

# IKO 2-IN-1

INSULATED WEATHER-RESISTIVE  
BARRIER (WRB) SYSTEM

IKO.COM/COMM



## Better Together

Two great products now come together to create the IKO 2-IN-1 Insulated Weather-Resistive Barrier (WRB) system. When IKO Enerfoil® is used with IKO AcrylicStick™ SA Tapes or IKO Ener-Air™ is used with AquaBarrier VP Tapes, this innovative 2-IN-1 system eliminates the need for a separate membrane system to control air and vapour.

When IKO Enerfoil non-vapour-permeable polyisocyanurate insulation boards come together with AcrylicStick SA Tapes, or IKO Ener-Air vapour-permeable polyisocyanurate insulation boards come together with AquaBarrier VP Tapes, they create the IKO 2-IN-1 Insulated Weather-Resistive Barrier (WRB) system for exterior walls, eliminating the need for a housewrap. This innovative system eliminates the need for a separate air/vapour barrier membrane system and is designed to effectively control air and vapour on exterior walls, as well as act as an effective drainage plane. Additionally, this system reduces energy loss by diminishing thermal bridging via the formation of a continuous layer of insulation across the exterior face of the building.

Enerfoil and Ener-Air are nonstructural rigid polyisocyanurate insulation sheathing boards. Enerfoil has an aluminum foil facer, and Ener-Air has a coated glass fibre mat facer. These facers, respectively, are both on the front and back surfaces of the boards.

**Enerfoil** (non-vapour-permeable) and **Ener-Air** (vapour-permeable) insulations offer the following outstanding characteristics:

- **Save time and provide additional value**  
Designed to help busy design professionals, contractors and project managers save labour, time and material cost, IKO's exclusive 2-IN-1 system is a polyiso insulated sheathing and WRB system in one product, manufactured in Canada, meeting both ASTM E2357 and CAN/ULC S742 Standards for Air Barrier Assemblies specification.
- **Provide high thermal resistance and versatility**  
Polyiso has the highest R-value per inch of any rigid foam board insulation. Increased thermal resistance improves wall energy efficiency performance. Enerfoil foil facers provide long-term moisture resistance for wall applications, while Ener-Air glass fibre facers provide boards with the ability to "breathe" when necessary.
- **Effective strategy to reduce initial construction costs**  
The higher thermal values per inch of both Enerfoil and Ener-Air insulation sheathing products mean that they require less space than less efficient insulation systems to deliver the same level of performance.
- **Stud and fastener line indicators**  
Enerfoil and Ener-Air both have fastener line indicators to improve the accuracy of installation, while laminated facers on both sheathing sides provide moderate job site damage resistance.
- **Have a uniform thickness**  
Enerfoil and Ener-Air consistently maintain air space requirements in cavity wall applications and are ideally suitable for stucco and Exterior Insulation and Finish System (EIFS) applications. Boards are available in both 4' x 8' and 4' x 9' sizes (additional sizes are available using the IKO AccuCut™ service<sup>1</sup> with in-stock thicknesses of 0.5" up to 2" for Ener-Air and 0.5" up to 4" for Enerfoil).

# IKO 2-IN-1

INSULATED WEATHER-RESISTIVE BARRIER (WRB) SYSTEM

## AcrylicStick™ SA Tapes offer the following characteristics:

### Great for flashing details

IKO AcrylicStick SA Tapes are primerless, self-adhering and non-permeable membranes that provide superior performance for critical flashing areas and seams where protection from air, water and moisture infiltration is required. These tapes are ideal for new and retrofit construction.

### Versatile

Roll sizes are available in 4", 6", 9", 12" and 18" widths.



### Durable and easy to install

IKO AcrylicStick SA Tapes are durable, yet maintain necessary flexibility, providing applicators with the required robustness and pliability, enabling quality performance on the job site.

## AquaBarrier VP Tapes offer the following characteristics:

### Self-Adhering (no adhesive)

IKO AquaBarrier VP Tapes are made of a polyolefin synthetic polymer fibre membrane with low water retention capacity and can be applied directly to various substrates such as gypsum, CMU, concrete or wood.

### Versatile

Rolls sizes are available in 4", 6", 9", 12", 18" widths.



### Extra Protection

VP Tapes are primerless, assisting in a quick installation process while maintaining vapour permeability and mold/mildew resistance within the wall system.

