



SF 110 Soil Reinforcement Geogrid

Synten SF 110 Geogrid from Carthage Mills is composed of high molecular weight, high tenacity multifilament polyester yarns that are woven into a stable network placed under tension. The high strength polyester yarns are coated with a PVC material.

SF Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. SF Geogrids are typically used for soil reinforcement applications such as retaining walls, steepened slopes, embankments, sub-grade stabilization, embankments over soft soils and waste containment applications.

PROPERTY	TEST METHOD	DATA (MARV)	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical/Performance/Design			
Tensile Ultimate (MD)	ASTM D 6637 (Method B)	150.3 kN/m	10,300 lbs/ft
Creep Limited Strength	ASTM D 5262	99.6 kN/m	6,821 lbs/ft
T _{ai} =Long Term Design Strength (MD x CD) ⁽¹⁾	NCMA 97	86.2 kN/m	5,906 lbs/ft
<input type="checkbox"/> Physical			
Aperture Size (in)	Measured	20 mm x 28 mm	0.79 in x 1.10 in
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.65 m x 45.72 m 167 m ²	12.0 ft x 150.0 ft 200 yd ²

⁽¹⁾ Long-term design strength (LTDS) is calculated for a 75-year design life at 20^o C, silty sand (D50 = 0.9mm) backfill, and standard soil pH range 3 - 9. RFCR = 1.51; RFID = 1.05; RFD = 1.1

- Other roll sizes available on a per project basis. Call for more information.
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2026 and are subject to change without notice.

★ **Proudly Made in the U.S.A.!** ★

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