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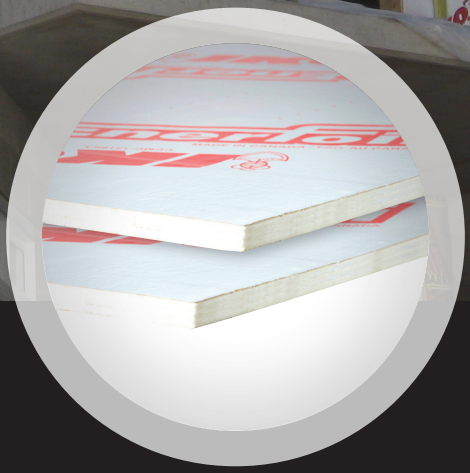
Insulation Installation Guide

IKO Enerfoil® Wall Insulation

INSTALLATION GUIDELINES



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Easy to install building envelope products

Enerfoil may be used in the following applications, considering construction practices follow all local/provincial building code requirements for barrier systems and insulation.

Required Equipment

Enerfoil Wall Insulation is an easy to install building envelope product. A manufacturer-trained and certified installer is not required. Required equipment includes the following:

- Tape measure
- Straight edge or carpenter's square
- Sharp knife
- Hammer
- Spiral or ringed nails (nails must be 3/4" longer than the thickness of the insulation, have a minimum of 1/8" diameter and a head no smaller than 7/16").

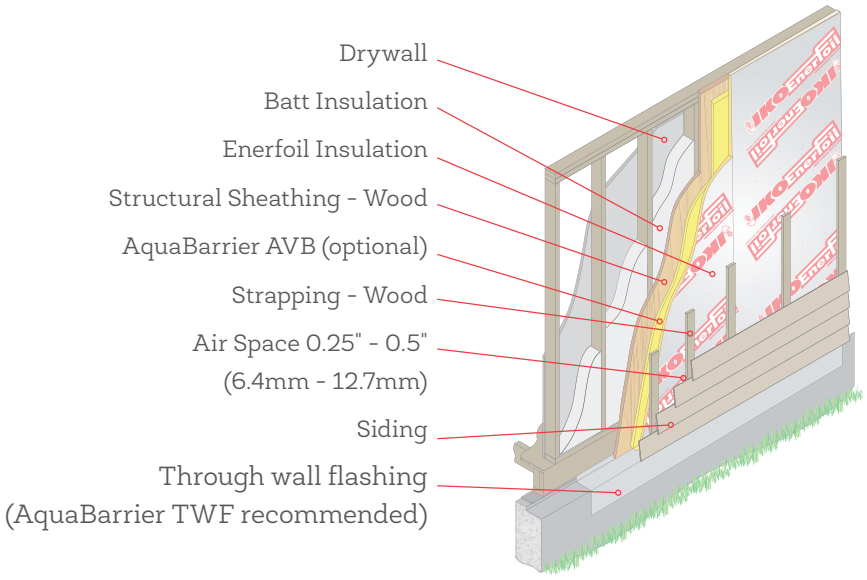
  Note: *1" diameter washer head nails are preferred.*
- 2" wide (minimum) exterior grade joint tape. (i.e. IKO AquaBarrier AVB Tapes are recommended.)
- Screws: minimum size #8, suitable for wood or steel, intended for exterior use, and of sufficient length to engage the structure by a minimum of 3/4". All screws should be used in conjunction with a plastic or metal washer/plate with a minimum diameter of 1".

Good work practices dictate the use of gloves and safety glasses but no additional personal protective equipment is required.

Applications with Enerfoil

Cladding With Strapping Attachment

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. Fasten Enerfoil to wood studs with washered nails. Ensure that fastener penetrates a minimum of 19 mm (3/4") into the framing. Fasten Enerfoil to steel studs using mechanical fasteners and washers.



