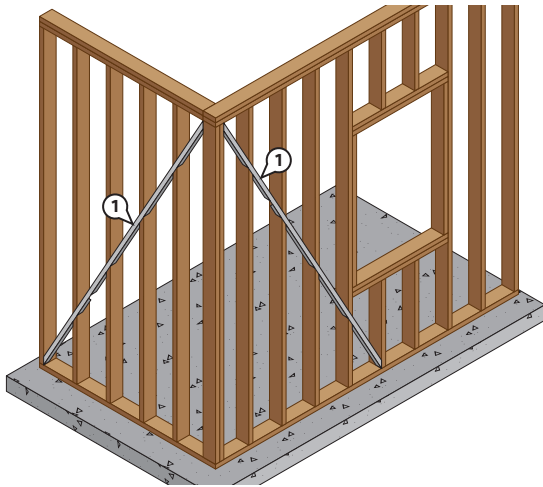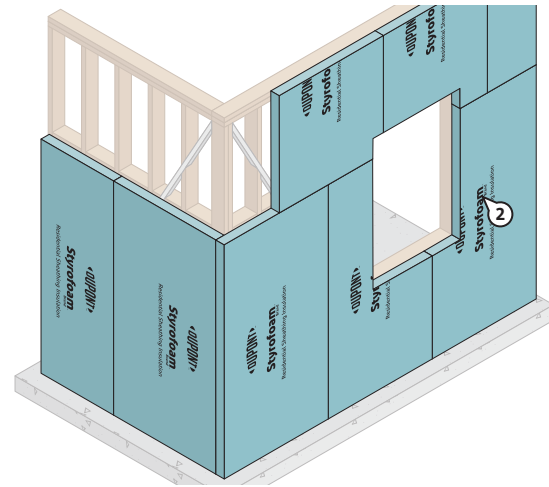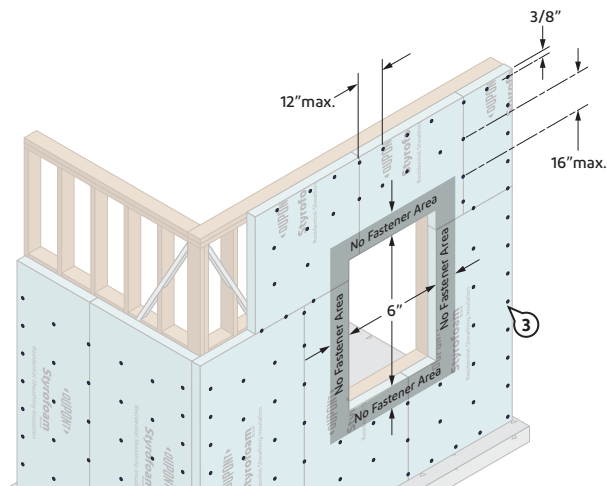# Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products as a Weather-Resistive Barrier
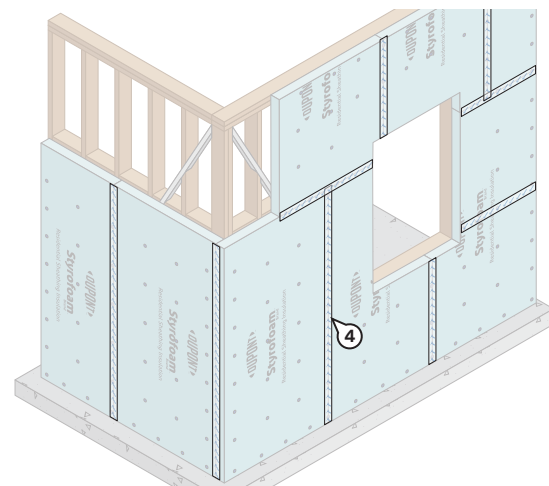

