



STOCK NO. 4180XXX

JANUARY, 2014

IKOTHERM

IKOTherm polyisocyanurate foam insulation is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from closed cell polyisocyanurate foam core bonded on each side to fiber-reinforced facers during the manufacturing process. IKOTherm polyisocyanurate foam insulation is designed to be part of modified bitumen, built-up, or single-ply roof system. IKOTherm 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 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 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 1, Grade 2. This product is listed under CCMC listing #13037-L and is FM and UL approved. 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:	%	-0.02/-0.03	CAN/ULC-S704	ASTM D2126	max: ± 2
AT 80°C:	%	-0.02/-0.17			
AT 70°C, 97% R.H.:	%	0.30/0.80			
WATER VAPOUR PERMEANCE:	ng/Pa•s•m ²	PASS	CAN/ULC-S704	ASTM E96	>60
WATER ABSORPTION:	% by Vol.	PASS	CAN/ULC-S704	ASTM D2842	max: 3.5
COMPRESSIVE STRENGTH*:	kPa (psi)	PASS	CAN/ULC-S704	ASTM D1621	min: 140 (20)
FLEXURAL STRENGTH MD:	kPa (psi)	PASS	CAN/ULC-S704	ASTM C203	min: 275 (39.3)
XD:		PASS			
LONG TERM THERMAL RESISTANCE (LTTR):					
THICKNESS: 25 mm (1 in)	m ² •K/W (Btu•hr•ft ² •°F)	0.99 (5.6)	CAN/ULC-S704	CAN/ULC-S770	-
50 mm (2 in)		2.01 (11.4)			
75 mm (3 in)		3.06 (17.4)			
100 mm (4 in)		4.16 (23.6)			

* Tested on cured sample, using chord modulus at 10% deformation.

Note: LTTR values shown are for "metric" thicknesses, and will vary slightly from 1", 2", 3" and 4" values.

172 kpa (25 psi) product available by special request, which would conform to ASTM C1289 Grade 3 requirements.

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

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.