# MIRAFI $H_2$Rxx

**MIRAFI®** $H_2$Rxx is a multi-functional stabilization geotextile engineered specifically for road pavements and railway structures with mechanical stabilization and moisture management capabilities. The super high tenacity polypropylene yarns allow mobilization of tensile resistance for reinforcement benefits at low working strains of 2%. The proprietary moisture wicking yarns have the capability to move soil moisture and dissipate it sideways horizontally even under unsaturated soil conditions. The added wicking loops improve the fabric absorbency and provide assisted in-plane drainage in the machine direction. The highly texturized woven geotextile surface results in a product with superior frictional resistance to provide excellent soil bonding and confinement against the lateral spreading of gravels at the interface of the geotextile and the structural aggregate layer.

| Properties | | Test Standard | Unit | $H_2$Rxx |
|---|---|---|---|---|
| **Mechanical** | | | | |
| Tensile strength at 2% strain | MD | ISO 10319 | kN/m | 20 |
| Tensile strength at 2% strain | CD | ISO 10319 | kN/m | 20 |
| Tensile strength at 5% strain | MD | ISO 10319 | kN/m | 50 |
| Tensile strength at 5% strain | CD | ISO 10319 | kN/m | 50 |
| CBR puncture strength | | ISO 12236 | kN | 9 |
| Grab strength | MD | ASTM D4632 | N | 2000 |
| Grab strength | CD | ASTM D4632 | N | 2000 |
| Tear strength | MD | ASTM D4533 | N | 750 |
| Tear strength | CD | ASTM D4533 | N | 750 |
| UV resistance [1] | | EN 12224 | % retained | 90 |
| G rating [2] | | Austroads | - | 7000 |
| **Hydraulic** | | | | |
| Pore size, $O_{90}$ | | ISO 12956 | mm | 0.30 |
| Water permeability, $Q_{50}$ | | ISO 11058 | l/m²/min | 1500 |
| **Moisture management** | | | | |
| Normal lines of wicking loops per meter width | | | | 75 |
| **Wicking loop absorbency** | | | | |
| Time for 2µl water drop to contact angle ≤ 2° | | ASTM D5946 [3] | s | 0.3 |
| **Fabric moisture movement** | | | | |
| Vertical wet front movement @ 25 min | MD | ASTM C1559 [3] | mm | 80 |
| Vertical wet front movement @ 25 min | CD | ASTM C1559 [3] | mm | 150 |
| Horizontal wet front movement @ 300 min | MD | ASTM C1559 [3] | mm | 500 |
| Horizontal wet front movement @ 300 min | CD | ASTM C1559 [3] | mm | 1900 |
| **Form of supply** | | | | |
| Roll width | | | m | 4.5 |
| Roll length | | | m | 100 |

NOTES :
(1) Mean of MD & CD
(2) Based on external lab testing
(3) Modified test method

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