

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

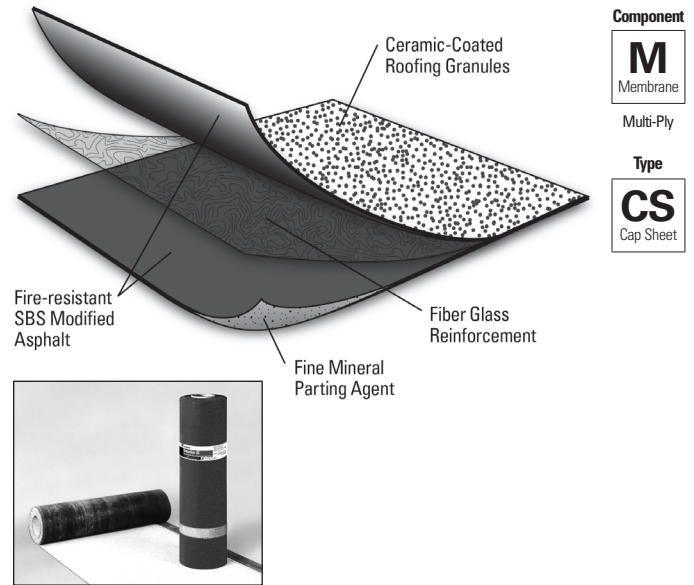
Features and Components

DynaGlas FR is used as a fiber glass-reinforced mineral-surfaced cap sheet in a variety of multi-ply roofing systems.

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the SBS-blend sheet. The ceramic coating promotes excellent long-term adhesion.

High-Quality SBS Rubber and Asphalt Blend: Lends elasticity and flexibility to the sheet. The elongation and recovery properties allow the product to easily accommodate the continual expansion and contraction experienced on all roofs. The FR blend contains additional fire-retardant additives.

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.



Color: Black, White, Burnt Sienna, Grey, Tan & 3M™ Smog Reducing Granule

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

| Multi-Ply | BUR | | | APP | | | SBS | | | | |
|------------------------------------------------------|-----|----|----|-----|----|----|-----|----|----|----|--|
| | HA | CA | HW | HA | CA | HW | SA | MF | AD | BA | |
| Compatible with the selected multi-ply systems above | | | | | | | | | | | |

| Single Ply | TPO | | | | PVC | | | EPDM | | |
|------------------------------------|-----|----|----|----|-----|----|----|------|----|----|
| | MF | AD | SA | IW | MF | AD | IW | MF | AD | BA |
| Do not use with single ply systems | | | | | | | | | | |

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

| Test | Initial | 3-Year Aged |
|-----------------------------------------|---------|-------------|
| Reflectivity* (ASTM C 1549) | 0.28 | 0.25 |
| Emissivity* (ASTM C 1371) | 0.89 | 0.92 |
| Solar Reflectance Index* (SRI) - E 1980 | 29 | 26 |
| Pre-Consumer Recycled Content | 0% | |
| Post-Consumer Recycled Content | 0% | |

*Standard White Granule only

Peak Advantage® Guarantee Information

| Systems | Guarantee Term |
|--------------------------------------------|----------------|
| When used in most 2-5 ply JM SBS systems.* | Up to 30 years |

*Contact JM Technical Services for specific system requirements or guarantee terms.

Codes and Approvals



Product Application



- May be installed in Type IV asphalt or in an approved JM adhesive
- Laps may be installed using heat-welding techniques
- Refer to JM SBS modified bitumen specifications and detail drawings for application and slope information

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) |
| Roll Weight | 102 lb (46 kg) |
| Rolls per Pallet | 20 |
| Pallet Weight | 2,130 lb (966 kg) |
| Pallets per Truck** | 22 |
| Producing Locations | South Gate, CA Macon, GA Plattsburgh, NY |

*Assumes a 4' side lap **Assumes 48' flatbed truck.

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 | DynaGlas FR Result |
|---------------------------|-------------------------------------------------|------------------|----------------------|
| Cyclic Joint Displacement | Initial | D 5849 | Pass at 500 cycles* |
| | After 90-Day Heat Conditioning per ASTM D 5147 | D 5849 | Pass at 200 cycles* |
| | After 180-Day Heat Conditioning per ASTM D 5147 | D 5849 | Pass at 200 cycles** |
| Coefficient of Friction | Static | D 1894 | 1.32 |
| | Kinetic | D 1894 | 0.89 |

*In a min 2-ply system when adhered with any combination of cold applied, hot applied and or heat-weld that is approved by JM for application.

**When adhered to DynaBase in hot asphalt.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/ roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

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