



## StrataGrid High Strength PET Geogrid

StrataGrid is a geogrid made with high tenacity PET yarns. It is especially designed for reinforcement of walls, slopes and embankments on soft soils, road foundations, and supporting structures, fills and slopes

Tensile Strength MD MARV can be verified with batch test data for every project

Property	Standard	Unit	SG200	SG350	SG500	SG550	SG600	SG700	SG1300	SG1400
<b>Mechanical Properties</b>										
Tensile Strength MD MARV	ASTM D6637-B	kN/m	52.5	73	93.4	118.9	132.8	172.2	300	400
Tensile Strength CD MARV	ASTM D6637-B	kN/m	20	30	30	30	30	30	30	30
<b>Reduction Factor CR - Creep Rupture @ 20° C</b>										
114 year design life			1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
<b>Reduction Factor ID - Installation damage</b>										
Gravelly Sand/Sand			1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Aggregate < 75mm			1.35	1.35	1.3	1.3	1.25	1.15	1.15	1.15
<b>Reduction Factor D - Durability pH 4 - 9*</b>										
for 100 year design life			1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<b>Long Term Design Strength in Gravelly Sand/Sand</b>										
100 year design life		kN/m	30.8	42.8	54.7	69.7	77.8	100.9	175.8	234.4
<b>Long Term Design Strength in Aggregates &lt; 75mm</b>										
100 year design life		kN/m	24.4	33.9	45.0	57.3	66.6	93.9	163.6	218.1

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\*These reduction factors assume 100 years at a constant pH. Degradation of PET is a function of a number of factors including time, temperature and pH level. StrataGrid may be used in higher pH applications with an applicable reduction factor approved by the design engineer, taking into account site specific conditions

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