

**GRASSWORKS SCHEDULE - TURF, PRE-SEED SOIL & SEEDING**

**WILDFLOWER TREATMENT - Emorgate EM2F Standard General Purpose Wild**  
 Product code: Emorgate EM2F Standard General Purpose Wild  
 Total approx. area 3,055 m<sup>2</sup>  
 Sowing Rate: 1.5 g/m<sup>2</sup>

EM2F is a mixture containing 100% native wildflowers for sowing into existing grass. This wildflower mixture contains species that are characteristic of traditional meadows and grassland across a wide range of soil types.

Mix made up of 15 UK native wildflowers, 100% wildflowers (REGULAR MANAGEMENT OF GRASSLAND PROPOSED)

Wild Flowers - 100%	Common name
<i>Achillea millefolium</i>	Yarrow
<i>Agropyron repens</i>	Agropyron
<i>Centaurea nigra</i>	Common Knapsweed
<i>Dianthus carota</i>	Wild Carrot
<i>Rumex acetosa</i>	Common Sorrel
<i>Galium verum</i>	Lady's Bedstraw
<i>Knautia arvensis</i>	Field Scabious
<i>Lucentherum vulgare</i>	Oxeye Daisy
<i>Malva moschata</i>	Musk Malow
<i>Plantago lanceolata</i>	Ribwort Plantain
<i>Pteridium aquilinum ssp. sarracense</i>	Selagin
<i>Primula veris</i>	Cowslip
<i>Ranunculus acris</i>	Meadow Buttercup
<i>Stellaria media</i>	Red Campion
<i>Rhinanthus minor</i>	Yellow Rattle

**WOODLAND BIODIVERSITY ENHANCEMENT WILDFLOWER SEED MIX**  
 PROPOSED WOODLAND OVER SEEDING  
 Mix: Emorgate EW1 - WOODLAND MIXTURE  
 Total approx. area 315 m<sup>2</sup>  
 Sowing Rate: 4 g/m<sup>2</sup>

Wild Flowers - 20%	Common name
<i>Alfalfa pratensis</i>	Garlic Mustard
<i>Alfalfa sativa</i>	Ramsons
<i>Anthriscus sylvestris</i>	Cow Parsley
<i>Actium minus</i>	Lesser Burnick
<i>Acum maculatum</i>	Lords-and-Ladies
<i>Chaerophyllum temulum</i>	Rough Chervil
<i>Cuscuta topepra</i>	Crowfoot
<i>Digitalis purpurea</i>	Floeglove
<i>Filipendula ulmaria</i>	Meadowweet
<i>Geum urbanum</i>	Wood Awns
<i>Hydrocotyle non-scripta</i>	Burnet
<i>Hei foetidissima</i>	Jack-in-the-box
<i>Funaria hygrophana</i>	Selagin
<i>Stellaria media</i>	Red Campion
<i>Trisetum scariosum</i>	Wood Sage
<i>Tortula spicata</i>	Upright hedge-parnsley

Grasses - 80%	Common name
<i>Agrostis capillaris</i>	Common Bore
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass (w)
<i>Bachypodium sylvaticum</i>	Crested Dogtail
<i>Cynopsis cristata</i>	Tufted Hair-grass (w)
<i>Deschampsia cespitosa</i>	Red Fescue
<i>Poa nemoralis</i>	Wood Meadow-grass

**PLANT SCHEDULE**

Trees marked position each with two post and timber crossbar installed with arb strapping and clear spiral rabbit guard with the exception of multi-stem specimens.

QUANTITY	SPECIES	TYPE	HEIGHT cm	GIRTH cm	FORM
6 No.	<i>Acer campestre</i>	Std	350-450cm	12-14cm	CC
3 No.	<i>Alnus glutinosa</i>	Std	350-450cm	12-14cm	CC
4 No.	<i>Carpinus betulus</i>	Std	350-450cm	12-14cm	CC
30 No.	<i>Corylus avellana</i>	Std	175-200cm	Multi-stem	CC
87 No.	<i>Crataegus monogyna</i>	Std	175-200cm	Multi-stem	CC
4 No.	<i>Malus sylvestris</i>	Std	350-450cm	12-14cm	CC
8 No.	<i>Prunus avium</i>	Std	350-450cm	12-14cm	CC

**UK NATIVE MIXED SPECIES HEDGE - Total length of mixed hedge throughout the scheme 43.3m**  
 Double staggered row - 5 per metre for bareroot stock. Planting in species groups of 3 excluding Ilex and Rosa. All whip planting to be installed with Mini Rainbow Treeco Biodegradable Vole Spiral Guard and 900mm canes with the exception of Ilex aquifolium and Rosa canina which should be installed with plastic mesh guard and sawn timber stake.  
 Dressed with 75mm organic bark mulch each at base.

