

## Native Trees for Larger Open Landscape Areas

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification
A ca	Acer campestre	Common Maple	14-16	400-450	RB	3x; EHS; clear stem min. 200cm; 5 brks
A gl	Alnus glutinosa	Common Alder	14-16	400-450	RB	3x; EHS; clear stem min. 200cm; 5 brks
B pe	Betula pendula	Common Silver Birch	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks
C be	Carpinus betulus	Common Hornbeam	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks
P av	Prunus avium	Wild Cherry	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks
Q r	Quercus robur	Common Oak	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks
S ari	Sorbus aria	Whitebeam	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks

## Street Trees

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification
A ca 'E'	Acer campestre 'Elegant'	Field Maple 'Elegant'	12-14	350-425	RB	3x; HS; clear stem min. 200cm; 5 brks
A pl 'C'	Acer platanoides 'Cleveland'	Norway Maple 'Cleveland'	12-14	350-425	RB	3x; HS; clear stem min. 200cm; 5 brks
C mon 'S'	Crataegus monogyna 'Stricta'	Hawthorn 'Stricta'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
M b 'S P'	Malus baccata 'Street Parade'	Siberian Crab Apple 'Street Parade'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
P 'P'	Prunus 'Pandora'	Flowering Cherry 'Pandora'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
P 'U'	Prunus 'Umineko'	Flowering Cherry 'Umineko'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
S auc 'R M'	Sorbus aucuparia 'Rossica Major'	Russian Ash	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
S auc 'S S'	Sorbus aucuparia 'Sheenwater Seedling'	Rowan 'Sheenwater Seedling'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks
S i 'B'	Sorbus intermedia 'Brouwers'	Swedish Whitebeam 'Brouwers'	12-14	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks

## Native &amp; Ornamental Hedge Planting for Private Front Garden

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
C be	Carpinus betulus	Common Hornbeam	80-100	B	1+1; Transplant - seed raised	1
F s	Fagus sylvatica	Common Beech	80-100	B	1+1; Transplant - seed raised	1
P ten	Pittosporum tenuifolium	Kohuhu	60-80	B	1+1; Transplant - seed raised	1
P lu	Prunus lusitanica	Portuguese Laurel	80-100	B	1+1; Transplant - seed raised	1

## Native Shrub Mix

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
C sa n	Cornus sanguinea	Common Dogwood	40-60	3L	Branched; 4 brks	3
C av	Corylus avellana	Common Hazel	60-80	3L	Branched; 3 brks	2
C mon	Crataegus monogyna	Common Hawthorn	60-80	3L	Branched; 4 brks	1
I a	Ilex aquifolium	Common Holly	60-80	5L	Branched; 4 brks	2
L vu	Ligustrum vulgare	Common Privet	60-80	3L	Branched; 4 brks	2
R ca	Rhamnus cathartica	Common Buckthorn	40-60	2L	Branched; 4 brks	2
R ca	Rhamnus cathartica	Common Buckthorn	60-80	B	Branched; 4 brks	2
R arv	Rosa arvensis	Field Rose	40-60	3L	Branched; 5 brks	2
R can	Rosa canina	Dog Rose	40-60	3L	Branched; 5 brks	2
V op	Viburnum opulus	Guellder Rose	40-60	3L	Branched; 4 brks	2