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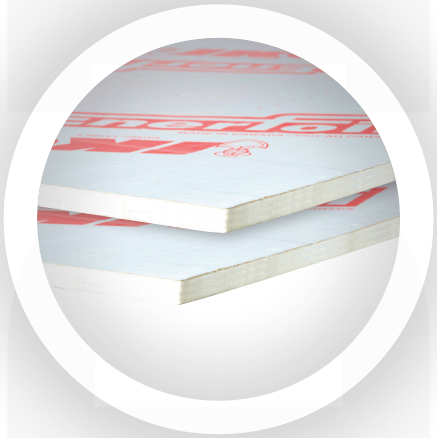


General Application Guidelines

As in any construction installation, the area must be clear of debris and the mounting surfaces should be clean, smooth, and dry.

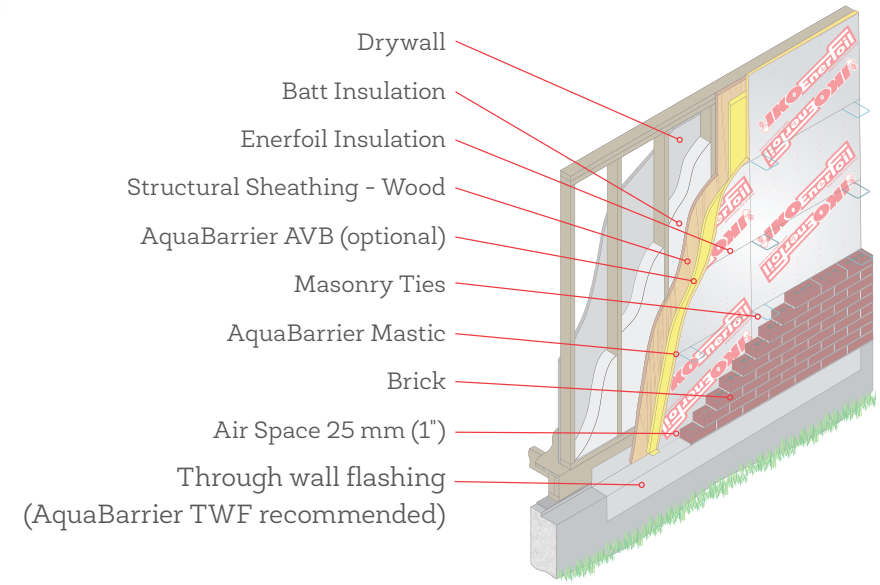
Ensure that any holes or gaps are covered and the vapor barrier installation (if required) is complete.

- Install TWF (Through wall flashing) at the base of the wall system as a waterproofing air barrier membrane to drain water from the exterior wall cavity and protect the concrete substrate.
- Affix Enerfoil in 4' x 8' sheets directly to a nailable substrate or studding.
- Align Enerfoil either horizontally or vertically to suit the installer. Either way is acceptable.
- Fasten each 4' x 8' board with a minimum of 12 fasteners evenly spaced and securely driven into the framing studs.
- Do not over drive the fasteners and do not puncture the facing material with the nail head.
- Using a sharp-edged knife, trim all pieces of Enerfoil to fit flush to adjacent surfaces. Gaps greater than 1/4" should be filled with similar insulating materials.
- Once boards are firmly attached, use exterior grade sealing tape to cover all joints and exposed fasteners where the sheathing is intended to function as an air barrier.
- Cover Enerfoil with a finished cladding system as soon as possible to minimize damage from long term exposure.

