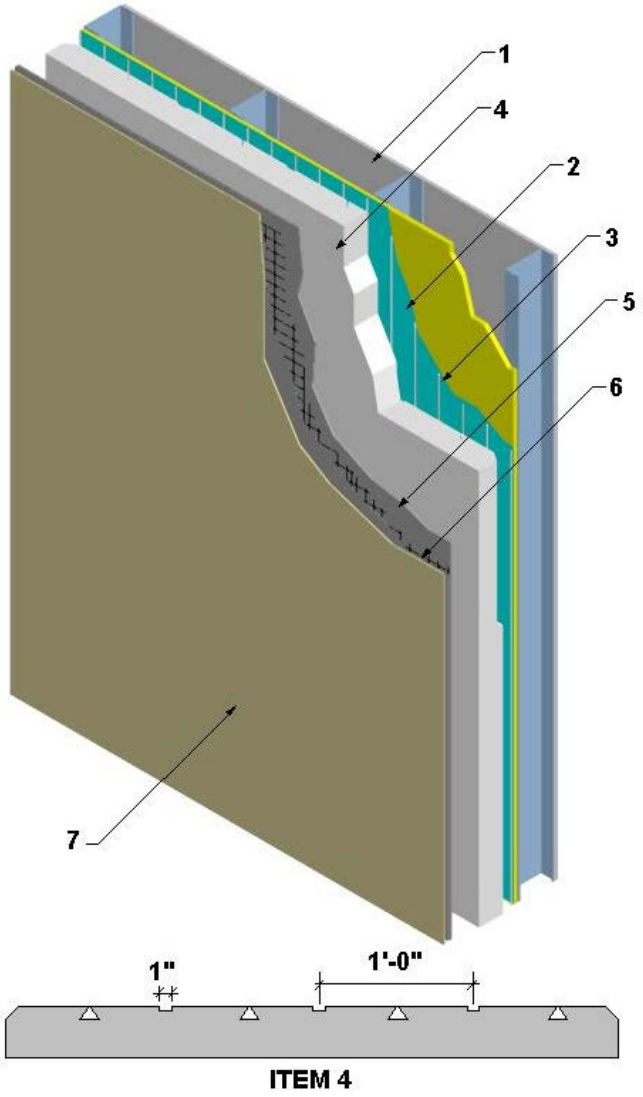
Design Number: DSC/WDEIFS 15-02
EXTERIOR WALL SYSTEMS
Dryvit Systems Canada
Dryvit OUTSULATION® PD NC
CAN/ULC S101 (2014)
Rating: 15 Minute
Meets the Requirements of Clause 3.2.3.8(1)(b) of the National Building Code of Canada, 2015 and 2010



ITEM 4

1. **WALL ASSEMBLY:** Construct a wall assembly that complies with the local Building Code or other applicable regulatory requirements when those are greater.

   System may be installed over ICF. Total combined thickness of the exterior side ICF and the Dryvit EIFS cannot exceed max. allowable thickness noted in Item 3. Additionally, concrete is to be formed flush with ICF surface at floor-lines for the securement of Dryvit detail mesh to the substrate. If installed, the Water Resistive Barrier shall be Dryflex with mesh reinforcement.

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 or,

   B. Dryvit Backstop NT™/NT VB – Polymer based non-cementitious air/moisture barrier applied in accordance with manufacturer's instructions.

3. **ADHESIVE:** Mix Dryvit adhesive (Item 5) and apply using a 12.5mm x 12.5mm (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/m^3 (1 pcf) expanded polystyrene (EPS) board, min. 51mm (2 in.) thick and max. 150mm (6 in.) thick, bonded with adhesive.

   B. 16 kg/m^3 (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/m^3 (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. 3.

   Insulation board has 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 noncombustible protective materials 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. Primus DM Adhesive/Base Coat – Mixed at a 4:1 ratio with clean potable water or,

   B. Genesis DM 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/m^2 (0.49 – 1.22 oz/ft^2) 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/m^2 (1.6 – 2.2 oz/ft^2) 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. **OPTIONAL MECHANICAL FASTENING FOR EPS AND XPS INSULATION (Not Shown):** Where supplemental mechanical fastening is to be used for restraining the insulation to substrate, 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, can be used for penetrating through the insulation into the component substrate. Details of this installation can be found in the manufacturer's application instructions.