STOCK NO. 41801XX **JULY, 2016**

IKOTHERM III

IKOTherm III is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from closed cell polyisocyanurate foam core bonded on each side to coated glass fiber facers during the manufacturing process. IKOTherm III polyisocyanurate foam insulation is ideally suited for hot and cold applied Mod-Bit roofing systems and BUR roofing systems. IKOTherm III polyisocyanurate foam insulation is dimensionally stable and can be sized with ease. It is also lightweight and easy to handle. It has a high thermal R-value that provides outstanding insulation protection, which helps to reduce heating and cooling costs. IKOTherm III polyisocyanurate foam insulation is available in board sizes of 1220 mm x 2440 mm (4' x 8'), or 1220 mm x 1220 mm (4' x 4'), and in a wide range of thicknesses. IKOTherm III polyisocyanurate foam insulation is produced according to the requirements of CAN/ULC S-704 for Type 2, Class 3 materials, and ASTM C1289 Type II, Class 2, Grade 2. IKO's roofing products 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	TYPICAL VALUE	SPECIFICATION	TEST METHOD	STANDARD LIMITS
LENGTH TOLERANCE:	mm (in)	± 4 (± 0.16)	CAN/ULC-S704	ASTM C303	+ 6 (+ 0.25) - 4 (- 0.16)
WIDTH TOLERANCE:	mm (in)	± 2 (± 0.08)	CAN/ULC-S704	ASTM C303	+ 4 (+ 0.16) - 2 (- 0.08)
DIMENSIONAL STABILITY(MD/XD) **AT -29°C:** **AT 80°C:** **AT 70°C, 97% R.H.:**	 % % %	 -0.02/-0.03 -0.02/-0.17 0.30/0.80	CAN/ULC-S704	ASTM D2126	 max: ± 2 max: ± 2 max: ± 2
WATER VAPOUR PERMEANCE:	ng/Pa•s•m²	68	CAN/ULC-S704	ASTM E96	>60
WATER ABSORPTION:	% by Vol.	1.6	CAN/ULC-S704	ASTM D2842	max: 3.5
COMPRESSIVE STRENGTH*:	kPa (psi)	145 (21)	CAN/ULC-S704	ASTM D1621	min: 140 (20)
FLEXURAL STRENGTH MD: **XD:**	kPa (psi)	607 (88.5) 479 (69.8)	CAN/ULC-S704	ASTM C203	min: 275 (39.3)
LONG TERM THERMAL RESISTANCE (LTTR): **THICKNESS: 15.9 mm (0.625 in)** **25 mm (1 in)** **50 mm (2 in)** **75 mm (3 in)** **100 mm (4 in)**	m^2•K/W (Btu•hr•ft^{2}•°F)	0.62 (3.5) 0.99 (5.6) 2.01 (11.4) 3.06 (17.4) 4.16 (23.6)	CAN/ULC-S704	CAN/ULC-S770	-

***** Tested on cured sample, using chord modulus at 10% deformation.
172 kpa (25 psi) product available by special request, which would conform to ASTM C1289 Grade 3 requirements
Note: LTTR values shown are for "metric" thicknesses, and will vary slightly from 1", 2", 3" and 4" values.

See also Material Safety Data Sheet – MSDS #1511 or MSDS #1911.