

Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products for Slab Edge and Under Slab

For Single-Family Residential Buildings

Products for Installation

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

- Styrofoam™ Brand Scoreboard
- Styrofoam™ Brand Square Edge
- Styrofoam™ Brand Tongue & Groove
- Styrofoam™ Brand High Load 40
- Styrofoam™ Brand High Load 60

Applications

- Slab edge
- Under slab 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 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 and depth below grade meets 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™ Brand XPS Insulation can be installed by individuals without prior training or certification.

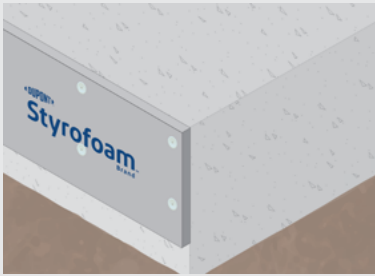
Helpful Hints & Tools

- 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 dampproofing 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: Slab Edge

Method A: Installation after slab is poured

Step 1



Attach insulation starting from the top of the slab down to the depth required by code, using power-driven fasteners at 24" o.c. horizontally at board edges and extending 1" into concrete.

Step 2



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.

Step 3



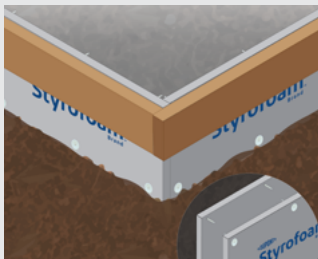
Back fill to secure in place and ensure proper grade slope away from structure.

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.

Method B: Installation before slab is poured

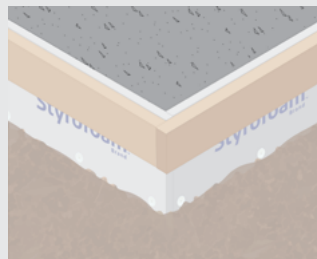
NOTE: If the slab is poured separately from the exterior foundation wall and slab edge insulation is installed between the floor slab and the foundation wall, the top of the foam may be cut at a 45-degree angle away from the exterior wall so that the upper edge is protected by concrete.

Step 1



Place insulation with plastic masonry fasteners every 24" o.c. vertically and horizontally through Styrofoam™ Brand XPS Insulation, and set insulation on the inside of the concrete forms.

Step 2



Pour slab.

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.



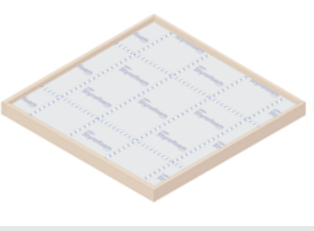
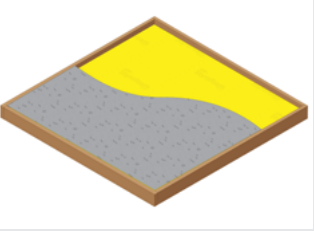
Step 4



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

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.

Installation Procedures: Under Slab

Step 1	Step 2	Step 3 (Optional)	Step 4
			
<p>Prepare the area where slab will be poured, per design.</p>	<p>Lay the Styrofoam™ Brand XPS Insulation down with board joints are tightly butted together.</p> <p>If an additional of insulation is needed, layer the boards with staggered joints.</p>	<p>Tape the seams using Styrofoam™ Brand Tape.</p>	<p>If required by code, install vapor retarder and pour slab.</p>



**For more information about
DuPont Performance Building Solutions
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building.dupont.com**

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