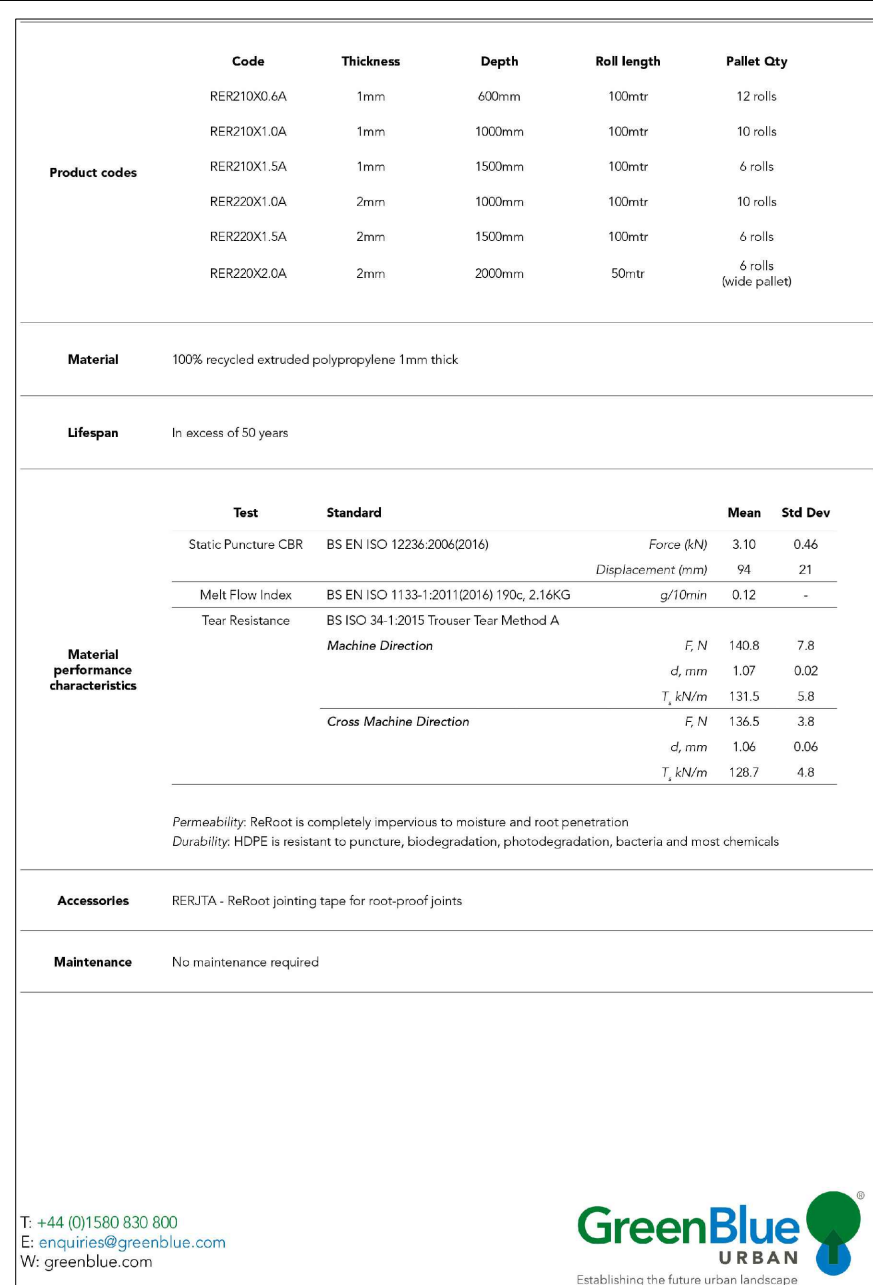


D-1 Root Protection Barrier
1:20



1:20

Diagram illustrating a tree support system for a young tree, showing a cross-section view and a photograph of the installation.

Diagram Labels:

- Strap and spacer, 3m, secured to top of stake and tree stem
- 75mm diameter softwood stake, 3m, treated with preservative at a lower end
- Trunk collar 30mm above the finished ground grade
- Circular water dam around tree 7-10cm high
- Rootball typically 600x400 mm min 0.5m
- 2 x Rootball diameter min
- Backfill with topsoil / amended topsoil
- Mounded compacted native soil

Dimensions:

- 1.20 (height of stake above ground)
- 1.00 (width of water dam)
- 0.05 (width of stake)
- 0.15 (width of rootball)
- 1.50 (height of stake below ground)

Photograph:

A photograph showing a young tree supported by a wooden stake and strap, with a circular water dam around the base.

