



IKO TECHNICAL DATA SHEET

STOCK NO. 4200XXX

November, 2012

IKO ENER-AIR SHEATHING

IKO Ener-Air 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. IKO Ener-Air is designed to be non-structural sheathing in cavity wall, stud wall or cathedral ceiling construction. It is an air barrier with a high water vapour permeance and it has excellent water shedding capabilities. IKO Ener-Air Sheathing 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 costs. IKO Ener-Air Sheathing is available in a board size of 1220 mm x 2440 mm (4' x 8') and in a range of thicknesses from 19 mm to 51 mm (0.75"-2.0"). IKO Ener-Air Sheathing is produced according to the requirements of CAN/ULC S-704 for Type 1, Class 3 materials, and ASTM C1289 Type II. IKO's 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	NOMINAL 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: (AT 70°C, 97% R.H.) XD:	%	PASS PASS	CAN/ULC-S704	ASTM D2126	MAX: ±2
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: 110 (16)
LONG TERM THERMAL RESISTANCE (LTTR): THICKNESS: 19 mm (0.75 in.) 25 mm (1.0 in.) 38 mm (1.5 in.) 51 mm (2.0 in.)	RSI (Btu·hr·ft ² ·°F)	0.77 (4.5) 1.05 (6.0) 1.58 (9.0) 2.10 (12.0)	CAN/ULC-S704	CAN/ULC-S770	-
FLEXURAL STRENGTH: MD: XD:	kPa	607 479	CAN/ULC-S704	ASTM C203	≥275
TENSILE STRENGTH:	kPa	PASS	CAN/ULC-S704	ASTM D1623	≥24
SERVICE TEMPERATURE:	°C (°F)	-40 to 100 (-40 to 212)	-	-	-
FLAME SPREAD INDEX Canada: United States*:	- -	≤350 PASS	- -	CAN/ULC-S102 ASTM E84	- ≤75
SMOKE DENSITY INDEX Canada: United States*:	- -	≤225 PASS	- -	CAN/ULC-S102 ASTM E84	- ≤450

* Foam core only (2.0" thickness)

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.