

Native Trees for Larger Open Landscape Areas

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m²
A ca	Acer campestre	Common Maple	400-450	RB	3x; EHS; clear stem min. 200cm; 5 brks	1
A gl	Alnus glutinosa	Common Alder	400-450	RB	3x; EHS; clear stem min. 200cm; 5 brks	1
B pe	Betula pendula	Common Silver Birch	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	1
C be	Carpinus betulus	Common Hornbeam	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	1
P av	Prunus avium	Wild Cherry	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	1
O r	Quercus robur	Common Oak	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	1
S ari	Sorbus aria	Whitebeam	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	1
S t	Sorbus torminalis	Wild Service Tree	250-300	RB	2x; Std; clear stem 175-200cm; 3 brks	1

Street Trees

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m²
A ca 'S'	Acer campestre 'Streetwise'	Field Maple 'Streetwise'	350-425	RB	3x; HS; clear stem min. 200cm; 5 brks	1
C be 'P S'	Crataegus laevigata 'Paul's Scarlet'	Midland Hawthorn 'Paul's Scarlet'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
P 'A'	Prunus 'Accolade'	Flowering Cherry 'Accolade'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
P 'Sp'	Prunus 'Spire'	Flowering Cherry 'Spire'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
P c 'Ch'	Pyrus calleryana 'Chanticleer'	Flowering Pear 'Chanticleer'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
S auc	Sorbus aucuparia	Rowan	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
T co 'G'	Tilia cordata 'Greenspire'	Small-leaved Lime 'Greenspire'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1

Ornamental Feature Trees for Private Gardens

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m²
A lam	Amelanchier lamarckii	Juneberry	200-350	RB	3x; HS; clear stem 175-200cm; 5 brks	1
C k	Cornus kousa	Kousa Dogwood	175-200	RB	Branched; 5 brks	1
M x s	Magnolia x soulangeana	Saucer Magnolia	200-250	RB	Branched; 5 brks	1
M 'E'	Malus 'Evereste'	Crab Apple 'Evereste'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1
M 'R S'	Malus 'Red Sentinel'	Crab Apple 'Red Sentinel'	350-425	RB	3x; HS; clear stem 175-200cm; 5 brks	1

Native Hedgerow Mix Planting

Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	per m
A ca	Acer campestre	Common Maple	60-80	B	1+1; Transplant - seed raised	1
C be	Carpinus betulus	Common Hornbeam	60-80	B	1+1; Transplant - seed raised	1
C av	Corylus avellana	Common Hazel	60-80	B	1+1; Transplant - seed raised	2
C mon	Crataegus monogyna	Common Hawthorn	60-80	B	1+1; Transplant - seed raised	1
E e	Euonymus europaeus	Common Spindle Tree	40-60	B	1+1; Transplant - seed raised; branched; 3 brks	2
M sy	Malus sylvestris	Common Crab Apple	60-80	B	1+1; Transplant - seed raised	1
P pad	Prunus padus	Bird Cherry	60-80	B	1+1; Transplant - seed raised	1
P sp	Prunus spinosa	Blackthorn	60-80	B	1+1; Transplant - seed raised; branched; 2 brks	3

Native & 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+2; Transplant - seed raised	1
P ten	Pterisporum tenuifolium	Kotuhū	60-80	B	Branched; 9 brks	1
P lu	Prunus lusitanica	Portuguese Laurel	80-100	B	Bushy; 6 brks	1

Native Shrub Mix

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
C san	Cornus sanguinea	Common Dogwood	3L	Branched; 4 brks	3
C av	Corylus avellana	Common Hazel	3L	Branched; 3 brks	2
C mon	Crataegus monogyna	Common Hawthorn	3L	1+1; Transplant - seed raised; branched; 4 brks	1
L vu	Ligustrum vulgare	Common Privet	3L	Branched; 4 brks	2
R can	Rosa canina	Dog Rose	3L	Branched; 5 brks	2
V op	Viburnum opulus	Guelder Rose	3L	Branched; 4 brks	2

Ground Cover Planting

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
C can	Cornus canadensis	Creeping Dogwood	2L	Several shoots; 11 brks	5
P t	Pachysandra terminalis	Japanese Spurge	2L	Several shoots; 7 brks	4
V ma	Vinca major	Greater Periwinkle	1.5-2L	Several shoots; 3 brks	4

Ornamental Shrub mix OM1 (Sunny)

