

ICC-ES Evaluation Report

ESR-1543

Reissued March 2024

This report also contains:

Revised October 2024

- [City of LA Supplement](#)


Subject to renewal March 2025

- [CA Supplement](#)

- [FL Supplement](#)

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 24 00— Exterior Insulation and Finish Systems</p> <p>Section: 07 24 19— Water-Drainage Exterior Insulation and Finish System</p>	<p>REPORT HOLDER: TREMCO CPG, INC.</p>	<p>EVALUATION SUBJECT: DRYVIT OUTSULATION® MD, OUTSULATION® PLUS MD, OUTSULATION® RMD, OUTSULATION® SMD, OUTSULATION® LCMD, , OUTSULATION® X, OUTSULATION® MASONRY VENEER SYSTEMS</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)
- 2013 *Abu Dhabi International Building Code (ADIBC)*†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

PROPERTY	IBC CHAPTER	IRC CHAPTER
Exterior insulation and finish systems (EIFS)	14	R7
Weather resistance	14	R7
Fire-resistance-rated construction	7	R3
Special inspections	17	NA
Structural – transverse wind load resistance	16	R6
Types I-IV (noncombustible) construction [Outsulation® (MD, Plus MD, LCMD, X and Masonry Veneer)]	26	NA
Surface burning characteristics	26	R3
Ignition resistance	26	NA

2.0 USES

The Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X, Masonry Veneer) are exterior insulation and finish systems (EIFS) complying with 2021 and 2018 IBC Section 1407 (2015, 2012 and 2009 IBC Section 1408) and IRC Section R703.9. The systems comply as EIFS with drainage in accordance with 2021 and 2018 IBC Section 1407.4.1 (2015, 2012 and 2009 IBC Section 1408.4.1) and IRC Section R703.9.

The systems may be used in fire-resistance-rated Type V construction, when installed in accordance with Section 4.6 of this report. Dryvit Outsulation® Systems (MD, Plus MD, LCMD X and Masonry Veneer) can be used in Types I, II, III and IV construction when installed in accordance with Section 4.5 of this report.

3.0 DESCRIPTION

3.1 System Components:

See [Table 1](#). The systems consist of water-resistive barriers, insulation board, basecoat, reinforcing mesh and finish.

3.2 Insulation Board:

3.2.1 Insulation boards for the Outsulation® (MD, Plus MD, RMD, LCMD and Masonry Veneer) Systems: Insulation must be one of the following:

- EPS insulation board complying with ASTM C578, Type I, and ASTM E2430, produced by a molder with a current ICC-ES evaluation report. The board must be labeled in accordance with the applicable report. EPS insulation board must have a flame-spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84 or UL 723.
- EPS insulation board complying with ASTM C578, Type I, and ASTM E2430, produced by a molder who participates in an approved third-party quality-assurance program. The board must be labeled in accordance with the applicable code. EPS insulation board must have a flame-spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84 or UL 723.
- ThermalStar EIFS by Atlas Molded Products, A Division of Atlas Roofing Corporation, as recognized in ICC-ES evaluation report [ESR-1962](#).

Insulation boards for the Outsulation® Plus MD system may also be BASF Neopor Type I Rigid Foam Insulation Boards complying with ASTM C578, Type I, and ASTM E2430, produced by a molder who participates in an approved third-party quality-assurance program. The boards must be labeled in accordance with the applicable code.

3.2.2 Insulation boards for the Outsulation® SMD System: Insulation must be Stucco Shield by Atlas Roofing Corporation, a rigid polyisocyanurate foam core insulation board, complying with ASTM C1289 as Type II, Class 2 with glass-fiber facings. Stucco Shield must have a flame spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 or UL723 and must be listed with an approved third-party quality assurance program.

3.2.3 Insulation boards for the Outsulation® X System: Insulation must be DuPont de Nemours, Inc. Styrofoam™ Panel Core 20 extruded polystyrene (XPS) foam plastic complying with ASTM C578, Type X, as described in ICC-ES evaluation report [ESR-2142](#).

