POWERWOOL™

MINERAL WOOL INSULATION

Installation Guidelines

for Rigiboard™ 80, Rigiboard™ One, Rigiboard™ Pro, and Rigiboard™ Pro Max

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Supercedes all other versions

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PowerWool™ RIGIBOARD™: Installation Guidelines

General Product Description

PowerWool™ Rigiboard™ is a non-structural rigid mineral wool insulation sheathing board designed to be installed as a continuous exterior insulation to help increase the effective thermal value of the wall and eliminate thermal bridging. The 2'x4' panels are recommended for application on above grade walls and foundation walls. It is intended for exterior use only.

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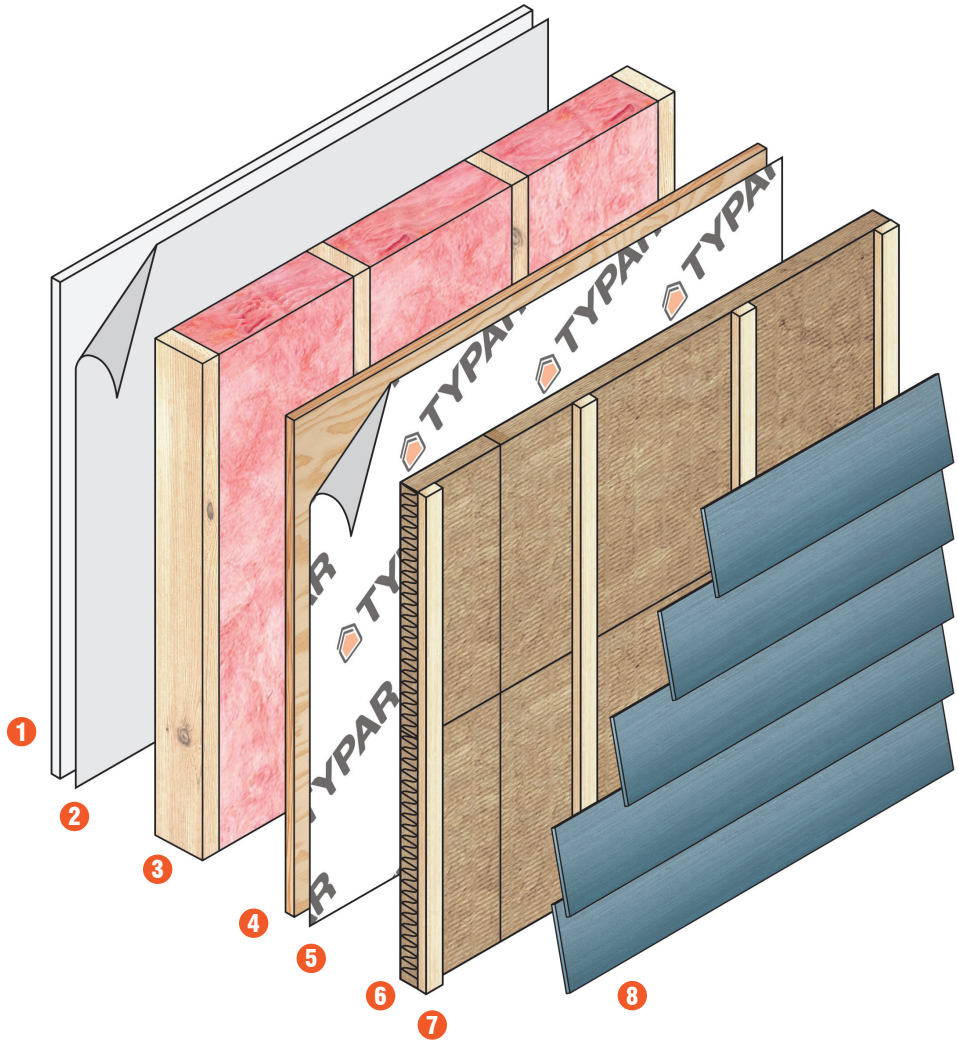
Basic Wall Assembly Diagram



Interior to exterior

1. Gypsum wallboard
2. Polyethylene (may be optional)
3. 2x4 or 2x6 stud wall with insulation
4. Sheathing (plywood or OSB)
5. Sheathing membrane (eg Typar®)
6. PowerWool™ Rigiboard™
7. Strapping
8. Cladding

Using Cladding Type:

Fibre Cement Siding
Wood & Composite Siding
Fibre Cement & Wood Shingles
Vinyl Cladding

Use Guidelines

Job Safety

Refer to The Occupational Health and Safety (OHS) Regulation or the Construction Safety Association (Canada) for safety precautions on a jobsite. Personal Protective Equipment is required at all times while installing the membrane.

