LAYFIELD GEOSYNTHETICS

TECHNICAL SPECIFICATIONS

MIRAFI® H2R*i*-SERIES - GEOTEXTILES

High-strength geotextiles extend the expected life of your roads by preventing the mixing of fill and subsoil and reducing the amount of fill required. Specially designed for base course reinforcement and subgrade stabilization for roadways and similar applications, high-strength geotextiles are woven from high-tenacity polypropylene or polyester fibers (or a blend of both).

A revolutionary continuous moisture management system for base course reinforcement and subgrade stabilization of Transportation, Site Development, and Energy Infrastructure projects such as roads, railways, and airports.

April 2023

Mirafi® H2R*i* - Series

Material Properties

Rev	ASTM	**Mirafi H2R*i***
Tensile Strength (Ultimate) MD/CD	D4595	77.0/77.0 kN/m 5280 / 5280 lbs/ft
Tensile Strength (at 2% strain) MD/CD	D4595	7.0/15.8 kN/m[4] 80/480 lbs/ft
Tensile Modulus (at 2% strain) MD/CD	D4595	657KN/m 45,000 lbs/ft
Permittivity	D4491	0.40 sec^{-1}
Pore Size (O_{50})[1]	D6767	85 microns
Pore Size (O_{95})[1]	D6767	195 microns
Apparent Opening Size (AOS)[2]	D4751	0.43 mm 40
Flow Rate	D4491	1222 l/min/m^2 30 gal/min/ft^2
Wet Front Movement[3] (24 minutes)	C1559[4]	152 mm 6 inches Vertical direction
Wet Front Movement[3] (983 minutes) Zero gradient	C1559[4]	1861 mm 73.3 inches Horizontal direction
Mass/Unit Area	D5261	492 g/m^2 14.5 oz/yd^2
Thickness	D5199	1.6 mm 65 mils
Roll Dimensions (width X length)		4.5 m x 91 m 15 ft X 300 ft
Estimated Roll Weight		206 kg 453 lbs

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[1]Typical
[2]ASTM D4751 AOS is a Maximum Opening Diameter Value
[3]STP: Standard Temperature & Pressure
[4]Modified

INSTALLATION

Layfield has highly experienced crews and specialized sewing equipment suitable to provide sewn prefabricated panels to suit your project. Prepare the surface on which the geosynthetic reinforcement is to be placed. The subgrade should be cleared of all obstacles and proof rolled when possible. The surface should be smooth and level such that any shallow depressions or humps do not exceed 15 cm (6 in) in depth and height. While unrolling the geosynthetic, inspect it for damage or defects and deploy it flat with no wrinkles or folds. Adjacent rolls should be seamed or overlapped as a function of subgrade strength.