Temporary Ground Protection
Cellweb® TRP
BS 5837:2012

The British Standards BS 5837:2012 Trees in relation to design, demolition and construction recommendations states that:

“New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.”

Cellweb® TRP in RPA’s

The Cellweb® TRP Tree Root Protection system is a 3D cellular confinement system specifically designed to prevent root severance and the compaction of soils within root protection areas (RPA’s). Treetex™ geotextile which is laid below the Cellweb® TRP system directly on the existing ground surface, ensures the prevention of contamination of the RPA by hydrocarbon pollutants. The system is completely permeable ensuring the continued permeation of water and gaseous exchange between the rooting environment and the atmosphere.

The Cellweb® TRP Tree Root Protection system has been used successfully since 1998 for the construction of new hard surfaces within RPA’s in accordance with BS 5837. As specifiers and local authorities look for more reliable forms of temporary ground protection during construction and demolition, Cellweb® TRP is increasingly becoming the system of choice.
Why use Cellweb® TRP?

- Cellweb® TRP is available in four different depths (75mm, 100mm, 150mm and 200mm), providing temporary ground protection against additional loads from pedestrian traffic to construction plant and HGV delivery lorries.

- Geosynthetics Limited in house Engineers provide preliminary calculations and technical recommendations based on site specific conditions. This ensures that it is capable of supporting proposed loadings “without being distorted or causing compaction of the underlying soil”. (BS 5837 2012)

- Geosynthetics Limited Arboriculturalists and technical specifiers are able to offer on-site advice from design to installation.

- Often construction and demolition must take place in confined working areas where working inside the RPA is unavoidable. As indicated in diagram 1 Cellweb® TRP is the perfect solution for the creation of temporary working areas or access routes.

- In the post construction and demolition stage of a development Cellweb® TRP temporary ground protection can be easily removed. The Cellweb® TRP can be teased from the clean angular stone infill, leaving the stone on the surface and the Treetex™ geotextile. The stone can then be removed using hand tools or plant that operates from an intact adjacent section of Cellweb® TRP. This enables the operator to remove the stone working backwards out of the RPA. (See Diagram 2)

- Cellweb® TRP can be constructed stacking one panel on top of another. This can be used to overcome changes in existing ground levels and also enables us to create temporary protection capable of protecting against loads applied by construction traffic during development. After the construction stage, the top layer of the Cellweb® TRP can be removed leaving the lower layer of Cellweb® TRP for the construction of new permanent surfacing capable of protecting against loads applied by domestic traffic. This means that the top layer is sacrificial and is only present during construction and demolition. (See image 1)

Further Information:
For advice on the specification or installation of Cellweb® TRP as temporary ground protection please contact our Tree Root Protection team on 01455 617139 or visit www.geosyn.co.uk for more information.