There are some health risks associated with the use of PowerWool™ Rigiboard™ and its recommended components. Refer to the Material Safety Data Sheet for more information.

Recommended Tools

- Hammer, automated nailing gun, drill
- Proprietary insulation fasteners
- Utility knife for cutting the insulation
- Caulking gun
- Chalk line

Recommended Fasteners for the RigiBoard Panels

There are various fastener types available for the fastening of PowerWool™ Rigiboard™. The fastener selections need to account for the substrate and cladding used, the various loads it is subjected to, the exposure, and the location of the building.

Fastener length must be sufficient to accommodate the insulation thickness, and proper penetration into the framing. The recommended minimum fastener embedment for the fastener into the framing is 1.5" (38mm).

Recommended Insulation Fastener Types:

- Wood screws
- Concrete screws and nails
- Metal fasteners
- Insulation cap nails
- Proprietary clips
- Z-girts
- Mechanically fastened pins
- Washer and appropriate fasteners - When using a washer with its appropriate fastener to mechanically fasten the insulation panel, a minimum washer size of 1" (25mm) in diameter is recommended.

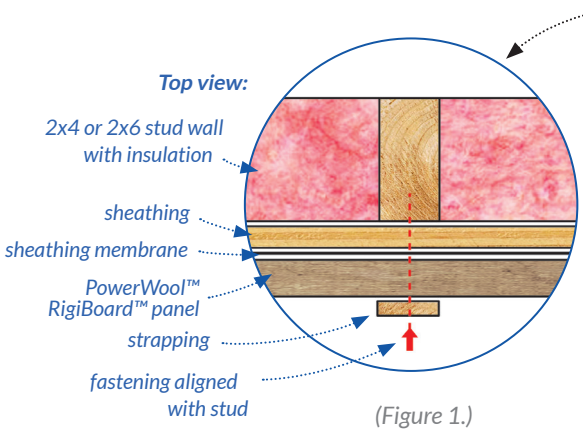
Refer to the siding manufacturer, relevant industry association, and applicable building code in your area for the recommended fastener and fastening requirements of the cladding.

Fastener selection and attachment should typically be reviewed by a design professional and should succeed any guideline recommendations. Powerhouse Building Solutions Inc. will not bear any responsibility for any fastening failures with PowerWool™ Rigiboard™. It is the end user responsibility to determine the proper fastening design for its associated load.