1. Install a code-acceptable wall bracing (e.g. diagonal metal strapping, let-in wood or wood structural sheathing), see ICC ESR 2142 for more information. If wood sheathing is used, it should be covered by **Styrofoam™ Brand XPS Insulation Products** to provide full wall insulation. **NOTE: Styrofoam™ 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**: 4'x 8', 4'x 9' and 4'x 10' **Styrofoam™ Brand XPS Insulation Products** may be installed horizontally or vertically. 2' x 8' **Styrofoam™ Brand XPS Insulation Products** must be installed horizontally.
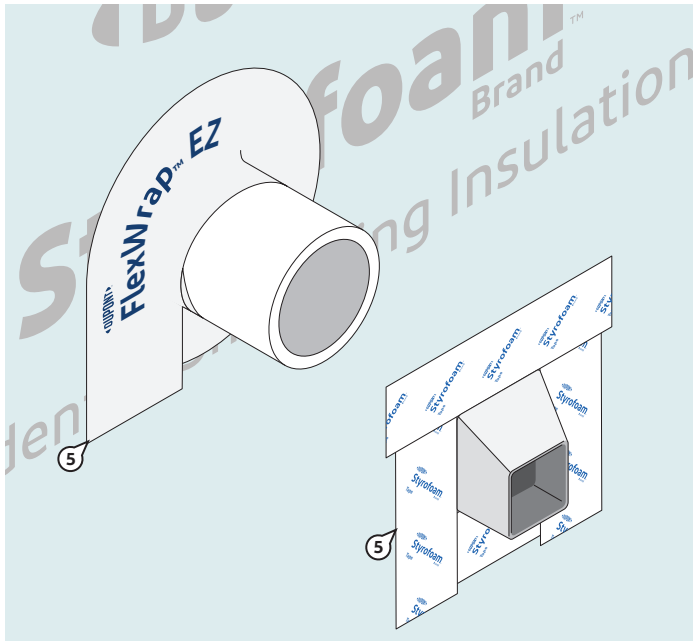

3. Secure **Styrofoam™ Brand XPS Insulation Products** using 3/8" head (9.5mm) galvanized nails, 1" crown (25.4mm) galvanized staples, 1" (25.4mm) head plastic cap nails or equivalent fasteners long enough to penetrate framing a minimum of 3/4". Fasteners should not be over-driven.

   NOTE: See _Helpful Hints_ section for more information on fastening insulation boards.
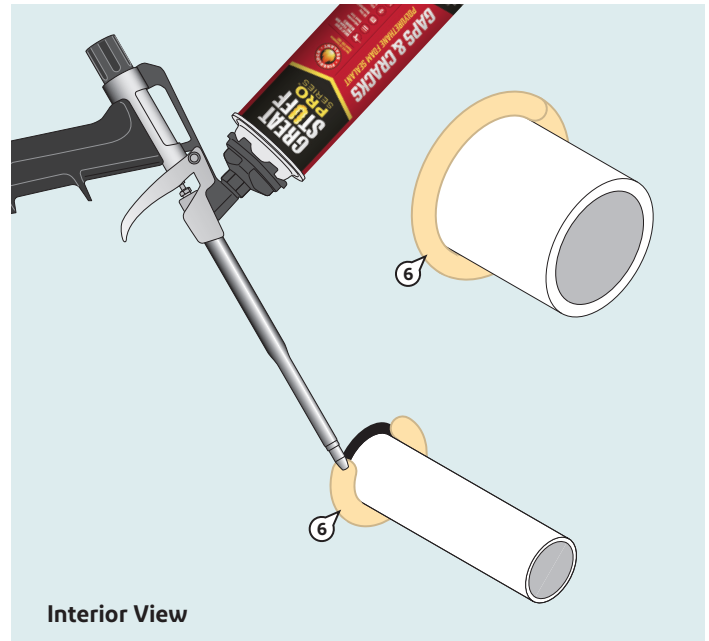

