

Meets the requirements of ASTM D 6164, Type I, Grade G

## Features and Components

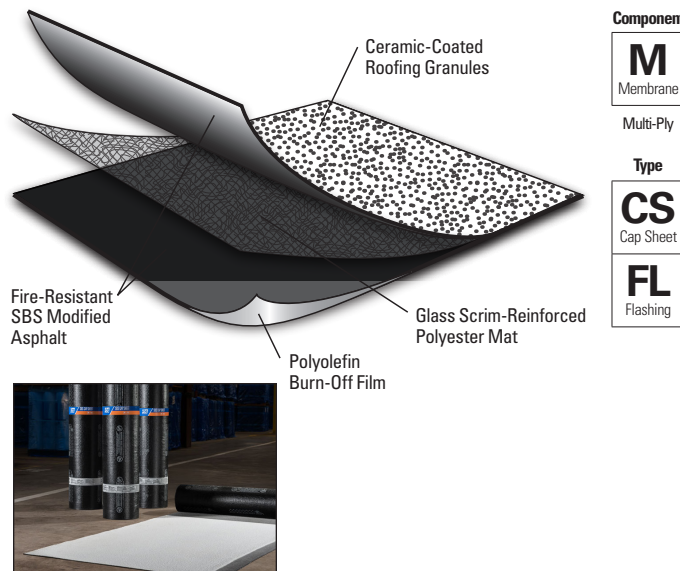
DynaWeld Cap 180 FR is used as a polyester-reinforced mineral-surfaced cap or flashing sheet in a variety of multi-ply roofing systems.

**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.

**Polyester Reinforcement Mat:** Polyester mat with glass-scrim reinforcement offers robust tear strength and puncture resistance, allowing for high wind performance and an excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.

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



**Colors:** White, Black, Tan, Brown & 3M™ Smog Reducing Granule (Black and Tan may require extended lead times.)

**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
Compatible with the selected single ply systems above										

**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



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 3/8" (1 m)
Roll Weight	105 lb (47.6 kg)
Rolls per Pallet	20
Pallet Weight	2,230 lb (1,012 kg)
Pallets per Truck**	22
Producing Locations	South Gate, CA Macon, GA Plattsburgh, NY

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

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## Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6164, Type I, Grade G (Min.)	DynaWeld Cap 180 FR	
				MD*	XMD**
Strength	Tensile Tear	D 5147	55 lbf (245 N)	125 lbf (556 N)	90 lbf (400 N)
	Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	90 lbf/in (15.8 kN/m)
	Peak Load at 77°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	80 lbf/in (14.0 kN/m)	60 lbf/in (10.5 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)	0.7 g (0.02 oz)	
	Thickness	D 5147	130 mil (3.3 mm)	157 mil (4.0 mm)	
	Selvage Edge Thickness	D 5147	N/A	110 mil (2.8 mm)	
	Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	35%	40%
	Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	55%	60%
	Ultimate Elongation at 77°F	D 5147	38%	70%	80%
Aged Performance	90-Day Heat-Conditioned Peak Load at 0°F (-18°C)	D 5147	70 lbf/in (12.3 kN/m)	110 lbf/in (19.3 kN/m)	90 lbf/in (15.8 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C)	D 5147	20%	25%	25%
	90-Day Heat-Conditioned Peak Load at 73.4°F (23°C)	D 5147	50 lbf/in (8.8 kN/m)	85 lbf/in (14.9 kN/m)	65 lbf/in (11.4 kN/m)
	90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C)	D 5147	35%	35%	45%
	90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C)	D 5147	38%	45%	45%
Installation	Dimensional Stability	D 5147	1.0%	0.2%	0.1%
	Net Mass per Unit Area	D 146	75 lb/100 ft <sup>2</sup> (34 kg/9.29 m <sup>2</sup> )	100 lb/100 ft <sup>2</sup> (45.4 kg/9.29 m <sup>2</sup> )	
	Roll Weight	D 146	N/A	105 lb (47.6 kg)	

\*MD = Machine Direction

\*\*XMD = Cross-Machine Direction

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

## Supplemental Testing

Physical Properties		ASTM Test Method	DynaWeld Cap 180 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*
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.