

Planting Schedule

All plants to be supplied from an HTA approved nursery and in accordance with National Plant Specification

TREES		Specification	Life cycle	No.
Key	Species		Carbon Capture	
ACS	Acer campestre 'Streetwise'	14-16cm, Extra Hvy Std, rb	2572 Kg	3
AF	Acer x freemanii	14-16cm, Extra Hvy Std, rb	628 Kg	5
AFA	Acer x freemanii 'Armstrong'	14-16cm, Extra Hvy Std, rb	628 Kg	7
AR	Acer rubrum 'Armstrong'	14-16cm, Extra Hvy Std, rb	628 Kg	6
ARS	Acer rubrum 'Scanlon'	14-16cm, Extra Hvy Std, rb	628 Kg	4
BN	Betula nigra	12-14cm, Hvy Std, rb	3224 Kg	6
BP	Betula pendula	14-16cm, Extra Hvy Std, rb	3224 Kg	3
CB	Carpinus betulus	14-16cm, Extra Hvy Std, rb	6731 Kg	5
CBF	Carpinus betulus 'Frans Fontaine'	14-16cm, Extra Hvy Std, rb	6731 Kg	5
GT	Gleditsia triacanthos var. 'Draves'	14-16cm, Extra Hvy Std, rb	2684 Kg	10
LO	Liquidambar orientalis	14-16cm, Extra Hvy Std, rb	2877 Kg	4
LS	Liquidambar styraciflua	14-16cm, Extra Hvy Std, rb	2377 Kg	4
LSS	Liquidambar styr. 'Slender Silhouette'	14-16cm, Extra Hvy Std, rb	2377 Kg	10
PC	Pyrus calleryana 'Chanticleer'	14-16cm, Extra Hvy Std, rb	996 Kg	2
SAS	Sorbus aucuparia 'Street Wise'	14-16cm, Extra Hvy Std, rb	530 Kg	3
TC	Tilia cordata	14-16cm, Extra Hvy Std, rb	5019 Kg	5
TCG	Tilia cordata 'Greenspire'	14-16cm, Extra Hvy Std, rb	5019 Kg	2

SMALL TREES		Specification	No.
AL	Amelanchier lamarckii	10-12cm, Sel Std, rb	530 Kg
ML	Magnolia Leonard Messel	1.2-1.5m tall Fihd 20L Container	521 Kg
SV	Sorbus vilmorinii	10-12cm, Sel Std, 1.5-2.0m ht, rb	593 Kg

SINGLE SPECIES HEDGE PLANTING		Size/Type	No per 1m	No.
Key	Species			
Cbh	Carpinus betulus	90-120cm tall bareroot	7	486
Eah	Escallonia 'Apple Blossom'	(Trimmed to 1m after planting)	5	681
Ejh	Euonymus japonicus Jean Hughes	30-40cm tall, 5L cont. (single row)	5	2027
Fsh	Fagus sylvatica	90-120cm tall bareroot	7	1049
Lmh	Lonicera Maigrun	(Trimmed to 1m after planting)	5	1568
Pfh	Phloxia x fraseri 'Red Robin'	30-40cm, bushy 4 breaks	5	1642
Pth	Prunus lusitanica	40-60cm tall, 3L	4	408
Vth	Viburnum tinus Eve Price	40-60cm tall, 5L container	4	679

