



SF20 SOIL REINFORCEMENT GEOGRID

SF20 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. SR Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. SR 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD & CD)	ASTM D 6637	30.6	2,100
Creep Reduced Strength (MD & CD)	ASTM D 5262	20.3	1,391
Long Term Design Strength (MD & CD)	NCMA 97	17.6	1,204
Aperture Size (ins.)	Measured	19.0 x 24.0 (mm)	0.75 x 0.95 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

SYNTEEN Technical Fabrics, Inc Warranty Synteen Technical Fabrics warrants our products to be free from defects in material and workmanship when delivered to our customers and that our products meet our published specifications. If a product is found to be defective, and our customer gives notice to Synteen Technical Fabrics before installing the product, Synteen Technical Fabrics will replace the product without charge to our customer or refund the purchase price at Synteen Technical Fabrics election. Replacing the product or obtaining a refund are the buyer's sole remedy for a breach and Synteen Technical Fabrics will not be liable for any consequential damage attributed to a defective product. This warranty is given in lieu of all other warranties, express or implied, including the implied warranty of merchantability or fitness for a particular purpose. There are no warranties which extend beyond the description provided herein.

January 23, 2025





SF35 SOIL REINFORCEMENT GEOGRID

SF35 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. SR Geogrids are inert to biological degradation and are resistant to naturally encountered chemicals, alkalis and acids. SR 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	55.8	3,825
Creep Reduced Strength (MD)	ASTM D 5262	36.9	2,533
Long Term Design Strength (MD)	NCMA 97	32.0	2,193
Aperture Size (ins.)	Measured	20.0 x 28.0 (mm)	0.79 x 1.10 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 25, 2025





SF55 SOIL REINFORCEMENT GEOGRID

SF55 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	73.0	5,000
Creep Reduced Strength (MD)	ASTM D 5262	48.3	3,311
Long Term Design Strength (MD)	NCMA 97	41.8	2,866
Aperture Size (ins.)	Measured	21.0 x 28.0 (mm)	0.83 x 1.10 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 23, 2025





SF65 SOIL REINFORCEMENT GEOGRID

SF65 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	90.5	6,200
Creep Reduced Strength (MD)	ASTM D 5262	59.9	4,106
Long Term Design Strength (MD)	GRI GG4b	51.9	3555
Aperture Size (ins.)	Measured	20 x 25.4 (mm)	0.79 x 1.00 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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SF80 SOIL REINFORCEMENT GEOGRID

SF80 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	116.7	8,000
Creep Reduced Strength (MD)	ASTM D 5262	77.3	5,298
Long Term Design Strength (MD)	GRI GG4b	66.9	4,587
Aperture Size (ins.)	Measured	21.0 x 29.0 (mm)	0.83 x 1.14 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 23, 2025





SF110 SOIL REINFORCEMENT GEOGRID

SF110 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	150.3	10,300
Creep Reduced Strength (MD)	ASTM D 5262	99.6	6,821
Long Term Design Strength (MD)	NCMA 97	86.2	5,906
Aperture Size (ins.)	Measured	20.0 x 28.0 (mm)	0.79 x 1.10 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 23, 2025





SF180 SOIL REINFORCEMENT GEOGRID

SF180 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	244.4	16,750
Creep Reduced Strength (MD)	ASTM D 5262	161.8	11,092
Long Term Design Strength (MD)	NCMA 97	140.1	9,604
Aperture Size (ins.)	Measured	13 x 25.4 (mm)	0.51 x 1.00 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 23, 2025





SF190 SOIL REINFORCEMENT GEOGRID

SF190 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	321.0	22,000
Creep Reduced Strength (MD)	ASTM D 5262	212.6	14,569
Long Term Design Strength (MD)	NCMA 97	184.0	12,614
Aperture Size (ins.)	Measured	13 x 25.4 (mm)	0.51 x 1.00 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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SF350
SOIL REINFORCEMENT GEOGRID

SF350 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.

TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD)	ASTM D 6637	437.8	30,000
Creep Reduced Strength (MD)	ASTM D 5262	289.9	19,867
Long Term Design Strength (MD)	NCMA 97	251.0	17,201
Aperture Size (ins.)	Measured	10 x 25.4 (mm)	0.39 x 1.00 (in)

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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SR18 SOIL REINFORCEMENT GEOGRID

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TENSILE PROPERTIES	TEST METHOD	MARV VALUES	
		(kN/m)	(LBS/FT)
Ultimate Strength (MD & CD)	ASTM D 6637	24.81 20.43	1,700 1,400
Creep Reduced Strength (MD & CD)	ASTM D 5262	15.70 12.93	1,076 886
Long Term Design Strength (MD & CD)	NCMA 97	12.97 10.68	889 732
Aperture Size (MD & CD)	Measured	6.35 x 6.35 (mm)	0.08 x 0.08 (in)
Ultraviolet Resistance (500 Hours)	ASTM D 4355	78%	

Reduction Factors:

- Creep (RF_{CR}) 1.51
- Durability (RF_D) 1.10
- Installation Damage* (RF_{ID}) 1.05

* Soil Type 3

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January 2024

