

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION EC-25

Effective January 1, 2014  
Revised June 1, 2014

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **January 2018**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**Dryvit Outsulation<sup>®</sup> Plus MD System for Coastal Areas** manufactured by

**Dryvit Systems, Inc.**  
**One Energy Way**  
**West Warwick, RI 02893**  
**Telephone: (401) 822-4100**  
**[www.dryvit.com](http://www.dryvit.com)**

will be acceptable for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

The Dryvit Outsulation Plus MD System is an exterior insulation and finish system (EIFS) that is used as an exterior wall cladding system on building exteriors. The system is comprised of an adhesive, EPS insulation board, reinforced base coat, and a 100% acrylic polymer finish. The finish is available in various colors and textures.

## LIMITATIONS

**Wall Construction:** Exterior wall framing and exterior wall construction shall be as specified in the assemblies listed in this evaluation report.

**Design Wind Pressures:** The design wind pressures shall be as specified in the assemblies listed in this evaluation report.

**Lateral Resistance:** The Dryvit Outsulation Plus MD System shall not used as wall bracing or as shearwalls.

### Adhesive:

- Dryvit Primus<sup>®</sup>, Genesis<sup>®</sup> or Genesis<sup>®</sup> DM shall be used as the adhesive for securing the insulation board to the substrate. Primus and Genesis are mixed in a one-to-one ratio by weight with Portland cement and water added to adjust workability. Genesis DM is mixed with water.
- Adhesive mixture is applied with a notch trowel to the backside of the insulation board. Notches are spaced a maximum of 1½ inches on center.

**Insulation Boards:**

- The EPS boards shall be 2'-0" x 4'-0". The minimum thickness shall be as specified in the assemblies listed in this evaluation report.
- EPS board joints shall be staggered creating a running bond pattern offset a minimum of 6 inches.
- Offset insulation board joints from sheathing board joints a minimum of 8 inches. Insulation boards shall be picture framed around all openings.

**Base Coat:**

- Dryvit Primus, Genesis or Genesis DM shall be used as the base coat. Primus and Genesis are mixed in a one-to-one ratio by weight with Portland cement and water added to adjust workability. Genesis DM is mixed with water.

**Reinforcing Mesh:**

- Available in various weights:
  - Standard Mesh – 4 oz/yd<sup>2</sup>
  - Standard Plus - 6 oz/yd<sup>2</sup>
  - Intermediate™ - 12 oz/yd<sup>2</sup>
  - Panzer® 15 - 15 oz/yd<sup>2</sup>
  - Panzer 20 - 20 oz/yd<sup>2</sup>
- Standard, Standard Plus and Intermediate shall be overlapped at edges a minimum of 2 ½ inches
- Panzer 15 and 20 shall be butted together. After embedding Panzer 15 or 20 in base coat mixture a second layer of base coat shall be applied and Standard, Standard Plus or Intermediate shall be installed.
- All inside and outside corners shall be double wrapped. Reinforcing mesh shall not be lapped within 8 inches of a corner.

**Finish:** The Dryvit finish is available in various colors and textures.

## INSTALLATION INSTRUCTIONS

**General Installation Requirements:** International Residential Code (IRC) and International Building Code (IBC) requirements shall be satisfied and the manufacturer's installation instructions followed, unless otherwise specified by this product evaluation report.

**Installation:** Installation shall be completed by a listed applicator and shall be in accordance with the following assemblies (components listed in each assembly are from the inside out). The contractor or installer of the system shall be able to provide a copy of a certificate to the inspector showing evidence of training for application of the system.

### Assembly No. 1

#### EIFS – Metal Wall Framing

**Design Pressure:** -55 psf

**Wall Studs:** Minimum 18 gauge, 3 5/8" x 1 5/8" steel studs spaced a maximum of 16 inches on center.

**Sheathing:** Minimum 5/8" gypsum sheathing complying with ASTM C1177 secured to the metal wall framing with No. 8 x 1 5/8" wafer head screws spaced a maximum of 6" on center along the studs.

**Substrate Protection:** Apply Dryvit base coat over sheathing and embed Panzer 20 reinforcing mesh.

**Air/Water Resistive Barrier:** Dryvit Backstop NT applied over sheathing resulting in an approximate dry mil thickness of 12 mils.

