

PLANTING SPECIFICATION

General Guidance

All plant handing to be in accordance with the HTA 'Handling and establishing landscape plants' Part I, Part II and Part III (obtainable from the Horticultural Trades Association) and the CPSE publication: 'Plant Handling' and all planting to conform to National Planting Specification Guidelines.

The individual setting-out of the plants on site shall be the responsibility of the contractor and should follow closely the locations shown on the detailed planting proposal drawings supplied by the landscape architect. Contractor to ensure that plants are equally spaced within individual planting groups.

Contractor to ensure that smaller plants are located to the front of plant species groups as shown on detailed planting plans.

Contractor shall maintain existing levels around the base of existing trees and shall undertake all planting works occurring within root protection areas (RPA) in accordance with BS5837:2012. Contractor shall not remove or relocate any tree protection fencing without prior consent of the client.

Contractor to check the locations of all underground services, existing and proposed, prior to the excavation of any tree pits or shrub beds and identify any potential conflicts to the client / landscape architect.

All sitings shall be removed from site and the contractor shall at all times, keep the site free from rubbish and debris.

For the duration of the works the contractor shall keep the site free from injurious weeds as listed in the Weeds Act 1959.

All plants should be supplied at the same size and of the same species as specified in the planting schedules on the landscape proposals plan. Any proposed replacement species or deviation from the planting schedules should be highlighted to and agreed with the client prior to installation.

All plants shall be hardened-off at the Contractor's own nursery or at the source prior to planting out.

All field grown and rootballed trees must have been transplanted or underplanted in the nursery no less than 18 months prior to supply.

The Contractor shall carry out the work while soil and weather conditions are suitable. Planting is not to take place during periods of frost or strong winds.

The contractor is to ensure that adequate watering and weed control is provided at the time of planting.

Any topsoil retained on site in stockpiles for use in planting works is to be stored in accordance with the DEFRA publication, 'Code of practice for the sustainable use of soils on construction sites'

Do not use peat or peat based products.

Prior to planting, planting areas shall be cleared of grass and weed growth physically and/or chemically with a proprietary translocated herbicide and a period of time shall be allowed to elapse as recommended by the manufacturer before commencement of soil preparation for planting.

All plants are to be watered thoroughly before planting stage to ensure rootball is thoroughly soaked prior to final backfilling.

Tree Planting

Generally plant trees in pits with minimum dimensions of:-

- 1000 x 1000 x 700-800mm deep for trees sited in soft, planted areas including grass/shrub areas and rear gardens.

Backfill the pits in layers as specified below (from bottom up):-

Drainage layer

- 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane
- 100m layer of washed medium-course sand to act as binding layer between geotextile and soil.

Topsoil layer

- 400-500mm layer of retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS5882:2015, sandy loam), depth dependent on size of rootball.

Depth of topsoil should only be as deep as the rootball of proposed tree to a max. depth of 400-500mm. Should the rootball be larger i.e. 800mm height, then the pit should be increased in depth to suit, but with the difference in depth from the 400-500mm topsoil layer and the drainage layer made up of quality imported free-draining subsoil to BS8001:2013 to avoid topsoil compaction at depths of greater than 500mm.

Likewise, for smaller trees i.e. feathered trees, with more limited rootball/bare root, the depth of topsoil can be reduced to reflect the surrounding topsoil depths or to a max. topsoil depth of 350mm, with a further layer of site-sourced or imported subsoil to BS8001:2013 below to create a total depth of growth medium of between 400-500mm i.e. 150-200mm layer of subsoil. Drainage layer should remain as above.

As stated above, the min. pit size for trees planted in newly created planting areas should be 1m x 1m, however where planting is occurring in clear, undisturbed ground, pits should be dug to approx. 200mm greater than the rootball to limit distribution of surrounding soil structure. For very large stock, pit dimensions should be increased accordingly.

Break up bottom of tree pit to a depth of 200mm and ensure ground is free-draining. Loosen edges of tree pit at time of planting by hand, using a fork to ensure good drainage. Pits should be excavated no more than 48hrs prior to planting and dewatered as required.

Incorporate a soil conditioner/ameliorant in the form of peat-free tree and shrub compost or well rotted spent mushroom compost or 'Rootmaster' by GreenTech Ltd (01423 332100) into backfilled topsoil material at the rate of min. 40L per pt.

Incorporate soil improver 'Terraconten Arbor' by GreenTech Ltd (01423 332100) at a rate of 1kg per pt, mixed thoroughly into backfilled topsoil.

