



Verdagrid Polypropylene Geogrid Specification Sheet

Verdagrid geogrids are rectangular geogrids made from extruded polypropylene which is then perforated and worked bi-axially to form a grid of polymer ribs with a high degree of molecular orientation. The orientation continues through the integral junctions. The grids provide soil reinforcement for all civil engineering applications including environmental, infrastructure and marine engineering projects.

Verdagrid geogrids provide cost-effective tensile reinforcement for base courses in railway and highway foundation engineering, steep sided soil embankments and retaining walls. They are also used for foundation reinforcement of earth embankments, in working platforms, for spanning voids and sink holes and for sludge lagoon closures.

		Verdagrid 20/20	Verdagrid 30/30	
Mesh size	(mm)	39 x 39	40 x 41	nominal
Colour		black	black	
Tensile strength MD	(kN/m)	20	30	EN ISO 10319
Tensile strength CD	(kN/m)	20	30	EN ISO 10319
Force at 2% elongation MD	(kN/m)	7	11	EN ISO 10319
Force at 2% elongation CD	(kN/m)	7	11	EN ISO 10319
Force at 5% elongation MD	(kN/m)	15	21	EN ISO 10319
Force at 5% elongation CD	(kN/m)	15	21	EN ISO 10319
CBR puncture resistance	(kN)	Due to the nature of grid materials, CBR testing is neither required nor meaningful		EN ISO 12236
Dynamic perf cone drop	(mm)	Due to the nature of grid materials, CBR testing is neither required nor meaningful		EN 918
Resistance to weathering		To be covered within 28 days		EN ISO 12224
Life expectancy		In excess of 50 years in natural soils at pH Values between 4 & 9 and at a soil temp. < 25°C		
Resistance to chemicals		Excellent		ENV ISO 12960
Resistance to microbes		Excellent		EN 12225
Health, Safety & Environment		INERT. No known health hazard. No precautions necessary		
Roll dimension	(m)	3.95 x 50	3.95 x 50	

Due to the open apertures of Verdagrid and other grid products, it is recognised that conventional static and dynamic puncture resistance tests are of uncertain meaning and stipulation of such values is potentially misleading. Verdagrid grids are robust reinforcement products for which puncture resistance can be assessed on the basis of the tensile properties.

Verdagrid grids have high resistance to weathering and other long term degradation processes. Current European Standards on Geosynthetics and their applications require a highly conservative approach to declared product life; Verdant Solutions is confident that Verdagrid is sufficiently durable for all conventional design lives and will be pleased to provide further advice on the subject.

Specialists in Geosynthetics & Erosion Control