

MIRAFI H₂Ri

Moisture Management Geosynthetic with Reinforcement/Stabilization

MIRAFI® H₂Ri provides enhanced lateral drainage of soil/aggregate materials through continuous moisture management in addition to providing the key performance functions of reinforcement, confinement, separation and filtration.



MIRAFI H₂Ri has unique hygroscopic wicking yarns that provide enhanced drainage along the plane of the geosynthetic. This leads to a unique ability to remove water from roadways and other structures in unsaturated conditions.

Applications

- ☑ Paved Roadways
- ☑ Unpaved Roadways
- ☑ Airport Pavements
- ☑ Railway Construction & Ballast Stabilization
- ☑ Parking Lots

Primary functions

- Moisture Management
- Reinforcement
- Filtration
- Separation
- Confinement

Proven Performance

- Removes water in saturated or unsaturated conditions
- Increases performance life of the roadway
- Mitigates frost heave and frost boils
- Mitigates lateral edge cracking in expansive clays
- Replaces drainage fill in high water table areas
- Excellent soil and base course confinement resulting in greater load distribution

MIRAFI H₂Ri

MIRAFI H₂Ri features wicking filaments formed into an innovative weave pattern to reduce the moisture content in unsaturated conditions. In addition, higher tensile strength properties and a double layer construction provide excellent separation with superior filtration, interaction and reinforcement. This combined moisture management and reinforcement creates more cost effective and sustainable solutions for roadways and railways.

PROPERTY	TEST METHOD	UNIT	H ₂ Ri (PATENT #7,874,767 AND 8,070,395)
			MINIMUM AVERAGE ROLL VALUE
Wide Width Tensile Strength (MD)	ASTM D4595	lbs/ft (kN/m)	5280 (77.0)
Wide Width Tensile Strength (CD)	ASTM D4595	lbs/ft (kN/m)	5280 (77.0)
Wide Width Tensile Strength @ 2% strain (MD)	ASTM D4595	lbs/ft (kN/m)	480 (7.0)
Wide Width Tensile Strength @ 2% strain (CD)	ASTM D4595	lbs/ft (kN/m)	1080 (15.8)
			MAXIMUM OPENING SIZE
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)
			MINIMUM AVERAGE ROLL VALUE
Permittivity	ASTM D4491	sec ⁻¹	0.4
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	30 (1222)
			MINIMUM TEST VALUE
Pore Size (050)	ASTM D6767	microns	85
Pore Size (095)	ASTM D6767	microns	195
Wet Front Movement ¹ (24 minutes)	ASTM C1559 ²	inches	6.0 Vertical direction
Wet Front Movement ¹ (983 minutes) Zero Gradient	ASTM C1599 ²	inches	73.3 Horizontal direction
PHYSICAL PROPERTIES			
Roll Width	--	ft (m)	15 (4.6)
Roll Length	--	ft (m)	300 (91)
Roll Area	--	yd ² (m ²)	500 (418)
Label Roll Color			BLUE
NOTES: ¹ 'STP': Standard Temperature and Pressure ² Modified <i>Rolls should be covered during shipment and properly stored.</i>			

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