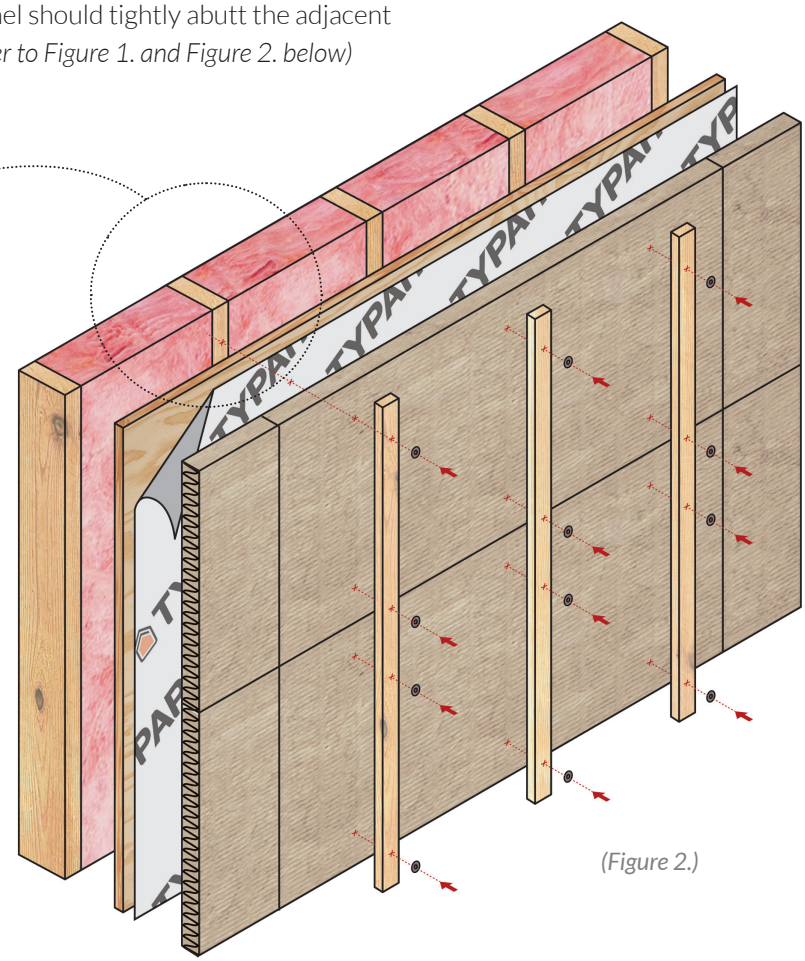
Installing RigiBoard One

Attaching the Insulation Panels to Sheathing

PowerWool™ Rigiboard™ should be mechanically fastened outboard of the sheathing and weather resistive barrier/housewrap. Each panel should tightly abutt the adjacent board to provide continuity in the system. *(Refer to Figure 1. and Figure 2. below)*

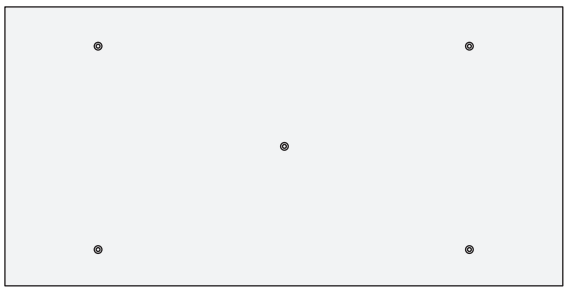


(Figure 1.)



(Figure 2.)

Minimum fastener configuration for one* PowerWool™ RigiBoard™ *panel:



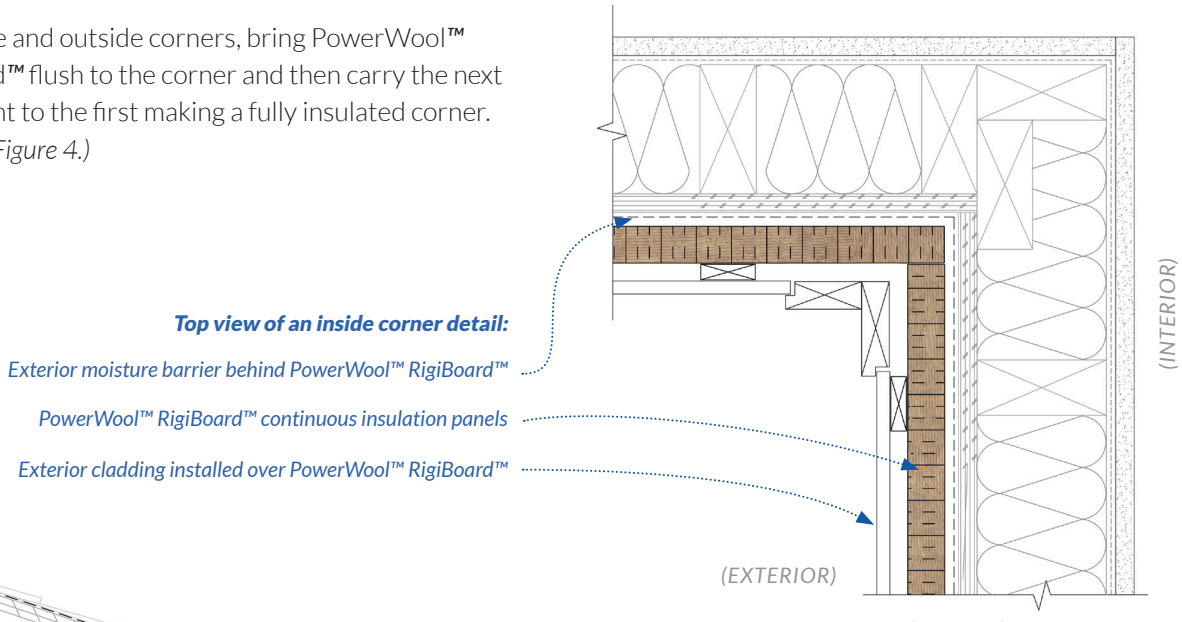
(Figure 3.)