## Ornamental Shrub mix OM1 (Sunny)

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
A ni	Allium nigrum	Black Garlic	30-60	3L	Full pot	1
C v	Calluna vulgaris	Scots Heather	20-60	2L	Full pot	6
Ce d	Centaurea dealbata	Perennial Cornflower	50-60	2L	Full pot	5
C ter	Choisya ternata	Mexican Orange Blossom	40-60	5L	Full pot	2
C can	Cornus canadensis	Creeping Dogwood	15-20	3L	Full pot	4
F 'M P'	Fuchsia 'Mrs Popple'	Fuchsia 'Mrs Popple'	30-40	5L	Full pot	2
G ma	Geranium macrorrhizum	Balkan Cranesbill	40-60	2L	Full pot	4
H M W W	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	30-40	3L	Full pot	3
H ni	Helioleborus niger	Christmas Rose	20-30	2L	Full pot	5
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	30-40	3L	Full pot	3
L o	Ligustrum ovalifolium	Oval-leaf Privet	60-80	5L	Full pot	1
L per	Lonicera periclymenum	Common Honeysuckle	60-80	2L	Full pot	1
O x b	Osmanthus x burkwoodii	Burkwood Osmanthus	30-40	3L	Full pot	3
P M d'H	Philadelphus 'Manteau d'Hermine'	Mock Orange 'Manteau d'Hermine'	30-40	3L	Full pot	3
P cae	Polemonium caeruleum	Jacob's Ladder	30-60	3L	Full pot	5
R rug 'R'	Rosa rugosa 'Rubra'	Red Japanese Rose	40-60	3L	Full pot	2
R fs 'G'	Rudbeckia fulgida sullivanti 'Goldsturm'	Black-eyed Susan 'Goldsturm'	40-60	2L	Full pot	4
S vul 'M L'	Syringa vulgaris 'Mme Lemoine'	Lilac 'Mme Lemoine'	40-60	3L	Full pot	2
V d	Viburnum davidii	David Viburnum	20-30	3L	Full pot	3

## Ornamental Shrub mix OM2 (Shady)

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
A re 'K'	Ajuga reptans 'Atropurpurea'	Bronze Bugle	10-20	2L	Full pot	6
A M 'E'	Allium 'Mount Everest'	Ornamental Onion 'Mount Everest'	60-80	2L	Full pot	1
Ce n	Centaurea nigra	Common Knopweed	60-80	1L	Full pot; Sept to April planting	2
E 'A B'	Escallonia 'Apple Blossom'	Escallonia 'Apple Blossom'	40-60	5L	Full pot	2
F u	Filipendula ulmaria	Meadowweet	40-60	3L	Full pot; Sept to April planting	4
F m g	Fuchsia magellanica gracilis	Fuchsia gracilis	20-30	2L	Full pot	3
G ma	Geranium macrorrhizum	Balkan Cranesbill	50-60	2L	Full pot	4
H M W W	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	30-40	3L	Full pot	3
H r	Hebe rakaiensis	Rakai Hebe	60-80	3L	Full pot	3
H n s	Hyacinthoides non-scripta	English Bluebell	60-80	0.5L	Full pot; Sept to April planting	1
H m 'B W'	Hydrangea macrophylla 'Blue Wave'	Hydrangea 'Blue Wave'	40-60	5L	Full pot	2
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	30-40	3L	Full pot	3
L m 'B S'	Lanium maculatum 'Beacon Silver'	Spotted Dead-nettle 'Beacon Silver'	30-40	2L	Full pot	4
L x p	Lonicera x purpusii	Winter Honeysuckle	40-60	3L	Full pot	2
M x m 'W S'	Mahonia x media 'Winter Sun'	Mahonia 'Winter Sun'	30-40	3L	Full pot	3
P t	Pachysandra terminalis	Japanese Spurge	20-30	3L	Full pot	4
P lau 'O L'	Prunus laurocerasus 'Otto Luyken'	Cherry Laurel 'Otto Luyken'	30-40	3L	Full pot	3
S x c 'K G'	Skimmia x confusa 'Kew Green'	Skimmia 'Kew Green'	30-40	3L	Full pot	4
S j 'R'	Skimmia japonica 'Rubella'	Japanese Skimmia 'Rubella'	30-40	3L	Full pot	4
S j 'A W'	Spiraea japonica 'Anthony Waterer'	Japanese Spiraea 'Anthony Waterer'	30-40	3L	Full pot	3
V ma	Vinca major	Greater Periwinkle	30-40	3L	Full pot	3

