

**IKO****TECHNICAL DATA SHEET****STOCK NO. 4120XXX****September, 2018****MARATHON**

This sturdy shingle is composed of a resilient, inorganic glass base that is coated and permeated with additional weather-resistant asphalt. As a three-tab, standard-weight shingle, it provides the assurance of long lasting performance and is surfaced with ceramic colored granules which protect the asphalt from ultraviolet radiation. Each shingle has release tape and mineral powder applied to the underside, thus preventing any sticking in the bundle. This shingle meets ASTM D3018, ASTM D3462, ASTM E-108 Class A, ASTM D3161 Class F, and ASTM D7158 Class H and can be applied to roofs with slopes of greater than 4:12 (underlayment must be used up to 8:12). They may also be applied on low slope roofs (2:12 to 4:12) providing the deck is covered with two plies of felt or one ply of any IKO Ice & Water Protector.

CHARACTERISTIC	UNITS	NOMINAL VALUE	TEST METHOD	STANDARD LIMITS
<b>QUANTITY PER PALLET:</b>	-	60	-	N/A
<b>PALLET SIZE:</b>	cm (in)	101 x 135 (40 x 53)	-	-
<b>LENGTH:</b>	mm (in)	1000 (39 3/8)	-	± 3 (± 1/8)
<b>WIDTH:</b>	mm (in)	336 (13 1/4)	-	± 3 (± 1/8)
<b>HEADLAP:</b>	mm (in)	50 (2)	-	MIN: 50 (2)
<b>BUNDLE QUANTITY:</b>	-	21	-	-
<b>COVERAGE PER BUNDLE:</b>	ft <sup>2</sup> (m <sup>2</sup> )	32.3 (3.0)	-	-
<b>EXPOSURE:</b>	mm (in)	143 (5 5/8)	-	-
<b>TEAR STRENGTH:</b>	g	PASS	ASTM D1922	MIN: 1700
<b>HEAT RESISTANCE:</b>	-	PASS	*	90°C (192°F)
<b>STABILIZED BITUMEN WEIGHT:</b>	g/m <sup>2</sup> (lbs/100 ft <sup>2</sup> )	PASS	ASTM D228	MIN: 2000 (41)
<b>GRANULE RETENTION:</b>	%	PASS	ASTM D4977	MIN: 86
<b>FIRE RATING:</b>	-	CLASS A	ASTM E108	MIN: CLASS A

\* Sample shows no sliding or dripping of the bitumen coating when suspended vertically in an oven at 90°C (192°F) for 2 hours.

See also Material Information Sheet – MIS # 1213  
MIS # 1713

*The information on this Technical Data sheet is based upon data considered to be true and accurate, based on laboratory tests and production measurements, and is offered solely for the user's consideration, investigation and verification. Nothing contained herein is representative of a warranty or guarantee for which the manufacturer can be held legally responsible. The manufacturer does not assume any responsibility for any misrepresentation or assumptions the reader may formulate.*