Backfill topsoil mix in layers of 150mm, firming at each layer and loosening the pit sides to aid drainage. The surface level of the pit should be 50mm above the surrounding ground.

Trees shall be planted in the centre of the excavated pits.

Trees in soft planted areas be dressed with a minimum 75mm mulch layer, consisting of pine bark fines, particle size 15-50mm to a min. diameter of 1000-1200mm.

Semi-mature trees shall be secured by use of a proprietary underground guying system, incorporating guy mats to protect the upper surface of the rootball and secured to the base of the tree pit or by use of deadman anchors. Guying supports should be sized in line with the size of the tree as recommended by the manufacturers.

Extra-heavy and heavy standard trees shall be staked and supported with a low, double stake consisting of 2No. 75mm diameter x min. 2000mm length, rounded timber post driven into the ground at 45 degree angle to approx. 450mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Trees shall be installed with proprietary flexible perforated irrigation/aeration pipe with integral cap. Pipe to be installed encircling equally around topsoil to the full depth of planting pit, with the final cap section installed just above ground level and nailed securely in place to the adjacent timber stakes.

All trees in grass areas to be protected by min. 450mm high (Rodent) x 38mm diam. proprietary biodegradable plastic spiral guards, by Green-Tech Ltd. or equal and approved. Where trees have a basal trunk diameter greater than this, e.g. semi-mature, then two or more guards should be joined together using jointing tape and then secured in place.

Root Barrier Membranes

Where trees are proposed in close proximity to hard paved areas or proposed service runs, a root barrier membrane is to be installed as prescribed below.

For all proposed trees centred in a location within 3m of an adjacent hard standing/footpath or carriageway kerb line, a proprietary root barrier membrane will be installed to protect the hard standing and any underground services located beneath from future damage by tree roots.

Root barrier membrane(s) to be installed on the tree side along the back edge of the kerb / edging adjacent to the adjacent hard standing and are to extend a minimum 3m in each direction from a point taken perpendicular from the tree trunk to the kerb/edging face.

Root barrier membranes are to extend to a depth as outlined below:-

- For trees adjacent to hard standings only (no underground services): install 'Reveal 300' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 300mm, ribs facing tree, joints fixed with jointing tape, install 100mm above final surface level of soft landscaping.
- For trees adjacent to hard standings incorporating underground services: install the proprietary dependent on the depth of underground services:
 - For services 450mm deep
 - o 'Reveal 600' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 600mm, ribs facing tree, joints fixed with jointing tape, install 100mm above final surface level of soft landscaping.
 - For services 800mm deep
 - o 'Reveal 1000' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 1000mm, ribs facing tree, joints fixed with jointing tape, install 100mm above final surface level of soft landscaping.
 - For services deeper than 800mm
 - o 'Reveal 2000' by GreenBlue Urban (01424 717797) or equal and approved, ribbed root barrier membrane, to a depth of 2000mm, ribs facing tree, joints fixed with jointing tape, install 100mm above final surface level of soft landscaping.

For locations where a hard standing with or without underground services exists on both sides of the tree e.g. grass verge, then a root barrier is to be installed against both kerb / edging faces.

For trees located within hard surfaces themselves i.e. surrounded by hard paved surfaces, install 'Root Director' by GreenBlue Urban (01424 717797) or equal and approved, ref. RD1400; 1400mm x 1400mm x 450mm, plastic root director with integral ribs.

Ornamental Hedge Planting (incl. single species native hedges)

Plant hedges into pre-prepared planting trenches, 500-600mm wide for double rows. Planting strips to consist of topsoil to a depth of 350-400mm, mixed with soil conditioner as specified below.

Topsoil to be equal; existing retained site-sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS5882:2015, sandy loam) or a combination of the two as necessary.

Incorporate a soil conditioner/ameliorant in the form of peat free general-purpose shrub compost or well rotted spent mushroom compost along planting trench in a 50mm layer at the rate of 300g per m², and incorporate to a depth of 225mm.

Install a proprietary weed suppressant membrane onto the surface of the pre-prepared trench, with minimum 300mm laps. Plant hedge plants into pre-prepared planting strips which are deep enough as to be 200mm greater than the root depth of the supplied plant stock.

All hedge planting areas to be dressed with a minimum 75mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm, laid directly on weed suppressant membrane.