## Ornamental Shrub mix OM3 (Sunny)

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
A M 'E'	Allium 'Mount Everest'	Ornamental Onion 'Mount Everest'	50-60	2L	Full pot	1
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'	30-40	2L	Full pot	5
C v	Calluna vulgaris	Scots Heather	20-50	2L	Bushy	6
C t r	Ceanothus thyrsiflorus repens	Creeping Blueblossom	60-80	5L	Bushy; 5 brks	2
Ce d	Centaurea dealbata	Perennial Cornflower	50-60	2L	Full pot	5
C can	Cornus canadensis	Creeping Dogwood	15-20	3L	Several shoots; 13 brks	4
E r	Echinops ritro	Small Globe Thistle	60-80	2L	Full pot	3
E f 'E G'	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety'	20-30	3L	Bushy; 7 brks	3
G ma	Geranium macrorrhizum	Balkan Cranesbill	40-60	2L	Full pot	4
H M W W	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	30-40	3L	Bushy; 5 brks	3
H r	Hebe rakaiensis	Rakai Hebe	60-80	3L	Bushy; 5 brks	3
H f	Helioleborus foetidus	Stinking Heliolebor	60-80	2L	Full pot	4
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	30-40	3L	Branched; 3 brks	3
J n	Jasminum nudiflorum	Winter Jasmine	40-60	3L	Caned; several shoots; 4 brks	1
L an	Lavandula angustifolia	True Lavender	20-30	3L	Bushy; 5 brks	3
L ni	Lonicera nitida	Box Honeysuckle	40-60	5-7.5L	Bushy; 5 brks	2
L x p	Lonicera x purpusii	Winter Honeysuckle	40-60	3L	Branched; 3 brks	2
N p	Narcissus pseudonarcissus	Wild Daffodil	30-60	3L	Grade 6/+ Topsized	1
P ce	Prunus cerasifera	Cherry Plum	60-80	2L	Branched; 3 brks	1
S j 'A W'	Spiraea japonica 'Anthony Waterer'	Japanese Spiraea 'Anthony Waterer'	30-40	3L	Branched; 6 brks	3

## Ornamental Shrub mix OM4 Shady)

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
A mo	Alchemilla mollis	Lady's Mantle	30-60	3L	Full pot	3
A ni	Allium nigrum	Black Garlic	30-60	3L	Full pot	1
A h 'B G'	Anemone hepuchensis 'Bressingham Glow'	Japanese Anemone 'Bressingham Glow'	60-80	3L	Full pot	4
B t	Berberis thunbergii	Japanese Barberry	40-60	3L	Full pot	2
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'	40-60	2L	Full pot	5
C j	Camellia japonica	Common Camellia	40-60	3-4L	Full pot	3
E f 'E G'	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety'	20-30	3L	Full pot	3
G n	Galanthus nivalis	Common Snowdrop	40-60	5L	Full pot	1
G ma	Geranium macrorrhizum	Balkan Cranesbill	40-60	2L	Full pot	4
H M W W	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	30-40	3L	Full pot	3
H m 'B W'	Hydrangea macrophylla 'Blue Wave'	Hydrangea 'Blue Wave'	40-60	5L	Full pot	2
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	30-40	3L	Full pot	3
L per	Lonicera periclymenum	Common Honeysuckle	60-80	2L	Full pot	1
O x b	Osmanthus x burkwoodii	Burkwood Osmanthus	30-40	3L	Full pot	3
P t	Pachysandra terminalis	Japanese Spurge	20-30	3L	Full pot	4
P lau 'O L'	Prunus laurocerasus 'Otto Luyken'	Cherry Laurel 'Otto Luyken'	30-40	3L	Full pot	3
R arv	Rosa arvensis	Field Rose	40-60	3L	Full pot	2
S l	Salix lanata	Woolly Willow	20-30	2L	Full pot	4
S co	Sarcococca confusa	a Sweet Box	20-30	3L	Full pot	4
V r	Verberna rigida	Slender Vervain	60-80	5L	Full pot	8
V ma	Vinca major	Greater Periwinkle	30-401	3L	Full pot	3

## PLANTING NOTES

## General

- Plant material shall be in accordance with the National Plant Specification. Plant handling and planting operations shall follow the guidelines in HTA 'Handling and Establishing Landscape Plants', Parts I-III.
- Imported topsoil (if required) shall meet BS 3882 Multipurpose Grade standards and be sourced from an approved supplier. Existing topsoil for re-use must contain no more than 35% clay and at least 5% organic matter, with a pH range of 5.5-8.5. It must also be free from perennial weeds, weed seeds, and contaminants, with a maximum stone content of 20% (>20mm particle size) and individual stones no larger than 50mm in any dimension. Ameliorate or screen existing topsoil as necessary to meet these specifications.
- Soil conditioner: Apply a 75mm depth of sanitized and stabilized compost conforming to BSI PAS 100. Incorporate into the topsoil to a minimum depth of 150mm during cultivation. Compost must be certified by the Compost Association or sourced from an approved supplier.
- Mulch all planting beds with matured coniferous bark (5-35mm particle size) to a minimum depth of 75mm over weed-free soil after planting and watering operations.

