Hy-Tex **Hycell** Cellular Confinement and Reinforcement Geo-cells

Hycell is a cellular matrix of interconnecting polymer strips that form pockets to locate and strengthen the fill material. The polymer strips confine the filling material and significantly improve tensile strength to very effectively increase the shear resistance and cohesion of the fill.

Hycell Soil Erosion Control

Basal Reinforcement ● Slope Stability ● Liner Protection

Some Typical Applications

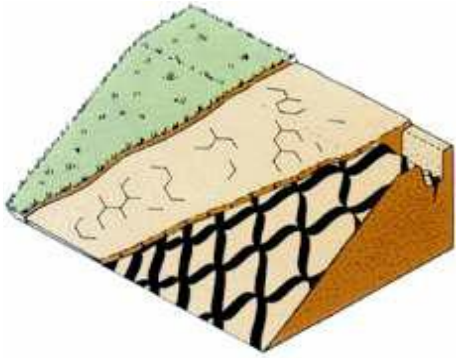
Protection and vegetation for steep slopes and spoil tips
Reinforced grass surfaces for access roads, car parks, fire access etc
No dig drive tree root protection
Basal support for block paving under heavy loading
Sand dune stabilisation
Liner protection to lakes and ornamental ponds

NO DIG ROADS OVER TREES

Tree Root Protection Hycell provides a flexible and permeable solution for protecting tree roots, creating a robust and stable platform for constructing vehicular access paths within the root protection area of existing trees without damaging the roots.

The cellular structure and perforated cell walls of Hycell, reduces the vertical load pressure on sub soils to tree roots and prevents damage. With clean granular materials as infill air and moisture can reach the roots to encourage healthy prolonged growth.

With no-dig solutions being the preferred option, Hycell, combined with a base layer of Terralys LF16/16 separator geotextile, is ideal as only the surface vegetation need be removed. As well as avoiding disruption to the roots this reduces construction times and costs as well as controlling surface rutting to increase the long-term performance and aesthetics of the final surface.

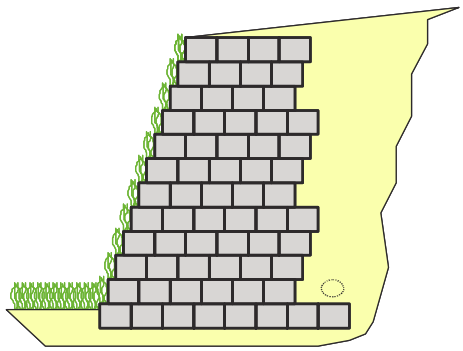


SLOPE STABILISATION

Hycell is supplied in flat perforated panels which, when expanded on site, provide 24m² of ground cover.

Using this inexpensive system it is possible to reduce foundation stone thickness by up to 50%. Laid over steep slopes the polymer strips provide a tensile force effectively increasing the cohesion of the material and acting as mini-weirs to reduce run-off and soil loss.

Fixing pins are required at a rate of 20 to 45 per panel depending on conditions.



VEGETATED RETAINING WALLS

Technical Specifications	**Hycell 100**	**Hycell 150**	**Hycell 200**
Colour	Black		
Material[1]	High Density Polyethylene		
Material Thickness	1.20mm		
Panel Size (fully expanded)	6.00 x 4.00m		
Cell Diameter	300mm		
Cell Height	100mm	150mm	200mm
Junction Tensile Strength[2]	1,200N	1,800N	2,400N
Material Tensile Strength	22kN/m	22kN/m	22 kN/m
Panel Weight	24kg	36kg	48kg

Life expectancy (Including Joints) 120 years.
1 Tested in accordance with BSEN 964-1
2 Tested in accordance with BSEN ISO 10319
Panel size, height and cell diameter can also be made in sizes to suit customer's requirements

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