

# IKO Ener-Air™ Sheathing

WALL INSULATION

STOCK# 41842XX

SIZE: 122 cm x 244 cm (4 ft x 8 ft)

122 cm x 274 cm (4 ft x 9 ft)

AVAILABLE THICKNESSES\*\*

4184200 - 12 mm (0.5 in)

4184201 - 16 mm (0.625 in)

4184202 - 18 mm (0.75 in)

4184203 - 25 mm (1.0 in)

4184208 - 38 mm (1.5 in)

4184213 - 50 mm (2.0 in)

PIECES PER PALLET:

12 mm (0.5 in) - 96, 16 mm (0.625 in) - 76

18 mm (0.75 in) - 64, 25 mm (1.0 in) - 48

38 mm (1.5 in) - 32, 50 mm (2.0 in) - 24

\*\*Special sizes available upon request.

IKO's AccuCut service allows further  
specialty board dimensions.

Note: All reported values are nominal.



# COMMERCIAL

Specify *with Confidence.*



Let IKO Ener-Air  
Wall Insulation go  
to work for your  
next commercial  
building project.

## IKO Ener-Air Sheathing

WALL INSULATION

### Glass Fiber-Faced Poliso

IKO Ener-Air is a rigid, polyisocyanurate foam insulation with high thermal properties. It is constructed from closed cell polyisocyanurate foam core reinforced and bonded on each side to coated glass fiber facers during the manufacturing process. IKO Ener-Air is designed to be a non-structural sheathing in cavity wall, stud wall, exterior insulation or cathedral ceiling construction.

### Built to Perform

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

### Multi-Purpose

IKO Ener-Air is a dimensionally stable air barrier with a high water vapour permeance and excellent water shedding capabilities. When used with AquaBarrier™ VP Tapes, it can act as a vapour-permeable, insulated Weather Resistive Barrier (WRB) system for exterior walls. The system offers three major benefits, all in one!

- Insulation
- Weather Resistive Air Barrier
- Controls Sound

### Cost Effective

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

- OUTSTANDING R-VALUE
- VAPOUR PERMEABLE
- NOISE REDUCING
- LOW ODOUR EMISSION



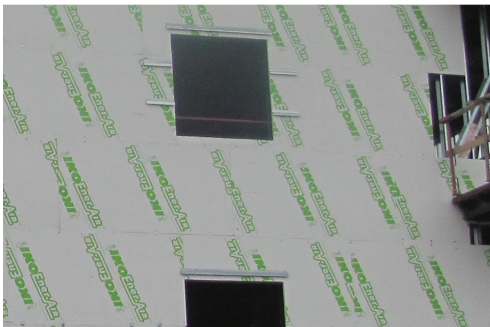
# IKO Ener-Air™ Sheathing

WALL INSULATION



# IKO® COMMERCIAL

Specify *with Confidence.*



IKO Ener-Air Wall Insulation is produced according to the requirements of CAN/ULC S704 for Type 1, Class 3 materials and as a Type II Class 1 Grade 1 material, per ASTM C1289. All local safety rules and precautions should be followed when working with IKO products. See also Material Safety Data Sheet MSDS #1911.

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)          | >24 (>3.48)             |              | ASTM D1623                                   |              |
| Flexural Strength MD/XD:               | kPa (psi)          | 607 / 497 (88 / 72)     |              | ASTM C203                                    |              |
| Water Absorption:                      | % Vol./Vol.        | 3.5                     |              | ASTM C209                                    |              |
| Dimensional Stability @ 70°C MD/XD:    | %                  | ±2 / ±2                 |              | ASTM D2126                                   |              |
| R-Value - Initial and LTRR             |                    | Initial R-Value         | LTRR R-Value | Initial R-Value                              | LTRR R-Value |
| 12 mm (0.5 in):                        | Btu/h·ft²·°F       | 3.2                     | 2.8          | ASTM C518                                    | CAN/ULC S770 |
| 18 mm (0.75 in):                       |                    | 4.7                     | 4.2          |  |              |
| 25 mm (1.0 in):                        |                    | 6.3                     | 5.7          |  |              |
| 38 mm (1.5 in):                        |                    | 9.5                     | 8.5          |  |              |
| 50 mm (2.0 in):                        |                    | 12.6                    | 11.4         |  |              |
| Water Vapour Transmission Rate (WVTR): | ng/Pa·s·m² (perms) | >60 (>1)                |              | ASTM E96 (Method B)                          |              |
| Air Permeability @ 75 pa:              | L/s·m²             | <0.02                   |              | ASTM E2178                                   |              |
| Air Leakage:                           | L/s·m²             | Class A1                |              | CAN/ULC S742-11 / ASTM E2357-11 <sup>1</sup> |              |
| Flame Spread:                          | —                  | <55<br><75              |              | CAN/ULC-S102<br>ASTM E84                     |              |
| Smoke Developed:                       | —                  | <500<br><450            |              | CAN/ULC-S102<br>ASTM E84                     |              |
| Service Temperature:                   | °C (°F)            | -40 to 100 (-40 to 212) |              | —  |              |
| Width Tolerance:                       | mm (in)            | ±4.0 (±0.16)            |              | ASTM C303                                    |              |
| Length Tolerance:                      | mm (in)            | ±2.0 (±0.08)            |              | ASTM C303                                    |              |
| Sound Transmission Class (STC):        | —                  | 14–15                   |              | 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 CAN/ULC S704 and ASTM C518.

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.