

Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products for Interior Unvented Crawl Spaces

For Single-Family Residential Buildings

Products for Installation

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 unvented crawl spaces 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

- DuPont™ Styrofoam™ Brand XPS Insulation products 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

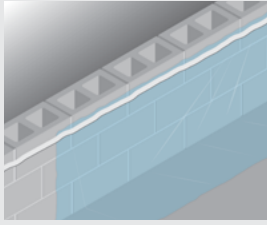
- Check local codes or consult AHJ to ensure appropriate insulation thickness meets IECC Energy Code requirements.
- Reference [ESR-4755](#), local codes, or consult AHJ regarding thermal and/or ignition barrier requirements.
- Protection against termites: check local codes or consult AHJ to ensure compliance in areas where probability of termite infestation is very heavy.
- Styrofoam™ can be installed by individuals without prior training or certification.

Helpful Hints & Tools

- Styrofoam™ Brand XPS Insulation will not prevent bulk water entry, it essential to seal the wall prior to installing the insulation.
- Confirm chemical compatibility of Styrofoam™ Brand XPS Insulation with the concrete dampproofing/sealer.
- Waterproofing and dampproofing materials should not be used for adhering the insulation. The insulation should be installed once the damp-proofing has cured sufficiently, as the solvents in some of these materials may attack polystyrene 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.

Installation Procedures: Interior Unvented Crawl Spaces

Step 1



If needed, attach vapor retarder to the interior stem wall using water-based adhesive mastic. Extend the vapor retarder onto the ground about 1 to 2 feet from the wall.

Step 2



Attach the **Styrofoam™ Brand XPS Insulation** to the interior of the crawl space wall 24" o.c. vertically and 48" o.c. horizontally using power-driven fastener with 1-inch washers or caps.

Insulation should extend from the top of the stem wall to the footer, grade beam, or slab as applicable.

Step 3

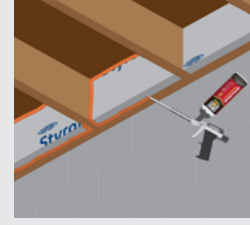
Method A



Use **Froth-Pak™ Foam Insulation** up to 2 inches in thickness.

Refer to: <https://www.dupont.com/content/dam/dupont/amer/us/en/performance-building-solutions/public/documents/en/tech-solutions-2190-froth-pak-in-rim-joists-43-d100741-enus>.

Method B



Use **Styrofoam™ Brand XPS Insulation** up to 2 inches in thickness, cut to fit between the floor joists, and seal the edges of the foam with **Great Stuff Pro™ Gaps & Cracks**.

Step 4



Seal all penetrations through the crawl space wall with **Great Stuff Pro™ Gaps & Cracks**.



**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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