

Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products for Exterior Below Grade Walls

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

- Exterior below-grade basement and foundation 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

- **DuPont™ Styrofoam™ Brand XPS Insulation** extruded polystyrene foam 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

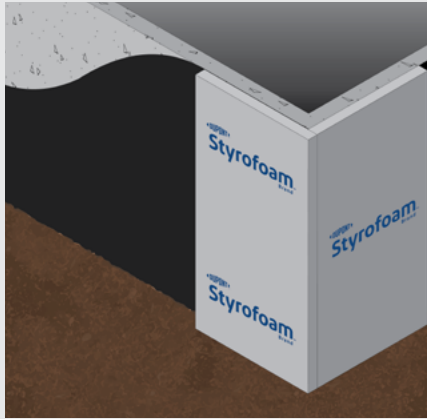
- Check local codes or consult AHJ to ensure appropriate Styrofoam™ thickness meets IECC Energy Code requirements.
- Protection against termites: check local codes or consult AHJ to ensure compliance in areas where probability of termite infestation is very heavy.
- Styrofoam™ can be installed by individuals 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 **DuPont™ 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
- **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: Below Grade Wall

Step 1



Place insulation boards vertically on the wall (horizontally for shallow foundation applications) ensuring boards are plumb and board edges are tight. The insulation should extend from the top of the foundation wall to the top of the footing.

Step 2



Secure top of Styrofoam™ Brand XPS Insulation to wall using 2 power-driven fasteners per board, or using a [compatible adhesive](#). Follow manufactures instructions for adhesive bead size, length, and width. Backfilling against the insulation will hold the lower portion of the boards in place.

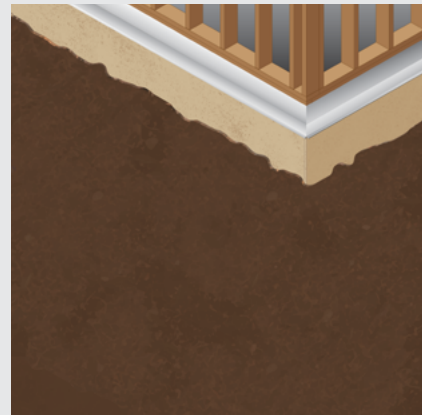
Step 3



Protect any above-grade portion of insulation from physical damage and direct exposure to sunlight with a weather-resistant covering. The protective covering shall cover the exposed exterior insulation and extend not less than 6 inches below grade.

Base of wall flashing is shown for illustrative purposes only. When integrated with the water-resistant barrier, flashing provides a path for draining water that penetrates the exterior cladding to the exterior.

Step 4



Back fill to secure in place and ensure proper grade slope away from structure.

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**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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