

SYNTEEN SR18 UV

SOIL REINFORCEMENT GEOGRID

SR18 UV is a biaxial geogrid composed of high tenacity multifilament polypropylene yarns that are woven into a stable network placed under tension and then coated with PVC to provide long-term durability. SR18 UV Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. Synteen SR18 series geogrids are used as a face wrap material for steepened slopes and welded wire face MSE walls and slopes.

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE (MARV) ¹
Ultimate Tensile Strength (MD)	ASTM D 6637	lbs/ft (kN/m)	1,700 (24.8)
Ultimate Tensile Strength (CD)	ASTM D 6637	lbs/ft (kN/m)	1,700 (24.8)
Creep Reduced Strength (MD) ²	ASTM D 5262	lbs/ft (kN/m)	566.7 (8.3)
Creep Reduced Strength (CD) ²	ASTM D 5262	lbs/ft (kN/m)	566.7 (8.3)
Long Term Design Strength (MD) ³	NCMA 97	lbs/ft (kN/m)	468.3 (6.8)
Long Term Design Strength (CD) ³	NCMA 97	lbs/ft (kN/m)	468.3 (6.8)
Ultraviolet (UV) Resistance (500 hrs.)	ASTM D 4355	% Strength Retained	95%

PHYSICAL PROPERTIES	TEST METHOD	UNIT	ROLL VALUE
Aperture Size	Measured Value	in X in (mm X mm)	0.09 X 0.11 (2.5 X 3.0)
Roll Dimensions ⁴ (Width x Length)	Measured Value	ft (m)	8 X 150 (2.44 X 45.72)
Roll Area	Measured Value	Yd ² (m ²)	133.33 (111.5)

¹ Minimum Average Roll Values (MARV) are calculated as the typical minus two (2) standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken from quality assurance testing will exceed the value reported.

² Creep Reduced Strength is based on a 75-year design life at 20 °C. $RF_{CR} = 3.0$

³ Long-term design strength (LTDS) is calculated for a 75-year design life at 20 °C, silty sand ($D_{50} = 0.9\text{mm}$) backfill, and standard soil pH range 3 - 9. $RF_{CR} = 3.0$; $RF_{ID} = 1.1$; $RF_D = 1.1$

⁴ Custom roll widths and lengths are available upon request.

LTDS and Reduction factors for the project specific requirements such as design life, soil type and soil pH beyond standard range 3-9 are available upon request.

SYNTEEN Technical Fabrics reserves right to amend product specifications without notice. Users / Buyers shall verify the product compliance with the project specifications or design requirements.

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