1:20

Typical section

shrub

mulch layer: 10cm

no more than 2.5cm of mulch on top of root ball

round topped soil berm around the root ball, 10cm high, 20cm wide

finished grade

modified soil (depth varies)

root ball, rests on existing or re-compacted soil

existing soil

Notes:

1. Shrubs shall be of the prescribed size and quality.
2. Prior to mulching, lightly consolidate soil around the root ball in 15cm lifts to brace shrub. Do not over compact.
3. When the planting hole has been backfilled, pour water around the root ball to settle the soil.
4. See specifications for further requirements

Figure 1 illustrates the placement of three signs (1 sign, 2 signs, 1 sign) on a road with a width of 1.00 and a height of 1.00. The signs are placed at the top, middle, and bottom of the road, with a 0.50 offset from the center line.

Trees

Acer campestre
Common Maple
Tree

Alnus glutinosa
Common Alder
Tree

Amelanchier lamarckii
Juniberry
Tree

Betula pendula
Common Silver Birch
Tree

Viburnum lantana
Wayfaring Tree
Shrub

Viburnum opulus
Guelder Rose
Shrub

Viburnum opulus 'Roodsum'
Snowball Tree
Shrub

Herbaceous

Asclepias syriaca
Butterfly
Herbaceous

Asplenium adnigrum
Butterfly
Herbaceous

Asplenium adnigrum
Butterfly
Herbaceous

Asplenium adnigrum
Butterfly
Herbaceous

Asplenium adnigrum
Butterfly
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Asplenium adnigrum
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Asplenium adnigrum
Butterfly
Herbaceous

Asplenium adnigrum
Butterfly
Herbaceous

Shrubs

Berberis amurensis
White-barked Himalayan Birch
Tree

Berberis amurensis
Common Hornbeam
Tree

Berberis amurensis
Common Hawthorn
Tree

Berberis amurensis
Common Crab Apple
Tree

Berberis amurensis
Common Crab Apple
Tree

Berberis amurensis
Common Crab Apple
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Berberis amurensis
Common Crab Apple
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Common Crab Apple
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Berberis amurensis
Common Crab Apple
Tree

Berberis amurensis
Common Crab Apple
Tree

Berberis amurensis
Common Crab Apple
Tree

Climbers

Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

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Hedera helix
Common Ivy
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Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

Hedera helix
Common Ivy
Climber

Shrub mixes

S-3

S-6A

S-6B

NATIVE HEDGE MIX

1	<i>Acer campestre</i>	15%
2	<i>Corulus amomum</i>	15%
3	<i>Corylus monspeliensis</i>	10%
4	<i>Bux sempervirens</i>	5%
5	<i>Prunus spinosa</i>	10%
6	<i>Rosa canina</i>	15%
7	<i>Viburnum lantana</i>	15%
8	<i>Viburnum opulus</i>	15%

GROUND COVER FOR SHA

1	<i>Agrostis alba</i>	15%
2	<i>Epilobium angustatum</i>	25%
3	<i>Geranium robertianum</i>	15%
4	<i>Polypodium vulgare</i>	25%
5	<i>Vicia cracca</i>	20%

GROUND COVER FOR SH

1	<i>Geranium robertianum</i>	15%
2	<i>Epilobium angustatum</i>	25%
3	<i>Geranium robertianum</i>	15%
4	<i>Polypodium vulgare</i>	25%
5	<i>Vicia cracca</i>	20%

