



## PLANTING SPECIFICATION

### General Guidance

All plant handling 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'.

All planting to conform to National Planting Specification Guidelines.

The individual setting out of plants on site shall be the responsibility of the contractor and shall 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 drawings.

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

All arisings 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 SCD 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 rootball trees must have been transplanted or undercut 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 plantings works is to be stored in heaps no greater than 1.2m in height and is to be kept weed free at all times. Vehicles should be prohibited from tracking over any extent of the storage heaps. Apply proprietary herbicide to any perennial weeds and allow a period of time recommended by manufacturer to elapse before disturbing and re-using elsewhere on site.

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 800mm deep for trees in soft planted areas including grass/hubs/areas and rear gardens.
- Backfill the pits in layers as specified below (from bottom up):
- 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane.
- 600mm layer of retained site sourced topsoil (free from weeds), imported topsoil (Multi-purpose grade to BS3882:2007); 400mm layer for feathered trees or smaller.

Break up bottom of tree pit to a depth of 200mm and ensure ground is free-draining.

Loosen edges of tree at time of planting by hand, using a fork to ensure good drainage. Pits should be excavated no greater 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 mushroom compost into backfill material at the rate of min. 40L per pit.

Backfill topsoil in layers of 150mm, firming at each layer and loosening the 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 to be dressed with a minimum 75mm mulch layer, consisting of pine bark fines, particle size 15-50mm in a min. diameter of 1000-1200mm where appropriate.

Extra-heavy standard trees shall be staked and supported with a low, double stake consisting of 200-250mm diameter x min. 2000mm length, rounded timber posts driven into the ground, 600mm above ground level and fixed to the tree by a proprietary rubber tree tie / horizontal cross support.

Standard trees shall be staked and supported with a low, single stake consisting of 40-75mm 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 pipe with integral cap. Pipe to be installed encircling equally around rootball 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 stake.

All trees in grass areas to be protected by min. 225mm high x 12-15mm diam. proprietary plastic strimmed/rope guards. Where trees have a basal trunk diameter greater than 120mm 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 in accordance with the guidance contained in Table 3 of BS 5837:2005 'Trees in Relation to Construction - Recommendations' and Appendix 4.2P of the NERC Standards 'Trees in Relation to Construction'.

For all proposed trees centred in a location within 3m of an adjacent hard standing/footpath or carriage way/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 restraint 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 'Retoot 300' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 600mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.
- For trees adjacent to hard standings incorporating underground services; install the following dependent on the depth of underground services:
  - For services 450mm deep
    - 'Retoot 600' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 600mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.
  - For services 800mm deep
    - 'Retoot 1000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 1000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.
  - For services deeper than 800mm
    - 'Retoot 2000' by GreenBlue Urban (01424 717797) or equal approved,

**Excavations**

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**Excavations 450mm deep**

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**Excavations 800mm deep**

- 'Retoot 1000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 1000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**For services deeper than 800mm**

- 'Retoot 2000' by GreenBlue Urban (01424 717797) or equal approved,

**Excavations 1500mm deep**

- 'Retoot 3000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 1500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 2000mm deep**

- 'Retoot 4000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 2000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 2500mm deep**

- 'Retoot 5000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 2500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 3000mm deep**

- 'Retoot 6000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 3000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 3500mm deep**

- 'Retoot 7000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 3500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 4000mm deep**

- 'Retoot 8000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 4000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 4500mm deep**

- 'Retoot 9000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 4500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 5000mm deep**

- 'Retoot 10000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 5000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 5500mm deep**

- 'Retoot 11000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 5500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 6000mm deep**

- 'Retoot 12000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 6000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

ribbed root barrier membrane, to a depth of 2000mm, ribs facing tree, joints fixed with jointing tape, install 10mm 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 kerbs / edging faces.

**Shrub Planting**

Plant shrubs and groundcover into pre-prepared planting beds consisting of topsoil to a depth of no less than 400mm, covering clean subsoil, mixed with soil conditioner as specified below.

Subsoil to be fully broken-up by main contractor to ensure adequate decompaction and alleviate free-drainage.

Topsoil to be either: existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2007) 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 across planting bed in a 50mm layer at the rate of 300g per m<sup>2</sup>, and incorporate to a depth of 225mm.

Dig planting holes for shrubs to be a depth of 200mm and a width or 150mm greater than the source pot size, ensuring that pit walls are loosened to ensure good drainage.

