Structural Soil Tree Pit Design

Planting hole dimensions at surface: 1.2m x 1.2m

Tree pit depth 1.0m-1.5m

Rootball irrigation system for establishment period, alternatively Treecators could be used above ground

Topsoil to fill the planting hole supplied to BS3822:2015

Tree grille or resin-bound gravel

Concrete planting frame available from stockholmtreepits.co.uk

Separation geotextile 100-300g/m²

Root barrier material or ducting positioned around sewage and surface water pipes only and not around the tree pit. Pipe bed aggregate (4/10mm) installed as protection around pipes, cables and ducting

Structural soil Crushed rock (32/63mm) with an enriched biochar/compost mix (15% volume)

Underground guying system Gripple 4-point anchoring system (DMK3) or similar

Compacted structural soil platform to support the rootball Adjust for appropriate planting height (root flare at ground level)

Some infiltration into surrounding soils

Outfall to stormwater management system (only required if there is inadequate ground infiltration)

Perforated pipe undrain Filtration geotextile

Gully grate 100-150mm surface and base course 50mm levelling layer (6/14mm crushed rock) 150mm aeration layer (32/63mm crushed rock)

Aeration well available from stockholmtreepits.co.uk

Silt trap at base of aeration well emptied using standard gully sucker

Carbon dioxide

stockholmtreepits.co.uk