



DynaMax™ FR HW CR G

Fire-Retardant, Fiber Glass/Polyester-Reinforced
SBS Reflective Mineral-Surfaced, Cool Roof Cap or Flashing Sheet

Meets the requirements of ASTM D 6162, Type III, Grade G

Features and Components

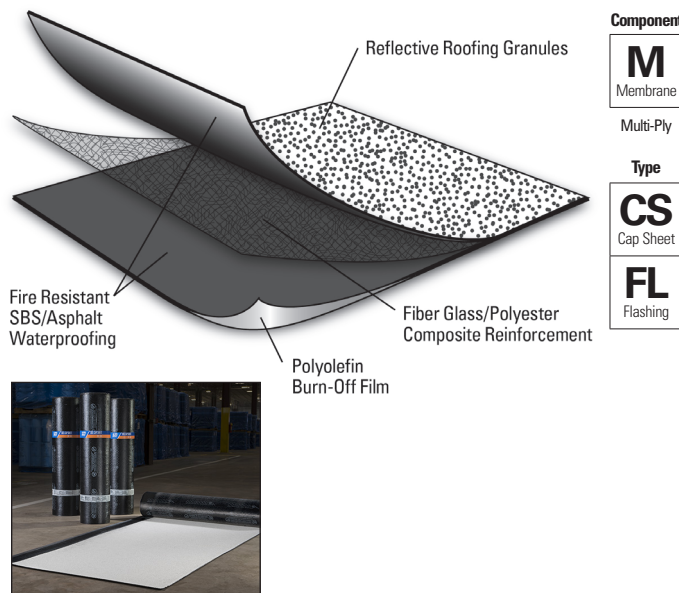
DynaMax FR HW CR G is used as a premium fiber glass/polyester-reinforced cool roof cap sheet in a variety of multi-ply roofing systems.

Reflective Roofing Granules: Specifically engineered for high reflectivity, durability and optimal embedment in the SBS modified bitumen sheet.

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.

Fiber Glass/Polyester Reinforcement Mat: Combines the excellent tensile strength, toughness and puncture resistance of a polyester mat with the dimensional stability and lay-flat characteristics of fiber glass.

Polyolefin Burn-Off Film: Promotes ease of heat welding.



Component	M Membrane
Multi-Ply	
Type	CS Cap Sheet
	FL Flashing

Color: Bright white only

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	
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

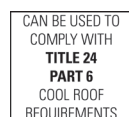
Energy and the Environment

CIRC®**	Test	Initial	3-Year Aged**
	Reflectivity (ASTM C 1549)	0.70	0.65
	Emissivity (ASTM C 1371)	0.90	0.91
Rated Product ID: 0662-0042c Licensed Manufacturer ID: 0662 Classification: Production Line			
LEED®	Solar Reflectance Index (SRI) - E 1980	85	80
	Recycled Content	0%	

* Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.

** Tested in accordance with Rapid Ratings D7897.



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



This product is made to order. Please contact your JM Sales Representative for pricing and minimum order quantity.

Product Application



Heat Weld

- Must 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*	100 ft ² (9.29 m ²)
Roll Length	32' 10" (10 m)
Roll Width	39 3/8" (1 m)
Roll Weight	105 lb (47.63 kg)
Rolls per Pallet	20
Pallet Weight	2,200 lb (998 kg)
Pallets per Truck**	20
Producing Locations	Macon, GA

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

Storage

Shelf Life*	3 months
Storage Conditions*	Max temperature 120°F (48.8°C) and out of direct sunlight

*Extended storage of CR G membranes at elevated temperatures can lead to staining prior to installation



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Typical Physical Properties¹

Physical Properties		ASTM Test Method	Standard for ASTM D 6162, Type III, Grade G (Min.)	DynaMax FR HW CR G	
				MD*	XMD**
Strength	Tensile Tear	D 5147	280 lbf (1245 N)	400 lbf (1780 N)	415 lbf (1846 N)
	Peak Load at 73.4°F (23°C)	D 5147	250 lbf/in (44 kN/m)	290 lbf/in (51.1 kN/m)	265 lbf/in (26.7 kN/m)
Longevity	Low Temp. Flexibility	D 5147	0°F (-18°C)	-10°F (-23°C)	
	Compound Stability	D 5147	195°F (91°C)	250°F (121°C)	
	Granule Loss	D 4977	2 g (0.07 oz)	0.7 g (0.025 oz)	
	Thickness	D 5147	135 mil (3.5 mm)	153 mil (3.89 mm)	
	Selvage Edge Thickness	D 5147	N/A	133 mil (3.38 mm)	
	Elongation at Peak Load at 73.4°F (23°C)	D 5147	3%	6%	5%
	Ultimate Elongation at 73.4°F (23°C)	D 5147	3%	20%	17%
Installation	Dimensional Stability	D 5147	0.5%	0.2%	0.2%
	Net Mass per Unit Area	D 146	85 lb/100 ft ²	98 lb/100 ft ²	
	Roll Weight	D 146	N/A	105 lb (47.63 kg)	

*MD = Machine Direction

**XMD = Cross-Machine Direction

1. Material tested in accordance with ASTM D 5147 Standard Test Method for Sampling and Testing Modified Bituminous Sheet Materials.

Supplemental Testing

Physical Properties		ASTM Test Method	DynaMax FR HW CR G 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*
Coefficient of Friction	Static	D 1894	1.08
	Kinetic	D 1894	0.75

*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.

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.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.