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 – 19
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.

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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, IKO Enerfoil offers four major benefits, all in one!

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

Cost Effective
IKO Enerfoil has a high thermal R-value (6.8 per inch) 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.

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

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>UNITS</th>
<th>NOMINAL VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength:</td>
<td>kPa (psi)</td>
<td>110 (16)</td>
<td>ASTM D1621</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td>kPa (psi)</td>
<td>69 (10)</td>
<td>ASTM D1623</td>
</tr>
<tr>
<td>Flexural Strength MD/XD:</td>
<td>kPa (psi)</td>
<td>618 / 805 (89 / 116)</td>
<td>ASTM C203</td>
</tr>
<tr>
<td>Water Absorption:</td>
<td>% Vol.</td>
<td>3.5</td>
<td>ASTM C209</td>
</tr>
<tr>
<td>Dimensional Stability @ 70°C MD/XD:</td>
<td>%</td>
<td>±2 / ±2</td>
<td>ASTM D2126</td>
</tr>
<tr>
<td>Initial R-Value/RSI(^2):</td>
<td>BTU/hr-ft(^2) · °F</td>
<td>1.0 in - 6.8 (1.19)</td>
<td>ASTM C518</td>
</tr>
<tr>
<td>Design Long Term Thermal Resistance (Design LTTR):</td>
<td>BTU/hr-ft(^2) · °F</td>
<td>1.0 in - 5.9 (1.04)</td>
<td>CAN/ULC S704</td>
</tr>
<tr>
<td>Water Vapour Transmission Rate (WVTR):</td>
<td>ng/Pa-s-m(^2) (perms)</td>
<td>&lt;2.6 (&lt;0.05)</td>
<td>ASTM E96 (Method A)</td>
</tr>
<tr>
<td>Air Permeability @75pa:</td>
<td>L/s·m(^2)</td>
<td>&lt;0.02</td>
<td>ASTM E2178</td>
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<tr>
<td>Air Leakage Rate Classification:</td>
<td></td>
<td>Class A1</td>
<td>CAN/ULC S742-11</td>
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<tr>
<td>Flame Spread:</td>
<td></td>
<td>≤500 ≤75</td>
<td>ASTM E2357-11</td>
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<tr>
<td>Smoke Developed:</td>
<td></td>
<td>≤55 ≤450</td>
<td>CAN/ULC-S102</td>
</tr>
<tr>
<td>Service Temperature:</td>
<td>°C (°F)</td>
<td>-40 to 100 (-40 to 212)</td>
<td>—</td>
</tr>
<tr>
<td>Width Tolerance:</td>
<td>mm (in)</td>
<td>±4 (0.16)</td>
<td>ASTM C303</td>
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<tr>
<td>Length Tolerance:</td>
<td>mm (in)</td>
<td>±2 (0.08)</td>
<td>—</td>
</tr>
<tr>
<td>Sound Transmission Class (STC):</td>
<td></td>
<td>11 - 14</td>
<td>ASTM E90 (09)</td>
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<tr>
<td>Odour Emission:</td>
<td></td>
<td>Pass</td>
<td>ASTM C1304 (08)-2013</td>
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</table>

\(^1\)When joints & penetrations detailed appropriately.  
\(^2\)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.