3.3 Substrates:

Substrates must be one of the following:

- Gypsum sheathing board complying with ASTM C1396 or ASTM C1177. When used as part of a fire-resistive-rated assembly, the gypsum wallboard must be Type X with a minimum thickness of $\frac{5}{8}$ inch (15.9 mm)
- Unglazed brick or concrete masonry complying with the code
- Concrete complying with the code
- Exterior plaster complying with the code
- Exposure 1 wood structural panels complying with DOC PS-1 or PS-2

3.4 Sealants:

Sealants must comply with ASTM C920, Type S or M, minimum Grade NS, minimum Class 25 and Use O.

4.0 INSTALLATION

4.1 General:

The Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) must be installed in accordance with 2021 and 2018 IBC Section 1407 (2015, 2012 and 2009 IBC Section 1408), IRC Section R703.9 and the manufacturer's application instructions, specifications and installation details. The manufacturer's application instructions for each system can be found at the locations noted in [Table 1](#).

4.2 Drainage:

4.2.1 Outsulation® MD System: Drainage is provided by vertically grooved EPS insulation boards, with 1/4-inch-deep-by-1-inch-wide (6.4 mm by 25.4 mm) grooves spaced 12 inches (305 mm) on center along with a Dryvit Vent Assembly.

4.2.2 Outsulation® Plus MD System: Drainage is provided by applying Primus, Genesis, or Genesis DM adhesive in a vertical notched trowel configuration between the water-resistive barrier and the flat EPS insulation board.

4.2.3 Outsulation® RMD System: Drainage must be provided between the insulation board and the water-resistive barrier by using one of the following:

- **System 1:** Dryvit Drainage Mat, which is a blue-colored, 1/8-inch-thick (3.2 mm) mat composed of open-weave polymer threads and the mat is used to separate the insulation board from the water-resistive barrier.
- **System 2:** Tyvek StuccoWrap as described in ICC-ES evaluation report [ESR-2375](#). When Tyvek StuccoWrap-Style 1062X is used as a drainage medium, the Tyvek StuccoWrap is also the water-resistive barrier.
- **System 3:** Grooved insulation board, 1 1/2 to 4 inches (38 to 102 mm) thick, with vertical grooves measuring 1/8 inch (3.2 mm) deep by 1 inch (25.4 mm) wide spaced 4 inches (102 mm) on center.
- **System 4:** Notched-trowel application of the Dryvit adhesive in a vertical orientation on the backside of the flat EPS insulation board, with a trowel having 3/8-inch-wide-by-1/2-inch deep (9.5 mm by 12.7 mm) notches spaced 1 1/2 inches (38 mm) on center.
- **System 5:** Expanded metal lath: Galvanized expanded metal lath, minimum 2.5 lbs/yd² (195 or 266 kg/m²). Lath must meet Federal Specification QQ-L-101C.

4.2.4 Outsulation® SMD System: Drainage spacer, which is a polyethylene spacer measuring 1/8 inch thick by 3 inches wide (3.2 mm by 76 mm).

4.2.5 Outsulation® LCMD System:

- **System 1:** Drainage mat: A mat supplied by Dryvit Systems, made of continuous nylon filaments fused at their intersections. Ninety-five percent of the matting is open.
- **System 2:** DuPont™ Tyvek StuccoWrap®- Style 1062X (see [ESR-2375](#)).
- **System 3:** Channeled insulation board: Insulation board must be manufactured in accordance with Dryvit Specification DS131 and be supplied by a Dryvit-listed board supplier. The board supplier must participate in an approved third-party quality assurance program. The grooves are 1/4 inch deep by 1 inch wide (6.4 mm by 25.4 mm) and are spaced at 4 inches (102 mm) on center.
- **System 4:** Expanded metal lath: Galvanized expanded metal lath, minimum 2.5 lbs/yd² (195 kg/m²). Lath must meet Federal Specification QQ-L-101C.
- **System 5:** Ultra Lath: PLASS-T-LATH, manufactured by Plastic Components, Inc., is an alternative to galvanized metal lath.

4.2.6 Outsulation® X System: Drainage must be provided between the flat DuPont de Nemours, Inc. Styrofoam™ insulation board and the water-resistive barrier coating by notched-trowel application of the Genesis adhesive mixture in a vertical orientation on the back side of the flat insulation board, with a trowel having 3/8-inch-wide-by-1/2-inch-deep (9.5 mm by 12.7 mm) notches spaced 1 1/2 inches (38 mm) on center.

