



TECHNICAL DATA SHEET

PRODUCT NUMBER: 4200XXX

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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 12 mm to 50 mm (0.5"-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.

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	+6 (+0.25) -4 (-0.16)
DIMENSIONAL STABILITY MD, XD: (AT 70°C, 97% R.H.)					
MD:	%	PASS	CAN/ULC-S704	ASTM D2126	MAX: ± 2
XD:		PASS			
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:					
12 mm (0.5 in.)		0.54 (3.0)			
16 mm (0.625 in.)		0.66 (3.75)			
18 mm (0.75 in.)	RSI	0.77 (4.5)	CAN/ULC-S704	CAN/ULC-S770	-
25 mm (1.0 in.)	(Btu•hr•ft ²	1.05 (6.0)			
38 mm (1.5 in.)	•°F)	1.58 (9.0)			
50 mm (2.0 in.)		2.10 (12.0)			
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:	-	< 375	-	CAN/ULC-S102	-
United States*:	-	PASS	-	ASTM E84	< 75
SMOKE DENSITY INDEX					
Canada:	-	< 225	-	CAN/ULC-S102	-
United States*:	-	PASS	-	ASTM E84	< 450

*Foam core only (2.0" thickness).

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