## Existing Features

- Protect existing grassland areas retained on site from damage during construction. Re-seed any bare or disturbed areas after works are complete.
- Protect all retained trees in accordance with BS5837 (2012) during construction works.

## Tree Planting

- Tree pits in soft landscape areas:
  - Multi-stem and standard: 1200mm diameter x 600mm depth.
  - Standard (selected) and feathered: 600mm diameter x 600mm depth.
  - Whips/Transplants: Pits 150mm wider and 75mm deeper than root spread.
  - Support trees with 2 x 75mm diameter stakes, cut 600mm above ground level, and 2 x adjustable tree ties.
  - All tree pits to be backfilled with excavated topsoil and compost, mixed with slow-release fertiliser, quantity in accordance with manufacturer's recommendations, and firmed in.
- Install rabbit protection for all whips and transplants using spiral HDPE guards 0.6m high x 50mm diameter (or larger, to suit girth). Secure guards with 900mm bamboo canes inserted 300mm below ground. Protection must allow natural tree movement and unrestricted growth.
- Fit all street trees with aeration/watering pipes and inlets.
- Tree pit barrier to be installed to all tree pits within 3m of any underground service routes. Barrier material to be agreed. Contractor to confirm locations of all services prior to implementation.

## Mixed Native Hedgerow Planting

- Prepare a 0.5m wide x 0.3m deep weed-free trench (or larger as required to accommodate root spread). Fork over and 'rip' the trench base and sides to improve drainage before backfilling. Use an appropriate mix of excavated topsoil and compost if necessary (Compost Association certified or from an approved supplier). Work by hand near existing trees or hedgerows. Avoid herbicide application.
- For existing hedgerows: Fill gaps >0.5m with bare-root transplants and container-grown shrubs planted at 0.5m centres. Hand dig carefully to avoid damaging roots >2.5cm in diameter.
- For new hedgerows: Plant shrubs at 0.5m centres. Transplants shall be notch-planted, while container-grown shrubs shall be pit-planted in pits 150mm wider than the root spread. Ensure the root collar sits at ground level after planting and fimming.
- Install rabbit protection as follows:
  - Transplants, cuttings, seedlings: Photodegradable PP tube guards (0.6m high x 50mm diameter or greater, to suit girth), supported by 900mm bamboo stakes.
  - Container-grown shrubs: Recycled HDPE photodegradable mesh guards (0.6m high x 150-180mm diameter or greater, to suit girth), supported by 900mm timber stakes.

## Planting Beds and Ornamental Hedges

- Incorporate 75mm of sanitized and stabilized compost (to BSI PAS 100) into topsoil to a minimum depth of 150mm.
- Shrubs shall be planted in pits 150mm wider and 75mm deeper than the root spread, backfilled with a mix of excavated topsoil and compost. Incorporate slow-release fertilizer as per manufacturer's recommendations.
- Mulch planting beds with matured coniferous bark (particle size 5-35mm) to a depth of 75mm over weed-free soil after planting and watering operations.

## Proposed Grass Areas

- Amenity grass: Turf according to BS 3969 or seed with a suitable amenity grass mix at 35g/m<sup>2</sup> or per the manufacturer's instructions.
- Meadow grass: Broadcast seed at 4g/m<sup>2</sup> for areas of made or disturbed ground. Follow manufacturer's guidelines for preparation and sowing. Ensure thorough seedbed preparation to establish a fine tilth.

## Planting Seasons

- Deciduous trees and shrubs: Late October to late March.
- Conifers and evergreens: September/October or April/May.
- Container-grown plants and grass turf: Any time with favourable ground and weather conditions.
- Grass seeding: August to October, subject to weather conditions.