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
A ni	Allium nigrum	Black Garlic	3L	Grade 10/12	1
C v	Calluna vulgaris	Scots Heather	2L	Bushy	6
Ce d	Centaurea dealbata	Perennial Cornflower	2L	Full pot	5
C to	Choisya ternata	Mexican Orange Blossom	5L	Bushy; 5 brks	2
F M P'	Fuchsia 'Mrs Poppie'	Fuchsia 'Mrs Poppie'	5L	Bushy; 5 brks	2
G ma	Geranium macrorrhizum	Balkan Cranesbill	2L	Full pot	4
H M W'	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	3L	Bushy; 5 brks	3
H ni	Helleborus niger	Christmas Rose	2L	Full pot	5
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	3L	Branched; 3 brks	3
L per	Lonicera periclymenum	Common Honeysuckle	3L	Caned; several shoots; 2 brks	1
O x b	Osmanthus x burkwoodii	Burkwood Osmanthus	3L	Bushy; 4 brks	3
P 'M d'H'	Philadelphus 'Manteau d'Hermine'	Mock Orange 'Manteau d'Hermine'	3L	Branched; 4 brks	3
R rug 'R'	Rosa rugosa 'Rubra'	Red Japanese Rose	3L	Branched; 3 brks	2
R t 'Y G'	Rudbeckia fulgida sultivanti 'Goldsturm'	Black-eyed Susan 'Goldsturm'	2L	Full pot	4
S 'ml 'ML'	Syringa vulgaris 'Mme Lemoine'	Ilac 'Mme Lemoine'	3L	Branched; 2 brks	2
V d	Viburnum davidii	David Viburnum	3L	Bushy; 3 brks	3

Ornamental Shrub mix OM2 (Shady)

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
A 'M E'	Allium 'Mount Everest'	Ornamental Onion 'Mount Everest'	2L	Full pot	1
Ce n	Centaurea nigra	Common Knagweed	1L	Full pot; Sept to April planting; British native-origin	2
E 'A B'	Escallonia 'Apple Blossom'	Escallonia 'Apple Blossom'	5L	Bushy; 5 brks	2
F u	Filipendula ulmaria	Meadowsweet	3L	Full pot; Sept to April planting; British native-origin	4
F m g	Fuchsia magellanica gracilis	Fuchsia gracilis	2L	Bushy; 3 brks	3
G ma	Geranium macrorrhizum	Balkan Cranesbill	2L	Full pot	4
H M W'	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	3L	Bushy; 5 brks	3
H r	Hebe rakaiensis	Rakai Hebe	3L	Bushy; 5 brks	3
H m 'B W'	Hydrangea macrophylla 'Blue Wave'	Hydrangea 'Blue Wave'	5L	Branched; 5 brks	2
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	5L	Branched; 3 brks	3
L m 'B S'	Lamium maculatum 'Beacon Silver'	Spotted Dead-nettle 'Beacon Silver'	2L	Full pot	4
L x p	Lonicera x purpusii	Winter Honeysuckle	3L	Branched; 3 brks	2
M x m 'W S'	Mahonia x media 'Winter Sun'	Mahonia 'Winter Sun'	3L	Leader(s); 2 brks	3
P lau 'O L'	Prunus laurocerasus 'Otto Luyken'	Cherry Laurel 'Otto Luyken'	3L	Bushy; 3 brks	3
S x c 'K G'	Skimmia x confusa 'Kew Green'	Skimmia 'Kew Green'	3L	Bushy; 3 brks	3
S 'J R'	Skimmia japonica 'Rubella'	Japanese Skimmia 'Rubella'	3L	Bushy; 3 brks	3
S 'J 'A W'	Spiraea japonica 'Anthony Waterer'	Japanese Spirea 'Anthony Waterer'	3L	Branched; 6 brks	4

Ornamental Shrub mix OM3 (Sunny)

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
A 'M E'	Allium 'Mount Everest'	Ornamental Onion 'Mount Everest'	2L	Full pot	1
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'	2L	Full pot	5
C v	Calluna vulgaris	Scots Heather	2L	Bushy	6
C t r	Ceanothus thyrsiflorus repens	Creeping Blueblossom	5L	Bushy; 5 brks	2
Ce d	Centaurea dealbata	Perennial Cornflower	2L	Full pot	5
E r	Echinops ritro	Small Globe Thistle	2L	Full pot	3
E 'f 'E G'	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety'	3L	Bushy; 7 brks	3
G ma	Geranium macrorrhizum	Balkan Cranesbill	2L	Full pot	4
H M W'	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	3L	Bushy; 5 brks	3
H r	Hebe rakaiensis	Rakai Hebe	3L	Bushy; 5 brks	3
H f	Helleborus foetidus	Stinking Hellebore	2L	Full pot	4
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	3L	Branched; 3 brks	3
J n	Jasminum nudiflorum	Winter Jasmine	3L	Caned; several shoots; 4 brks	1
L an	Lavandula angustifolia	True Lavender	3L	Bushy; 5 brks	3
L x p	Lonicera x purpusii	Winter Honeysuckle	2L	Branched; 3 brks	2
P ce	Prunus cerasifera	Cherry Plum	3L	Branched; 2 brks	1
S 'J 'A W'	Spiraea japonica 'Anthony Waterer'	Japanese Spirea 'Anthony Waterer'	3L	Branched; 6 brks	3

Ornamental Shrub mix OM4 (Shady)