4.2.7 Outsulation® Masonry Veneer System: Drainage is provided by applying Primus adhesive in a vertical notched trowel configuration between the water-resistive barrier and the flat EPS insulation board.

4.3 Wind Design:

[Table 2](#) describes specific assemblies for which test data has been submitted. Other assemblies may be considered for approval by local code officials based on testing and/or calculations of a qualified design professional.

4.4 Weather Protection:

The Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) comply with 2021 and 2018 IBC Section 1402.2 (2015, 2012 and 2009 IBC Section 1403.2) and IRC Section R703.1.1.

4.5 Types I, II, III and IV Construction:

[Table 3](#) describes assemblies using the Dryvit Outsulation® Systems (MD, Plus MD, LCMD, X and Masonry Veneer) that are qualified for use in Types I through IV construction.

4.6 Fire-resistance-rated Construction Assemblies:

[Table 4](#) describes assemblies using the Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) that are qualified for use in nonload-bearing and load-bearing fire-resistance-rated construction. In Type V construction, the Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) may be attached to the surface of combustible exterior fire-resistance-rated assemblies described in 2021, 2018, 2015 and 2012 IBC Table 721.1(2) [2009 IBC Table 720.1(2)] without changing the assigned hourly rating of the assembly. The exterior wall must have a minimum 10-foot (3048 mm) separation distance from adjacent construction.

4.7 Mechanical Fasteners:

To qualify the adequacy of fasteners in concrete or masonry substrates, a tension-load test program, consisting of fastener withdrawal from the applicable wall(s) of the building(s) at the location in question, must be implemented. The testing must be conducted by an approved testing laboratory. The average withdrawal strength, in pounds, must be six times the design wind pressure for the location in question. A minimum of five test per program is required, with results varying by no more than 15 percent from the average. If a minimum of 10 tests per program is conducted, variation from the average may be disregarded. For masonry substrates, a minimum of 40 percent of the tests must be run in masonry joints. Prior to installation of EIFS fasteners, a certificate of compliance, concerning test results relating to load requirements in the evaluation report, must be submitted to and approved by the code official.

4.8 Special Inspection:

For recognition under the IBC, special inspection of the Dryvit Backstop NT-Texture, Dryvit Backstop NT-Smooth, Dryvit Backstop NTX-Texture or Dryvit Backstop NTX-Smooth water-resistive coatings must be conducted in accordance with 2021, 2018 and 2015 IBC Sections 1704.2 and 1705.16.1 (2012 IBC Sections 1704.2 and 1705.15.1 and 2009 IBC Sections 1704.1 and 1704.14.1). See the Dryvit Third Party Inspection Guidelines for Owners and General Contractors/Construction Managers:

www.dryvit.com/filesshare/doc/us/description/ds150.pdf

5.0 CONDITIONS OF USE:

The Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report, the manufacturer's published application instructions, installation details and the applicable code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.
- 5.2 The foam plastic insulation board(s) must be separated from the building interior by a thermal barrier complying with the applicable code.
- 5.3 Installation must be by applicators listed by Dryvit (Tremco CPG, Inc.).
- 5.4 Termination of the system must not be less than 6 inches (152 mm) above finished grade, in accordance with 2021, 2018, 2015 and 2009 IBC Section 2603.8 (2012 IBC Section 2603.9) and IRC Section R318.4 and 2021, 2018, 2015 IRC Section R703.9.2 (2012 and 2009 IRC Section R703.9.4.1).
- 5.5 Adequacy of fasteners for concrete, masonry, brick or portland cement plaster substrates must be demonstrated to the satisfaction of the code official by a proof-load test program consisting of fastener withdrawal from the wall. The average withdrawal strength, in pounds, must be six times the required fastener load.
- 5.6 The use of the Dryvit Outsulation® Masonry Veneer System must comply with the following:
 - 5.6.1 The system is limited to use with precast stone veneer recognized in a current ICC-ES evaluation report demonstrating compliance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51). Installation of the precast stone veneer must be in accordance with Outsulation Masonry Veneer System Application Instructions and applicable requirements of the precast stone veneer manufacturer's report.
 - 5.6.2 The thickness of the insulation board must not exceed 4 inches (102 mm).
 - 5.6.3 The weight of the precast stone veneer must not exceed 15 lb/ft² (73 kg/m²) with no single unit greater than 30 lb (13.2 kg).
 - 5.6.4 In jurisdictions adopting the IBC, the supporting wall must be designed to support the installed weight of the Masonry Veneer System. At wall openings, the supporting members must be designed to limit deflection to $1/600$ of the span of the supporting members.

