

PLANTING SCHEDULE

Conifers			
Number	Species	Specification	Density
14	Pinus sylvestris	Standard :Clear Stem 175-200 :BR	Counted

Trees						
Number	Species	Height	Girth	Pot Size	Specification	Density
31	Acer campestre	1.5-1.8m	6-8cm		BR	Counted
20	Acer campestre	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
4	Alnus glutinosa	1.5-1.8m	6-8cm		BR	Counted
69	Alnus glutinosa	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
76	Betula pendula	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
18	Carpinus betulus	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
30	Crataegus monogyna	1.5-1.8m	6-8cm		BR	Counted
12	Crataegus monogyna	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
25	Frangula alnus	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
7	Malus sylvestris	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
60	Populus nigra	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
7	Populus nigra	1.5-1.8m	6-8cm		BR	Counted
8	Prunus avium	1.5-1.8m	6-8cm		BR	Counted
33	Prunus avium	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
10	Prunus padus	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
7	Prunus spinosa	1.5-1.8m	6-8cm		BR	Counted
14	Prunus spinosa	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
9	Pyrus calleryana 'Chanticleer'	2.5-3.0m	12-14cm		Standard :Clear Stem 175-200 :BR	Counted
24	Quercus palustris	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
2	Quercus robur	1.5-1.8m	6-8cm		BR	Counted
58	Quercus robur	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
5	Salix caprea	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
16	Salix fragilis	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
3	Sorbus aucuparia	1.5-1.8m	6-8cm		BR	Counted
48	Sorbus aucuparia	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted
3	Sorbus aucuparia 'Cardinal Royal'	2.5-3.0m	12-14cm		Standard :Clear Stem 175-200 :BR	Counted
31	Sorbus torminalis	2.5-3.0m	10-12cm		Standard :Clear Stem 175-200 :BR	Counted

Native Hedge Mix 1					
Number	Species	Specification	Density	Percentage Contribution	Pot Size
327	Alnus glutinosa	1+1: Transplant - seed raised: B	3/m	5%	
643	Corylus avellana	1+1: Transplant - seed raised: Branched: 2 brks: B	3/m	10%	
2526	Crataegus monogyna	1+1: Transplant - seed raised: B	3/m	40%	
327	Ilex aquifolium	Leader with Lateral: C	3/m	5%	2L
1270	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	3/m	20%	
643	Rhamnus frangula	1+1: Transplant - seed raised: Leader with Lateral: 3 brks: B	3/m	10%	
327	Rosa canina	1+1: Transplant - seed raised: Provenance UK Area 304: B	3/m	5%	
327	Viburnum opulus	1+1: Transplant - seed raised: Branched: 2 brks: B	3/m	5%	
Total :6390					

Native hedge Mix 2 (Security)							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
128	Corylus avellana	1+1: Transplant - seed raised: Branched: 2 brks: B		40-60cm	3/m	5%	
1255	Crataegus monogyna	1+1: Transplant - seed raised: B		40-60cm	3/m	50%	
128	Ilex aquifolium	Leader with Lateral: C	2L	40-60cm	3/m	5%	
879	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B		40-60cm	3/m	35%	
128	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B		60-80cm	3/m	5%	
Total :2518							

Shrub Mix 1							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
129	Cornus alba 'Sibirica'	Branched: 3 brks: C	3L	40-60cm	4/m²	10%	
369	Sarcococca hookeriana digyna	Bushy: 6 brks: C	3L	20-30cm	4/m²	30%	
248	Stipa arundinacea	Full Pot: C	2L		4/m²	20%	
488	Vinca minor	Several Shoots: 3 brks: C	2L		4/m²	40%	
Total :1234							

Shrub Mix 1							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
129	Cornus alba 'Sibirica'	Branched: 3 brks: C	3L	40-60cm	4/m²	10%	
369	Sarcococca hookeriana digyna	Bushy: 6 brks: C	3L	20-30cm	4/m²	30%	
248	Stipa arundinacea	Full Pot: C	2L		4/m²	20%	
488	Vinca minor	Several Shoots: 3 brks: C	2L		4/m²	40%	
Total :1234							

Shrub Mix 2							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
144	Hebe rakaiensis	Bushy: 5 brks: C	3L		4/m²	20%	
181	Lonicera pileata	Bushy: 6 brks: C	3L		4/m²	25%	
109	Pennisetum alopecuroides	Full Pot: C	2L		4/m²	15%	
181	Spiraea japonica 'Genpei'	Bushy: 6 brks: C	3L	30-40cm	4/m²	25%	
109	Viburnum tinus	Bushy: 4 brks: C	3L	30-40cm	4/m²	15%	
Total :724							

