Insulation

The following instructions are provided for the installation of Foam-Control® R-SHIELD® insulation. The instructions herein provide general guidance only and do not cover all aspects related to the installation or use of insulation in a building.

Before starting, ensure that the installation complies with the applicable building code requirements. The building code may have requirements for thickness and R-value of the insulation, vapor retarders, interior thermal barriers and finish materials, exterior weather resistive barriers and claddings, ventilation, insulation in adjacent areas, caulking and sealing, and other items.

Note: R-SHIELD conditions, code requirements, and building science dictate the use and position of vapor retarders within wall assemblies. Consult with local code officials and building science professionals concerning the use of vapor retarders.

<table>
<thead>
<tr>
<th>Tools Needed</th>
<th>Protective Gear</th>
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<tbody>
<tr>
<td>• Tape Measure</td>
<td>• Work Gloves</td>
</tr>
<tr>
<td>• Utility Knife</td>
<td>• Loose-fitting, long-sleeved shirt</td>
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<tr>
<td>• Straightedge</td>
<td>• OSHA-approved safety glasses</td>
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<tr>
<td>• Cordless Drill</td>
<td>• Disposable dust respirator (NIOSH or MSHA approved)</td>
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<tr>
<td>• Saw</td>
<td>• No requirement for re-entry or re-occupancy times</td>
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<tr>
<td>• Hammer</td>
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<tr>
<td>• Nail Gun</td>
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<td>• Caulk Gun</td>
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</table>

As the installer, you are solely responsible for the proper installation of all materials, following product label instructions and for using proper safety precautions during installation to avoid injury. The Foam-Control manufacturer is not responsible for building design and accepts no responsibility for the performance of its products resulting from improper building design, construction faults, or defective installation workmanship.
APPLICATION OF FOAM-CONTROL R-SHIELD TO A CONCRETE WALL:

1. Remove any obstacles or debris from the wall and area of work that may interfere with the attachment of the boards.
2. Cut the boards to match the wall height.
   Note: Cut the boards as needed to fit tightly around pipes, ducts, vents, openings or similar objects.
3. Install termination fixtures as required.
4. Using foamboard compatible adhesive, apply the adhesive to the wall, or directly to the board, in vertical beads approximately 12” apart.
5. Press/hold the board firmly to the wall.
6. Apply Foam-Control R-SHIELD Tape over board joints and corners.
7. Position wood battens at 16” or 24” on center spacing (vertically or horizontally) over the boards and attach using concrete fasteners through the battens and insulation into the concrete wall. Fastener spacing must be no greater than 24” along the length of all wood battens.
   Note: Please refer to NTA Engineering Evaluation Report AFM032712-20 for fastener spacing.
   Note: Foam-Control Concrete Fasteners for concrete masonry units or solid concrete walls are available from your Foam-Control Supplier.
   Note: Wood battens must be pressure treated when used below grade or when in direct contact with concrete.
8. Interior Application:
   a. Install a code compliant thermal barrier, such as 1/2” gypsum board, to the battens per the requirements of the applicable building code.
Exterior Application (above grade):
   a. Flash openings and penetrations in compliance with the applicable building code.
   b. Install a weather resistive exterior cladding in compliance with the applicable building code.
Exterior Application (below grade):
   Waterproof or dampproof walls with foamboard compatible products in compliance with the applicable building code prior to installation of Foam-Control R-SHIELD boards.
APPLICATION OF FOAM-CONTROL R-SHIELD
TO A WOOD FRAMED WALL:

1. Remove any obstacles or debris from the wall and area of work that may interfere with the attachment of the boards.
   Note: The wall to receive the board must be braced or sheathed in compliance with the applicable building code.

2. Cut the boards to match the wall height.
   Note: Cut the boards as needed to fit tightly around pipes, ducts, vents, openings or similar objects.

3. Install termination fixtures as required.

4. Press/hold the board firmly to the wall.
   Note: All edges of the Foam-Control R-SHIELD must be supported by the wood studs.

5. Attach using corrosion-resistant 1” wide crown staples through insulation and into the wood studs with a minimum 1” penetration. Fastener spacing must be no greater than 6” on center.

6. Apply Foam-Control R-SHIELD Tape over fastener heads, board joints, and corners.

7. **Interior Application:**
   a. Install a code compliant thermal barrier, such as 1/2” gypsum board, per the requirements of the applicable building code.

**Exterior Application (above grade):**
   a. Flash openings and penetrations in compliance with the applicable building code.
   b. Install a weather resistive exterior cladding in compliance with the applicable building code.
APPLICATION OF FOAM-CONTROL R-SHIELD TO INTERIOR OF A CONCRETE CRAWL SPACE WALL:

1. Remove any obstacles or debris from the wall and area of work that may interfere with the attachment of the boards.
2. Cut the boards to match the wall height.
   Note: Cut the boards as needed to fit tightly around pipes, ducts, vents, openings or similar objects.
3. Using foamboard compatible adhesive, apply the adhesive to the wall, or directly to the board, in vertical beads approximately 12” apart.
4. Press/hold the board firmly to the wall.
5. Attach using concrete fasteners through the insulation into the concrete wall at the 4 corners and center of each board.
   Note: Foam-Control Concrete Fasteners for concrete masonry units or solid concrete walls are available from your Foam-Control Supplier.
6. Apply Foam-Control R-SHIELD Tape over fastener heads, board joints, corners, seal openings and penetrations.
7. Install ignition barrier or thermal barrier (gypsum board), as required, in compliance with the applicable building code.

Notice: Foam-Control EPS insulation contains a flame retardant; however, it should be considered combustible and should not be exposed to sources of ignition. The product will ignite when exposed to open flame or welding torches.