4. Tape all insulation joints (i.e., horizontal and vertical seams) using 2–7/8" (73 mm) wide **DuPont™ Styrofoam™ Brand Tape**.
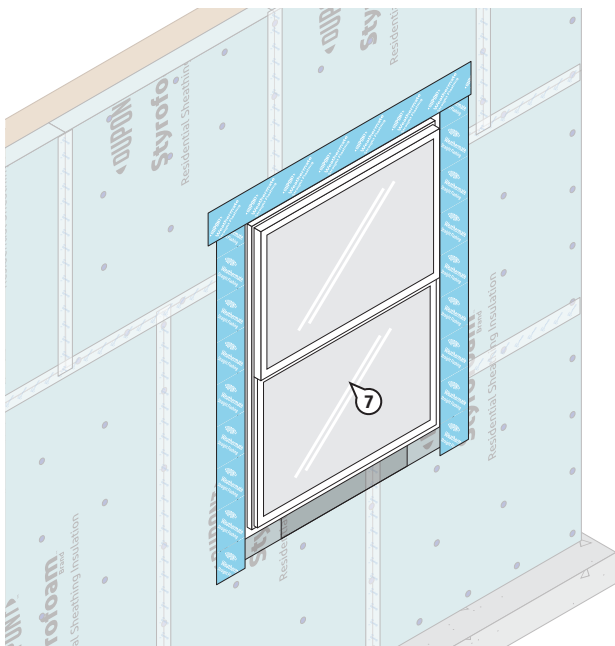
Installation of DuPont™ Styrofoam™ Brand XPS Insulation Products as a Weather-Resistive Barrier
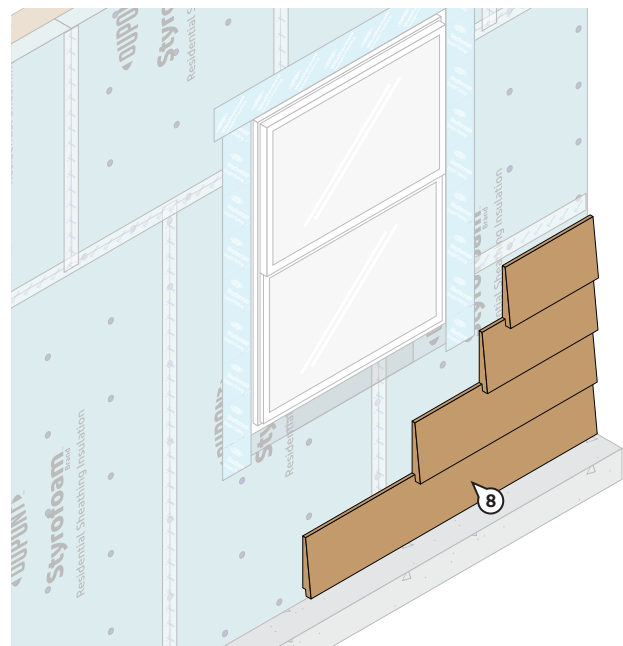

5. Tape all exterior penetrations (e.g., pipes and dryer vents) using 2–7/8" (73 mm) wide **DuPont™ Styrofoam™ Brand Tape**, **DuPont™ Weathermate™ Straight Flashing**, **DuPont™ FlexWrap™**, **FlexWrap™ EZ**, or other **DuPont Self-Adhered Flashing Products***.

Interior View

6. Seal around the interior openings of exterior penetrations with **Great Stuff Pro™ Gaps & Cracks Polyurethane Foam Sealant**.

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 by fastening through the insulation and into the wood studs in accordance with the cladding manufacturer's instructions.

NOTE: When using **DuPont Self-Adhered Flashing Products** to flash an integral flanged window, refer to the _Integrating DuPont Building Envelope Solutions Products with DuPont Exterior Continuous Insulation_ 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.

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

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.

- In stick-built construction, consider using 4' x 9' **DuPont Insulation Boards** to effectively cover the sill plates, floor/ceiling junctures, band box and headers in one easy application.

- Shakes or shingles can also be applied by installing furring strips 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 authority having jurisdiction.

- Secure 2' x 8' boards using 3 fasteners per stud (12" o.c.) or as required by the code authority having jurisdiction.

- 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.

- TRUFAST® Walls* Grip-Deck® Self-Drilling screws with 2" dia. Thermal-Grip FastCap™ washers are available for this installation method.

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

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Styrofoam™ Brand

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