Shrub Mix 3							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
383	Ceanothus thyrsiflorus 'Skylark'	Caned: Leader with Lateral: 6 brks: C	3L	60-80cm	4/m²	20%	
289	Miscanthus sinensis 'Morning Light'	Full Pot: C	2L		4/m²	15%	
193	Osmanthus x burkwoodii	Bushy: 4 brks: C	3L	30-40cm	4/m²	10%	
289	Perovskia 'Blue Spire'	Bushy: 3 brks: C	3L	30-40cm	4/m²	15%	
289	Potentilla fruticosa 'Primrose Beauty'	Bushy: 4 brks: C	3L		4/m²	15%	
193	Rosa 'Snow Carpet'	Bushy: 5 brks: C	3L	40-60cm	4/m²	10%	
289	Salix repens argentea	Branched: 5 brks: C	3L	40-60cm	4/m²	15%	
Total :1925							

Native Shrub Mix (Scrub)							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contribution	
460	Cornus sanguinea	Branched: 4 brks: C	3L	40-60cm	4/m²	10%	
460	Crataegus x prunifolia	Feathered: 3 brks: 2x: B		150-175cm	4/m²	10%	
460	Euonymus europaeus	Branched: 4 brks: C	3L	40-60cm	4/m²	10%	
690	Hippophae rhamnoides	Branched: 5 brks: C	3L	40-60cm	4/m²	15%	
231	Ilex aquifolium	Bushy: 3 brks: C	3L	40-60cm	4/m²	5%	
231	Rhamnus cathartica	Leader with Lateral: 3 brks: C	2L	40-60cm	4/m²	5%	
460	Rosa canina	Branched: 5 brks: C	3L	40-60cm	4/m²	10%	
231	Rubus 'Betty Ashburner'	Branched: 5 brks: C	3L		4/m²	5%	
460	Salix phylicifolia	Bushy: 5 brks: C	3L	40-60cm	4/m²	10%	
690	Viburnum lantana	Branched: 4 brks: C	3L	30-40cm	4/m²	15%	
231	Vinca major	Several Shoots: 3 brks: C	3L		4/m²	5%	
Total :4604							

Bulbs within Grass Areas					
Number	Abbreviation	Species	Specification	Density	Percentage Contribution
346	A b 'B S'	Anemone blanda 'Blue Shades'	Grade 5/6	12/m²	10%
346	CAM CAE	Camassia leichtlinii 'Caerulea'	Grade 5/7	12/m²	10%
854	CRO PEA	Crocus chrysanthus 'Blue Pearl'	Grade 5/7	12/m²	25%
854	G n	Galanthus nivalis	Grade 5/6	12/m²	25%
514	N 'T'	Narcissus 'Thalia'	Grade 8/10	12/m²	15%
514	TUL NEG	Tulipa 'Negrita'	Grade 6/8	12/m²	15%
Total :3428					

Aquatic Marginal Mix							
Number	Species	Specification	Pot Size	Height	Density	Percentage Contributio	
261	Achillea ptarmica 'Perrys White'	Full Pot: British Native-origin: C		0.5L	6.25/m²	5%	
602	Angelica gigas	Full Pot: C		0.5L	6.25/m²	12%	
159	Apium nodiflorum	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	3%	
261	Caltha palustris	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	5%	
751	Centaurea nigra	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	15%	
507	Eupatorium cannabinum	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	10%	
159	Filipendula ulmaria	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	3%	
261	Lotus pedunculatus	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	5%	
261	Lycopus europaeus	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	5%	
159	Mertha aquatica	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	3%	
159	Pulicaria dysenterica	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	3%	
751	Ranunculus acris 'Flore Plena'	Full Pot: British Native-origin: C		0.5L	6.25/m²	15%	
310	Silene flos-cuculi	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	6%	
261	Succisa pratensis	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	5%	
261	Vicia cracca	Full Pot: Sept to April planting: British Native-origin: C	0.5L		6.25/m²	5%	
Total :5123							

GENERAL GUIDANCE

Timing

Ground preparation to be undertaken in advance of all planting and seeding. No soil handling to be undertaken when the soil is wet to the extent that loss of structure would occur.

Planting to be carried out in the first planting season following completion of the development (between December and March inclusive) unless by prior agreement with the Local Planning Authority. Seeding of grassed areas to be undertaken in autumn.

Best practice

All soil handling and storage to be undertaken in accordance with the following British Standard Specifications and Code of practice:

- BS 1377: 1990 *Soils for Civil Engineering Purposes*
- BS 8601: 2013 *Specification for Subsoil and Requirements for Use*
- BS 3882: 2015 *Specification for Topsoil*
- Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (DEFRA)

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:

- BS 3936:1992 Part 1 *Nursery Stock - Specification for trees and shrubs*;
- BS 3936:1981 Part 10 *Nursery Stock - Specification for ground cover plants*;
- BS 3936:1998 Part 9: *Nursery Stock - Specification for Bulbs, Corms, and Tubers*;
- BS 4428:1989 - *Code of Practice for General Landscaping Operations* (excluding hard surfaces);
- BS 8545: 2014 *Trees from nursery to independence in the landscape*; and
- The Code of Practice for Plant Handling 2002* (Horticultural Trades Association).