Where existing vegetation is to be removed, clear any surface vegetation in proposed woodland and thicket areas, utilising proprietary herbicide where appropriate and install plants into isolated pre-prepared planting pits, generally 300 x 300 x 450mm deep or 200mm greater than the rootstock, whichever is greater, backfilling with either existing retained site-sourced topsoil (free from weeds) or imported topsoil (sandy loam). General Purpose grade to BS5882:2015) or a combination of the two as necessary.

Where planting occurs into a retained sward, then planting pits shall be excavated locally for each plant, with the surface vegetation removed.

Incorporate a soil conditioner/ameliorant in the form of peat free tree and shrub compost or well-rotted spent mushroom compost into backfill material at the rate of 5L per pt, incorporating a slow release fertiliser e.g. Etnagag (or similar approved) at a rate of 5g per pt.

Ensure planting conforms to planting matrix where appropriate and in all other areas appears random / natural and not formal in accordance with the planting proposal layouts.

Plant Protection

Where rabbits are a known issue, all woodland and thicket areas are to be fully enclosed by min. 900mm high rabbit proof fencing, supplied as min. 19 Gauge (1.2mm) galvanneal mesh with max. 31mm openings, nailed with galvanneal 20mm staples to 50.75mm diameter treated timber stakes at 1.5m centres, incorporating 3No. horizontal galvanneal staining wires. Mesh fence to be heeled into ground 150mm below ground level. Staining posts of 100mm diam. timber should be installed every 50m or at every turn of direction 90 degrees or greater.

If additional deer protection fencing is required, all woodland and thicket areas are to be fully enclosed by min. 1.5m proprietary plastic mesh fencing (50mm x 45mm gauge) secured to min. 100mm rounded, treated softwood posts, driven min. 750mm below ground level at 3.5m centres. Mesh fence to be heeled into ground 150mm below ground level. NB: In areas where rabbits are also a known problem, an additional 300mm high section of min. 19 Gauge galvanneal mesh (chicken wire) with max. 31mm openings to be fixed to the lower portion of the deer fencing and attached using proprietary plastic cable ties.

All standard trees in the woodland/thicket areas to be protected by min. 450mm high x 38mm diam. proprietary biodegradable plastic spiral guards, by Green-Tech Ltd. or equal and approved.

All small / feathered trees within woodland/thicket areas to be protected by biodegradable 'Nature Tubes Tree Shelter' by Green-Tech Ltd. or equal and approved, and secured in place with min. 25mm square treated softwood timber stake and fixed with plastic cable ties. NB: Should red or fallow deer reside in the locality the tree guards/shelters should be increased in height to 1.5m.

Any coniferous trees and/or beech transplants (Fagus sylvatica) within woodland/thicket areas must only be protected by open mesh tree guards.

All bushy thicket shrubs to be protected by min. 750mm high x 200mm diam. proprietary biodegradable plastic shrub shelters / spiral guards by Green-Tech Ltd. or equal and approved, and secured in place with treated softwood timber stake and plastic cable ties.

All single stem thicket transplants to be protected by min. 600mm high x 500mm proprietary biodegradable plastic spiral guards, by Green-Tech Ltd. or equal and approved, secured with min. 12-14kg x 900mm long bamboo cane. Cane to be fully inserted into the ground by 300mm.

All woodland and thicket plants to be installed with a min. 500mm square, proprietary 'Treslo Biodegradable Weed Mat' mulch mat, by Green-Tech Ltd. or equal and approved, securely pegged in place and weighted down with bark mulch.

Where woodland / thicket areas are created from freshly cultivated ground i.e. into the existing sward, then the planting area should be over-seeded with a proprietary meadow grass mix ('A4' mix by Germinal Seeds Ltd) at a rate of 35g/m² between planting stations.

Amenity Grass / Meadow Grass Seeding

Areas to be seeded are to be finely graded to bring to a uniform and even grade at the correct finished level and to remove all minor hollows and ridges. All stones and debris greater than 50mm in size to be removed and disposed of off-site.

Seeded areas are to consist of min. 150mm topsoil, either existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS5882:2015, sandy loam) or a combination of the two as necessary, covering min. 150mm layer of clean, free-draining subsoil. Subsoil should be prepared as per shrub specification, ensuring full decompaction and free-drainage.

Unless otherwise stated, finished levels of seeded areas to be 30mm above adjoining paving and kerbs, 150mm below the top of adjoining buildings.

Final preparation of the seeded areas shall be carried out as to create a fine fifth surface suitable for seeding.