It is recommended to have a minimum of five fasteners per board, allowing for a 3" (76mm) space between the fastener and the edge of the panel. It is up to the design professionals to design the adequate number of fasteners to meet the conditions of the building. The number of fasteners can vary depending on the fastener systems chosen, and the fastener manufacturer recommendations. *(Refer to Figure 3.)*

Attaching the Insulation, continued...

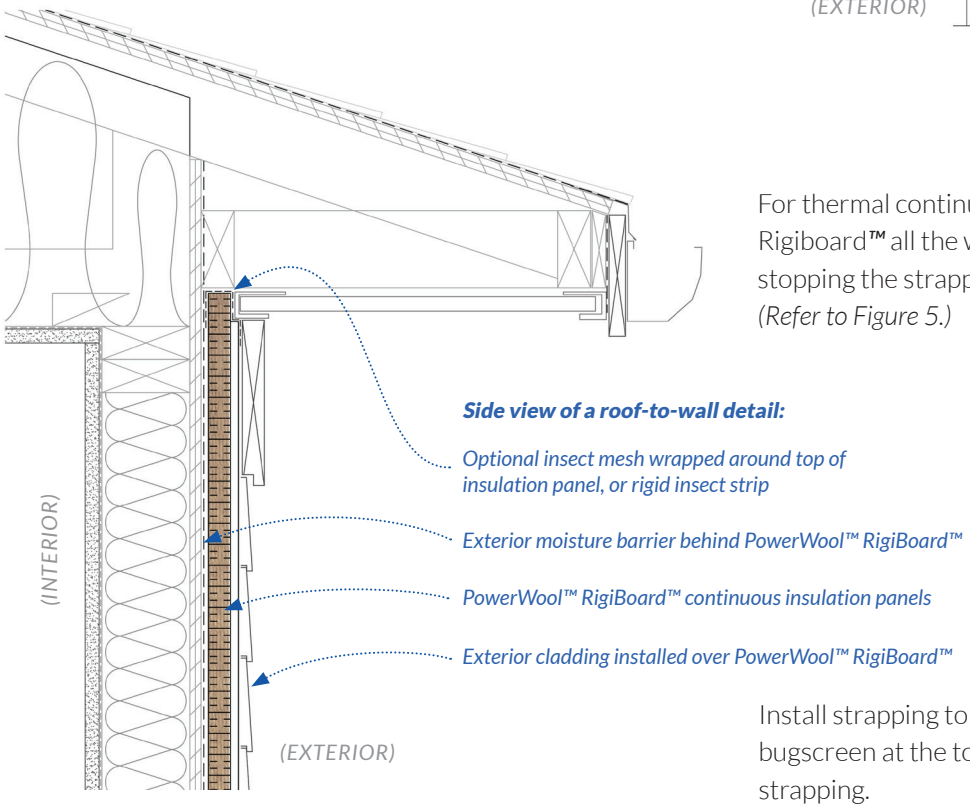
For penetrations, caulk around the penetration with a sealant first. Cut the panel to allow for it to fit around the penetration, or to any interruptions along the insulation plane as tight as possible.

For inside and outside corners, bring PowerWool™ Rigiboard™ flush to the corner and then carry the next panel tight to the first making a fully insulated corner. *(Refer to Figure 4.)*



(Figure 4.)

For thermal continuity, carry PowerWool™ Rigiboard™ all the way to the top plates, stopping the strapping at the soffit line. *(Refer to Figure 5.)*



(Figure 5.)

Install strapping to secure insulation, with bugscreen at the top and bottom of the strapping.

Strapping Attachment

Strapping is used to provide a capillary break for drainage and ventilation within the wall system, and to hold the insulation in place and withstand loads.

When strapping is used, temporary fastening of the PowerWool™ Rigiboard™ panel to the sheathing may be used. Temporary fastening should be sufficient to keep the insulation panel from blowing off the wall during unexpected winds. Install strapping immediately after temporarily fastening the Rigiboard panels.