## APPLICATIONS

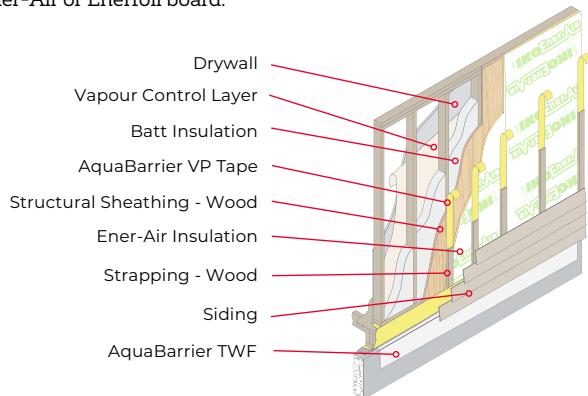
### Consult your local building code for requirements pertaining to air barriers, vapour retarders, joint treatment and strapping.

Use and application of this product must be in accordance with all local, provincial and national building code requirements.

For wood or metal framed assemblies, corner bracing is recommended at corners and around large openings. The framing must be structurally reinforced with either cross bracing or structural sheathing. Enerfoil® or Ener-Air™ are nonstructural and should be fastened to wood studs using washers and nails. Steel stud walls should have Enerfoil or Ener-Air fastened to the studs using mechanical fasteners and washers.<sup>2</sup>

### Completing the Enerfoil and Ener-Air IKO 2-IN-1 System

To complete the Enerfoil and Ener-Air IKO 2-IN-1 System, the seams of the board face MUST be taped with IKO AcrylicStick SA Tapes, AquaBarrier VP Tapes or AquaBarrier Tapes. Windows, doors or any other penetrations must be flashed onto the face of the Ener-Air or Enerfoil board.

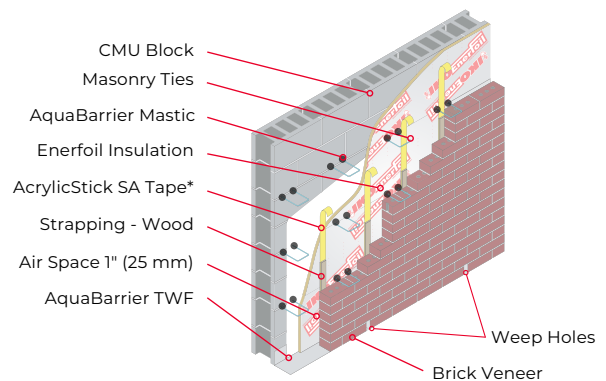


AcrylicStick SA Tapes and AquaBarrier VP Tapes are primerless and thus, require no adhesive. However, the AquaBarrier AVB Tapes must be adhered using IKO Adhesive primers<sup>3</sup> (S.A.M. or S.A.M. LVC Adhesive). Any smaller penetration areas must be sealed using AquaBarrier Mastic.

No special personal protective equipment is required to install Ener-Air or Enerfoil, but good work practices and local safety officials may dictate the use of gloves, safety glasses and other safety equipment. Ener-Air and Enerfoil should not be used on the exterior below grade where it is subject to water infiltration.

See IKO Enerfoil and Ener-Air and IKO AquaBarrier Application Guides at [IKO.COM/COMM](http://IKO.COM/COMM) for further application details.

**NOTE:** In order to reduce exposure to the elements, it is important to apply the exterior veneer over Ener-Air and Enerfoil as soon as practical, following its installation. If it will be left exposed for more than 30 days, keep a protective covering over the sheathing to protect it from environmental damage. Please refer to "IKO Insulation Fastener Guide" for further information on fastening requirements for all applications.



<sup>1</sup>Please refer to "IKO AccuCut™ Guide" for more information on this service. <sup>2</sup>Refer to "IKO Insulation Fastener Guide" for further information on fastening requirements for all applications. <sup>3</sup>When using an IKO approved primer or adhesive, use in a well ventilated area. Avoid breathing vapour. Recommended to wear solvent resistant gloves and NIOSH approved respirator. Drawings are for illustration purposes only. Consult your design professional. \*AcrylicStick SA Tapes can be replaced with AquaBarrier AVB Tapes, if the AquaBarrier\* Tapes are adhered using IKO S.A.M. or S.A.M. LVC Adhesive and if installed in accordance with IKO specifications.

Find out more about our roofing, waterproofing and insulation products now by talking to an IKO sales representative or your professional contractor, or by contacting us directly at **Canada 1-855-IKO-ROOF (1-855-456-7663), United States 1-888-IKO-ROOF (1-888-456-7663)**, or visit our website at [IKO.COM/COMM](http://IKO.COM/COMM).

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. Nothing contained herein constitutes or represents a warranty or guarantee for which the manufacturer can be held legally responsible. The information in this literature is subject to change without notice. We assume no responsibility for errors that may appear in this literature.