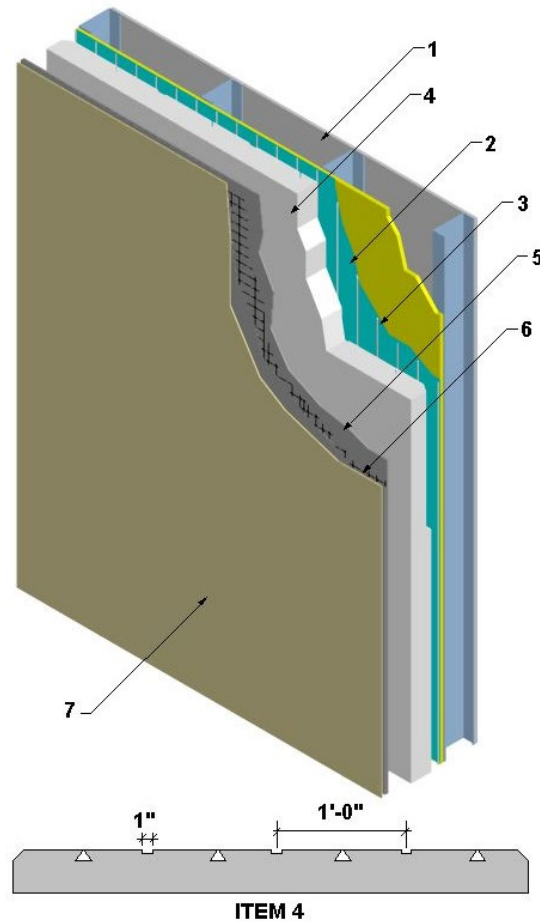


Tremco CPG Inc (Dryvit)
Design No. DSC/WDEIFS 25-02
EXTERIOR WALL SYSTEMS
Dryvit OUTSULATION® PD
CAN/ULC S134 (2013)
Meets the Standard Requirements



1. **WALL ASSEMBLY:** Construct a wall assembly that shall comply with the local Building Code or other applicable regulatory requirements when those are greater.
2. **WATER RESISTIVE BARRIER:** Apply one of the following membrane systems to the exterior side of the wall assembly (Item 1):
 - A. Dryvit Dryflex™ – Polymer based cementitious air/moisture barrier applied in accordance with manufacturer's instructions.
 - B. Dryvit Backstop NT VB – Polymer based non-cementitious air/moisture barrier applied in accordance with manufacturer's instructions.



C. Dryvit Backstop NTX Texture/Smooth – Polymer based, non-cementitious, air/water resistive barrier applied in accordance with manufacturer's instructions.

3. ADHESIVE: Mix Dryvit adhesive (Item 5) and apply using a 1/2 in. × 1/2 in. stainless steel notched trowel, in accordance with manufacturer's application instructions. Adhesive ribbons shall run vertically and measure approximately 9mm (3/8 in.) when formed and will be compressed when adhered to the substrate.

4. INSULATION BOARD: Secure insulation board with adhesive (Item 3) using one of the following options:

A. 16 kg/m³ (1 pcf) expanded polystyrene (EPS) board, min. 51mm (2 in.) thick and max. 150mm (6 in.) thick, bonded with adhesive.

B. 16 kg/m³ (1 pcf) graphite-enhanced polystyrene (GPS) board, min. 51mm (2 in.) thick and max. 150mm (6 in.) thick, bonded with adhesive and four supplemental mechanical fasteners with appropriate type and length of corrosion-resistant fasteners and PBH Washers by Demand Products, Wind-lock Wind-Devil 2 plastic washers, or approved equivalent washer, per 610 x 1220mm (24 in. x 48 in.). Fasteners must be within 200mm (8 in.) of the sides of the boards and within 100mm (4 in.) of the top and bottom. Exact location will depend upon the substrate (spacing of framing, or solid masonry).