5.6.5 In jurisdictions adopting the IRC, where seismic provisions of IRC Section R301.2.2 apply, the average weight of the wall including the weight of the adhered veneer system must be determined. When this weight exceeds the applicable limits of 2021 and 2018 IRC Section R301.2.2.2 (2015, 2012 and 2009 IRC Section R301.2.2.2.1), an engineered design of the wall must be performed in accordance with IRC Section R301.1.3.

5.7 The products are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1** Data in accordance with the [ICC-ES Acceptance Criteria for EIFS Clad Drainage Wall Assemblies \(AC235\)](#), dated January 2015 (editorially revised July 2020).
- 6.2** Data in accordance with the [ICC-ES Acceptance Criteria for Water-resistive Coatings Used as Water-resistive Barriers over Exterior Sheathing \(AC212\)](#), dated February 2015 (editorially revised July 2020).
- 6.3** Data in accordance with the [ICC-ES Acceptance Criteria for Foam Plastic Insulation \(AC12\)](#), dated June 2015 (editorially revised December 2020).
- 6.4** Reports of tests in accordance with ASTM E2273, ASTM E2568 and ASTM E2570.
- 6.5** Reports of tests in accordance with ASTM E119, NFPA 285 and NFPA 268.

7.0 IDENTIFICATION

- 7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1543) along with the name, registered trademark, or registered logo or the report holder must be included in the product label.
- 7.2** In addition, each container or package of the coating or reinforcing mesh used as part of the Dryvit Outsulation® Systems (MD, Plus MD, RMD, SMD, LCMD, X and Masonry Veneer) must be labeled with the Tremco CPG, Inc., name and address; the product name; lot or batch number; quantity of material; storage instructions; pot life; expiration date; and the evaluation report number (ESR-1543).

EPS insulation boards must be labeled with the manufacturer’s name; manufacturing address or plant identification; name of the inspection agency; and the current ICC-ES evaluation report number.

7.3 The report holder’s contact information is the following:

TREMCO CPG, INC.
3735 GREEN ROAD
BEACHWOOD, OHIO 44122
(800) 556-7752
<https://www.tremcocpg.com/>

TABLE 1— TREMCO APPLICATION INSTRUCTION LOCATION¹

Dryvit® Outsulation System	Tremco’s Application Instructions
Outsulation® MD System	Outsulation® MD Specifications Outsulation® MD Application Instructions Outsulation® MD Installation Details
Outsulation® Plus MD System	Outsulation® Plus MD Specifications Outsulation® Plus MD Application Instructions Outsulation® Plus MD Installation Details
Outsulation® RMD System	Outsulation® RMD Specifications Outsulation® RMD Application Instructions Outsulation® RMD Installation Details
Outsulation® SMD System	Outsulation® SMD Specifications Outsulation® SMD Application Instructions Outsulation® SMD Installation Details
Outsulation® LCMD System	Outsulation® LCMD Specifications Outsulation® LCMD Application Instructions Outsulation® LCMD Installation Details
Outsulation® X System	Outsulation® X Specifications Outsulation® X Application Instructions Outsulation® X Installation Details
Outsulation® Masonry Veneer System	Outsulation® Masonry Veneer Specifications Outsulation® Masonry Veneer Application Instructions Outsulation® Masonry Veneer Installation Details

¹In the event of a conflict between the manufacturer’s instructions and this report, this report governs.