For amenity grass areas only, a pre-seeding fertiliser shall be applied at a rate of 250g/ha approx. 7 days prior to seeding and raked into top surface e.g. GroRight Lawn Establishment fertiliser by Rotolaw Ltd, slow-release granular fertiliser, 7:10:10 NPK, or equal and approved by Landscape Architect.

The areas to be seeded between April and October with approved grass seed mix, as specified in the planting schedule at the specified rate. Following seeding, areas are to be hand raked and lightly rolled.

The contractor shall take the necessary precautions to ensure all grass areas are protected throughout the establishment period, with the use of chestnut pale fencing where appropriate.

The contractor shall ensure that all seeded and turfed areas are watered fully at the time of installation to the full cultivated depth, and that sufficient subsequent watering is carried out to ensure healthy establishment of the grass sward.

Wildflower / Wet Meadow Grass Seeding

Kill off any existing vegetation by spraying off with proprietary herbicide and allow a time to elapse as recommended by the manufacturer before commencing any cultivation works.

If the time permits, a 'false seed bed' is to be established, by allowing the graded meadow area to colonise with weeds from the existing soil seed bank following initial cultivation / rotation and an additional application of proprietary herbicide applied to remove any weed growth.

Areas to be seeded are to be finely graded to bring to a uniform and even grade at the correct finished level and to remove all minor hollows and ridges. All stones and debris greater than 50mm in size to be removed and disposed of off-site.

Wildflower seeded areas are to consist of min. 150mm deep existing retained topsoil (free from weeds) subsoil mix (50:50) over existing site subsoil layer. No imported topsoil should be used in the formation of wildflower meadows. Where feasible/practicable, topsoil should be fully stripped and seeding conducted into this pre-prepared subsoil layer, however subsoil analysis will be required first to determine the need for any soil enhancement or enrichment in lieu of the topsoil strip.

Final preparation of the seeded areas shall be carried out as to create a medium till surface suitable for seeding.

No pre-seeding fertiliser shall be applied.

Wildflower seeded is to be undertaken preferably in Spring (Early March to late June) or if not feasible in Autumn (Mid August to October). Where sowing rates are low and sowing is to be undertaken by hand broadcast sowing, the contractor should mix the seed evenly with a fine, dry sand to bulk up the sowing mixture. Seeding by this method should only be undertaken on calm days with no wind, after seeding, areas are to be hand raked and lightly rolled. Seed to the thoroughly mixed before seeding to ensure even distribution of different seed weights.

For sloped areas e.g. SuDS, consideration by the contractor should be given to the use of Hydroseeding techniques to improve establishment.

The contractor shall take the necessary precautions to ensure all grass areas are protected throughout the establishment period, with the use of chestnut pale fencing where appropriate.

The contractor shall ensure that all seeded areas are watered fully at the time of installation to the full cultivated depth, and that sufficient subsequent watering is carried out to ensure healthy establishment of the grass sward.

Wildflower Plug Planting (into existing grassland sward)

In the locations shown on the landscape plan, trim down any existing vegetation to a 300mm diameter area.

Dig out the 300mm diameter sod of earth with the existing vegetation left intact to a depth of approx. 200mm, keeping the entire sod intact. The earth sod should then be inverted on itself so the earth surface is exposed and firmed in place.

Install plug plants into the sodded soil by hand using a trowel, 3No. per sod, equally spaced across the surface and firm in place.

Marginal / Reed Planting (to marginal shelves in wet ponds)

Areas to be planted with marginal aquatic and reeds should be planted in mid to late spring or early summer, when signs of plants growth can be established on planting stock.

A 'marginal shelf' should be created around the wet pond in areas to receive the reed / marginal and emergent planting, which should be approximately 15-20cm deep below the 'mean' water level. The shelf should be formed of on-site subsoil and be a relatively flat profile to support the aquatic planting.

Where sufficient cover exists over any pond liner or in areas of puddled clay, plants should be installed directly into the marginal shelf substrate. Elsewhere where substrate is too thin or where reed planting waters is to be controlled, plants to be supplied in plastic pots or similar and transferred to proprietary plastic mesh aquatic baskets; min. 35 x 35cm for larger plants and min. 11 x 11cm for smaller stock, before installation to avoid rapid colonisation of adjacent areas. Baskets should be supplied with a fine mesh to avoid soil loss or hearsee insect, baskets for reeds should be of an open plastic mesh to allow maximum flow of water and air into the pot but limit the outward growth of expansive roots. Baskets should be filled with a 2cm layer of pea shingle or washed gravel, before potting-up of supplied planting stock into loam rich aquatic compost and topped with a further fine layer of pea shingle. Plants should then be set out onto marginal shelf to densities outlined in planting schedule, ensuring baskets are well secured or partially heeled into shelf substrate (max 100mm). NB: Only one plant should be installed per basket.

