

**PARAGRID® 90/5**

**STRIP BONDED GEOGRIDS WITH HIGH TENACITY POLYESTER CORE**

ParaGrid® geogrids are planar structures consisting of a biaxial array of composite geosynthetic strips. The strips comprise of a core of high tenacity polyester tendons encased in a polyethylene sheath. ParaGrid® geogrids are CE certified for reinforcement applications according to EN 13249:2016, EN 13250:2016, EN 13251:2016, EN 13253:2016, EN 13254:2016, EN 13255:2016, EN 13257:2016, EN 13265:2016, and BBA HAPAS certified (16/H249 Product Sheet 1) to comply with the design done according to the BS 8006 and to meet the requirements of Highways England and local highway authorities.

ParaGrid®		90/5	Note	
<b>Mechanical properties</b>				
Avg. tensile strength - MD	EN ISO 10319	kN/m	96	1
Tolerance		kN/m	- 6	1
Nominal strain at T <sub>ch</sub> - MD		%	9.0	1
Avg. tensile strength - CMD		kN/m	6	1
Tolerance		kN/m	- 1	1
Nominal strain at T <sub>ch</sub> - CMD		%	9.0	1
<b>Physical Properties</b>				
Strip reinforcement polymer			PET	
Strip coating polymer			PE	
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	397	2
Strip width - MD		mm	24	3
Strip width - CMD		mm	24	3
Grid size warp/weft		mm	75 x 450	3
Grid aperture warp/weft		mm	51 x 426	3
Roll width		m	3.90	4
Roll length		m	80	5
Roll weight		kg	134	2
<b>Durability, Environmental and Sustainability Properties</b>				
Content of SVHC	ISO 14025 EN 15804	%	≤ 0.1	6
Global Warming Potential Total (GWP)		kg CO <sub>2</sub> Eq.	≤ 1.01E-01	6
Acidification Potential (AP)		mol H <sup>+</sup> Eq.	≤ 2.31E-03	6
Eutrophication Potential freshwater (EP-fr)		kg P Eq.	≤ 2.83E-06	6
Eutrophication Potential marine (EP-mar)		kg N Eq.	≤ 7.29E-04	6
Eutrophication Potential terrestrial (EP-ter)		mol N Eq.	≤ 7.94E-03	6
Durability	Annex B - hEN	Predicted to be durable for more than 120 years in natural soils with 4<pH<11 and soil temperatures <30 °C.		



- (1) Short-term tests in accordance with EN ISO 10319:2015. The values given are mean values of ultimate strength and tolerance values correspond to the 95% confidence level to establish the characteristic short-term tensile strength (T<sub>ch</sub>) in accordance with EN 13251:2016;
- (2) Nominal value, where no specific tolerance is indicated a standard of 10% is admissible;
- (3) Mean measured dimensions;
- (4) Nominal value, where no specific tolerance is indicated a standard of 1% is admissible;
- (5) Standard value;
- (6) Values reported in the EPD certificate KIWA-EE- 000372-EN issued in accordance with EN15804+A2: 2019 and ISO14025 with validity till April 2029. The reported values are selected among the 13 mandatory certified values (EN 15804+A2:2019) and referred to the Product Stage A1-A3. Additional environmental impact indicators and different Product Stages valid for Life Cycle Assessment are reported in the full EPD certificate of the product.

MD : Machine Direction; CMD : Cross Machine Direction



BIM collection of ParaGrid® geogrids available for download at bimstore.co



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