TABLE 2—SYSTEM COMPONENTS

SYSTEM	WATER-RESISTIVE BARRIER	INSULATION BOARD ¹	DRAINAGE MEDIUM ²	INSULATION ATTACHMENT		BASE COAT	REINFORCING MESH	FINISH
				Adhesive	Mechanical Fasteners ⁵			
MD	Dryvit Backstop NT-Texture, Dryvit Backstop NT-Smooth, Dryvit Backstop NTX-Texture or Dryvit Backstop NTX-Smooth	Expanded polystyrene (EPS)	Grooved EPS Insulation Board	Primus Genesis Genesis DM	--	Primus Genesis Genesis DM	Standard Reinforcing Mesh, Nominally 4.3 oz/yd ² minimum ⁶	DPR PMR
PLUS MD	Dryvit Backstop NT-Texture, Dryvit Backstop NT-Smooth, Dryvit Backstop NTX-Texture or Dryvit Backstop NTX-Smooth	Expanded polystyrene (EPS)	Notched Trowel Adhesive ⁴	Primus Genesis Genesis DM	--	Primus Genesis Genesis DM	Standard Reinforcing Mesh, Nominally 4.3 oz/yd ² minimum ⁶	DPR PMR
	Dryvit Grid Tape							
RMD	Dryvit Backstop NT or Dryvit Backstop NTX, or approved sheet membranes ³	Expanded polystyrene (EPS)	Dryvit Drainage Mat	--	Wind Devil 2 washers with screws	Genesis Genesis DM	Standard Reinforcing Mesh, Nominally 4.3 oz/yd ² minimum ⁶	DPR PMR
	DuPont Tyvek StuccoWrap (ESR-2375)		N/A	--	Wind Devil 2 washers with screws			
	Dryvit Backstop NT or Dryvit Backstop NTX, or approved sheet membranes ³		Grooved EPS Insulation Board	--	Wind Devil 2 washers with screws			
	Dryvit Backstop NT or Dryvit Backstop NTX		Notched Trowel Adhesive ⁴	Primus Genesis Genesis DM	--			
	Dryvit Backstop NT or Dryvit Backstop NTX, or approved sheet membranes ³		Expanded Metal Lath	Primus Genesis Genesis DM	--			
SMD	Dryvit Backstop NT or Dryvit Backstop NTX, or approved sheet membranes ³	Polyisocyanurate	Dryvit Drainage Mat or Drainage Spacer	--	ULP 302 or ULP 402 washers with screws	Genesis Genesis DM	Standard Reinforcing Mesh, Nominally 4.3 oz/yd ² minimum ⁶	DPR PMR
	DuPont Tyvek StuccoWrap (ESR-2375)		N/A	--	ULP 302 or ULP 402 washers with screws			
LCMD	Code-complying water-resistive barrier	Expanded polystyrene (EPS)	Drainage mat	--	Wind Devil 2 washers with screws	Genesis Genesis DM	Standard Reinforcing Mesh, Nominally 4.3 oz/yd ² minimum ⁶	DPR PMR
	Tyvek StuccoWrap		N/A	--	Wind Devil 2 washers with screws			
	Code-complying water-resistive barrier		Grooved insulation board	--	Wind Devil 2 washers with screws			
	Code-complying water-resistive barrier		Expanded metal lath	Primus Genesis Genesis DM	--			
	Code-complying water-resistive barrier		Ultra Lath	Primus Genesis Genesis DM	--			
X	Dryvit Backstop NT-Texture, Dryvit Backstop NT-Smooth, Dryvit Backstop NTX-Texture or Dryvit Backstop NTX-Smooth	DuPont Styrofoam™ Panel Core 20 extruded polystyrene (XPS)	Notched Trowel Adhesive ⁴	Genesis	--	Genesis	Standard Plus Reinforcing Mesh, nominally 6 oz/yd ²	DPR PMR
	Dryvit Grid Tape							
MASONRY VENEER	Dryvit Backstop NT-Texture, Dryvit Backstop NT-Smooth, Dryvit Backstop NTX-Texture or Dryvit Backstop NTX-Smooth	Expanded polystyrene (EPS)	Notched Trowel Adhesive ⁴	Primus	--	Primus	Intermediate Reinforcing Mesh, Nominally 12 oz/yd ² minimum	Adhered Masonry Veneer ⁷
	Dryvit Grid Tape							

¹Refer to Section 3.2 for insulation boards. Insulation attachment must be in accordance with Table 1 of this report.

