



DynaGlas® FR

Fire-Retardant Fiber Glass-Reinforced SBS Mineral-Surfaced Cap Sheet

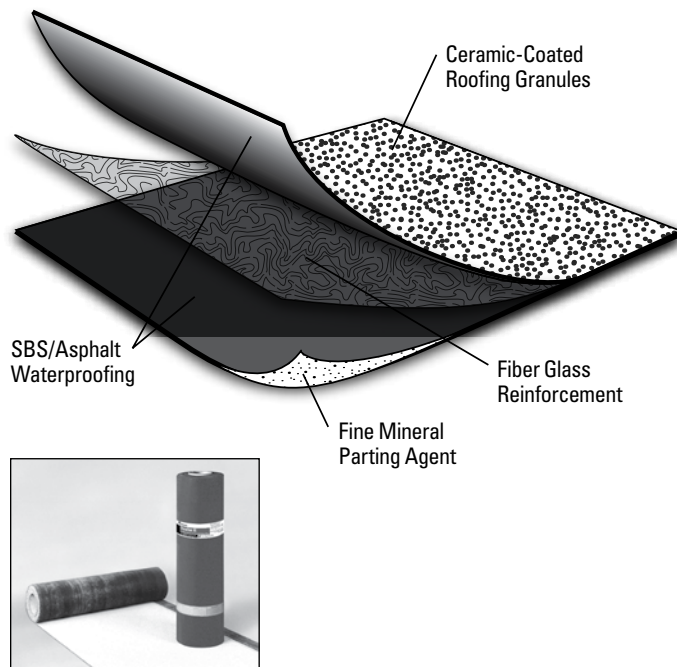
Meets the requirements of ASTM D 6163, Type 1, Grade G.

Features

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the SBS-blend sheet. The ceramic coating promotes excellent long-term adhesion. Granules are available in White, Black and Tan (Black and Tan may require extended lead times).

High-Quality SBS Rubber and Asphalt Blend: Lends elasticity and flexibility to the sheet and contains fire-retardant additives. The thicker JM SBS coating provides more waterproofing value.

Fiber Glass Reinforcement Mat: Offers excellent dimensional stability and tensile strength and withstands differential movement. Because it has no thermal memory less time is needed to relax the sheet, allowing for ease of installation. The fiber glass mat also has good lay-flat characteristics, contributing to better aesthetics.



Energy and the Environment

| | Initial | 3-Year Aged |
|---|---------|-------------|
| Reflectivity* (ASTM C 1549) | 0.29 | 0.27 |
| Emissivity* (ASTM C 1371) | 0.88 | 0.84 |
| Solar Reflectance Index* (SRI) - E 1980 | 30 | 25 |
| Postconsumer Recycled Content | 0% | |
| Preconsumer Recycled Content | 0% | |

*Standard White granule only

Packaging and Dimensions

| | |
|---------------------|--|
| Roll Coverage | 95.8 ft ² (8.9 m ²) |
| Roll Length | 32' 10" (10.01 m) |
| Roll Width | 39 3/8" (1 m) |
| Rolls per Pallet | 20 |
| Pallet Weight | 2,130 lb (966 kg) |
| Pallets per Truck* | 22 |
| Producing Locations | Macon, GA Plattsburgh, NY South Gate, CA |

*Assumes flatbed truck.

Peak Advantage® Guarantee Information

| Systems | Guarantee Term |
|---|--------------------|
| When used in most 2 to 5 ply JM SBS systems.* | 10, 15 or 20 years |

*Contact JM Technical Services for specific systems or terms over 20 years.

Refer to the Material Safety Data Sheet and product label prior to using this product.

Installation



- May be installed in Type III or Type IV asphalt or in an approved adhesive
- Laps may also be installed using heat-welding techniques
- For application in hot asphalt, Type III or Type IV asphalt should be used for slopes under 1/2" per foot and only Type IV asphalt should be used for slopes from 1/2" to 3" per foot (41.6 to 250 mm/m)
- For adhesive application, see specific approvals for slope limitations

Codes and Approvals





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Meets the requirements of ASTM D 6163, Type 1, Grade G.

