

StrataGrid SG200

Stratagrid is a geogrid soil reinforcement. These high performance geogrids are constructed of high molecular weight and high tenacity knitted polyester yarns with a polymer coating. Stratagrid is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments .

		Test Method	Unit	StrataGrid SG200	
Mechanical Properties					
Nominal Tensile Strength (T _{NOM})	MD	EN ISO 10319	kN/m	64.0	
	CD	EN ISO 10319	kN/m	27	
Nominal Elongation at Break	MD	EN ISO 10319	%	15	
	CD	EN ISO 10319	%	15	
Characteristic Tensile Strength (T _{CHAR})	MD	EN ISO 10319	kN/m	52.5	
	CD	EN ISO 10319	kN/m	20	
Creep Reduction Factor (RF _{CR}) at 60 years design life		ISO EN 20432	-	1.43	
Creep Reduction Factor (RF _{CR}) at 120 years design life		ISO EN 20432	-	1.46	
Creep Limited Strength at 60 years design life		-	kN/m	36.7	
Creep Limited Strength at 120 years design life		-	kN/m	36.0	
Partial Factor - Construction damage (RF _{ID})		BBA Procedures with BBA Compliant Soils			
Type BBA3 - Silty Sand (9.5mm minus, D ₅₀ ≤ 1mm)		-	-	1.10	
Type BBA2 - Sandy Gravel (19mm minus, D ₅₀ ≤ 2mm)		-	-	1.10	
Type BBA1 - Gravel (75mm minus, D ₅₀ ≤ 12mm)		-	-	1.35	
Partial Factor - Environmental Effects Environment, 4 ≤ pH ≤ 8 at 60 or 120 years design life		ISO EN 20432			
Chemical and Biological, RF _{CH}		-	-	1.20	
U.V. Weathering, RF _W		-	-	1.25	
Maximum Exposure Time (Uncovered) During Installation		-	-	2 Weeks	
Long term design strengths (T _D) at 60 years design life		ISO EN 20432			
Type BBA3 - Silty Sand (9.5mm minus, D ₅₀ ≤ 1mm)		-	kN/m	22.3	
Type BBA2 - Sandy Gravel (19mm minus, D ₅₀ ≤ 2mm)		-	kN/m	22.3	
Type BBA1 - Gravel (75mm minus, D ₅₀ ≤ 12mm)		-	kN/m	18.1	
Long term design strengths (T _D) at 120 years design life		EN ISO 20432			
Type BBA3 - Silty Sand (9.5mm minus, D ₅₀ ≤ 1mm)		-	kN/m	21.8	
Type BBA2 - Sandy Gravel (19mm minus, D ₅₀ ≤ 2mm)		-	kN/m	21.8	
Type BBA1 - Gravel (75mm minus, D ₅₀ ≤ 12mm)		-	kN/m	17.8	
Grid Aperture Sizes				Value	Tolerance
Grid Aperture MD		-	mm	18	± 1
Grid Aperture CD		-	mm	16	± 1
Standard Products				Value	
Roll Width		-	m	1.9	
Roll Length		-	m	100	
Roll Weight		-	kg	52	

Notes:

- MD = Machine Direction
- CD = Cross Direction
- Reported ultimate tensile strengths (T_{NOM}) are average values obtained in accredited testing laboratories.
- $T_{CAR} = T_{NOM} - 2 \times \text{Standard Deviation}$
- $TD = T_{CAR} / (RF_{CR} \times RF_{ID} \times RF_W \times RF_{CH})$

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