PERCENTAGE	QUANTITY	SPECIES	HEIGHT cm	TYPE	SIZE
2%	12 No.	<i>Carpinus betulus</i>	90-120	BR	-
2%	12 No.	<i>Cornus sanguinea</i>	60-80	BR	-
20%	45 No.	<i>Corylus avellana</i>	60-80	BR	-
40%	100 No.	<i>Crataegus monogyna</i>	90-120	BR	-
15%	30 No.	<i>Ilex aquifolium</i>	20-30	CC	2x
2%	7 No.	<i>Lonicera periclymenum</i>	60-80	CC	2x
5%	12 No.	<i>Malus sylvestris</i>	40-60	BR	-
3%	7 No.	<i>Rosa canina</i>	40-60	BR	-

Stock Total: 235

**WOODLAND BIODIVERSITY ENHANCEMENT PLANTING MIX**  
 Planted randomly throughout mix in species groups of 3 or 5 together. Planting density / spacing at 1000mm centres & within gaps. All whip planting to be installed with Bio-Earth Biodegradable Plastic-Free Tree Shelter Guard and Treated Sawn Stakes with the exception of Ilex aquifolium & Pinus sylvestris which should be installed with plastic mesh guard and sawn timber stake. Mulch application to base of all planting approx. 0.2m<sup>2</sup> (spilling for woodland seed mix application).  
 Approx. Area 315 m<sup>2</sup>

PERCENTAGE	QUANTITY	SPECIES	SIZE (MM)	TYPE	SPACING (MM)
30%	103 No.	<i>Cornus sanguinea</i>	600-800	BR	1000
20%	68 No.	<i>Cornus avellana</i>	600-800	BR	1000
20%	103 No.	<i>Crataegus monogyna</i>	600-800	BR	1000
10%	34 No.	<i>Ilex aquifolium</i>	600-800	CC	1000
10%	32 No.	<i>Malus sylvestris</i>	400-600	BR	1000
10%	32 No.	<i>Prunus avium</i>	900-1200	BR	1000
3%	10 No.	<i>Sorbus aucuparia</i>	600-800	BR	1000
3%	12 No.	<i>Sorbus torminalis</i>	900-1200	BR	1000
2%	7 No.	<i>Sorbus torminalis</i>	400-600	BR	1000

Stock 514

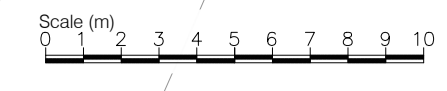
**TREE PIT SANDRIES / SPECIFICATION**

Tree pit sandries available from Green Blue Urban: <http://www.greenblue.com.au/> (or similar)

25 x Large A/Bs required in total

TREES	QUANTITY	SPECIES	HEIGHT cm (at PLANTING)	GIRTH cm (at PLANTING)	PROJECTED CANOPY COVER AREA m <sup>2</sup> (@ 25%)
6 No.	<i>Acer campestre</i>	350-450cm	13-14cm	39.20 m <sup>2</sup>	
3 No.	<i>Alnus glutinosa</i>	350-450cm	12-14cm	24.00 m <sup>2</sup>	
4 No.	<i>Carpinus betulus</i>	350-450cm	12-14cm	13.30 m <sup>2</sup>	
4 No.	<i>Malus sylvestris</i>	350-450cm	12-14cm	18.90 m <sup>2</sup>	
8 No.	<i>Prunus avium</i>	350-450cm	12-14cm	40.40 m <sup>2</sup>	