SHRUBS, HERBACEOUS AND CLIMBERS		Size/Type	No.
Key	Species		
Ac	Astilbe chinensis 'Purpurance'	2L container	27
Bb	Bergenia 'Bressingham Ruby'	2L container	52
Cas	Cornus alba 'Sibirica'	40-60cm	29
Cb	Carex buchanii	20-30cm	44
Cc	Cistus x corbariensis	20-30cm tall, 2L container	60
Cf	Carex flacca 'Burtons Blue'	20-30cm	134
Ck	Calamagrostis x acutiflora 'Karl Foerster'	2L	82
Cr	Ceanothus thyrsiflorus repens	40-60cm tall, 5L container	36
Ci	Choysya ternata 'Sundance'	40-60cm 5L	267
Df	Dryopteris filix-mas	2L container	45
Ee	Euonymus Emerald Green	20-30cm tall, 2L container	197
Es	Euonymus Silver Queen	20-30cm tall, 2L container	20
Ha	Hebe albicans Red Edge	30-40cm tall, 2L container	83
Hg	Hebe 'Green Gem'	20-30cm	337
Hh	Hypericum 'Hidcote'	30-40cm	13
Hk	Heuchera 'Key Lime Pie'	2L container	31
Hm	Hebe 'Majorie'	30-40cm	98
Hp	Hydrangea Preziosa	40-60cm tall	36
Hs	Hemerocallis 'Stafford'	2L	128
Ht	Hydrangea Taube	90-120cm tall, 10L container	23
Ip	Iris pseudacorus	20-30cm tall, 2L container	58
Lh	Lavandula Hidcote	30-40cm tall, 2L container	276
Lm	Lonicera Maigrun	30-40cm tall, 2L container	43
Lp	Lonicera ligustrina var. pileata	20-30cm 2L container	7
Pa	Potentilla Abbotswood	20-30cm tall, 2L container	339
Phr	Penstemon 'Huskies Red'	20-30cm tall, 2L container	41
Pt	Pachysandra terminalis	20-30cm 2L container	155
Rb	Rosa Bonica	2L container	12
Rf	Rosa rugosa Fru Dagmar Hastrup	2L container	12
Rfd	Rudbeckia fulvida deamii	20-30cm tall, 2L container	34
Ro	Rosmarinus officinalis 'Jessops Upright'	2L container	131
Rpa	Rheum palmatum 'atropurpureum'	20-30cm tall, 2L container	22
Sc	Sarcococca confusa	20-30cm	23
Sh	Sarcococca hookeriana humilis	30-40cm tall, 2L container	85
So	Salvia officinalis	2L	27
Vd	Viburnum davidii	20-30cm tall, 2L container	83
Vm	Vinca major	20-30cm tall, 2L container	159

NATIVE HEDGEROW MIX (Ref: NHM)		Specification	No
%	Species		
20%	Acer campestre	1+1 b-root transplant, 40-60cm ht	80
20%	Corylus avellana	1+1 b-root transplant, 40-60cm ht, 2/4 breaks	80
30%	Crateagus monogyna	1+1 b-root transplant, 40-60cm ht, 3 breaks	119
20%	Ilex aquifolium	2 Lt, 40-60cm ht, 3 breaks	80
10%	Cornus sanguinea	1+1 b-root transplant, 40-60cm ht,	41

Transplants to be pit planted in rows (November to March). Rows shall be 500 mm apart (total hedge width 1m) and planted at 500 mm centres (staggered) ensuring no less than 4 no plants per linear meter. Protect with spiral rabbit guards 60cm in height supported by cane. 1.2m High timber post and 3 wire fence integrated into hedgeline.

ACOUSTIC BUND PLANTING		Specification	No
%	Species		
15%	Acer campestre	1+1 bareroot transplant, 90-120cm height	255
10%	Corylus avellana	1+1 bareroot transplant, 90-120cm height	170
10%	Cornus sanguinea	1+1 bareroot transplant, 90-120cm height	170
35%	Crateagus monogyna	1+1 bareroot transplant, 90-120cm height	593
10%	Ligustrum vulgare	1+1 bareroot transplant, 90-120cm height	170
10%	Sambucus nigra	1+1 bareroot transplant, 90-120cm height	170
10%	Viburnum opulus	1+1 bareroot transplant, 90-120cm height	170

Transplants to be pit planted (November to March). Planted at no less than 3 no plants per m². Protect with spiral rabbit guards 60cm in height supported by cane. 1.2m High timber post and 3 wire fence installed into southern side of acoustic bound to reduce likelihood of people walking over bund during establishment.

AMENITY GRASS
Front gardens and POS adjacent to house plot frontages be turfed with: Rowlawn medallion turf
Rear Gardens to be rotovated topsoil - refer to garden preparation policy for best practice to avoid smearing and water logging.

General POS / Amenity areas to be seeded or turfed with:
DLF Trifolium Pro Master 50 Mix Quality Lawn/Landscape or equivalent
20% Conrad - Perennial Ryegrass 35% Evita - Perennial Ryegrass
20% Herald - Strong Creeping Red Fescue 10% Calliope - Chewing fescue
10% Reggae - Slender-creeping Red-fescue 5% Highland - Brown-top Bent

BASIC GENERAL PURPOSE MEADOW MIXTURE TO ACCOUSTIC BUND
(Such as Emorsgate EM1 or similar)
Mixture EL1 is a simple meadow mixture suitable for a wide range of soil types. The wild flowers are robust and showy, and the grasses are fine and slow growing.
Sow at a rate of 4g m².

