

Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products on Interior Basement Walls

For Single-Family Residential Buildings

Applicable Products

This installation guide covers single-family installation procedures for the **Styrofoam™ Brand XPS Insulation** products below:

- Styrofoam™ Brand Scoreboard
- Styrofoam™ Brand Square Edge
- Styrofoam™ Brand Tongue & Groove

Applications

- Interior below-grade concrete or masonry walls in single-family residential buildings

Personal Protective Equipment (PPE)

- Gloves (cut resistant advised)
- Safety glasses
- Hearing protection as necessary if/when using power tools and equipment

Site Preparation & Storage

- **Styrofoam™ Brand XPS Insulation** should be stored on a clean, flat surface in an area free from flammable or volatile materials.
- **Styrofoam™ Brand XPS Insulation** must not contact hot objects, such as chimneys, furnace, and water heater flues, or any heat source greater than 165° F.
- Avoid reflective surfaces adjacent to the insulation. Surfaces, like glass or polished metal, adjacent to the insulation can direct extra solar energy onto a horizontally placed insulation board, and excessively increase the surface temperature.
- Ensure a clear work area free of debris and trip hazards.

Notices



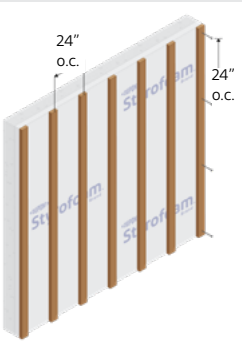


- Review local codes or consult AHJ to ensure appropriate **Styrofoam™ Brand XPS Insulation** products thickness meets IECC Energy Code requirements.
- Reference [ESR-4755](#), local codes, or consult AHJ regarding thermal and/or ignition barrier requirements.

Helpful Hints & Tools

- **Styrofoam™ Brand XPS Insulation** will not prevent bulk water entry, it essential to seal the wall prior to installing the insulation.
- Installation tools may include but not limited to, marker or pencil, straightedge, chalk line, hammer, drill or impact driver, caulk gun and adhesive, tape measure, utility knife, hand-held saw.
- Scaffolding, step stool, or ladder in proper working order.
- **Styrofoam™ Brand XPS Insulation** can be cut to desired size by scoring with a utility knife and breaking over the edge of a sturdy table or workbench.

Installation Procedures:

There are multiple approaches to securing **Styrofoam™ Brand XPS Insulation** to concrete/CMU walls; two common methods are described below. For both methods, begin in a corner and position **Styrofoam™ Brand XPS Insulation** vertically ensuring boards are plumb and board edges are tight.

Step 1	Step 2		Step 3 (Optional)	Step 4
	Method A (Typical) 	Method B 		
<p>Use a Great Stuff Pro™ Construction Adhesive to temporarily attach Styrofoam™ Brand XPS Insulation to the concrete/CMU wall using four ½" beads along the width of the board either using continuous zig-zag or parallel beads.</p>	<p>Frame stud wall against the Styrofoam™ Brand XPS Insulation. Secure stud wall to floor and framing.</p>	<p>Install furring strips over the Styrofoam™ Brand XPS Insulation at 16"-24" o.c. and secure minimum 1-1/4" into the concrete/CMU with concrete nails or a power-actuated driver at 24" o.c. spacing.</p> <p>The furring strips will serve as a nail base for drywall.</p>	<p>Apply Great Stuff Pro™ Gasket around perimeter of wall, framed door and window openings, and penetrations to support air sealing.</p>	<p>Install drywall per manufacturer's recommendations.</p> <p>NOTE: Styrofoam™ Brand XPS Insulation must be separated from the interior of the building by an approved thermal barrier per applicable local code requirements.</p>



**For more information about
DuPont Performance Building Solutions,
please call 1-833-338-7668 or visit us at
building.dupont.com**

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