

30% CORAIL (Strong Creeping Red Fescue)
25% CADIX (Perennial Ryegrass)
20% MENTOR (Hard Fescue)
12.5% ZEPTOR (Smooth-stalked Meadow Grass)
7.5% HIGHLAND (Browntop Bent)
2.5% ABERACE (Miniature White Clover)
2.5% ABERROYAL (Browntop Bent)

- A18 is a proven specification for applications such as highway verges, embankments and roundabouts. The mixture establishes quickly on a range of soil types and provides rapid ground cover to prevent gully erosion and loss of soil onto road surfaces

Timing

Planting medium

Allow for min. 450 mm depth topsoil cover for all proposed native, amenity shrubs and ground cover beds with formation cleared of debris / foreign material and broken up to min. 150mm depth to relieve compaction. Allow for min 1cu.m excavation and backfill for each tree station. Proposed amenity grass areas to comprise min 300mm depth free draining soil overlain with min. 150mm depth imported topsoil cover.

Trees in open grass will require proprietary strimmer guards to be fitted in accordance with suppliers recommendations - available from Amenity Land Services (Tel no. 01592 641 949).

Mulch for trees / ornamental shrubs / groundcover is to be an approved type Bark mulch (range 5 - 35mm to be spread throughout all planted areas to a depth of 75mm and topped up annually. Trees in grassland are to be mulched to 75mm depth around the base to a 500mm radius and kept weedfree throughout the establishment period.

Tree stakes are to be untreated softwood, straight pointed at one end, free of bark and without any projections. Stake use will vary according to the species of tree being supported as shown on the drawings. All stakes are to be long enough to project 900mm into the ground and to finish at specified heights above ground after fixing. Tree stakes are to be set to the windward side of trees in advance of planting unless otherwise requested. Stakes should be driven to a minimum depth of 900mm finishing 600mm above ground.

Ground Anchors (14-20cm girth trees)

ANS tree anchors are to be Platipus tree anchoring system RF IP or similar approved type including Plati-Mats. Irrigation system for standard and larger trees is to be Piddler Tree irrigation or similar approved type sized to suit rootball dia. All available from Amenity Land Services (Tel no. 01592 641 949).

Each year check monthly (April to October) the health and vigour of all trees, shrubs and groundcover and prune to remove dead branches, maintain good form and encourage flowering once annually at an appropriate time. Tree pruning is to be undertaken in accordance with the current British Standard 3998

Allow for clearing litter from planting beds

Keep all planted areas weed free at all times, top up mulch to all planted areas to maintain 75mm depth at least once annually. Maintain a fully mulched, weed free 1m ring around each tree in open grass areas. Each year any plant material which is dead, dying or failing to thrive is to be replaced on a like for like basis during the first planting season (October to March) following failure.

Allow for checking / firming tree stakes / soil around rootballs and adjusting tree ties at least monthly. Remove tree ties and stakes after 2-3 years.

Allow for **strimming / mowing** amenity grassland areas upto 13 times annually and for re-levelling, seeding and reinstatement of any damaged areas of grass. Delay cutting bulb areas under trees and around shrub beds where indicated to suit flowering period of bulbs.

Allow for watering all shrubs, perennials, green screens and newly established grass areas to full ground capacity as required, checking weekly during times of drought, and watering to full ground capacity on each occasion.

Standard and larger tree irrigation - Generally, trees may need to be watered regularly from April to October during the establishment period in accordance with the following schedule.

Year one - Allow for irrigating fortnightly between May and September inclusive (10 irrigation visits), however if no significant rainfall is received during April start cycle one month early (12 irrigation visits in total).

Year two - Allow for irrigating once in May and September and fortnightly June, July, August (8 irrigation visits) however if no significant rainfall is received during April start cycle one month early (9 irrigation visits in total).

Year three - Allow for irrigating once in June, twice in July, once in August (4 irrigation visits)

NB - Summer showers that may seem heavy do not penetrate more than 5cm of soil and do little to help the tree establish, accordingly fortnightly watering should be a regular routine regardless of summer rainfall.

Standard and larger trees are to be fitted with proprietary irrigation tubes as described, trees in open amenity grassland are to be planted into localised 1000-1200mm dia depressions 50-100mm deep to localise the infiltration of water during irrigation.

As a general rule provide 50 litres for every 25cm of trunk circumference. Apply half the water via the irrigation pipe (if fitted) and half over the surface of the pit area, so that it soaks into the area of the root system. Take care to ensure that water does not run off the surface, taking it away from the tree. If necessary form berms to the edge of the pit area, to retain the water as it is applied. Use this table as a guide for the amount of water to be delivered at each watering:

During periods of exceptionally wet weather do NOT water if the ground around the rootball is sodden, delay watering for one week and re-assess. If water is puddled on top of the rootball or pit area then gently use a fork to create holes around the edge of the tree pit, not too close to the rootball, to increase drainage and to stop the soil becoming anaerobic. Remove any water that does not drain away significantly from the surface of the rootball with a bucket.