MEADOW MIXTURE FOR ATTENUATION BASINS AND BIO RETENTION VERGES
(Such as Emorsgate EM8 or similar)
EM8 contains species suitable for seasonally wet soils and is based on the vegetation of traditional floodplain and water meadows. Soils in wet meadows may flood for short periods in winter, but are usually well drained in summer.

Scale

0 1 2 3 5 10 20 40

General Planting Notes

SPECIFICATION
Please refer to accompanying Outline Planting Specification on drawing 21360.1003 Sheet 3 of 3.

IMPLEMENTATION PROGRAMME
Rootballed trees, containerised planting stock and bareroot hedges to be planted within dormant season (Nov -March) within the first planting season following completion of the building works. Grass seed to be sown in the first spring following completion of the building and planting works, or turf can be laid any time of the year during suitable weather conditions.

GARDEN PREPARATION POLICY
All groundworks in the vicinity of and soil handling, spreading operations to front and rear gardens across site to be in accordance with Bellways Garden Preparation Policy. Refer to group technical good practice guide - Avoiding Waterlogged Gardens.

TOPSOILING OPERATIONS
All top soiling to general planting and grass areas to be in accordance with the specification. All topsoil supplied to site shall be free or pernicious weeds and roots, clay lumps, non-soil materials or other building materials. Topsoil shall be spread evenly over areas and settlement accounted for in depth calculations. Topsoil is to be spread in layers and firmed when the material is reasonably dry. All soil finishes should be married in with existing adjacent levels to form a consistent join.

Minimum topsoil depths are as follows;
Grass and Acoustic bund meadow grass areas 150 mm
Shrubs 400 mm
Trees backfill with 300 mm depth, or backfilled to rootball depth + 100 mm using topsoil subsoil mix if smeared clay is present in pit or soil is identified as contaminated.

Root Available Soil Volume Calculations

TREES	Species	Height	Spread	Source	Soil. Volume m ³
ACS	Acer campestre 'Streetwise'	7m	3m	Hilliers	4.24
AF	Acer x freemanii	10m	4m	Hilliers	7.53
AFA	Acer x freemanii 'Armstrong'	10m	3m	Hilliers	4.24
AL	Amelanchier lamarckii	8m	3m	Hilliers	4.24
AR	Acer rubrum 'Armstrong'	10m	3m	Hilliers	4.24
ARS	Acer rubrum 'Scanlon'	9m	6m	Hilliers	16.96
BN	Betula nigra	11m	6m	Hilliers	16.96
BP	Betula pendula	10m	6m	Hilliers	16.96
CB	Carpinus betulus	10m	5m	Hilliers	11.78
CBF	Carpinus betulus 'Frans Fontaine'	9m	2.5m	Hilliers	4.24
GT	Gleditsia triacanthos var. 'Draves'	15m	5m	Hilliers	11.78
LO	Liquidambar orientalis	10m	4m	Hilliers	7.53
LS	Liquidambar styraciflua	10m	5m	Hilliers	11.78
LSS	Liquidambar 'Slender Silhouette'	10m	4m	Hilliers	7.53
ML	Magnolia Leonard Messel	6m	6m	RHS	16.96
SAS	Sorbus aucuparia 'Street Wise'	7m	3m	Hilliers	4.24
SV	Sorbus vilmorinii	8-12	4m (2.5-4)	RHS	7.53
TC	Tilia cordata	10m	6m	Hilliers	16.96
TCG	Tilia cordata 'Greenspire'	10m	5m	Hilliers	16.9



Llanwern Phase 4H - Alder Grove Site Landscape Proposals

Key

- Red Line Boundary
- Proposed Tree (Root protection barrier indicated)
- Proposed shrub and hedge planting
- Acoustic bund planting
- Amenity grass
- Meadow grass to acoustic bund
- Meadow grass to attenuation basin and bio-retention verges
- Gravel chippings (Limestone 20mm ag. size chippings)
- Garden tree rooting area (area stated)
- Street tree rooting area (area stated)
- Soil tree rooting area (area stated)

Notes

- Do not scale directly from this drawing.
- This drawing is to be read in conjunction with all other relevant MHP drawings and information supplied by other consultants.
- Hatch patterns displayed on this drawing are indicative only and do not represent actual paving units or material sizes.
- All tree planting in proximity to buildings to be checked by engineers to ensure foundation detailing is appropriate.

Project:	Llanwern, Phase 4H - Alder Grove
Client:	Bellway Homes (Wales) Ltd
Title:	Site Landscape Proposals
Sheet 1 of 3	
Drawing number:	21360.1001
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Checked By:	PSH
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CHARTERED LANDSCAPE ARCHITECTS

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