



GeoGrid.

The underlining principles of viable walls.

Dependable **GeoGrid**, available in a wide variety of strengths, and the finer-patterned **GeoFace** are Geostar's polyester grid lines. Connection tested with all major SRW products, this is the stuff viability is made of and technical data is readily available that proves it.

And both, like all Geostar products, are strategically positioned by purpose, price, proximity and performance.

We have what you need, you can afford it, we can get it to you, and you'll get more than you need from it.

All proven.

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GeoGrid Product Data

			FaceGrid™		HP Polyester GeoGrid Styles								
Materials	Symbol	Test Method	MG100		HP200		HP300		HP500		HP700		
Polymer	—	—	PET/PET		PET/PET		PET/PET		PET/PET		PET/PET		
Coating	—	—	PVC		PVC		PVC		PVC		PVC		
Tensile Properties			kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	
MD-Ultimate Strength ¹	T _{ULT}	ASTM D 6637	21.6	1480	49.2	3373	67.9	4650	116.1	7952	156.0	10688	
MD-Creep Limited Strength	T _L	ASTM D 5262	13.5	925	31.8	2176	43.8	3000	74.9	5130	100.6	6895	
CMD-Ultimate Strength ¹	T _{ULT}	ASTM D 6637	21.4	1465	30.6	2100	30.6	2100	30.6	2100	30.6	2100	
Reduction Factors													
Creep Reduction Factor	RF _{CR}	ASTM D 5262	1.60	1.60	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	
Durability Reduction Factor (3 < pH < 9)	RF _D	ASTM D 2455	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Installation Damage Reduction Factor	RF _{ID}	ASTM D 5818											
Soil Type 1 (Sand, Silt & Clay, D50<6mm)			1.2	1.2	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Soil Type 2 (0.75" minus angular aggregate, D50<6mm)			1.30	1.30	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Soil Type 3 (1.5" minus angular aggregate, D50<20mm)			1.40	1.40	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
Design Strength Properties			kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	kN/m	lbf/ft	
Long Term Design Strength²													
T _{ULT} / RF for Soil Type 1	LTDS		10.2	701	27.5	1884	37.9	2597	64.8	4442	87.1	5970	
T _{ULT} / RF for Soil Type 2	LTDS		9.4	647	26.2	1798	36.2	2479	61.9	4240	83.2	5699	
T _{ULT} / RF for Soil Type 3	LTDS		8.8	601	23.1	1583	31.8	2182	54.5	3731	73.2	5015	
Design Interaction Properties													
Coefficient of Interaction	C _i	ASTM D 6706											
Soil Type 1			0.6 - 0.7		0.85		0.85		0.85		0.85		
Soil Type 2			0.7 - 0.8		0.85		0.85		0.85		0.85		
Soil Type 3			0.9 - 1.1		0.85		0.85		0.85		0.85		
Coefficient of Direct Sliding	C _{DS}	ASTM D 5321											
Soil Type 1			0.7		0.85		0.85		0.85		0.85		
Soil Type 2			0.8		0.85		0.85		0.85		0.85		
Soil Type 3			0.9		0.85		0.85		0.85		0.85		
Scale Correction Factor	α		—		—		—		—		—		
Physical Properties	Units		Test Method	SI	US	SI	US	SI	US	SI	US	SI	US
	mm	in		Measured	2.54	0.10	21.59	0.85	21.59	0.85	20.32	0.80	20.32
MD-Aperture Size	mm	in	Measured	2.54	0.10	20.83	0.82	20.32	0.80	19.05	0.75	18.29	0.72
CMD-Aperture Size	mm	in	Measured	2.54	0.10	20.83	0.82	20.32	0.80	19.05	0.75	18.29	0.72
Packaging													
Roll Width	m	ft	Measured	2.9	9.5	2.5	8.2	2.5	8.2	2.5	8.2	2.5	8.2
Roll Length	m	ft	Measured	72.2	237	67.0	220	67.0	220	67.0	220	67.0	220
Area Per Roll	m ²	yd ²	Measured	209.2	250.2	167.5	200.3	167.5	200.3	167.5	200.3	167.5	200.3
Weight Per Roll	kgs	lbs	Measured	52.1	115	53.5	118	61.0	134	86.0	189	100.0	221

¹ The values reported are calculated as the mean value minus two standard deviations. Statistically, the values yield a 97.7% degree of confidence that any sample of fabric tested will exceed the value reported.

² Long Term Design Strength is LTDS or TAL = T_{ULT} / (RF_{CR} x RF_D x RF_{ID}).