Rigid polyisocyanurate foam insulation with high thermal properties

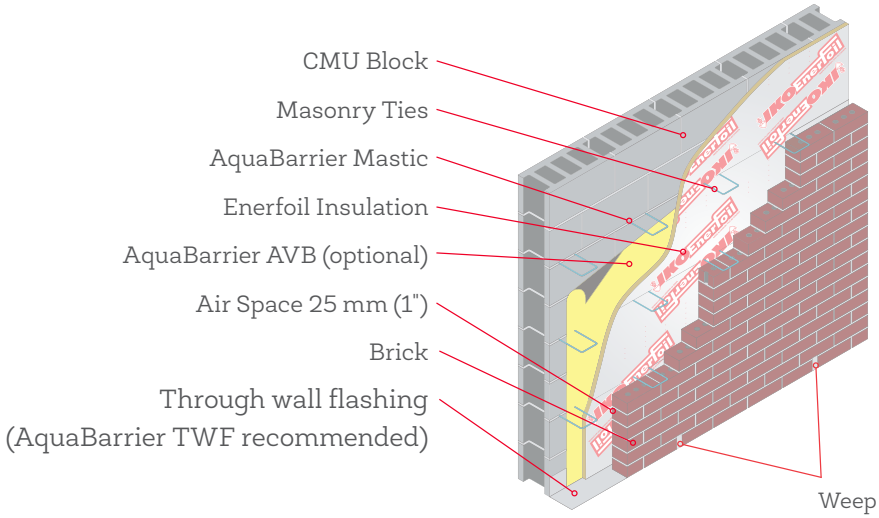
Cladding with Masonry Ties

Fasten Enerfoil to wood studs with washered nails. Ensure that the fastener penetrates a minimum of 19 mm (3/4") into the framing. Fasten Enerfoil to steel studs with washered mechanical fasteners.



Block Wall Construction

Attach Enerfoil against block wall with air/vapour barrier. Cut boards to friction fit between building code-approved masonry ties.



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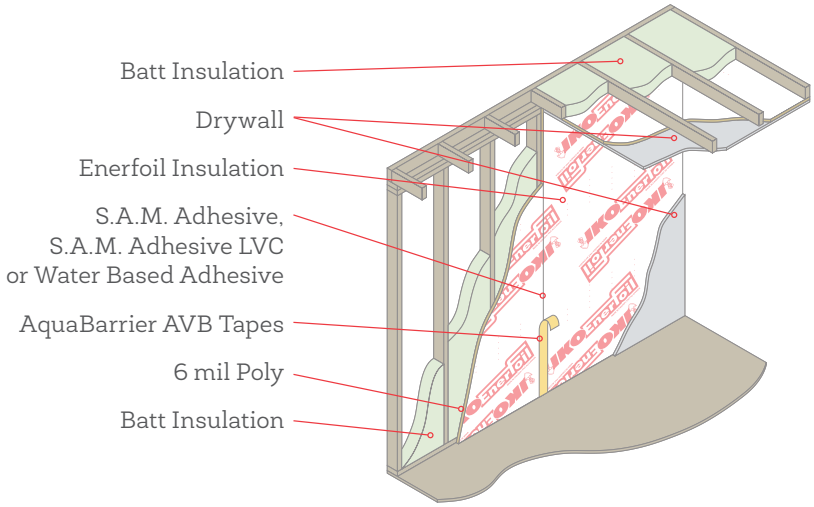
Applications with Enerfoil (continued)

Interior Ceiling & Wall Applications

When used in interior above grade ceiling and wall applications, Enerfoil must be protected from the building interior by a minimum 12 mm (1/2") gypsum board. The use of an interior vapour retarder may not be required if the seams are taped. Consult your local building code. For walls, install Enerfoil with edges in direct contact with the framing members.



NOTES:

**Drawings are for illustration purposes only. Consult your design professional.*

**Enerfoil must not be in contact with hot surfaces. (e.g. chimneys, furnace and water heater flues, lighting fixtures, etc.) There must be a suitable clearance in accordance with local building codes.*

**There is no "wait time" after installation. The building may be occupied immediately.*

**As with any polyiso insulation, Enerfoil may require a code-compliant thermal barrier to ensure that it is not exposed directly to an interior space.*

Enerfoil can be part of an effective energy conservation strategy. However, its use and application must always be in accordance with all applicable building codes. Check with local authorities within the jurisdiction where there is a question of suitability for a building's construction/design.

If you have any questions or require further information on our insulation products please contact 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**.