

Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products as a Water-Resistive Barrier

For Single-Family Residential Buildings

Products for Installation

This installation guide covers single-family installation procedures for **Styrofoam™ Brand XPS Insulation Products**, including:

- · Styrofoam™ Brand Residential Sheathing
- · Styrofoam™ Brand Scoreboard
- Styrofoam™ Brand Square Edge
- · Styrofoam™ Brand Tongue & Groove

Applications

· Above-grade wood stud single-family walls.

Personal Protective Equipment (PPE)

- Gloves
- Safety glasses

Site Preparation & Storage

- Styrofoam™ Brand XPS Insulation Productss should be stored on a clean, flat surface in an area free from flammable or volatile materials.
- 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 clear walk area.

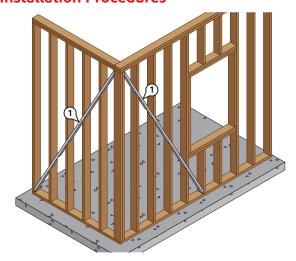
Notices

- Styrofoam[™] Brand XPS Insulation Products must not contact hot objects, such as chimneys, furnace and water heater flues, lighting fixtures, etc.
- Consult local code authority having jurisdiction (AHJ) regarding appropriate thermal and ignition barriers.

Helpful Hints

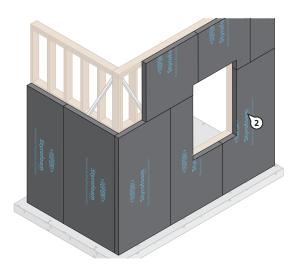
- Use a utility knife and straight edge to trim the insulation board to conform to irregular wall angles, projections or wall surfaces less than board width or height.
- Shakes or shingles can also be applied by installing furringstrips or a plywood nailer base over the insulation and attaching the shakes or shingles in accordance with the manufacturer's instructions.
- Secure 4' x 8' boards 12" o.c. around the perimeter and 16" o.c. in the field or as required by the code AHJ.
- Secure 2' x 8' boards using 3 fasteners per stud (12" o.c.) or as required by the code AHJ.
- In locations where cap fasteners will be covered with tape or flashing (e.g., along a seam between panels), ensure that the cap fastener is fully covered.
- DuPont Self-Adhered Flashing Products should be installed when air and surface temperatures are above 40°F.

Installation Procedures



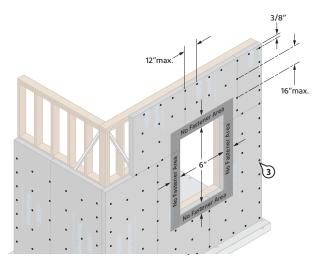
 Install a code-acceptable wall bracing (e.g. diagonal metal strapping, let-in wood or wood structural sheathing), see <u>ESR - 4755</u> for more information. If wood sheathing is used, it should be covered by **Styrofoam™ Brand XPS Insulation Products** to provide full wall insulation.

NOTE: Styrofoam[™] Brand XPS Insulation Products are not structural panels.



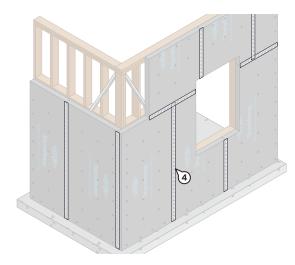
2. Install Styrofoam™ Brand XPS Insulation Products with long edges in contact with one another and all panel edges bearing directly on framing members or blocking. NOTE: Styrofoam™ Brand XPS Insulation Products may be installed horizontally or vertically. 2′ x 8′ Styrofoam™ Brand XPS Insulation Products must be installed horizontally.

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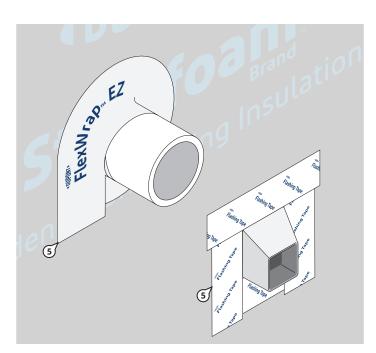


 Secure Styrofoam™ Brand XPS Insulation Products using 1" (25.4mm) head plastic cap nails or equivalent fasteners long enough to penetrate framing a minimum of 3/4". Fasteners should not be over-driven.

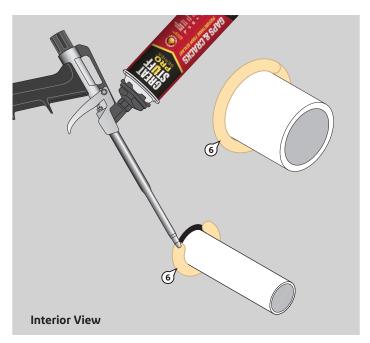
NOTE: See <u>Helpful Hints</u> section for more information on fastening insulation boards.



 Tape all insulation joints (i.e., horizontal and vertical seams) using 3-3/4" (96 mm) wide DuPont™ Styrofoam™ Brand Tape.



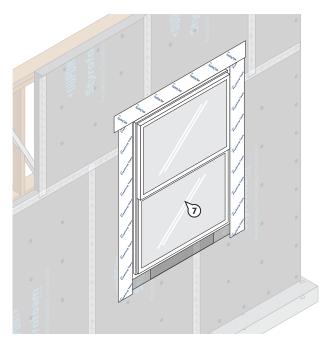
 Tape all exterior penetrations (e.g., pipes and dryer vents) using DuPont™ FlexWrap™, FlexWrap™ EZ, or other applicable DuPont Self-Adhered Flashing Products*.



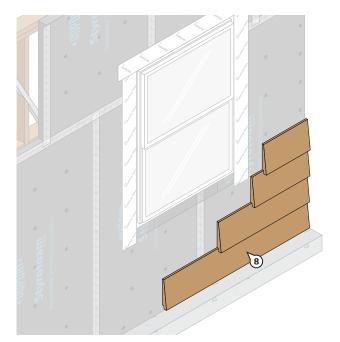
6. OPTIONAL: FOR INTERIOR AIR SEALING - The penetration rough opening can be sealed from the interior side using Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant, or recommended foam.

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7. Install window per manufacturer's installation instructions. **NOTE**: Fasteners for window installation must be long enough to penetrate at least 1-1/4" (31.8 mm) into the framing.



8. Install exterior cladding per manufacturer's instructions, fastening through the insulation and into the studs. Refer to 2021 IRC Section R703.3 for appropriate cladding connection methods through Foam Plastic Insulating Sheathing (FPIS).

NOTE: When using **DuPont Self-Adhered Flashing Products** to flash an integral flanged window, refer to the <u>Integrating DuPont Building Envelope Solutions Products with DuPont Exterior Continuous Insulation</u> or other applicable DuPont Installation Guideline for detailed instructions.

*DuPont Self-Adhered Flashing Products and DuPont™ Weathermate™ Straight Flashing should be installed when air and surface temperatures are above 40°F.



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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