



DynaGlas® FR CR

Fire-Retardant Fiber Glass-Reinforced SBS Cool Roof Cap Sheet

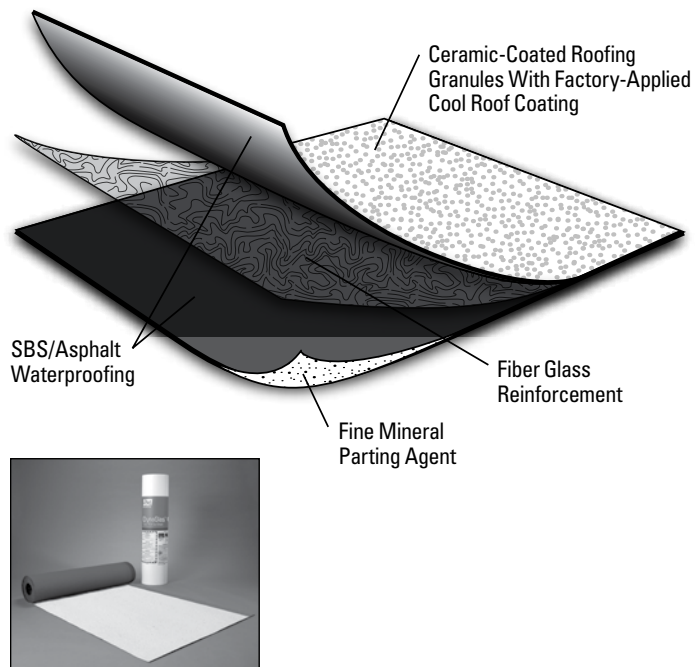
Meets the requirements of ASTM D 6163, Type 1, Grade G.

Features

Ceramic-Coated Roofing Granules With Factory-Applied Cool Roof Coating: The cool roof technology combines the proven UV protection of ceramic-coated granules with a highly reflective coating, offering long-term performance and potential energy savings. Color: White only.

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)	0.76	0.61
Emissivity (ASTM C 1371)	0.85	0.92
Solar Reflectance Index (SRI) - E 1980	93	74
Postconsumer Recycled Content	0%	
Preconsumer Recycled Content	0%	

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	2,250 lb (1,121 kg)
Pallets per Truck*	22
Producing Location	Macon, GA

*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.

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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Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6163, Type 1, Grade G (Min.)	DynaGlas FR CR	
				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	0°F (-18°C)	-10°F (-23°C)	
		90-Day Heat Conditioned	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)	0.2 g (0.01 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)	100 lb/100 ft² (45 kg/9.29 m²)	
	Roll Weight	D 146	N/A	106 lb (48 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 CR Result
Cyclic Joint Displacement	Cyclic Joint Displacement	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.