

BALLASTGUARD™

BaseLok® BallastGuard™ is a proprietary blend of materials and fabric designed to have high resistance to flow of water through the material allowing for better lateral drainage, and enhanced filtration properties to restrict migration of fines – greatly reducing ballast fouling.

This product combines the most advanced geogrid technology with the added functionality of a non-woven geotextile for applications where site conditions require additional filtration and/or separation. BaseLok® GeoGrid allows strong mechanical interlock with the soil being reinforced, while the composite geotextile provides an anti ballast fouling separation and filtration layer without preventing the soil geogrid interlock.

PRODUCT PROPERTIES¹

| GeoGrid Index Properties | Test Method | Units | MD Values ¹ | XMD Values ¹ |
|--------------------------------------|-------------|--------------|------------------------|-------------------------|
| » Aperture Dimensions ² | | in (mm) | 1.3 (33) | 1.3 (33) |
| » Minimum Rib Thickness ² | | in (mm) | 0.1 (2.5) | 0.08 (2.1) |
| » Tensile Strength @ 2% Strain | ASTM D6637 | lb/ft (kN/m) | 900 (13) | 960 (14) |
| » Tensile Strength @ 5% Strain | ASTM D6637 | lb/ft (kN/m) | 1,650 (24) | 1,713 (25) |
| » Ultimate Tensile Strength | ASTM D6637 | lb/ft (kN/m) | 2,125 (31) | 2,195 (32) |
| » Radial Stiffness @ 0.5% Strain | ASTM D6637 | lb/ft (kN/m) | | 45,000 (657) |

Structural Integrity

| | | | | |
|------------------------------|--------------------|---------|--|-----------|
| » Junction Efficiency | ASTM D6637 & D7737 | % | | 93 |
| » Overall Flexural Stiffness | ASTM D7748 | mg-cm | | 3,250,000 |
| » Aperture Stability | ASTM D7864 | m-N/deg | | 0.98 |

Durability

| | | | | |
|---------------------------------------|--------------------|-----------------|--|--------------|
| » Resistance to Installation Damage | ASTM D6637 & D5818 | %SC / %SW / %GP | | 95 / 93 / 90 |
| » Resistance to Long Term Degradation | EPA 9090 | % | | 100 |
| » Resistance to UV Degradation | ASTM D4355 | % | | 100 |

NONWOVEN GEOTEXTILE

| | | | | |
|------------------------------|---|--|--|--|
| » Composition & Polymer Type | Needle punched, non-woven geotextile comprised of a proprietary blend of polyester and polypropylene fibers modified to address anti-pumping phenomena in rail applications | | | |
|------------------------------|---|--|--|--|

| GEOTEXTILE PROPERTIES | Test Method | | Values |
|-------------------------|-------------|---------------------|--------|
| » Mass / Weight | ASTM D3776 | oz/sy | 30 |
| » Apparent Opening Size | ASTM D4751 | mm | 0.075 |
| » Thickness | ASTM D5729 | mil | 240 |
| » Water Flow Rate | ASTM D4491 | gpm/ft ² | 23 |
| » Permittivity | ASTM D4491 | sec ⁻¹ | 0.3 |

Dimensions & Delivery

The BaseLok® BallastGuard™ geogrid composite shall be delivered to the job site in roll form with each roll individually identified and nominally measuring 3.8m (12.5-FT) in width and 30.5m (100- FT) in length.

Notes:

1. Unless indicated otherwise, values shown are Minimum Average Roll Values (MARV) in accordance with ASTM D4759.
2. Nominal Dimensions.

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by Industrial Fabrics, Inc.

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Customer should verify with the product manufacturer that customer has the most current **BASELOK® BALLASTGUARD™** specifications for the product ordered or purchased. The **BASELOK® BALLASTGUARD™** system can be used in the application described in our literature and on our website, provided proper installation and engineering principles are followed. Professional engineering should be consulted before installation of **BASELOK® BALLASTGUARD™** units to assure appropriate design and use. ALL EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. **BASELOK®** is a trademark of Industrial Fabrics, Inc.