PRODUCT DESCRIPTION SHEET

SOLMAX

MIRAFI RS*i*-Series

Stabilization & Base Course Reinforcement Geosynthetic

MIRAFI® RS*i*-Series is engineered to integrate the five key performance properties of stabilization and base course reinforcement for improved roadway performance: high modulus, separation, confinement, high water flow and easy product identification. Validated through extensive third-party research, MIRAFI RSi-Series is a sustainable solution for roadways, railways, access roads and working platforms.

Double layer construction provides varied pore sizes for excellent separation and superior filtration and flow characteristics of a fine to coarse sand layer.

Applications

- Paved & Unpaved Roadways
- Airport Pavements
- Railway Construction & Ballast Stabilization
- Parking Lots
- Pipeline Construction
- Drilling Pads

Primary functions

- Reinforcement
- Filtration
- Separation
- Confinement

Proven Performance

- High modulus and water flow
- Excellent soil and base course confinement
- Supports greater load distribution
- Efficient installation
- Easy product identification
- Resistant to installation stresses

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MIRAFI RS*i*-Series

MIRAFI RS*i*-Series geosynthetics are the premier solution for base course reinforcement and subgrade stabilization of Transportation, Building Site Development and Energy Infrastructure projects such as roadways, railways, and airports. These innovative geosynthetics offer a cost-effective solution for a range of roadway conditions, providing material savings and sustainability for soft to firm subgrade conditions. Panels can be seamed in the factory or field, providing cross-roll direction strength to facilitate efficient installation.

PROPERTY	TEST METHOD	UNIT	PRODUCT		
			TYPICAL/MARV		
			RS280*i* (PATENT #9,404,233)	RS380*i* (PATENT # 8,598,054 & 8,333,220)	RS580*i* (PATENT # 8,598,054 & 8,333,220)
Tensile Strength @ 2% strain (MD)	ASTM D4595	lbs/ft (kN/m)	840 (12.3) / 600 (8.8)	720 (10.5) / 600 (8.8)	540 (7.9) / 480 (7.0)
Tensile Strength@ 2% strain (CD)	ASTM D4595	lbs/ft (kN/m)	960 (14.0) / 600 (9.6)	1200 (17.5) / 1020 (14.9)	2160(31.5) / 1800 (26.3)
Tensile Strength @ 5% strain (MD)	ASTM D4595	lbs/ft (kN/m)	1980 (28.9) / 1620 (23.6)	2100 (30.6) / 1800 (26.3)	1560(22.8) / 1440 (21.0)
Tensile Strength @ 5% strain (CD)	ASTM D4595	lbs/ft (kN/m)	2100 (30.6) / 1620 (23.8)	1140 (16.6) / 2256 (32.9)	4920(71.8) / 4380 (63.9)
Flow Rate	ASTM D4491	gal/min/ft^2 (l/min/m^2)	85/70[3] (3463/2852[3])	88/75[3] (3585/3056[3])	90/75[3] (3667/3056[3])
Permittivity	ASTM D4491	sec^{-1}	1.2/0.9[1]	1.2/0.9[1]	1.2/1.0[3]
Pore Size (050) (typical)	ASTM D6767	microns	175	185	192
Pore Size (095) (typical)	ASTM D6767	microns	273	365	337
Interaction Coefficient[1]	ASTM D6767	--	0.89[1]	0.89[1]	0.89[1]
INDEX PROPERTIES					
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40/40[2] (0.425)	50/40[2] 0.30/0.425)	50/40[2] 0.30/0.425)
Factory Seam Strength	ASTM D4884	lbs/ft (kN/m)	2400 (35.0)	2700 (39.4)[3]	3000 (43.8)[3]
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90[3]	90[3]	90[3]
PHYSICAL PROPERTIES					
Roll Width (measured)	__	ft (m)	15 (4.57) 17 (.44)	15 (4.57) 17(5.18)	15 (4.57) 17 (5.18)
Roll Length (measured)	__	ft (m)	300 (91)	300 (91.44)	300 (91.44)

NOTES:

[1] Interaction Coefficient value is for sand or gravel based on testing by SGI Testing Services.

[2]ASTM D^{4751}: AOS is Maximum Opening Diameter Value

[3]Minimum Test Value

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