## Watering

All planting to be watered immediately after planting, and watered regularly

during establishment period to ensure successful establishment.

## LANDSCAPE MANAGEMENT PLAN

## Establishment and Maintenance Period (Years 1-5)

## Pruning Generally

- Remove all dead, damaged, or diseased tree branches, and dispose of all arisings off-site. Prune shrubs during the appropriate season to maintain health, encourage vigour, and prevent encroachment on paths or car parking areas. Deadhead flowering shrubs and herbaceous plants at the end of their flowering season.

## Native Woodland Planting

- Remove any non-native species that establish. Retain standing and fallen deadwood to promote habitat diversity and allow trees to develop a varied age structure over time.

## Hedgerows

- Prune hedgerows on one side each year, alternating on a 2- or 3-year rotation in February, to maintain a height of 2-3 meters. This encourages dense growth while providing habitats and foraging opportunities for wildlife.
- Maintain a minimum width of 1.5 meters, ensuring the gap between the ground and the hedge base does not exceed 0.5 meters. Retain a 1-meter-wide strip of uncut grassland at the outer edge of the hedgerow.

## Hedges

- Formally prune proposed hedges, maintaining a 1-meter-wide weed-free strip (50 cm on either side of the hedge) for the first three to five years or until plants are established. Trim hedges to a height of 1-1.2 meters with a chamfered shape.

## Amenity Grass

- Regularly mow amenity grass to maintain a height between 35 mm and 75 mm. Remove clippings and apply a suitable fertiliser in spring of Year 2.

## Meadow Grass

- In the first year after seeding, mow meadow grass short twice (spring and autumn) to a height of 75 mm. In subsequent years, mow twice annually:

- Summer (late July to late August) to a height of 150 mm.
- Autumn (September) to a height of 75 mm.
- Remove all arisings to reduce soil fertility.

## General Maintenance

- Maintain all planting and grass areas with the following tasks:
  - Provide adequate irrigation.
  - Control weeds through herbicide application or hand weeding.
  - Regularly pick litter.
  - Apply fertiliser in spring of Years 1, 2, and 3.
  - Replenish mulch as required.
  - Inspect tree stakes, ties, and guying systems to ensure they are secure and not causing damage to tree stems.
- Remove stakes and ties once trees are self-supporting, and dispose of materials appropriately.
- Replace any plants that fail to thrive or die within the 5-year establishment period during the next suitable planting season.
- Remove guards once trees have successfully established within years 3-5 of establishment period.

## Long-Term Management Plan

## Pruning Generally

- Remove dead, damaged, or diseased tree branches and dispose of arisings off-site. Prune shrubs in the appropriate season to maintain health and vigour, avoiding cutting from March to August to prevent disturbance to breeding birds. Deadhead flowering shrubs and herbaceous plants after flowering.
- Coppice Cornus (dogwood) on a 6-year rotation, with 50% coppiced every three years in spring to promote bushy growth and vibrant stems.
- Remove any non-native species. Retain standing and fallen deadwood to enhance biodiversity and develop a diverse tree age structure over time.

## Native Woodland Planting

- Remove any non-native species. Retain standing and fallen deadwood to enhance biodiversity and develop a diverse tree age structure over time.
- Prune hedgerows on a 2- or 3-year rotation, maintaining a height of 2-3 meters. Allow selected hedgerow trees to mature fully.
- Ensure hedgerows retain a minimum width of 1.5 meters, with a base gap below 0.5 meters and a 1-meter-wide strip of uncut grassland along the outer edges.

## Hedges

- Prune hedges annually to promote dense growth and maintain the desired height and form.

## Native Shrubs and Scrub Planting

- Maintain native shrub and scrub areas with a focus on biodiversity. Ensure at least 1 meter of uncut grassland is preserved adjacent to planting zones.

## Amenity Grass

- Regularly mow amenity grass to a height of no more than 75 mm. Remove all clippings after each cut.

## Meadow Grass

- Mow meadow grass twice annually:
  - Summer (late July to late August) to 150 mm.