Strapping fastener type, size and spacing design is determined by the furring material (wood or metal), framing member spacing, substrate, insulation thickness, building loads and exposure. Use an appropriate fastening pattern to withstand fastener pull-out and building loads.

PRO TIP

For wood furring strips, predrill and countersink the furring strip at each fastener location before installation. This helps the screw head seat flush without overdriving the fastener or pulling the furring strip into the insulation, making it easier to maintain a plumb, flat and consistent surface for cladding installation. When using No. 12 screws, a combined No. 12 predrill and countersink bit with an impact driver may simplify installation.

Window Preparation and Install

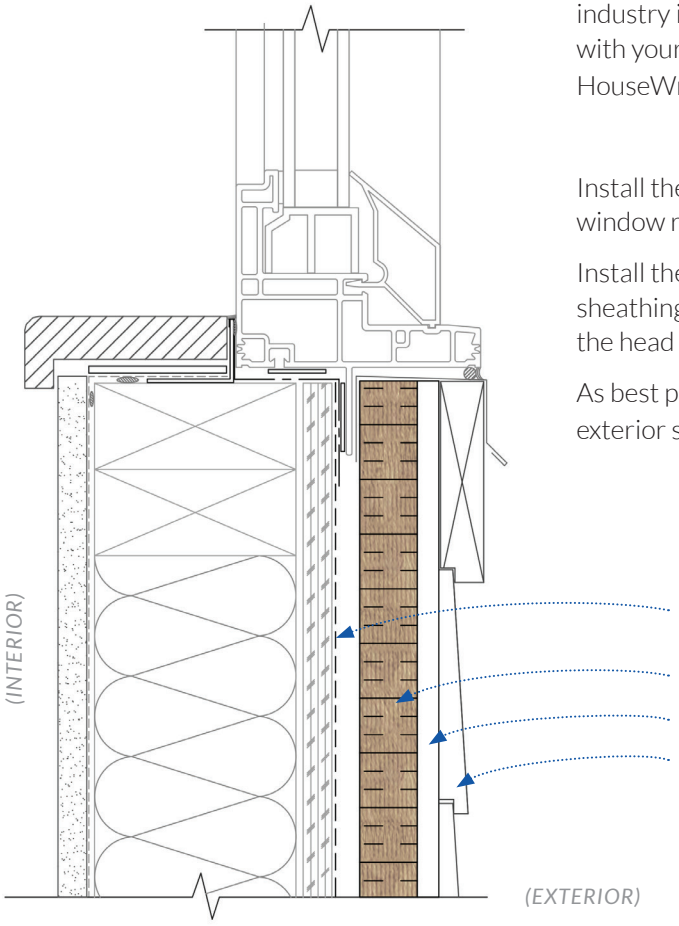
The air and/or water resistive barrier (WRB/housewrap) should be located at the sheathing interface behind the PowerWool™ Rigiboard™ panel, and there should be continuity of these critical barriers to the window assembly.

Install the window sub-sill membrane in conformance to standard industry installation practices, making sure that it is integrated with your weather resistive barrier under the sill (ie: Typar HouseWrap). *(Refer to Figure 6.)*

Install the weather resistive barrier at the jambs and head of the window rough opening, allowing for positive shingling.

Install the metal head flashing and seal the leading edges with sheathing tape. Always ensure that the weather resistive barrier at the head positively shingles over the metal head flashing.

As best practice, the sill flashing should direct any water to the exterior surface of PowerWool™ Rigiboard™.



(Figure 6.)

Window Preparation and Install, contunued...

Install and structurally attach the window as per the manufacturer's specifications. The PowerWool™ Rigiboard™ insulation panel is installed tight to the window assembly.

Note: Refer to the window manufacturer's installation guidelines, construction details and shop drawings if applicable.

Always ensure that there's continuity of the critical barrier system (WRB, air barrier, vapour barrier, thermal barrier, and water shedding surface) using mock-ups for typical conditions.

Conditions of Use

PowerWool™ Rigiboard™ should be covered with cladding as soon as possible to protect the panel from prolonged exposure to the site, weather, and UV rays.

PowerWool™ Rigiboard™ is for EXTERIOR USE ONLY. Not for interior walls.