

## E'GRID UNIAXIAL GEOGRIDS

E'Grid Uniaxial geogrids from Wrekin are manufactured from high density polyethylene (HDPE), which is punched and drawn to create long apertures in the principle load carrying direction. Used in the reinforcement of walls and slopes, its principle characteristic is good creep performance with low strain and high strength under constant load.

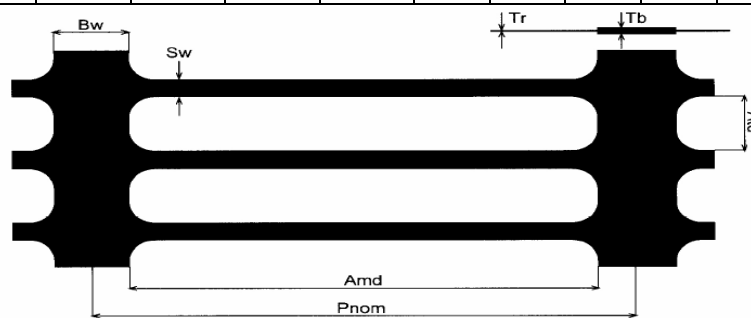
Reinforced soil retaining walls can be constructed using Uniaxial E'Grid with a variety of faces, these structures can accommodate base deformation and have particularly good resistance to vibration and earthquakes. E'Grid reinforcement can improve the bearing capacity and safety of a structure whilst helping to reduce construction costs.

### Applications include:

- Reinforcement of soil walls and abutments.
- Soil slopes alongside roads and railways.

### Specification & Dimensions

Properties								Typical Dimensions (mm)								
Product	Roll Size	Weight KG/M <sup>2</sup>	Tensile Strength (KN/M)	Load at 2% Strain (KN/M)	Load at 5% Strain (KN/M)	Typical Strain at Peak Load (%)	Ultimate Creep Limited @ 120 Years (KN/M)			Amd	Atd	Bw	Sw	Tb	Tr	Pnom
							10 °C	20 °C	30 °C							
E'GRID 50R	1 x 50/100	0.30	54.0	12.7	24.7	11.5	24.1	21.7	19.5	225.0	16.0	18.0	6.0	2.1	0.6	235
E'GRID 65R	1 x 50/100	0.40	68.7	16.1	30.9	11.5	30.6	27.6	24.8	230.0	16.0	18.0	6.0	2.9	0.8	245
E'GRID 90R	1 x 50/100	0.55	90.0	23.7	45.2	11.5	40.2	36.2	32.6	240.0	16.0	18.0	6.0	4.1	1.1	255
E'GRID 110R	1 x 50	0.70	112.0	29.9	56.5	11.5	49.9	45.0	40.5	240.0	16.0	18.0	6.0	5.0	1.3	255
E'GRID 130R	1 x 50	0.80	141.9	38.0	75.5	11.5	63.3	57.0	51.3	245.0	16.0	18.0	6.0	5.6	1.6	255
E'GRID 170R	1 x 50	1.10	176.0	52.5	103.0	11.5	75.8	68.3	61.5	245.0	16.0	18.0	6.0	7.4	2.0	255



- 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 into 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.

All E'Grid types are CE-certified by an independent notified body.  
E'Grid is a registered Trade Mark.



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GEO FOR SUDS • CELLTRACK • TURF MESH • EROSION CONTROL • WEEDSTOPPA