



Geosynthetics

E'GRID PRODUCTS are advanced geosynthetics with a competitive range of engineering properties including strength, modulus, weathering resistance, corrosion resistance and creep performance that are the equal of any others in the world.

E'GRID Bi-Axial Geogrids

Balanced structures with high stiffness and equal MD and TD strength designed to maximise efficient interlock with compacted fill. Mainly used for reinforcement of soft ground reducing the influence of intermittent traffic loading.

E'GRID Uni-Axial Geogrids

Main characteristics are high strength and low creep. Mainly used for reinforcement of walls, abutments and slopes under long term high loading.

Polymers and master-batch for the production of E'GRID Products have been strictly tested and selected and performance confirmed in the company's research and development laboratories.

The production line is fully monitored by computerised automatic control systems.

Production is tested and quality controlled in strict accordance with International Standards and stable properties are guaranteed.



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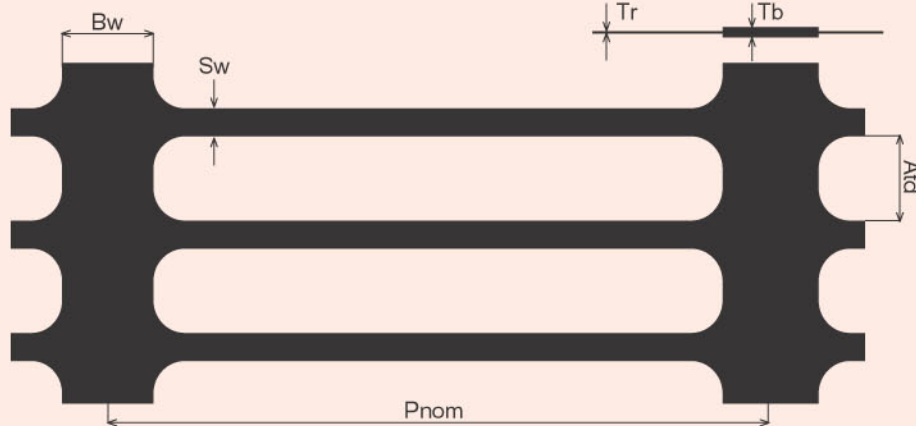
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The New Force in Geosynthetics

E'GRID is a registered Trade Mark
BOSTD Geosynthetics Qingdao Ltd. declares that all information is correct at the time of printing but reserves the right to make changes at any time.

Specifications

Product	Properties								Typical Dimensions mm						
	Tensile Strength (KN/m) (1)	Tensile Load (KN/m)		Typical Strain at Peak Load (%)	Ultimate Creep Limited Strength For 120 Years (KN/m)(2,3)			Weight (Kg/m ²)	Atd	Bw	Sw	Tb	Tr	Pnom	Standard Roll Sizes(5)
		2% strain	5% strain		10°C	20°C	30°C								
E'GRID 170R	170.0	52.5	103.0	11	75.8	68.3	61.5	1.1	16	18	6	7.4	2.0	255	50m ² (1.0mX50m)
E'GRID 130R	141.9	38.0	75.5	11	63.3	57.0	51.3	0.8	16	18	6	5.6	1.6	255	50m ² (1.0mX50m)
E'GRID 110R	112.0	29.9	56.5	11	49.9	45.0	40.5	0.7	16	18	6	5.0	1.3	255	50m ² (1.0mX50m)
E'GRID 90R	90.0	23.7	45.2	11	40.2	36.2	32.6	0.55	16	18	6	4.1	1.1	255	50m ² (1.0mX50m)
E'GRID 65R	68.7	16.1	30.9	11	30.6	27.6	24.8	0.4	16	18	6	2.9	0.8	245	50m ² (1.0mX50m)
E'GRID 50R	54.0	12.7	24.7	11	24.1	21.7	19.5	0.3	16	18	6	2.1	0.6	235	50m ² (1.0mX50m)



- Note 1** Measured in accordance with ISO10319 at 20 ± 2°C; calculated as the 95% lower confidence limit in accordance with ISO2602 1980 (BS 2846 Part 2 1981).
- Note 2** Calculated from data obtained in accordance with ISO13431; creep strength predicted for 120 years design life, taking account of prediction and Production.
- Note 3** For in-soil design temperatures as shown.
- Note 4** In accordance with BS2782 Part 4, Method 452B, 1993.
- Note 5** Other roll sizes are available to order

Polymer: High Density Polyethylene

Resistance to Ultra-violet Light:

A high level of resistance to U-V Light is given to E'GRID Geogrids by the incorporation of ≥2% of weathering-grade carbon black⁽⁴⁾, well dispersed in the polymer matrix. These products may be used for many years in exposed conditions.

Creep Performance:

A good creep performance under sustained loading is essential for the use of geogrids in critical structures such as walls, abutments and steep embankments. BOSTD Geosynthetics Qingdao Ltd. maintains constant Creep testing programmes in its laboratories and works closely with National and International experts in the performance of geogrids to ensure that its products meet the strictest demands in all markets.

Chemical and Biological Resistance:

E'GRID uniaxial Geogrids are manufactured from high density polyethylene which is unaffected by all chemicals, including acids, alkalis and salts, normally found in soils. Also, it is not a nutrient, therefore, these products are not affected by micro-organisms in soil.

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