Tested Physical Properties

| Physical Properties | | ASTM Test Method | Standard for ASTM D 6163, Type 1, Grade G (Min.) | DynaGlas FR | |
|---------------------|--|-------------------------|--|-------------------------------|-------------------------|
| | | | | MD* | XMD** |
| Strength | Tensile Tear | D 5147 | 35 lbf (156 N) | 100 lbf (445 N) | 90 lbf (400 N) |
| | Peak Load at 0°F (-18°C) | D 5147 | 70 lbf/in. (12.3 kN/m) | 130 lbf/in. (22.8 kN/m) | 100 lbf/in. (17.5 kN/m) |
| | Peak Load at 73.4°F (23°C) | D 5147 | 30 lbf/in. (5.3 kN/m) | 70 lbf/in. (12.3 kN/m) | 50 lbf/in. (8.8 kN/m) |
| Longevity | Low Temp. Flexibility | Unconditioned | D 5147 | 0°F (-18°C) | -10°F (-23°C) |
| | | 90-Day Heat Conditioned | D 5147 | 0°F (-18°C) | -10°F (-23°C) |
| | Compound Stability | D 5147 | 215°F (102°C) | 250°F (121°C) | |
| | Granule Loss | D 4977 | 2 g (0.07 oz) | 0.7 g (0.02 oz) | |
| | Thickness | D 5147 | 95 mil (2.4 mm) | 157 mil (4.0 mm) | |
| | Selvage Edge Thickness | D 5147 | N/A | 122 mil (3.1 mm) | |
| | Elongation at Peak Load at 0°F (-18°C) | D 5147 | 1% | 5% | 5% |
| | Elongation at Peak Load at 73.4°F (23°C) | D 5147 | 2% | 4% | 4% |
| | Ultimate Elongation at 73.4°F (23°C) | D 5147 | 3% | 50% | 55% |
| Aged Performance | 90-Day Heat-Conditioned Peak Load at 0°F (-18°C) | D 5147 | 70 lbf/in. (12.3 kN/m) | 135 lbf/in. (23.6 kN/m) | 100 lbf/in. (17.5 kN/m) |
| | 90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C) | D 5147 | 1% | 5% | 4% |
| | 90-Day Heat-Conditioned Peak Load at 73.4°F (23°C) | D 5147 | 30 lbf/in. (5.3 kN/m) | 100 lbf/in. (17.5 kN/m) | 75 lbf/in. (13.1 kN/m) |
| | 90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C) | D 5147 | 2% | 4% | 4% |
| | 90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C) | D 5147 | 3% | 5% | 6% |
| Installation | Dimensional Stability | D 5147 | 0.5% | 0.1% | 0.1% |
| | Net Mass per Unit Area | D 146 | 65 lb/100 ft² (30 kg/9.29 m²) | 94 lb/100 ft² (43 kg/9.29 m²) | |
| | Roll Weight | D 146 | N/A | 102 lb (46 kg) | |

*MD = Machine Direction
**XMD = Cross-Machine Direction

Note: All data represents tested values.

Supplemental Testing

| Physical Properties | | ASTM Test Method | Standard for ASTM D 6163, Type 1, Grade G (Min.) | DynaGlas FR Result |
|---------------------------|---|------------------|--|---------------------|
| Cyclic Joint Displacement | Initial | D 5849 | N/A | Pass at 500 cycles* |
| | After 90-Day Heat Conditioning per ASTM D 5147 | D 5849 | N/A | Pass at 200 cycles* |
| | After 180-Day Heat Conditioning per ASTM D 5147 | D 5849 | N/A | Pass at 200 cycles* |

*When adhered to DynaBase in hot asphalt.