²Refer to Section 4.2 for drainage mediums.

³Water-resistive barrier conforming with a standard referenced in the code or listed in a current ICC-ES evaluation report.

⁴Notched trowel adhesive, vertically applied, is used only when Dryvit Backstop NT or Dryvit Backstop NTX is used as the water-resistive barrier.

⁵Fastener details and specifications as described in Table 1 of this report.

⁶Higher weight meshes are permitted.

⁷Masonry veneer must be evaluated in a current ICC-ES evaluation report as complying with the requirements of ICC-ES AC51.

TABLE 3—WIND LOAD DESIGNS

SYSTEM ¹	FRAMING		SUBSTRATE			WIND LOAD CAPACITY (psf) ^{3,4,5}	
	Type	Spacing (inches o.c.)	Type	Fastener Type	Max. Fastener Spacing (inches o.c.)	Negative	Positive
MD	2x4 wood ²	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 5/8-inch long	6	40	50
	2x6 wood ²	16	Glass mat-faced gypsum per ASTM C1177, Minimum 5/8-inch-thick	No. 6 self-drilling screws, 1 3/8-inch long	8	35	See note 3
	2x6 wood ²	24	Glass mat-faced gypsum per ASTM C1177, Minimum 5/8-inch-thick	No. 6 self-drilling screws, 1 3/8-inch long	8	26	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 1/4-inch long	8	37	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 1/4-inch long	6	43	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 1/4-inch long	4	54	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 5/8-inch long	6	40	60
	N/A	N/A	Concrete/ Unglazed Brick/ Cement Plaster/ Concrete Masonry	N/A	N/A	70	See note 3
PLUS MD	2x4 Wood ²	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 5/8-inch long	6	40	50
	2x6 Wood ²	16	Glass mat-faced gypsum per ASTM C1177, Minimum 5/8-inch-thick	No. 6 self-drilling screws, 1 3/8-inch long	8	35	See note 3
	2x6 Wood ²	24	Glass mat-faced gypsum per ASTM C1177, Minimum 5/8-inch-thick	No. 6 self-drilling screws, 1 3/8-inch long	8	26	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 1/4-inch long	8	37	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 1/4-inch long	6	43	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2" thick	No. 6 self-drilling screws, 1 1/4-inch long	4	54	See note 3
	3 5/8-inch-by No. 18 gage-steel	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 5/8-inch long	6	40	60
	N/A	N/A	Concrete/ Unglazed Brick/ Cement Plaster/ Concrete Masonry	N/A	N/A	70	See note 3

TABLE 3—WIND LOAD DESIGNS (continued)

SYSTEM ¹	FRAMING		SUBSTRATE			WIND LOAD CAPACITY (psf) ^{3,4,5}		
	Type	Spacing (inches o.c.)	Type	Fastener Type	Max. Fastener Spacing (inches o.c.)	Negative	Positive	
RMD	2x4 wood ²	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	6d Common nails	6	26 (mechanically fastened)	See note 3	
						40 (adhered)	See note 3	
	3 ⁵ / ₈ -inch-by No. 18 gage-steel	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	No. 6 self-drilling screws, 1 ¹ / ₄ -inch long	6	6	26 (mechanically fastened)	51 (mechanically fastened)
							40 (adhered)	See note 3
	N/A	N/A	Concrete/ Unglazed Brick/ Cement Plaster/ Concrete Masonry	N/A	N/A	N/A	26 (mechanically fastened)	26 (mechanically fastened)
							26 (adhered)	26 (adhered)
SMD	2x4 wood ²	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	6d Common nails	6	26	See note 3	
	3 ⁵ / ₈ -inch-by No. 18 gage-steel	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	No. 6 self-drilling screws, 1 ¹ / ₄ -inch long	6	26	51	
	N/A	N/A	Concrete/ Unglazed Brick/ Cement Plaster/ Concrete Masonry	N/A	N/A	N/A	26 (mechanically fastened)	26 (mechanically fastened)
							26 (adhered)	26 (adhered)
LCMD	2x4 wood ²	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	See code requirements		40	See note 3	
	3 ⁵ / ₈ -inch-by No. 18 gage-steel	16	Minimum 1/2-inch-thick wood based sheathing in accordance with Section 3.3	See code requirements		30	See note 3	
	N/A	N/A	Concrete/ Unglazed Brick/ Cement Plaster/ Concrete Masonry	N/A	N/A	33	See note 3	
X	2x4 wood ²	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 ⁵ / ₈ -inch long	6	86	63	
	3 ⁵ / ₈ -inch-by No. 18 gage-steel	16	Any sheathing noted in Section 3.3, Minimum 1/2-inch-thick	No. 6 self-drilling screws, 1 ⁵ / ₈ -inch long	6	38	62	
	N/A	N/A	Concrete/ unglazed brick/ cement plaster/ concrete masonry	N/A	N/A	70	See note 3	
MASONRY VENEER	3 ⁵ / ₈ -inch-by No. 18 gage-steel	16	Glass mat-faced gypsum per ASTM C1177, Minimum 1/2-inch-thick	No. 8 self-drilling screws, 1 ⁵ / ₈ -inch long	8	43	See note 3	

