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Product Specification Sheet

AGA GEOCELL

Soil confinement / Reinforcement web / Tree root protection system

AGA Geocell is a cellular matrix of interconnecting polymer strips that form pockets to locate and strengthen fill material. The polymer strips confine the filling material and provide a tensile strength, very effectively increasing the shear resistance and cohesion of the fill.

Typical applications

AGA Geocell cellular confinement system supports a viable layer of topsoil on the slopes and banks of roads, railways rivers and coastal areas etc. and offers protection over tree roots.

Product materials

HDPE (Black)

U. V. Stability. Carbon black shall be used for ultra-violet light stabilization. Carbon black content shall be 1.5% - 2% by weight. Hindered Amine Light Stabilizer (HALS) 1.0% by weight of carrier.

Product construction

Sheet thickness. 1.00 mm \pm 10% tested per ASTM D5199.

Thickness shall be determined in the flat, before any surface texturing or other surface disruption.

Drainage perforations. Horizontal rows of 10mm diameter holes.

Perforations within each row shall be 19mm on centre. Horizontal rows shall be staggered and separated 12mm relative to the hole centres. Outer perforation centres shall be at least 6mm from the strip edges.

Perforations shall be such that the peak friction angle between the surface of the perforated plastic and a loose #40 silica sand at 100% relative density shall be no less than 85% of the peak friction angle of the silica sand in isolation when tested by the direct shear method per ASTM D 5321.

Total open area. 16% (\pm 10%) of the cell wall area.

Environmental Stress Crack Resistance (ESCR). >5000 hour tested per ASTM D1693.

Cell seam strength . 2100 N for the 100 mm depth cell. Uniform over the full depth of the cell. Short-term peel strength shall be tested per PRS PTM 0313,

Seam Strength Hang Test. A 100mm wide seam sample shall support a 72.5 kg load for a period of 30 days minimum in a temperature-controlled environment.

Panel Depth:

100mm – 200mm

Panel length:

8m (40 cells)

Panel Width:

2.5m (10 cells)

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