

# DynaWeld™Cap 250 FR CR G

Fire-Retardant, Heavy Duty Polyester-Reinforced, SBS Reflective Mineral-Surfaced, Cool Roof Cap or Flashing Sheet

#### Meets the requirements of ASTM D 6164, Type II, Grade G

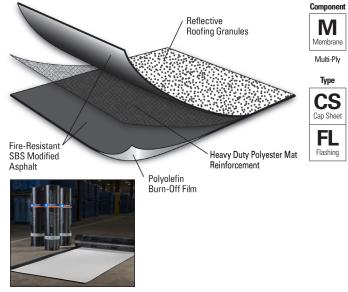
### **Features and Components**

**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 and contains fire-retardant additives. The thicker JM SBS coating provides more waterproofing value.

Heavy Duty Polyester-Reinforcement Mat: Provides excellent tensile strength, toughness and puncture resistance, and it can accommodate stresses created by typical rooftop expansion and contraction forces.

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



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.

Ply	BUR	APP		SBS				
Multi-l	HA	CA	HW	HA	CA	HW	SA	MF
ž	Compatible with the selected multi-ply systems above							

MF AD SA IW MF AD IW MF AD BA

Do not use with single ply sytems

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**		
CRRC®*	Reflectivity (ASTM C 1549)	0.70	0.65		
CRR	Emissivity (ASTM C 1371)	0.90	0.91		
	Rated Product ID: 0662-0042c Licensed Manufacturer ID: 0662 Classification: Production Line				
.EED®	Solar Reflectance Index (SRI) - E 1980	85	80		
当	Recycled Content	0%			

<sup>\*</sup> 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

<sup>\*</sup>Contact JM Technical Services for specific system requirements for guarantee lengths.

#### **Codes and Approvals**







#### **Installation/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*	95.8 ft <sup>2</sup> (8.9 m <sup>2</sup> )
Roll Length	32' 10" (10 m)
Roll Width	39 ¾" (1 m)
Roll Weight	107 lb (48.5 kg)
Rolls per Pallet	20
Pallet Weight	2,195 lb (995.6 kg)
Pallets per Truck**	20
Producing Locations	Macon, GA

<sup>\*</sup>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

<sup>\*</sup>Extended storage of CR G membranes at elevated temperatures can lead to staining prior to installation



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## Meets the requirements of ASTM D 6164, Type II, Grade G

### **Tested Physical Properties**

Physical Properties			Standard for ASTM D 6164	DynaWeld Cap 250 FR CR G		
			Type II, Grade G (Min.)	MD*	XMD**	
Tensile Tear		D 5147	70 lbf (311 N)	181 lbf (805 N)	124 lbf (552 N)	
Peak Load at 0°F (-18°C)		D 5147	100 lbf (45 kgf)	184 lbf (84 kgf)	122 lbf (55 kgf)	
Peak Load at 77°F (23°C)		D 5147	70 lbf (32 kgf)	106 lbf (48 kgf)	84 lbf (38 kgf)	
Low Tomp Floribility	Unconditioned	D 5147	0°F (-18°C)	-10°F (-23°C)		
Low Temp. Flexibility	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	130 mil (3.3 mm)	165 mil (4.2 mm)		
Thickness Selvage Edge Thickness			N/A	134 mil (3.4 mm)		
Elongation at Peak Load at 0°F (-18°C)		D 5147	20%	46%	54%	
Elongation at Peak Load at 73.4°F (23°C)		D 5147	50%	58%	71%	
Ultimate Elongation at 77°F		D 5147	60%	61%	76%	
90-Day Heat-Conditioned Peak Load at 0°F (-18°C)		D 5147	100 lbf (45 kgf)	178 lbf (81 kgf)	119 lbf (54 kgf)	
90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)		D 5147	20%	49%	60%	
90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)		D 5147	70 lbf (32 kgf)	133 lbf (60 kgf)	96 lbf (44 kgf)	
90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)		D 5147	50%	58%	68%	
90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)		D 5147	60%	60%	71%	
Dimensional Stability	D 5147	1.0%	0.3%	0.1%		
Net Mass per Unit Area		D 146	90 lb/100 ft <sup>2</sup> (41 kg/9.29 m <sup>2</sup> )	90 lb/100 ft² (41 kg/9.29 m²)		
Roll Weight		D 146	N/A	107 lb (48.5 kg)		
	Tensile Tear  Peak Load at 0°F (-18°C)  Peak Load at 77°F (23°C)  Low Temp. Flexibility  Compound Stability  Granule Loss  Thickness  Selvage Edge Thickness  Elongation at Peak Load at 0°I  Elongation at Peak Load at 73.  Ultimate Elongation at 77°F  90-Day Heat-Conditioned Pea  90-Day Heat-Conditioned Elongi 90-Day Heat-Conditioned Elongi 90-Day Heat-Conditioned Elongi 90-Day Heat-Conditioned Ultir  Dimensional Stability  Net Mass per Unit Area	Tensile Tear  Peak Load at 0°F (-18°C)  Peak Load at 77°F (23°C)  Low Temp. Flexibility  Granule Loss  Thickness  Selvage Edge Thickness  Elongation at Peak Load at 0°F (-18°C)  Elongation at Peak Load at 73.4°F (23°C)  Ultimate Elongation at 77°F  90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)  90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)  90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)  90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)  90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)  90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)  Dimensional Stability  Net Mass per Unit Area	Tensile Tear         D 5147           Peak Load at 0°F (-18°C)         D 5147           Peak Load at 77°F (23°C)         D 5147           Low Temp. Flexibility         Unconditioned         D 5147           Compound Stability         D 5147           Granule Loss         D 4977           Thickness         D 5147           Selvage Edge Thickness         D 5147           Elongation at Peak Load at 0°F (-18°C)         D 5147           Elongation at Peak Load at 73.4°F (23°C)         D 5147           Ultimate Elongation at 77°F         D 5147           90-Day Heat-Conditioned Peak Load at 0°F (-18°C)         D 5147           90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)         D 5147           90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)         D 5147           90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)         D 5147           90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)         D 5147           Dimensional Stability         D 5147           Net Mass per Unit Area         D 146	Test Method   Type II, Grade G (Min.)	Test Method   Type II, Grade G (Min.)   MD*	

<sup>\*</sup>MD = Machine Direction

 $Note: Material \ tested \ in \ accordance \ with \ ASTMD \ 5147 \ Standard \ Test \ Methods \ for \ Sampling \ and \ Testing \ Modified \ Bituminous \ Sheet \ Materials.$ 

#### **Supplemental Testing**

Physical Properties		ASTM Test Method	DynaWeld Cap 250 FR CR G Result
Cyplic Joint Dionlessment	Initial	D 5849	Pass at 500 cycles*
Cyclic Joint Displacement	After 90-Day Heat Conditioning per ASTM D 5147	D 5849	Pass at 200 cycles*
Coefficient of Frietien	Static	D 1894	1.34
Coefficient of Friction	Kinetic	D 1894	1.06

<sup>\*</sup>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.

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<sup>\*\*</sup>XMD = Cross-Machine Direction