Tree Pit Irrigation System:  
 25 x 1/2" (12.5mm) round stake kits with half round cross bar, rubber A/B block and strapping.  
 Tree Pit Irrigation System:  
 25 x RoorRain Urban: The RoorRain Urban is a large capacity irrigation system with a fixed grid base, particularly suited to open spaces and roadside verge tree planting in softscape.  
 Spec: Length 3m Diameter 60mm Inlet (Stainless Steel) 80mm Weight: 1kg



**KEY**

**soft landscape**

- EXISTING RETAINED TREES: Retained trees and canopy boundary of existing trees, shrubs & hedges positioned approximately from the existing site.
- PROPOSED TREE PLANTING: Standard tree planting proposed. Minimum 400mm depth of specific purpose free draining topsoil to BS 3882:2015 for tree planting (see Plant Schedule for further details & quantities of trees).
- PROPOSED TREE PLANTING: PROJECTED CANOPY AT 25 YEARS FROM PLANTING: Proposed canopy radius and canopy m<sup>2</sup> shown by dashed line. (see - Projected Canopy Cover Schedule for further details).
- HEDGE PLANTING - SINGLE & MIXED UK NATIVE SPECIES: Staggered Double rows, 5 plants per linear metre for bareroot stock. Installed with Mini Rainbow Treeco Biodegradable Vole Spiral Guard and 900mm canes. (see Plant Schedule for further details).
- WOODLAND BIODIVERSITY ENHANCEMENT PLANTING MIX: Staggered planting rows with max installed at 2000mm centres. Minimum 200mm depth of imported specific purpose free draining topsoil to BS 3882:2015 for each planting pit (see Plant Schedule for further details).
- GRASSWORKS - EXISTING GRASSWORKS / PADDOCK GRASS OVERSEEDED BY WILDFLOWER SEED MIX: Emorgate EM2F Standard General Purpose Wild. Areas of proposed mix applied upon existing grassland. REGULAR MANAGEMENT OF GRASSLAND PROPOSED - ONCE A YEAR (see Grassworks Schedule for further details).
- EXISTING RETAINED GRASS TREATMENT / PADDOCK
- GRASSWORKS - BOUNDARY SCREENING BUFFER & BIODIVERSITY ENHANCEMENT PLANTING MIX WOODLAND WILDFLOWER SEED MIX: Emorgate EW1 - Woodland mixture. Areas of proposed mix applied upon a minimum depth of 300mm specific purpose free draining topsoil to BS 3882:2015. Soil leveled and prepared to a fine tilth prior to sowing. NON REGULAR MANAGEMENT OF GRASSLAND PROPOSED (see Grassworks Schedule for further details).

**hard landscape**

- HARD LANDSCAPE - PROPOSED HOGGIN PATHWAY - Permeable: Proposed loose stone Hoggin chipping pathway (Permeable construction with treated timber edge system). Product: Hoggin Footpath Gravel Laid: Loose and compacted in situ. To Structural Engineer & Drainage Consultants specification.
- EXISTING RETAINED & ENHANCED CRUSHED CONCRETE SURFACE ACCESS TRACK

**boundary treatments**

PROPOSED 1.2m Square chestnut post and two cleft chestnut rail fence system

All works to conform to BS 5837:2012 Trees in relation to design, demolition and construction. Plus conforming to arboricultural method statements.  
 BS 4428:1989 Code of practice for general landscape operations (excluding hard surfaces)  
 BS 8545:2014 Trees: from nursery to independence in the landscape. Recommendations  
 ASTM D5268 - 13 Standard Specification for Topsoil Used for Landscaping Purposes  
 NOTE: This drawing indicates design arrangement only. All works to be undertaken in accordance with best practice and all current BS & Building Regulations. Do not scale from drawing. Use figured dimensions only after checking. Drawing to be printed and read in colour only.

A:	Landscape amendments for BNG calculation tweaks	04.12.23
Rev:	Description:	Date:

Client: TERRAFORTE, Ms L

Project Name:  
 LAND SOUTH OF THE DEN  
 RICHBOROUGH ROAD  
 SANDWICH  
 KENT  
 CT13JUG

Drawing title: LANDSCAPE MASTERPLAN

Drawing no: PJC.1229.00 Rev: A

Scale: 1:200 at A1 Date: 22.11.2023

Drawn by: TR Designed by: TR

**PJC** CONSULTANCY

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