

GeofanCell Range

Technical Data Sheet

GeofanCell Jan. 2018

GeofanCell is an innovative cellular product that provides cost effective solutions for subgrade stabilization, erosion control and channel protection. GeofanCell is a lightweight, flexible cellular structure made of polyethylene strips, ultrasonically bonded together to form an extremely strong configuration of individual cell structures that confine soil or aggregates.

GeofanCell can be supplied perforated (as the photograph illustrates) to allow free-flow of water and can be supplied with plastic fixings for easy and rapid installation.



Horizontal Applications - GeofanCell can be laid horizontally and filled with any site-won fill to provide instant subgrade stabilization by reducing the lateral displacement of aggregate materials, thus offering improved design life and reduced rutting.

Slope Erosion Control - the individual cell structures of GeofanCell confine the movement of soil material along the exposed surfaces of cut slopes during rain events. The pockets can be filled with topsoil to promote vegetal growth, which will further reduce erosion.

Channel Scour Protection - when filled with aggregate GeofanCell is used to protect hydraulic channels against scour action by increasing shear resistance.

Physical properties

| Properties | Units | Standard | Large |
|-------------------------------|-------|----------------------------|----------------------------|
| Weld spacing | mm | 330 | 660 |
| Cell depth | mm | 50, 75, 100, 150, 200, 300 | 50, 75, 100, 150, 200, 300 |
| Unexpanded panel size | m | 3.19 × 0.120 × panel depth | 3.19 × 0.120 × panel depth |
| Expanded panel size | m | 2.44 × 6.1 | 2.44 × 6.1 |
| Panel weight (100mm depth) | kg | Max 25kg | Max 12.5kg |
| Effective coverage area | sqmts | 18 | 18 |
| Aperture size | mm | 240 × 205 | 485 × 405 |

Polymer Properties

| Properties | Units | Standard | Specification |
|--------------------------------------|-------------------|--------------|---------------|
| Color | | black | black |
| polymer | | polyethylene | polyethylene |
| density | g/cm ³ | ASTN D 1505 | 0.939-0.960 |
| Sheet thickness | mm | ASTM D 5199 | ≥1.1 |
| Carbon black content | % by weight | Min 2% | Min 2% |
| Seam strength AS 3706.6(modified) | N/10cm | | ≥1000 |

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GFT keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GFT does not warrant its accuracy or completeness. The only warranty made by GFT for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without agreed by GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade



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