Trees		Specification	Density
2	<i>Alnus glutinosa</i>	Selected Standard 4 brks; 2x: RB; Clear Stem min. 200cm	Counted
5	<i>Amelanchier lamarckii</i>	Selected Standard 5 brks; 2x: RB; Clear Stem 175-200cm	Counted
13	<i>Betula pendula</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
14	<i>Betula utilis incoquemi</i>	Selected Standard 5 brks; 2x: RB; Clear Stem 175-200cm	Counted
15	<i>Salix purpurea</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
17	<i>Prunus x subhirtella 'Autumnalis'</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
2	<i>Quercus robur</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
3	<i>Salix caprea</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
5	<i>Sorbus torminalis</i>	Selected Standard 4 brks; 2x: RB; Clear Stem 175-200cm	Counted
Shrubs			
Number	Species	Pot Size/Height	Specification
101	<i>Brachyglottis 'Sunshine'</i>	2L	Branches 3 brks; C
149	<i>Calluna vulgaris</i>	2L	Bushy 5 brks; C
246	<i>Carpinus betulus</i>	2L	1+1 Transplant - seed raised; Branches 3 brks; C
100	<i>Chrysia lemnis 'Sundance'</i>	2L	Bushy 3 brks; C
114	<i>Cotula x cornubianensis</i>	2L	Bushy 3 brks; C
81	<i>Cornus alba</i>	2L	Branches 2 brks; C
63	<i>Cornus strobilifera 'Flaviramea'</i>	2L	Bushy 3 brks; C
2	<i>Cornus avellana</i>	10L	80-100cm; Branches 4 brks; C
9	<i>Eucornus europaeus</i>	10L	80-100cm; Branches 6 brks; C
268	<i>Eucornus japonicus 'Braun'</i>	2L	Branches 3 brks; C
221	<i>Eucornus japonicus 'Jean Hugues'</i>	2L	80-100cm; Branches 7 brks; C
81	<i>Hier. rakensis</i>	2L	Branches 3 brks; C
9	<i>Hydrangea macrophylla 'Blue Wave'</i>	2L	Branches 3 brks; C
23	<i>Hydrangea macrophylla 'White Wave'</i>	2L	Branches 3 brks; C
147	<i>Lavandula x intermedia 'Abel'</i>	2L	Branches 5 brks; C
119	<i>Lavandula x intermedia 'Dutch'</i>	2L	Branches 5 brks; C
147	<i>Lavandula x intermedia 'Sappaphire'</i>	2L	Branches 5 brks; C
147	<i>Lyceostima Kermosa</i>	2L	Branches 5 brks; C
12	<i>Philadelphus 'Mantel d'Hermine'</i>	5-7.5L	Branches 5 brks; C
2	<i>Prothia x fraseri 'Little Red Robin'</i>	2L	Branches 5 brks; C
9	<i>Prothia x fraseri 'Pink Marble'</i>	3L	Branches 6 brks; C
20	<i>Prothia x fraseri 'Red Prostratus'</i>	3L	Branches 6 brks; C
88	<i>Rosa 'Princess of Wales'</i>	2L	Branches 5 brks; C
35	<i>Rosmarinus officinalis 'Prostratus'</i>	2L	Branches 5 brks; C
1	<i>Sambucus nigra</i>	2L	Branches 5 brks; C
120	<i>Sarcococca hortiandra 'Glenayre'</i>	3L	Branches 5 brks; C
167	<i>Skimmia x koreanica 'Deep Green'</i>	3L	Branches 4 brks; C
5	<i>Viburnum opulus</i>	2L	Branches 5 brks; C
6	<i>Viburnum opulus 'Roseum'</i>	2L	Branches 3 brks; C
4	<i>Viburnum opulus 'Roseum'</i>	3L	Branches 4 brks; C
Herbaceous			
Number	Species	Pot Size	Specification
54	<i>Actaea simplex 'Brunella'</i>	2L	Full Pot; C
256	<i>Astille 'Deutschland'</i>	2L	Full Pot; C
49	<i>Bergenia 'Stierich'</i>	2L	Full Pot; C
11	<i>Bergenia cordifolia</i>	2L	Full Pot; C
51	<i>Bergenia cordifolia 'Purpurea'</i>	2L	Full Pot; C
117	<i>Hosta 'Valerian'</i>	2L	Full Pot; 1 or 2 Buds; C
244	<i>Hosta 'Royal Standard'</i>	2L	Full Pot; 1 or 2 Buds; C

 turf cover in rear gardens

**High-quality, multi-purpose
ryegrass/fescue natural turf**

Supplier: Medallion Turf, Rolown

***or similar approved**

Each roll covers around 1m²

Typical roll dimensions:
610x1640mm, 12.5mm depth

flowering lawn mix

El1: Flowering Lawn Mixture
Supplier: Emorsgate
 *or similar approved
Sowing Rate: 4g/m²

EW1 Woodland Mixture
Supplier: Emorsgate
 *or similar approved
 Sowing Rate: 4g/m²

EH1 Hedgerow Mixture
Supplier: Emorsgate
 *or similar approved
 Sowing Rate: 4g/m²

Supplier: Emorsgate
*or similar approved
Sowing Rate: 4g/m²

EM2: Standard General Purpose
Meadow Mixture
Supplier: Emorsgate
*or similar approved
Sowing Rate: 4g/m²