Install a proprietary geo-textile weed suppressant membrane onto the surface of the pre-prepared shrub planting beds with minimum 300mm gaps. Cover with a nominal 50mm layer of topsoil (as 4.2 above) prior to commencing planting and the installation of the mesh layer.

Ensure planting appears random / natural and not formal in accordance with the planting proposal layouts as supplied by the Landscape Architect.

All shrub areas to be dressed with a minimum 50mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.

The contractor shall take the necessary precautions to ensure all shrub areas are protected throughout the establishment period by temporary fencing.

**Excavations 6500mm deep**

- 'Retoot 13000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 6500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 7000mm deep**

- 'Retoot 14000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 7000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 7500mm deep**

- 'Retoot 15000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 7500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 8000mm deep**

- 'Retoot 16000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 8000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 8500mm deep**

- 'Retoot 17000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 8500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 9000mm deep**

- 'Retoot 18000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 9000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 9500mm deep**

- 'Retoot 19000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 9500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 10000mm deep**

- 'Retoot 20000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 10000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 10500mm deep**

- 'Retoot 21000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 10500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 11000mm deep**

- 'Retoot 22000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 11000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 11500mm deep**

- 'Retoot 23000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 11500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 12000mm deep**

- 'Retoot 24000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 12000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 12500mm deep**

- 'Retoot 25000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 12500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 13000mm deep**

- 'Retoot 26000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 13000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 13500mm deep**

- 'Retoot 27000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 13500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

Seeded areas are to consist of min. 150mm topsoil; either existing retained site sourced topsoil (free from weeds) or imported topsoil (sandy loam, General Purpose grade to BS3882) or a combination of the two as necessary.

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

Final preparation of the seeded areas shall be carried out as to create a fine 5th 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 Rotolux Ltd, slow-release granular fertiliser, 7:10:10 NPK; or equal approved by Landscape Architect.

The area(s) is to be seeded between April and October with approved grass seed mix, as specified in the planting schedules 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.

**Excavations 14000mm deep**

- 'Retoot 28000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 14000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 14500mm deep**

- 'Retoot 29000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 14500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 15000mm deep**

- 'Retoot 30000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 15000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 15500mm deep**

- 'Retoot 31000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 15500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 16000mm deep**

- 'Retoot 32000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 16000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 16500mm deep**

- 'Retoot 33000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 16500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 17000mm deep**

- 'Retoot 34000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 17000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 17500mm deep**

- 'Retoot 35000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 17500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 18000mm deep**

- 'Retoot 36000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 18000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 18500mm deep**

- 'Retoot 37000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 18500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 19000mm deep**

- 'Retoot 38000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 19000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 19500mm deep**

- 'Retoot 39000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 19500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 20000mm deep**

- 'Retoot 40000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 20000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

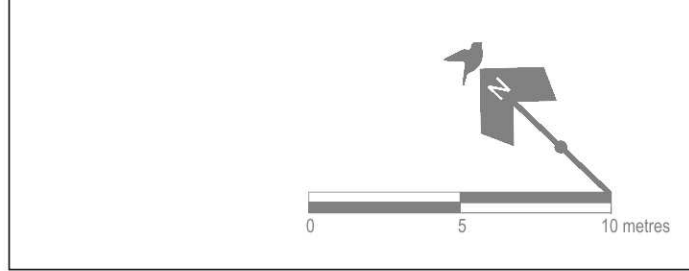
**Excavations 20500mm deep**

- 'Retoot 41000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 20500mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

**Excavations 21000mm deep**

- 'Retoot 42000' by GreenBlue Urban (01424 717797) or equal approved, ribbed root barrier membrane, to a depth of 21000mm, ribs facing tree, joints fixed with jointing tape, install 10mm above final surface level of soft landscaping.

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NOTE:

- Refer to CSA/2325/112 for Planting Schedule and Legend
- Refer to document CSA/2325\_06 for Management Plan
- Refer to CSA/2325/110-111 for Hard Landscapes Proposals

Date	By	Description
13.04.16	AB	General updates following LPA comments
22.03.16	AB	Minor updates to plant species
03.01.16	AB	Updates to specification
15.12.15	AB	Minor updates

Revision Date By Description

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**CSa**  
environmental planning

Project: Land West of Chesterton, Oxfordshire

Title: Soft Landscape Proposals  
Sheet 2 of 2

Client: Taylor Wimpey UK Ltd

Scale @ Size	1:250 @ A1	Drawn	AB
Date	July 2015	Checked	GC
Drawing Number	CSA/2325/113	Revision	E