GRANITE environmental

Woven Geotextiles

The Woven Geotextile is a high strength fabric designed to help provide stabilization, separation and even protection in various locations. Woven geotextiles are made in a wide range strengths to help accommodate different weights from rocks, pavement, rip rap, gravel, roads or other items placed on top of the material. Often made from polypropylene, these fabrics offer high UV resistance for use in your location.

Applications:

- Separation of Aggregates
- Rip Rap
- Stabilization
- Cushioning
- Road Pavement
- Erosion Protection
- Underlayment
- Sediment Control
- Berm Protection

Woven Geotextile Typical Specifications		
Model	**Grab Tensile**	**Roll Size**
Woven 150	150 lbs.	15’ W x 300’ L
Woven 250	200 lbs.	12.5’ W x 432’ L 17.5’ W x 309’ L
Woven 315	315 lbs.	12.5’ W x 360’ L 17.5’ L x 258’ L

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Tensile Strength: Woven Geotextiles are typically defined by the grab tensile strength of the fabric. The most common woven geotextiles are those with either a 200 lbs, 250 lbs, or 315 lbs grab tensile strength.

Material: Woven Geotextiles are constructed from a high strength polypropylene fabric that offers a high level of resistance to mildew, insects and chemicals. All fabrics are synthetic, allowing them maintain long-term support in a given location.

Longevity: Made from a synthetic material, woven fabrics are designed for extended use under roads, aggregate and rip rap. While the standard lifespan for the fabric may vary based on your location, geotextiles are designed for extended use in a given location.

Packaging: All geotextiles are sold by the roll. Rolls are 12.5 ft., 15 ft., or 17.5 ft. in width and vary in length depending on the model. Standard packaging options include roll sizes of either 500 or 600 square yards per roll.

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Woven Geotextile Comparison

Below you will find a comparison between several of the woven geotextile models. This comparison can help you find the best fabric to meet your water flow, puncture resistance or grab tensile strength.

PROPERTY	ASTM TEST METHOD	Woven 150	Woven 200	Woven 315
Weight	ASTM D5261	3 oz/yd2 (101 g/m2)	4 oz/yd2 (136 g/m2)	6 oz/yd2 (203 g/m2)
Grab Tensile	ASTM D4632	150 lbs (0.667 kN)	200 lbs (0.889 kN)	315 lbs (1.4 kN)
Grab Elongation	ASTM D4632	15 %	15 %	15 %
Trapezoid Tear	ASTM D4533	70 lbs	75 lbs (0.333 kN)	120 lbs (0.533 kN)
Puncture Resistance	ASTM D6241	84 Lbs	90 Lbs (0.4 kN)	120 Lbs (0.533 kN)
Permittivity*	ASTM D4491	0.05 sec -1	0.05 sec -1	0.05 sec -1
Water Flow*	ASTM D4491	34 gpm/ft2	4 gpm/ft2 (163 1/min/m2)	4 gpm/ft2 (163 1/min/m2)
A.O.S*	ASTM D4751		40 U.S. Sieve (0.425 mm)	40 U.S. Sieve (0.425 mm)
U.V. Resistance	ASTM D4355	70/500 %/hrs	70/500 %/hrs	70/500 %/hrs

*Calculated at the time of manufacturing. Handling, storage and shipping may change these properties.

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