C. 28.8 kg/m³ (1.8 pcf) extruded polystyrene (XPS) board, min. 51mm (2 in.) thick and max. 83mm (3.3 in.) thick, bonded with adhesive. The board face receiving adhesive must be sanded.

Insulation boards must be manufactured under a quality assurance program and conform to CAN/ULC S701 Type 1 for EPS and GPS, and Type 4 for XPS, with a flame spread rating less than 500 per CAN/ULC S102.2. Insulation board has a profile consisting of three 10mm (0.4 in.) deep × 25mm (1 in.) wide rectangular grooves running vertically on the interior side of the board spaced 305mm (12 in.) oc. Between rectangular grooves are four inverted triangular grooves spaced 305mm (12 in.) oc. The grooves measure 38mm (1-1/2 in.) at the base and narrow to 2mm (0.08 in.) at the peak. The base of the triangles aligns with the perimeter chamfer at a depth of 15mm (0.6 in.). Insulation boards have profile consisting of 6-10mm (.25-.40 in.) × 25mm (1 in.) grooves running vertically on the interior side of the board spaced 305mm (12 in.) oc. All outside edges are to be chamfered.

5. BASE COAT: Apply one of the following base coat applications to the exterior side of the insulation board (Item 4). In accordance with the manufacturer's application instructions, the exterior face of the insulation board must be sanded. After the initial coat, apply reinforcing mesh (Item 6) and then additional coats so that the mesh (Item 6) is completely embedded and the final thickness of the base coat is min. 2mm (1/12 in.).

A. Dryvit Primus Adhesive/Base Coat – mixed at a 1:1 ratio by weight with Type GU Portland cement (a small amount of water may be added to achieve working viscosity) or,

B. Primus DM Adhesive/Base Coat – mixed at a 4:1 ratio with clean potable water or,

C. Genesis Adhesive/Base Coat – mixed at 1:1 ratio by weight with Type GU Portland cement (a small amount of water may be added to achieve working viscosity) or,



- D. Genesis DM Adhesive/Base Coat – mixed at a 4:1 ratio with clean potable water or,
 - E. Rapidry 50/75 Adhesive Base Coat – mixed at a 4:1 ratio with clean potable water.
- 6. REINFORCING MESH:** Apply Dryvit mesh, either "Standard®", "Standard® Plus", Intermediate Mesh 150 – 372 g/m² (0.49 – 1.22 oz/ft²) self-extinguishing, edges overlapped 75mm (3 in.) min. and embedded into the base coat (Item 5) with a stainless-steel trowel. The fiberglass mesh is pre-wrapped, back-wrapped, or edge-wrapped with min. 63mm (2-1/2 in.) face coverage at terminations to encapsulate the insulation board. For additional impact resistance, a layer of Dryvit Panzer® Meshes 488 – 671 g/m² (1.6 – 2.2 oz/ft²) may be applied to the system prior to the application of standard meshes in accordance with the manufacturer's application instructions.
- 7. FINISH COAT:** Apply Dryvit "DPR" finish, StoneMist, TerraNeo, Ameristone, LymeStone, Custom Brick, and smooth coatings over the base coat (Item 5) in accordance with the manufacturer's application instructions for the specific finish, using stainless steel trowel.
- 8. JOINT TREATMENT (Not Shown):** Vertical and horizontal expansion joints, in nominal widths 19mm (3/4 in.) to 25.4mm (1 in.), are fitted with polyethylene backer rod set approximately 6mm below the top surface of the panel. The joint is then filled with polyurethane or silicone sealant.
- 9. OPTIONAL MECHANICAL FASTENING (Not Shown):** Where supplemental mechanical fastening is to be used for restraining the EPS to the substrate, GridmateClass PB(TM) or Wind-Devil 2 washers and fasteners can be used for penetrating through the EPS into the component substrate. Details of this installation can be found in the manufacturer's application instructions.

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.