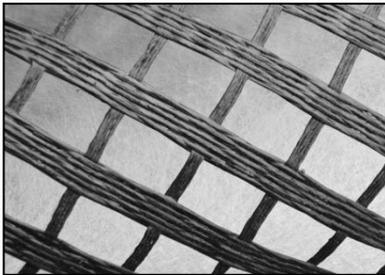




Carthage Mills' SF Series of SRW Geogrid

AGGREGATE REINFORCEMENT | SOIL REINFORCEMENT

Carthage Mills' SF Series of SRW Woven / Coated High-Tenacity Polyester Uniaxial Geogrids



SERIES DESCRIPTION

Carthage Mills' SF Series of SRW Geogrids are manufactured from high-tenacity, high molecular weight polyester (PET) fibers in a full range of tensile strengths designed to meet the most demanding soil reinforcement applications; including Ultimate Tensile up to 29,750 lbs/ft.

Carthage Mills' SF Series of SRW Geogrids are woven in a stable, interlocking grid, placed under tension and polymer coated to provide excellent resistance to chemical and biological degradation within the pH range common to buried reinforcement applications.

The special polymer coating of our SF Geogrids also increases the dimensional stability of the product enhancing soil interaction properties and protecting against construction related installation damage.



FEATURES AND BENEFITS

The ultimate design properties of Carthage Mills' SF Series of SRW Geogrids were carefully targeted by engineers who play an active role in the actual design and construction of segmental retaining walls. They provide the *most efficient* long-term design strengths (LTDS) in the industry.

- SUPERIOR LONG-TERM DESIGN STRENGTH (LTDS)
SRW Geogrids feature exceptional long-term creep rupture performance. Combined with rugged resistance to installation damage and the durability of high tenacity PET fibers, SF Geogrids provide the most efficient design strengths available in the market.
- EXCELLENT SOIL INTERACTION
SF Geogrids deliver immediate tensile reinforcement to the soil or aggregate fill ensuring top performance of the reinforced structure.
- COST EFFECTIVE
Industry leading LTDS and interaction efficiency minimizes the number of geogrid layers required in the design.
- COMPREHENSIVE TESTING PROGRAM
Carthage Mills' SF Series of SRW Geogrids have been tested in

accordance with the most rigorous standards of our industry ensuring credible data upon which the most demanding MSE designs rely.

ROLL SIZES

Carthage Mills' SF Series of SRW Geogrids are available in standard 6' roll *width* allowing for easy shipping to, and handling at the project site. The standard 150' roll *length* provides a lighter roll weight for ease of handling. Carthage Mills' Series of SRW Geogrids are also available in 12' wide rolls.

APPLICATIONS

Carthage Mills' SF Series of SRW Geogrids are used in a wide variety of soil and aggregate reinforcement applications.

- Segmental Retaining Wall (SRW) Reinforcement
- Mechanically Stabilized Earth (MSE) structures or walls (Temporary and Permanent)
- Steepened slopes
- Veneer Reinforcement
- Voids Bridging
- Earth filled Embankments over soft soils; Dikes and Levees
- Welded wire-form faced walls i.e. Palisades®





Carthage Mills' SF Series of SRW Geogrids

Carthage Mills' SF Series of SRW Geogrids for soil and aggregate reinforcement are manufactured of high tenacity, high molecular weight, polyester yarns, woven into a stable interlocking grid, placed under tension, and then PVC coated to provide damage protection during installation. They are developed for the reinforcement of steepened slopes and segmental retaining walls.

Carthage Mills' SF Series of SRW Geogrids are:

- Biologically inert, resistant to most naturally encountered chemicals, alkalis, and acids
- Resistant to ultra violet exposure and installation damage
- Resistant to long-term creep
- Flexible for easy installation

PROPERTY	TEST METHOD	UNIT	SF20	SF35	SF55	SF65	SF80	SF90	SF110	SF180	
□ Mechanical											
Tensile Strength @ Ultimate - MD	ASTM D 6637	lbs/ft (kN/M)	2,025 (29.55)	3,600 (52.5)	5000 (73.0)	6,200 (90.5)	7,550 (110.2)	9,000 (131.3)	10,300 (150.3)	14,500 (211.6)	
Creep Limited Strength	ASTM D 5262	lbs/ft (kN/M)	1,341 (19.6)	2,384 (34.8)	3,311 (48.3)	4,106 (59.9)	5,000 (73.0)	5,960 (87.0)	6,821 (99.6)	9,602 (140.1)	
Long Term Design Strength-LTDS ⁽¹⁾	GRI-GG-4(b)	lbs/ft (kN/M)	1,161 (16.9)	2,064 (30.1)	2,867 (41.8)	3,555 (51.9)	4,329 (63.2)	5,160 (75.3)	5,906 (86.2)	8,314 (121.3)	
□ Physical											
Aperture Size (in)			1.1 x 0.79	0.79 x 1.0	0.87 x 1.0	0.79 x 1.0	0.79x1.0	0.63x1.0	0.63 x 1.0	0.51x1.0	
Standard Roll Sizes (for ease of handling) ⁽²⁾ Packaging Weight - (Typical)	Measured	ft (m)	6x150 (1.8x46)	12x150 (3.65x45.72)							
		yd ² (m ²)	100 (83.5)	200 (182.88)							
		lbs (kg)	55 (24.94)	65 (29.48)	70 (31.75)	83 (37.64)	88 (39.9)	95 (43.09)	105 (47.62)	-	

⁽¹⁾ See individual datasheets for reduction factors

⁽²⁾ 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 01-01-2024 and are subject to change without notice.

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