

# IKO Enerfoil® Sheathing

WALL INSULATION

STOCK# 41840XX

DIMENSIONS\* 4 ft x 8 ft

AVAILABLE THICKNESSES\*\*

4184000 - 12 mm (0.5 in)

4184001 - 16 mm (0.625 in)

4184002 - 18 mm (0.75 in)

4184003 - 25 mm (1.0 in)

4184008 - 38 mm (1.5 in)

4184013 - 50 mm (2.0 in)

4184018 - 64 mm (2.5 in)

4184023 - 75 mm (3.0 in)

4184028 - 89 mm (3.5 in)

4184033 - 100 mm (4 in)

PIECES PER PALLET

4184000 - 0.5 in - 96

4184001 - 0.625 in - 76

4184002 - 0.75 in - 64

4184003 - 1.0 in - 48

4184008 - 1.5 in - 32

4184013 - 2.0 in - 24

4184018 - 2.5 in - 19

4184023 - 3.0 in - 16

4184028 - 3.5 in - 13

4184033 - 4.0 in - 12

\*0.75 in, 1.0 in and 1.5 in thick products

also available in 4 ft x 9 ft dimensions

\*\*special sizes available upon request,

IKO's AccuCut service allows further  
specialty board dimensions

Note: All reported values are nominal.

- OUTSTANDING R-VALUE
- VAPOUR IMPERMEABLE
- WEATHER-RESISTANT
- CONTROLS SOUND
- LOW ODOUR EMISSIONS



# COMMERCIAL

Specify *with Confidence.*



Let IKO Enerfoil Sheathing Wall Insulation go to work for your next commercial building project.

## IKO Enerfoil Sheathing

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### Foil-Faced Polyiso

IKO Enerfoil Sheathing is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from closed cell polyisocyanurate foam core bonded on each side to aluminum foil facers during the manufacturing process.

### Multi-Purpose Sheathing

When used with AquaBarrier Tapes or AcrylicStick SA tapes, IKO Enerfoil offers four major benefits, all in one!

- Insulation
- Air Barrier
- Weather Resistive Vapour Barrier
- Controls Sound

### Cost Effective

IKO Enerfoil has a high thermal R-value that provides outstanding insulation protection, which helps increase efficiency and reduce energy costs.

### Built to Perform

Building owners and construction professionals are demanding more and more highly engineered building materials. IKO Enerfoil Sheathing Systems meet and exceed those expectations, especially designed with new acoustic properties, bringing maximum weather resistance and quiet comfort to structures.

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**IKO Enerfoil Sheathing** Wall Insulation is produced according to the requirements of CAN/ULC S704 for Type 1, Class 1 materials, and ASTM C1289 Type I, Class 1. EnerFoil Insulation also is listed with CCMC under report number 13188-L. All local health and safety rules and precautions should be followed when working with IKO Products.

Good building practices include ensuring the application surface is adequately prepared for the installation of the product. For further details please refer to the "IKO Installation Guidelines."

CHARACTERISTICS	UNITS	NOMINAL VALUE		TEST METHOD	
Compressive Strength:	kPa (psi)	110 (16)		ASTM D1621	
Tensile Strength:	kPa (psi)	69 (10)		ASTM D1623	
Flexural Strength:	kPa (psi)	564 (82)		ASTM C203	
Water Absorption:	% Vol./ Vol.	3.5		ASTM C209	
Dimensional Stability @ 70°C MD/XD:	%	±2 / ±2		ASTM D2126	
R-Value – Initial and Design LTTR		Initial R-Value	Design LTTR R-Value	Initial R-Value	Design LTTR R-Value
12 mm (0.5 in):	Btu/h·ft²·°F	3.4	3.0	ASTM C518	CAN/ULC S770
18 mm (0.75 in):		5.1	4.4		
25 mm (1.0 in):		6.8	5.9		
38 mm (1.5 in):		10.2	8.9		
50 mm (2.0 in):		13.6	11.8		
64 mm (2.5 in):		17.0	14.8		
75 mm (3.0 in):		20.4	18.0		
89 mm (3.5 in):		23.8	21.0		
100 mm (4.0 in):		27.2	24.0		
Water Vapour Transmission Rate (WVTR):	ng/Pa·s·m² (perms)	< 3.3 (< 0.06)		ASTM E96 (Method A)	
Air Permeability @ 75 pa:	L/s·m²	< 0.02		ASTM E2178	
Air Leakage Rate Classification:	—	Class A1		CAN/ULC S742-11 ASTM E2357-11 <sup>1</sup>	
Flame Spread:	—	< 55 < 75		CAN/ULC-S102 ASTM E84	
Smoke Developed:	—	< 500 < 450		CAN/ULC-S102 ASTM E84	
Service Temperature:	°C (°F)	-40 to 100 (-40 to 212)		—	
Width Tolerance:	mm (in)	±4 (0.16)		ASTM C303	
Length Tolerance:	mm (in)	±2 (0.08)			
Sound Transmission Class (STC):	—	12 - 13		ASTM E90 (09)	
Odour Emission:	—	Pass		ASTM C1304 (08)-2013	

<sup>1</sup>When joints & penetrations detailed appropriately. <sup>2</sup>Stated thermal resistance values are based upon conditioning requirements and test methodology found in ASTM C1289 and ASTM C518 for foil-faced polyisocyanurate insulation. See also Material Safety Data Sheet – MSDS #1511 or MSDS #1911.

All values shown are approximate. The information on this sheet is based on data considered to be true and accurate based on periodic internal testing and production measurements at time of manufacture. The information is offered solely for the user's consideration, investigation and verification, and is subject to change without notice. Nothing contained herein constitutes or represents a warranty or guarantee for which the manufacturer can be held legally responsible. IKO assumes no responsibility for errors that may appear in this document.