**Adhesive:** Dryvit Primus, Genesis or Genesis DM mixture.

**Insulation Board:** Minimum of 1" thick EPS adhesively applied to the gypsum sheathing with one of the adhesives listed above. The adhesive is applied in a vertical notch trowel configuration with the adhesive beads measuring  $\frac{3}{8}$ " wide x  $\frac{1}{2}$ " deep and spaced  $1\frac{1}{2}$ " on center.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Reinforcing Mesh:** Dryvit Standard reinforcing mesh, nominally 4.3 oz/yd<sup>2</sup> minimum.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Finish:** Dryvit finish.

## Assembly No. 2

### EIFS – Metal Wall Framing

**Design Pressure:** -67.7 psf

**Wall Studs:** Minimum 16 gauge, 6" x  $1\frac{5}{8}$ " steel studs spaced a maximum of 16 inches on center.

**Sheathing:** Minimum  $\frac{5}{8}$ " gypsum sheathing complying with ASTM C1177 secured to the metal wall framing with No. 6 self-drilling bugle-head screws spaced a maximum of 6" on center along the studs.

**Substrate Protection:** Apply Dryvit base coat over sheathing and embed Panzer 20 reinforcing mesh.

**Air/Water Resistive Barrier:** Dryvit Backstop NT applied over sheathing resulting in an approximate dry mil thickness of 12 mils.

**Adhesive:** Dryvit Primus, Genesis or Genesis DM mixture.

**Insulation Board:** Minimum of 1" thick EPS adhesively applied to the gypsum sheathing with one of the adhesives listed above. The adhesive is applied in a vertical notch trowel configuration with the adhesive beads measuring  $\frac{3}{8}$ " wide x  $\frac{1}{2}$ " deep and spaced  $1\frac{1}{2}$ " on center.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Reinforcing Mesh:** Dryvit Standard reinforcing mesh, nominally 4.3 oz/yd<sup>2</sup> minimum.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Finish:** Dryvit finish.

## Assembly No. 3

### EIFS – Metal Wall Framing

**Design Pressure:** -77.7 psf

**Wall Studs:** Minimum 16 gauge, 6" x  $1\frac{5}{8}$ " steel studs spaced a maximum of 16 inches on center.

**Sheathing:** Minimum  $\frac{5}{8}$ " gypsum sheathing complying with ASTM C1177 secured to the metal wall framing with No. 6 self-drilling bugle-head screws spaced a maximum of 4" on center along the studs.

**Substrate Protection:** Apply Dryvit base coat over sheathing and embed Panzer 20 reinforcing mesh.

**Air/Water Resistive Barrier:** Dryvit Backstop NT applied over sheathing resulting in an approximate dry mil thickness of 12 mils.

**Adhesive:** Dryvit Primus, Genesis or Genesis DM mixture.

**Insulation Board:** Minimum of 1" thick EPS adhesively applied to the gypsum sheathing with one of the adhesives listed above. The adhesive is applied in a vertical notch trowel configuration with the adhesive beads measuring  $\frac{3}{8}$ " wide x  $\frac{1}{2}$ " deep and spaced  $1\frac{1}{2}$ " on center.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Reinforcing Mesh:** Dryvit Standard reinforcing mesh, nominally 4.3 oz/yd<sup>2</sup> minimum.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.  
**Finish:** Dryvit finish.

#### **Assembly No. 4**

##### **EIFS – Concrete or CMU**

**Design Pressure:** -80 psf

**Wall Construction:** Concrete or CMU minimum 8" x 8" x 16" hollow block complying with ASTM C90 minimum 2500 psi.

**Air/Water Resistive Barrier:** Dryvit Backstop NT applied over concrete or masonry resulting in an approximate dry mil thickness of 12 mils.

**Adhesive:** Dryvit Primus, Genesis or Genesis DM mixture.

**Insulation Board:** Minimum of 1" thick EPS adhesively applied to the gypsum sheathing with one of the adhesives listed above. The adhesive is applied in a vertical notch trowel configuration with the adhesive beads measuring  $\frac{3}{8}$ " wide x  $\frac{1}{2}$ " deep and spaced  $1\frac{1}{2}$ " on center.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Reinforcing Mesh:** Dryvit Standard reinforcing mesh, nominally 4.3 oz/yd<sup>2</sup> minimum.

**Base Coat:** Dryvit Primus, Genesis or Genesis DM mixture.

**Finish:** Dryvit finish.

**Note:** The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.