Planted Stock quality

General

All stock must comply with the **Nicholsons Biosecurity Statement**.

Standard Trees

Tree form and overall condition, including root condition, to be in accordance with BS 8545: 2014 *Trees from nursery to independence in the landscape*. All trees are to be inspected prior to planting by a suitably qualified third party.

Plants and Shrubs

Plant stock to be supplied in accordance with the size and description specified on the plant schedule. Plants to be healthy, vigorous, free from pests and diseases, suitably hardened off for the proposed situation of planting, and lifted at a time in accordance with good nursery practice. Stock shall have a well-formed fibrous root system and be free from perennial weeds.

Bulbs to be true to name, free of pests and pathogens, and of the correct approved size for the species. The following information must be made available upon request:

- The botanical name, genus, species and cultivar, and, if appropriate, the colour or the designation 'mixed';
- The number of bulbs/plants;
- The size class;
- Any preparatory treatment that has been carried out (for example, pre-treatment for Christmas flowering);
- Any recommendation regarding appropriate planting periods and any requirements for special conditions.

Ground preparation

Compliance:

- Topsoil to comply with BS 3882.
- Subsoil to comply with BS 8601.
- Operations to comply with Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (DEFRA).

Cultivation of Grassed Areas

Topsoil to be cultivated to a fine tilth, and be free from weeds, contaminants, stones over 50mm, and any other debris. Levels to be graded to form agreed finished levels and be free of local mounds and depressions.

Cultivation of Shrub Beds and Tree Pits

When shrub beds and tree pits occur in large grass areas, formation levels should be prepared at the specified depth for grass over the whole area. Further excavation should be subsequently carried out to the additional depth for shrub and tree planting.

In all cases, the soil profile is to be maintained when replacing.

Handling stock

Trees

All standard trees to be lifted, labelled, handled, transported, and temporarily stored in accordance with the procedures and methods illustrated in chapter 9 of BS 8545: 2014

Shrubs and smaller nursery stock

All plant stock to be lifted, bundled, labelled, packaged, transported, stored and planted in accordance with the procedures and methods illustrated in "Plant Handling" (Horticultural Trades Association).

Bare root stock

All plant stock to be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in chapter 9 of BS 8545: 2014.

Plants to be delivered to site in quantities that can be planted the same day. Any unplanted stock is to be stored overnight in a covered location within nursery bags, or heeled in trenches, and is to be well watered. Desiccated root systems will not be accepted.

Planting operations

General

Planting to be undertaken between December and March inclusive during suitable weather conditions. All planted stock to be watered on same day to field capacity.

Standard Trees

Pits to be excavated to twice the diameter of the root system, container, or root ball, deep enough to accommodate the full root system to the base of the main stem following settlement. Trees must not be planted too deep.

Sides of pit to be scarified by 200mm. Base to be punctured without breaking up soil.

Tree to be centrally located and stem placed in an upright position. Back-fill with excavated material, maintaining the original soil profile unless specifically stated otherwise.

Trees up to 12-14cmg to be supported with single 75mm stake to the prevailing windward side, and anchored with a single supersoft adjustable tree tie. Saw stakes to leave 500mm above soil level. Fix adjustable tree ties to the top 75mm of the stake.

All trees to be watered to field capacity on day of planting.

All works shall be carried out to the minimum standard according to BS 8545: 2014.

Planting Beds - General

Planting to be undertaken in appropriate weather conditions, avoiding prolonged periods of drought, and

preferably preceding predicted precipitation.

Planting Beds - Containerised Shrubs

Pits to be excavated to at least one third larger than the root system. Backfill material to incorporate 30% organic matter and slow release fertiliser at 3g/m². Firm plants upright, ensuring root flare sits at soil level.

Planting Beds - Bare root stock up to 60cm high

Roots to be dipped in rooting hormone prior to planting. Notch plant at specified density using 'T' or 'L' notches, or pit planting if the root system is too large to accommodate this method. Firm in upright, protect with specified mammal guards and support with 22-24lb/100 bamboo canes with tapered end uppermost.

Planting Beds - Bare root stock over 60cm high

Planting to be undertaken in appropriate weather conditions, avoiding prolonged periods of drought, and preferably preceding predicted precipitation. Pits to be excavated to at least one third larger than the root system. Backfill material to incorporate 30% organic matter and slow release fertiliser at 3g/m². Firm plants upright, ensuring root flare sits at soil level. Protect with suitable mammal guards and support with 22-24lb/100 bamboo canes with tapered end uppermost.

Hedgerows - Bare root stock up to 60cm high

Hedge line is to be cultivated to a depth of 150mm prior to planting unless specifically indicated otherwise. Stock to be notch-planted at 5 plants per metre in double staggered rows using 'T' or 'L' notches. Rows to be 40 - 45cm apart and follow the line as shown on the Detailed Landscape Design.