

TECHNICAL PRODUCT DATA SHEET

**650 PANOPLY™ SBS MINERAL CAP SHEET**

**PRODUCT DESCRIPTION**

**Product Use:** Malarkey Roofing Products™ (Malarkey) 650 Panoply SBS Cap Sheet is a fire-rated (FR) mineral cap sheet manufactured to meet the needs of a high performance, quality built-up roofing system. This cap sheet can be applied with hot mopping or cold process adhesives. This product is used as a surface sheet for multiple-ply roof systems. Please consult Malarkey for approval of roof systems.

**Precautions:** 650 Panoply requires dry storage and protection from the weather. Do not apply wet cap sheet. Roof decks should be sound, dry, smooth, meet necessary local requirements and provide positive drainage.

**Composition and Materials:** 650 Panoply is manufactured on a fiberglass scrim/mat, impregnated and coated with an SBS modified asphalt and filled with a fire-retardant stabilizer and surfaced with ceramic granules for ultraviolet protection and weatherability.

**Application Standards:** Approval for use on all fire-rated built-up roofs. Please consult the Malarkey Specification Manual for roof system and installation information.

**TECHNICAL DATA**

Typical average properties, 3/4 square roll:

Weight/sq.	102 lbs. (46.3 kg)	
Weight/roll	76 lbs. (34.5 kg)	
Dimensions	39-3/8" wide x 26' long	
	(1 m wide x 7.9 m long)	
Thickness	140 mils	
Granule Adhesion	0.5 gram loss	
Breaking Strength 0°F (-18°C)	MD: 215 lbs.*F/in.	XM: 200 lbs.*F/in.
Breaking Strength @ 73.4°F (23.5°C)	MD: 105 lbs.*F/in.	XM: 105 lbs.*F/in.
Elongation @ Break	MD -5%	XM -5%
Ultimate Elongation	MD -30%	XM -50%
Tear Resistance	MD: 195 lbs.*F/in.	XM: 175 lbs.*F/in.

The above results per ASTM D 5147-97. Meets or exceeds ASTM D 3909-97b, D 6163-97 type II. Listed by FM and WH.

**APPLICATION PROCEDURE**

650 Panoply shall be applied as specified in the Malarkey Specification Manual with specified base sheets and/or interply sheets. It may be applied in cold weather. Please follow cold weather application and general requirements.

**WARRANTIES**

Malarkey offers various warranties to meet specific requirements. The warranty package includes 5, 10, 15 and 20-year limited and unlimited coverage. Contact Malarkey for full details.

**TECHNICAL SERVICES**

Malarkey has technical assistance available for all phases of built-up roof coverings and requirements. Inspectors are available for consultations, as well as job site and final inspections. Contact Malarkey for details at (800) 545-1191 or (503) 283-1191; Weekdays 7:00 a.m. to 5:00 p.m. Pacific Time.

**AVAILABILITY**

Malarkey 650 Panoply SBS Cap Sheet is available throughout North America and Pacific Rim countries. Visit [www.MalarkeyRoofing.com](http://www.MalarkeyRoofing.com) for additional product information and availability.

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For most current version, go to [www.MalarkeyRoofing.com](http://www.MalarkeyRoofing.com)