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m²
A ni	Allium nigrum	Black Garlic	2L	Grade 10/12	1
A h 'B G'	Anemone hepatica 'Bressingham Glow'	Japanese Anemone 'Bressingham Glow'	3L	Full pot	4
B t	Barberis thunbergii	Japanese Barberry	2L	Branched; 5 brks	2
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'	3L	Full pot	5
C j	Camellia japonica	Common Camellia	3-4L	Leader with laterals; 2/3 brks	3
E 'f 'E G'	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety'	3L	Bushy; 7 brks	3
G ma	Geranium macrorrhizum	Balkan Cranesbill	2L	Full pot	4
H M W'	Hebe 'Mrs Winder'	Shrubby Veronica 'Mrs Winder'	3L	Bushy; 5 brks	3
H m 'B W'	Hydrangea macrophylla 'Blue Wave'	Hydrangea 'Blue Wave'	5L	Branched; 5 brks	2
H m 'W W'	Hydrangea macrophylla 'White Wave'	Hydrangea 'White Wave'	5L	Branched; 3 brks	3
L per	Lonicera periclymenum	Common Honeysuckle	2L	Caned; several shoots; 2 brks	1
O x b	Osmanthus x burkwoodii	Burkwood Osmanthus	3L	Bushy; 4 brks	3
P lau 'O L'	Prunus laurocerasus 'Otto Luyken'	Cherry Laurel 'Otto Luyken'	3L	Bushy; 3 brks	3
R arv	Rosa arvensis	Field Rose	3L	Branched; 5 brks	2
S i	Salix lanata	Woolly Willow	2L	Branched; 2 brks	4
S co	Sarcococca confusa	a Sweet Box	3L	Bushy; 6 brks	4

Ornamental Shrub mix OM5 (For Easement and POS areas)

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	per m
A sph	Allium sphaerocephalon	Round-headed Leek	2L	Full pot	1
An em	Anemone nemorosa	Wood Anemone	2L	Full pot	1
A dv	Aster divaricatus	White Wood Aster	3L	Full pot	4
B 'B W'	Bergenia 'Bressingham White'	Elephant's Ears 'Bressingham White'	3L	Full pot	3
B m 'J F'	Brunnera macrophylla 'Jack Frost'	Siberian Bugloss 'Jack Frost'	5L	Full pot	2
C x a 'K F'	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass 'Karl Foerster'	5L	Full pot	2
C m 'D'	Carex morrowii 'Ice Dance'	Japanese Sedge 'Ice Dance'	5L	Full pot	4
C ter	Choisya ternata	Mexican Orange Blossom	5L	Full pot	2
C av 'Z'	Corylus avellana 'Zelennus'	Hazel 'Zelennus'	5L	Full pot	1
D c 'Go'	Deschampsia cespitosa 'Goldtau'	Tufted Hair Grass 'Goldtau'	5L	Full pot	2
D f m	Dryopteris filix-mas	Male Fern	5L	Full pot	1
G 'A F'	Geranium Patricia		3L	Full pot	4
He a	Helenium 'Indiansommer'	Sneezeweed 'Indiansommer'	5L	Full pot	1
H arg	Helleborus argutifolius	Corsican Hellebore	5-7.5L	Full pot	2
L n	Laurus nobilis	Bay Laurel	5L	Full pot	2
Ly c	Lysimachia clethroides	Gooseneck Loosestrife	5-7.5L	Full pot	2
MA G SUS	Magnolia 'Susan'	Magnolia 'Susan'	12L	Full pot	1
M sp	Mentha spicata	Spearmint	3L	Full pot	3
M si 'K S'	Miscanthus sinensis 'Kleine Silberspinne'	Eulalia 'Kleine Silberspinne'	5-7.5L	Full pot	2
M ca	Molinia caerulea	Purple Moor Grass	2L	Full pot	1
P v 'H M'	Panicum virgatum 'Heavy Metal'	Blue Switch Grass 'Heavy Metal'	5-7.5L	Full pot	2
R f s 'G'	Rudbeckia fulgida sultivanti 'Goldsturm'	Black-eyed Susan 'Goldsturm'	5L	Full pot	2
SAL AM	Salvia 'Amistad'	Sage 'Amistad'	2L	Full pot	1
S aut	Scotelia autumnalis	Autumn Moor Grass	3L	Full pot	4
V b	Verbena bonariensis	Argentinean Vervain	5L	Full pot	3
V v	Veronicastrum virginicum 'Lavendelturm'	Culver's Root 'Lavendelturm'	5L	Full pot	1
V ma	Vinca major	Greater Periwinkle	5-7.5L	Full pot	2

PLANTING NOTES

General

1. 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-II.
2. 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.
3. 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.
4. 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

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

Tree Planting

7. Tree pits in soft landscape areas:
 - Multi-standard 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.
8. 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.
9. Fit all street trees with aeration/watering pipes and inlets.
10. 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

11. 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.
12. 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.
13. 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 firming.
14. 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

14. Incorporate 75mm of sanitized and stabilized compost (to BSI PAS 100) into topsoil to a minimum depth of 150mm.
15. 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.
16. 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

17. Amenity grass: Turf according to BS 3969 or seed with a suitable amenity grass mix at 35g/m² or per the manufacturer's instructions.
18. Meadow grass: Broadcast seed at 4g/m² for areas of made or disturbed ground. Follow manufacturer's guidelines for preparation and sowing. Ensure thorough seedbed preparation to establish a fine tilth.
- 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

1. 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

2. 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

3. 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.
4. 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

5. 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

6. 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

7. 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