

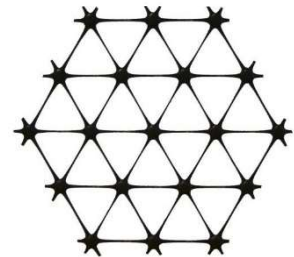
Product Data Sheet

FilterGrid™ TX TYPE 2™

Tensar reserves the right to change its product specifications at any time. It is the responsibility of the person specifying the use of this product and of the purchaser to ensure that product specifications relied upon for design or procurement purposes are current and that the product is suitable for its intended use in each instance.

FilterGrid™ is a composite geosynthetic consisting of a nonwoven geotextile bonded to Tensar TriAx geogrid. This product combines TriAx geogrid technology with the added functionality of a geotextile for applications where site conditions require additional filtration and/or separation.

Tensar TriAx® Type 2



General

1. The needle punched nonwoven geotextile (nominal 5 oz/sy) is thermally bonded to the geogrid and is manufactured at a NTPEP audited facility.
2. TriAx® TX Type 2 is manufactured from a punched polypropylene sheet, which is then oriented in three substantially equilateral directions so that the resulting ribs shall have a high degree of molecular orientation, which continues at least in part through the mass of the integral node.
3. The properties contributing to the performance of a mechanically stabilized layer include the following:

Index Properties	Longitudinal ⁽¹⁾	Diagonal ⁽¹⁾	General ⁽¹⁾
▪ Rib Pitch ⁽²⁾ , mm (in)	33 (1.30)	33 (1.30)	
▪ Rib Shape			Rectangular
▪ Aperture Shape			Triangular
▪ Rib Aspect Ratio ⁽³⁾			>1.0
Structural Integrity			
▪ Junction Efficiency ⁽⁴⁾ , %			93
▪ Isotropic Stiffness Ratio ⁽⁵⁾			0.6
Durability			
▪ Resistance to Chemical Degradation ⁽⁶⁾			100%
▪ Resistance to Ultra-Violet Light and Weathering ⁽⁷⁾			70%
Index Properties	Longitudinal ⁽¹⁾	Diagonal ⁽¹⁾	General ⁽¹⁾
▪ Grab Tensile Strength	ASTM D 4632	120 lbs.	0.553 kN
▪ Grab Elongation	ASTM D 4632	50%	50%
▪ Trapezoid Tear Strength	ASTM D 4533	50 lbs.	0.222 kN
▪ CBR Puncture Resistance	ASTM D 6241	340 lbs.	1.512 kN
▪ Permittivity	ASTM D 4491	1.7 sec ⁻¹	1.7 sec ⁻¹
▪ Water Flow	ASTM D 4491	120 gpm/ft ²	4885 l/min/m ²
▪ Apparent Opening Size (AOS)	ASTM D 4751	70 Std. U.S. Sieve	0.212 mm
▪ UV Resistance	ASTM D 4355	70%/500 hrs.	70%/500 hrs.

Dimensions and Delivery

TX Type 2 FilterGrid shall be delivered to the jobsite in roll form, each clearly labeled, and with standard dimensions of 12.5 feet (3.8 meters) in width and 164 feet (50 meters) in length. For its wide-width variant, the dimensions shall be 16.0 feet (4.9 meters) in width and 164 feet (50 meters) in length.

Notes:

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759. Brief descriptions of test procedures are given in the following notes.
2. Nominal dimensions.
3. Ratio of the mid-rib depth to the mid-rib width.
4. Load transfer capability is determined in accordance with ASTM D6637 and ASTM D7737 and expressed as a percentage of ultimate tensile strength.
5. The ratio between the minimum and maximum observed values of radial stiffness at 0.5% strain, measured on rib and midway between rib directions.
6. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
7. Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355.



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