For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kPa.

¹Installation of the EIFS system must be in accordance with [Table 1](#) of this report.

²Minimum specific gravity of 0.43.

³Maximum positive pressure is limited to the capacity of the framing and structural sheathing; or concrete, brick, concrete masonry or Portland cement plaster substrate, determined in accordance with the applicable code

⁴Framing members must be designed to resist all positive and negative transverse design loads with a maximum allowable deflection of 1/240 of the span for all systems except Masonry Veneer System; for Masonry Veneer system a maximum allowable deflection is 1/360 of the span.

⁵The tabulated allowable wind load is the lesser of the allowable load based on the applicable serviceability (deflection) limit (IBC Section 1604.3) and the strength limit (IBC Section 1604.2) using a safety factor of three.

TABLE 4—ASSEMBLIES FOR USE WITH TYPE I, II, III AND IV CONSTRUCTION²

SYSTEM	FRAMING			INTERIOR SHEATHING			EXTERIOR SHEATHING			INSULATION BOARD
	Min. Depth (inch)	Min. Gage	Max. Spacing (inch o.c.)	Type	Fastener Type	Fastener Spacing (inch o.c.)	Type	Fastener Type	Fastener Spacing (inch o.c.)	Max. Thickness ¹ (inch)
STEEL FRAMING										
MD	3 ⁵ / ₈	18 (0.0478 inch)	16	Minimum 5/8 inch Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 1/4-inch-long, buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 1/2-inch Water-resistant core gypsum sheathing complying with ASTM C1396	Minimum No. 8, 1 1/4-inch-long, self-drilling Type S screws	8 along all studs	12 ³ / ₄
PLUS MD	3 ⁵ / ₈	20 (0.033 inch)	16	Minimum 5/8-inch Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 1/4-inch-long buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 1/2-inch Water-resistant core gypsum sheathing complying with ASTM C1396	Minimum No. 8, 1 1/4-inch-long, self-drilling Type S screws	8 along all studs	12 ³ / ₄
X	3 ⁵ / ₈	20 (0.033 inch)	16	Minimum 5/8-inch Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 1/4-inch-long, buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 1/2-inch water-resistant core gypsum sheathing complying with ASTM C1396	Minimum No. 8, 1 1/4-inch-long, self-drilling Type S screws	8 along all studs	3 ³ / ₄
MASONRY VENEER	3 ⁵ / ₈	18 (0.0478 inch)	16	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 1/4-inch-long buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 1/2-inch Water-resistant core gypsum sheathing complying with ASTM C1396	Minimum No. 8, 1 1/4-inch-long, self-drilling Type S screws	8 along all studs	4
FIRE-RETARDANT-TREATED WOOD STUDS³										
PLUS MD	2x4	--	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, corrosion-resistant steel, Type W, buglehead drywall screws	8 at board joints, 12 at intermediate framing	Minimum 1/2" Glass mat gypsum sheathing complying with ASTM C1177	Minimum No. 8, 1 5/8-inch-long, corrosion-resistant steel, Type W, buglehead drywall screws	8 at board joints, 12 at intermediate framing	4
MASONRY VENEER	2x4	--	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, corrosion-resistant steel, Type W, buglehead drywall screws	8 at board joints, 12 at intermediate framing	Minimum 1/2" Glass mat gypsum sheathing complying with ASTM C1177	Minimum No. 8, 1 5/8-inch-long, corrosion-resistant steel, Type W, buglehead drywall screws	8 at board joints, 12 at intermediate framing	4

For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kPa.

