



GeoTrax GC[®] Installation Guidance

This field guide is provided as an aid to installation in commonly encountered site conditions. Groundtrax accepts no responsibility for any loss or damage resulting from the use of this guide.

1. Prepare the Surface

- Remove the surface vegetation using appropriate hand held tools or herbicide (see Note 1).
- Remove any surface rocks, debris and organic material.
- Create a level surface by filling any hollows with clean angular stone or sharp sand.
- Do not level off high spots or compact the soil through rolling.

2. Lay out the TRP4000[™] Non-Woven Geotextile

- Lay out the TRP4000[™] over the prepared area, overlaying the edges of the required area by 300mm.
- Overlap any joints by 300mm minimum or more, depending on soil structure (see Note 2).

3. Lay out the Geotrax GC[®] TRP Cellular Confinement System

- Lay out the collapsed Geotrax GC[®] TRP on-top of the TRP4000[™].
- Place one of the supplied steel re-bar pins into the centre cell at the end of the panel and secure into the ground.
- Pull out the Geotrax GC[®] TRP to its full 7.41m length and secure its length with another pin.
- Now measure its width to 2.71m and secure in each of the corners with the pins.
- Use 10 pins per panel to create a panel measuring 7.41m x 2.71m.
- This will produce a cell size of 259mm x 224mm which is the required cell aperture. Each cell must be fully extended and under tension.
- Connect adjacent panels together at each cell.

4. Infill the Clean Angular Stone

- The infill material must be a clean angular stone, Type 4/20mm or Type 20/40mm (see Note 4).
- Do not use M.O.T type 1 or crushed stone with fines for tree root protection.
- Infill the Geotrax GC[®] TRP cells with the clean angular stone, working towards the tree and using the infilled panels as a platform.
- Minimum 25mm overfill of clean angular stone when used in conjunction with a hard surface.
- No compaction is required of the infill. Do not use a whacker plate or other means of compaction.
- Encourage settlement of the stone with the use of a light roller or with 2-3 passes of the construction plant used for installation.
- If the clean angular stone is being used as the final surface; regular maintenance will be required to ensure a minimum overfill of 50mm.

5. Edge Restraints

- Excavations for kerbs and edgings should be avoided within the RPAs.
- Where edging is required for footpath and light structures, a peg and treated timber board edging is acceptable.
- Other options include wooden sleepers, kerb edging constructed on-top of the Geotrax GC[®] TRP system, plastic and metal edging etc.

6. Surface Options

- All surfaces in Root Protection Areas must be porous. Surfaces can include porous block paving, porous asphalt, loose gravel, grass and gravel retention systems (e.g CellPave), resin bound gravel, concrete and astro turf.

NOTES

1. Herbicide: According to BS5837:2012 “The use of herbicides in the vicinity of existing trees should be appropriate for the type of vegetation to be killed, and all instructions, warnings and other relevant information from the manufacturers should be strictly observed and followed. Care should be taken to avoid any damaging effects upon existing plants and trees to be retained, species to be introduced, and existing sensitive habitats, particularly those associated with aquatic or drainage features.”
2. Geotextile: We recommend the installation of a TRP4000™ under the Geotrax GC[®] TRP, or under the sub-base, if installed. The overlapping between adjacent rolls of Geotextile should be: CBR > 3%: 300mm minimum, CBR between 1% and 3%: 500mm minimum. CBR ≤ 1%: 750mm minimum.
3. Connectors: Number of connectors per panel = 29
4. Granular Fill: Open graded sub-base, clean angular stone Type 4/20 or Type 20/40. Please refer to BS7533-13:2009

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