (Assumed)

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

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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

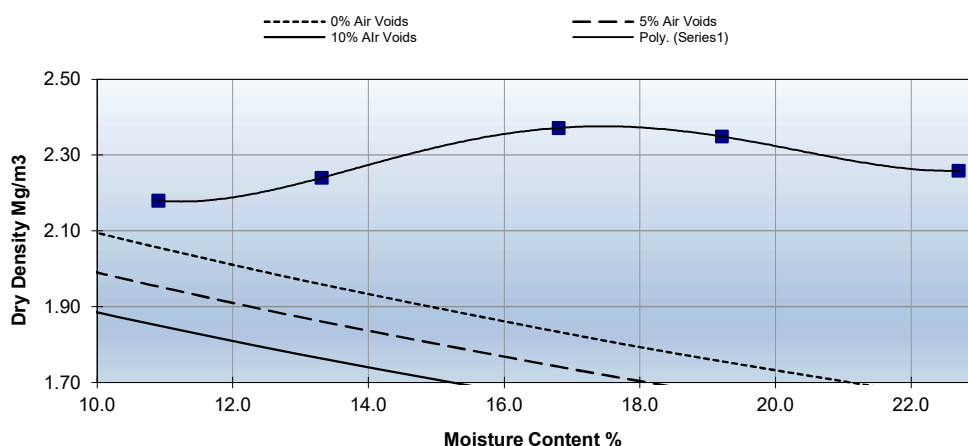
Particle Density (Mg/m³) - 2.65 (Assumed)

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

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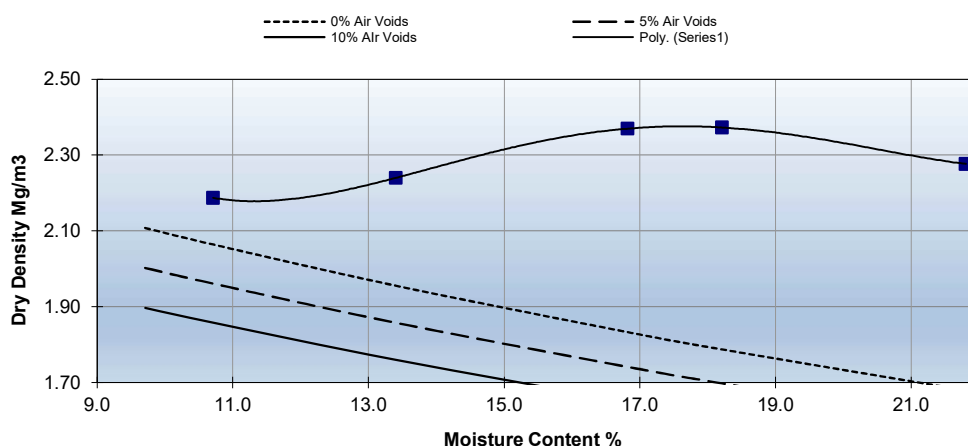
Where CMTL are not responsible for sampling, the sample is tested in an as received condition

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

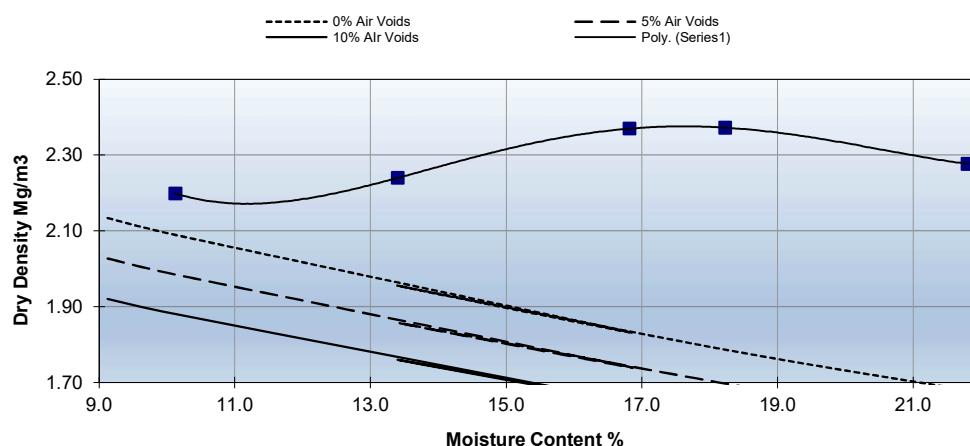
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

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)
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

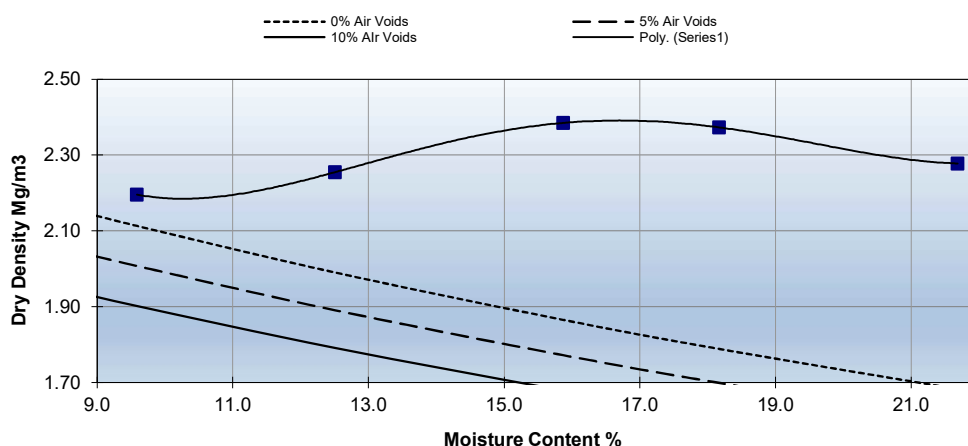
Tested in accordance with BS 1377: Part 4:1990: Clause 3.6
Particle Density (Mg/m³) - 2.65 (Assumed)

LABORATORY TEST REPORT
DRY DENSITY / MOISTURE CONTENT RELATIONSHIP - BS 1377: Part 4: 1990

Project:	Former Llanwern Steelworks	Lab Ref No.:	S0057.9
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)

