# TECHNICAL DATA SHEET

***STOCK NO. 4120XXX*** ***July, 2010***

# ***MARATHON 20***

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 D3161 Class F, 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. Shingles produced at Sumas conform to ICC Evaluation ER-5796. IKO's asphalt shingles are produced and designed with consideration for environmental responsibility and sustainability, incorporating quality recycled components whenever possible, manufactured in facilities that comply with the most stringent government environmental regulations, and can therefore be a part of any "green" construction project.

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