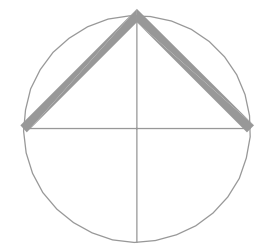
During periods of severe drought - before watering use a fork to create holes around the edge of the tree pit, not too close to the rootball, to increase permeation of water and deliver 1.5 times the amount of water stated in the above table. After watering cover the entire pit area with bark mulch to a depth of 75mm as described.

Shrub planting (~3/sq.m)	Height	Grown	No.	Notes
Brachyglottis Sunshine	30-40cm	PG 3L	10	Bushy
Cornus alba Sibirica	60-90cm	BR	45	1 + 2
Cornus flaviaramea	60-90cm	BR	45	1 + 2
Cornus kelseyi	20-30cm	PG 2L	10	Bushy
Euonymus Emerald and Gold	20-30cm	PG 2L	20	Bushy
Euonymus Silver Queen	20-30cm	PG 2L	20	Bushy
Hebe Autumn Glory	20-30cm	PG 2L	10	Branched
Hebe rakiensis	20-30cm	PG 2L	5	Branched
Hypericum moserianum	20-30cm	PG 2L	20	Bushy
Hydrangea macro White	30-40cm	PG 2L	10	Branched
Lavandula Hidcole	20-30cm	PG 2L	5	Bushy
Lonicera May Green	30-40cm	PG 2L	15	Branched
Potentilla frutic Abbotswood	30-40cm	PG 2L	10	Bushy
Potentilla frutic Elizabeth	30-40cm	PG 2L	15	Bushy
Prunus laur' Otto Luyken	20-30cm	PG 2L	15	Branched
Santolita chamaecyparissus	20-30cm	PG 2L	10	Bushy
Spiraea Goldmound	30-40cm	PG 2L	15	Bushy
Symphoricarpos albus	40-60cm	BR	45	0 + 1
Symphoricarpos chen Hancock	30-40cm	PG 2L	5	Branched
Viburnum opulus Compactum	30-40cm	PG 2L	45	Branched

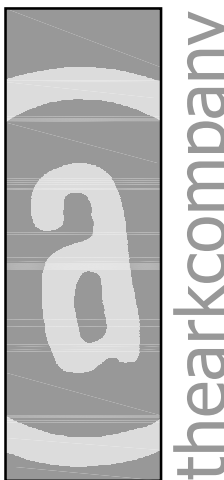
Note: To be planted in single species groups in mixed shrub beds unless shown otherwise

Feathered Trees (16no.)	Height	Grown	No.	Notes
AL - Amelanchier lamarckii	2.1-2.4m	OG	2	low stake
AG - Alnus glutinosa	2.1-2.4m	OG	1	low stake
BP - Betula pendula	2.1-2.4m	OG	2	low stake
BJ - Betula utilis Jacquemontii	2.1-2.4m	OG	1	low stake
ME - Malus Evereste	2.1-2.4m	OG	2	low stake
PC - Pyrus Chanticleer	2.1-2.4m	OG	2	low stake
PV - Pinus sylvestris	1.8-2.1m	Air PG	1	ground anchor
SA - Sorbus aucuparia Asplenifolia	2.1-2.4m	OG	2	low stake

Heavy Standard Trees (5no.)	Girth	Grown	No.	Notes
AcS - Acer campestre Streetwise	12-14cm	Air PG	1	ground anchor
PA - Prunus avium Plena	12-14cm	Air PG	1	ground anchor
PS - Prunus Snow Goose (Umineko)	12-14cm	Air PG	1	ground anchor
SA - Sorbus aucuparia Asplenifolia	12-14cm	Air PG	1	ground anchor
SI - Sorbus intermedia	12-14cm	Air PG	1	ground anchor



revision v1.3 (Mar 2018) - Updates to suit WCBC planning comments
revision v1.2 (Feb 2018) - Updates to suit WCBC planning comments
revision v1.1 (Jan 2018) - Updates to suit WCBC planning comments



7 The Highway, Hawarden, Flintshire, CH5 3DG Tel.01244 534342
www.thearkcompany.co.uk info@thearkcompany.co.uk

WD Stant Ltd.
Land at Maesteg - Gwynfryn

Proposed residential development

Soft landscape proposals

Dwg.No. 08/107/01

v1.3

A1 @ 1/200

Nov 2017