

SGB Grid



StrataGrid™ Biaxial (SGB) is a polyester (PET) geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and high knitted polyester yarns with a proprietary coating. SGB grid is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in the aggressive soil environments.

		Unit	SGB 20	SGB 30	SGB 40	SGB 60	SGB 80	SGB 100	SGB 150	
Mechanical properties										
Tensile strength (EN ISO 10319)	MD	kN/m min	21 20	32 30	42 40	64 60	85 80	105 100	155 150	
	CMD	kN/m min	21 20	32 30	42 40	64 60	85 80	105 100	155 150	
Elongation at nominal strength (EN ISO 10319) (+/- 2%)	MD	%	10%	10%	10%	10%	10%	10%	10%	
	CMD	%	10%	10%	10%	10%	10%	10%	10%	
Tensile strength at (EN ISO 10319) (+/- 5%)	2% strain	MD	kN/m	4	6	9	12	15	18	26
		CMD	kN/m	4	5	7	9	12	13	20
	5% strain	MD	kN/m	8	15	20	26	35	40	58
		CMD	kN/m	7	10	13	18	24	24	35
Physical properties										
Aperture size (+/- 5mm)	MD	mm	33	32	30	29	28	25	7	
	CMD	mm	30	29	28	27	26	25	30	
Roll width		m	←————— 5.0 —————→							
Roll length		m	200	200	100	100	100	100	100	
Roll area		sqm	1000	1000	500	500	500	500	500	
Roll weight (+/- 10%)		kg	190	245	195	205	249	290	450	

Notes

- MD = machine direction / CMD = cross machine direction
- The above properties might change at the time of the manufacturing, storing, handling or shipping
- The above values are subject to change as per the discretion of the company
- Customised rolls with varying lengths or master rolls can be manufactured on order
- Tested in GAI-LAP accredited laboratories



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