

DuPont™ Styrofoam™ Brand SM Insulation for Exterior Foundation Walls & Heated Crawlspaces

Installation Procedures

Materials Checklist

To install DuPont™ Styrofoam™ Brand SM Insulation, you'll need:

- Safety Goggles
- Measuring Tape
- Carpenter's Folding Ruler
- Level
- Utility Knife
- Chalk Line
- Hammer or Power Nailer
- Portable Power Saw
- Hand Saw
- Nails (foam, siding, jam)
- Carpenter's Metal Square
- Wood Furring Strips
- Styrofoam™ Brand SM Insulation

Installation

Crawlspace Insulation

1. Remove anything that will get in the way of installation. Cut the **Styrofoam™ Brand SM** extruded polystyrene insulation panels to the length needed to cover from the top of the footing to the top of the foundation wall.
2. Apply a bead of foam compatible adhesive in a rectangular pattern on the back of the **Styrofoam™ Brand SM** insulation board and press the insulation to the wall. The adhesive will hold the insulation in place while you next install furring strips.
3. Attach 1"x 3" or 2"x 3" wood furring strips vertically or horizontally over the foam insulation at 16" or 24" on center. Use Tapcon® or other fasteners for concrete. Fasteners should penetrate at least 1.5" into the concrete. Fasteners should be spaced no more than 24".
4. A thermal barrier consisting of 1/2" gypsum drywall must be installed over the insulation. Use the wood furring strips as a fastening base for the 1/2" gypsum drywall.

5. A ground cover must be installed to reduce moisture levels in the crawl-space. The ground cover should consist of a minimum 0.006 inch polyethylene sheeting. The edges of the ground cover must be sealed to the crawlspace wall. The joints in the ground cover must be lapped a minimum of 12" and sealed and weighted down. An alternative to sealing and weighting down is the installation of a 2" concrete skim coat over the ground cover.
6. Crawl spaces may require ventilation. Consult your local building code for specific requirements.
7. Insulate the inside of the band joist with either fiberglass batts with vapor retarder facing to the inside of the crawlspace or with pieces of foam cut to fit tightly, covered with gypsum drywall adhered to the foam pieces.

Foundation Wall Insulation

The best time to insulate on the exterior of basement walls is before backfilling around the basement. If the backfill is already in place, it is still possible to insulate the above grade portion of the basement wall, but you may want to consider one of the interior insulation options

1. Install **Styrofoam™ Brand SM** over dampproofing or waterproofing on exterior of basement wall. Do not embed **Styrofoam™ Brand SM** in freshly applied dampproofing or waterproofing coatings as some may contain solvents which may degrade **Styrofoam™ Brand SM**.
2. For new construction, rest bottom edge of foam insulation on top of footer and extend up to sill plate. For retrofit, install foam insulation from one foot below grade up to sill plate.
3. It is best to mechanically fasten the foam insulation to the wall prior to back-filling. If possible the top edge of the foam insulation may be fastened to the sill plate with nails with 1" diameter washers.
4. If fastening to the basement wall use concrete fasteners with 1" diameter corrosion-resistant washers penetrating through the foam and 1.5" into the concrete. Use two fasteners per board, one fastener in each upper corner of the board a few inches below sill plate and a few inches from the edge of the board.
5. Protect foam insulation that is exposed above grade and six inches below grade.



**For more information visit us at
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or call 1-866-583-2583**

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CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583 or contact your local building inspector. In an emergency, call 1-989-636-4400 in the U.S. or 1-519-339-3711 in Canada.

WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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