When planting bare-rooted plants in summer, trim back the tops by half and trim the roots back to within 2.5cm of the crown. Aquatic planting baskets should be annually topped up with a small layer of pea shingle or washed gravel to ensure stability of the baskets.

All marginal aquatic plants should receive a single application of slow release organic fertiliser in early summer when water levels are low to allow the incorporation of the fertiliser into the upper compost layers of the aquatic baskets. Any pea shingle or gravel disturbed should be replaced.

Marginal Planting and Pugs (to damp areas and SuDS)

Where permanent water exists, a gentle sloping bank profile with no step to the water's edge should be installed to the edges of the pond to accommodate the planting of the marginal plants.

Plants and plugs should be removed from the supply containers and planted directly into the pond banks and basin floor. Planting pits should be a min. 200mm greater than the supply pot size in depth and width and should be backfilled with extracted material, incorporating a slow release fertiliser e.g. Etnagag (or similar approved) at a rate of 5g per pt (not required for reeds).

Ensure planting appears random / natural and not formal and if planting bare-rooted plants in summer, trim back the tops by half and trim the roots back to within 2.5cm of the crown.

Plant Sourcing

All plant and seed material will be well be UK sourced and grown and wherever feasible, sourced from local suppliers in close proximity to the Site.

All plant material to be sourced from reputable suppliers with all necessary biosecurity and phytosanitary procedures in accordance with DEFRA guidelines.

General Planting Maintenance

All soft landscape areas to be maintained to BS7370:4-1993.

For all Maintenance and Management Prescriptions, refer to LEMP report CSA4519/14.

LEGEND

APPLICATION BOUNDARY

EXISTING TREES / VEGETATION

TREES / VEGETATION REMOVED

WOODLAND PLANTING

THICKET PLANTING

ORNAMENTAL SHRUB PLANTING

SEMI-MATURE TREE

EXTRA HEAVY STANDARD TREE

STANDARD TREE

MULTI-STEM TREE

HEDGE PLANTING

REAR GARDENS

MEADOW GRASSLAND EDGE MIX - 'E1' - Flowering Lawn Mix by Emorsgate Seeds Ltd or equal and approved. 4g / m²

AMENITY GRASS TURF - 'Medallion' turf by Rotolaw or equal and approved.

MEADOW GRASSLAND MIX - 'EM2' - Standard General Purpose Meadow Mix by Emorsgate Seeds Ltd or equal and approved. 4g / m²

WILDFLOWER MEADOW MIX - 'EM8' Meadow Mixture for Wetlands' by Emorsgate Seeds Ltd or equal and approved. 5g / m²

WILDFLOWER MEADOW MIX - 'EP1' Pond Edge Mixture by Emorsgate Seeds Ltd or equal and approved. 5g / m²

BULB PLANTING

MOWN FOOTPATH

SHINGLESTONE FOREBAY

see engineer's drawings for full details regarding make-up and required product

HOGGIN PATH SURFACING - under benches

Fine hoggin surface 'Wayfarer' by Breendon Aggregates or similar. 50mm surface course min. over Type 1 sub-base with treated timber edgings to match spec. of paths in open space. "As per approved Boundaries and Surface Plan, as prepared by others."

Boundary Treatment

POST AND WIRE FENCING - 900m high strained wire and timber post fence.

Notes:-

1) For Plot Soft Landscape Proposals, refer to CSA/4519/116-119

2) For LEAP Landscape Proposals, refer to CSA/4519/122

3) For Landscape Masterplan, refer to CSA/4519/123

4) For POS Plant Specification and Plant Schedule, refer to CSA/4519/121

Plant Schedule for CSA/4519/120-121

AQ1 - Marginals Mix

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
69	Caltha palustris	Marsh Marigold							C	L	m2		0.350
69	Carex riparia	Greater and/or Lesser							C	L	m2		0.350
69	Iris pseudacorus	Yellow flag							C	L	m2		0.350
69	Juncus effusus	Cordcourse rush							C	L	m2		0.350
275													

Bulb Mix 3 - Daffs

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
229	Narcissus 'Star of Bethlehem'	Daffodil			Bulb					m2		0.200	
229	Narcissus cyclamineus 'Jack Snipe'	Daffodil			Bulb					m2		0.200	
455	Narcissus 'Dutch Master'	Daffodil			Bulb					m2		0.200	
1140	Narcissus pseudonarcissus	Wild daffodil			Bulb					m2		0.200	
2053													

Bulb Mix 6 - Sun

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
469	Allium christophii	Garlic			Bulb					m2		0.200	
469	Allium ursinum	Ramsons, Wood Garlic			Bulb					m2		0.200	
469	Carnegiea lechitoli	Quamash			Bulb					m2		0.200	
469	Colchicum 'L'abc Wonder'	Meadow saffron, Autumn crocus			Bulb					m2		0.200	
469	Tulipa 'Apricot Beauty'	Tulip			Bulb					m2		0.200	
2345													

Hedgerow

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
169	Carpinus betulus (Hedge)	Hornbeam	1/2	100-125cm					B		m	5.00	0.200
169													

Herbaceous - Bulb

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
1677	Anemone nemorosa	Wood anemone							BB		m2		0.225
1677													

Herbaceous - Fern/Rush/Sedge

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
25	Carex acutiformis	'Lemon Pond Sedge'			Clump				PG		m2		0.354
26													

Shrub

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
140	Cornus alba 'Kesselringii'	Red berked dogwood	2x	40-60cm				4	C	3L	m2		0.450
169	Cornus alba 'Sibirica'	Western dogwood	2x	40-60cm				4	C	3L	m2		0.450
279													

Thicket Mix 1

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
232	Crataegus monogyna	Common hawthorn	1/1	60-80cm	Transplant				B		m2		1.200
232	Ilex aquifolium	Holly		40-60cm					C	3L	m2		1.200
186	Viburnum vulgare	Common hawthorn	1/1	60-80cm				4	C	3L	m2		1.200
186	Viburnum lantana	Wayfaring tree	1/1	30-40cm	Transplant			2	B		m2		1.200
92	Viburnum opulus	Guelder Rose	1/1	40-60cm	Transplant			2	B		m2		1.200
928													

Tree

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
4	Acer campestre	Field maple	2x	300-350cm	Standard	10-12cm	175-200cm	4	B		m2		1.500
1	Aesculus hippocastanum	Horse chestnut	3x	425-600cm	Standard (Extra Heavy)	14-16cm	175-200cm	5	RB		m2		1.500
1	Ailanthus glandulosa	Common alder	2x	300-350cm	Standard	10-12cm	175-200cm	4	RB		m2		1.500
3	Betula pendula	Silver birch	3x	425-600cm	Standard (Extra Heavy)	14-16cm	175-200cm	5	RB		m2		1.500
7	Betula pendula (Multi-stem)	Silver birch	3x	250-300cm	Multi-stemmed			3	RB		m2		1.500
6	Carpinus betulus	Hornbeam	2x	300-350cm	Standard	10-12cm	175-200cm	4	RB		m2		1.500
2	Fagus sylvatica	Common beech	2x	380-500cm	Standard	10-12cm	175-200cm	4	RB		m2		1.500
1	Fagus sylvatica	Common beech	3x	425-600cm	Standard (Extra Heavy)	14-16cm	175-200cm	5	RB		m2		1.500
3	Populus tremula	Aspen	2x	300-350cm	Standard	10-12cm	min 200cm	4	RB		m2		1.500
1	Prunus avium	Gean, Wild cherry	2x	300-350cm	Standard	10-12cm	175-200cm	5	RB		m2		1.500
1	Sorbus aria	Whitebeam	2x	300-350cm	Standard	10-12cm	150-175cm	4	RB		m2		1.500
5	Tilia cordata	Small-leaved lime	3x	425-600cm	Standard (Extra Heavy)	14-16cm	175-200cm	5	RB		m2		1.500
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Woodland Mix 1

Qty	Name	Common Name	Age	Height	Form	Girth	Cr/Stm	Bks	Root	Crtr	Measure Unit	Density (m2/m)	Centres
43	Acer campestre	Field maple	1/1	100-125cm					B		m2		1.500
56	Carpinus betulus	Hornbeam	1/2	100-125cm					B		m2		1.500
56	Crataegus monogyna	Common hawthorn	1u1	60-80cm	Seedling (undercut)				B		m2		1.500
56	Fagus sylvatica	Common beech	1/2	100-125cm	Transplant (seed raised)				B		m2		1.500
29	Quercus robur	Common, English oak	1x	125-150cm	Featherhead			2	B		m2		1.500
43	Tilia												