¹Combustible content of the foam plastic must not exceed an average potential heat content of 6,000 Btu/ft² (68.2 MJ/m²) in every 20-square-foot wall area.

²Floor levels must be blocked with 4-inch-thick (102 mm), 4 pcf (64.1 kg/m³) mineral-fiber insulation.

³Fire-retardant treated wood studs must comply with IBC Section 2303.2. Fire-retardant-treated wood framing is acceptable in Types I, II, III or IV construction as permitted by Chapter 6 of the IBC.

TABLE 5—FIRE-RESISTANCE RATED ASSEMBLIES

SYSTEM	FRAMING		INTERIOR SHEATHING			EXTERIOR SHEATHING			INSULATION BOARD
	Type	Max. spacing (inch o.c.)	Type	Fastener Type	Fastener spacing (inch o.c.)	Type	Fastener Type	Fastener spacing (inch o.c.)	Max. Thickness (inch)
ONE-HOUR – NONLOAD-BEARING									
MD	Minimum 3 ⁵ / ₈ -inch by No. 25 gage-steel	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 ¹ / ₄ -inch-long, buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 5/8 inch Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, 1 ¹ / ₄ -inch-long, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	4
PLUS MD¹	3 ⁵ / ₈ -inch-by No. 25 gage-steel	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 ¹ / ₄ -inch-long buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, 1 ¹ / ₄ -inch-long, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	4
LCMD²	Minimum 3 ⁵ / ₈ -inch by No. 25 gage-steel	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 ¹ / ₄ -inch-long, buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 5/8 inch Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, 1 ¹ / ₄ -inch-long, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	4
MASONRY VENEER³	3 ⁵ / ₈ -inch-by No. 25 gage-steel	24	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 6, 1 ¹ / ₄ -inch-long buglehead, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Minimum No. 8, 1 ¹ / ₄ -inch-long, self-drilling Type S screws	8 at board joints, 12 at intermediate framing	4
TWO-HOUR – LOAD-BEARING⁴									
PLUS MD¹	2x4 wood studs	16	(2) layers of Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Layer 1: Minimum No. 8, 2-inch-long buglehead, Type W screws Layer 2: Minimum No. 8, 2 ¹ / ₂ -inch-long buglehead, Type W screws	Layers 1 and 2: 8 at board joints, 12 at intermediate framing	(2) layers of Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Layer 1: Minimum No. 8, 2-inch-long buglehead, Type W screws Layer 2: Minimum No. 8, 2 ¹ / ₂ -inch-long buglehead, Type W screws	Layers 1 and 2: 8 at board joints, 12 at intermediate framing	4
MASONRY VENEER³	2x4 wood studs	16	(2) layers of Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Layer 1: Minimum No. 8, 2-inch-long buglehead, Type W screws Layer 2: Minimum No. 8, 2 ¹ / ₂ -inch-long buglehead, Type W screws	Layers 1 and 2: 8 at board joints, 12 at intermediate framing	(2) layers of Minimum 5/8" Type X gypsum wallboard complying with ASTM C36 or ASTM C1396	Layer 1: Minimum No. 8, 2-inch-long buglehead, Type W screws Layer 2: Minimum No. 8, 2 ¹ / ₂ -inch-long buglehead, Type W screws	Layers 1 and 2: 8 at board joints, 12 at intermediate framing	4

For SI: 1 inch = 25.4 mm.

¹EIFS Assembly: Adhesive: Any, except Genesis DM; Base Coat: Any, except Genesis DM; Finish Coat: Any.

²EIFS Assembly: Base coat: Genesis or Genesis DM; Finish: DPR.

³EIFS Assembly: Base Coat: Primus; Adhesive: Primus; Adhesive for Masonry Veneer: Modified Primus.

⁴Design stress reduced to 78 percent of the adjusted F'c and have a slenderness ratio of le/d of 33.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**Section: 07 24 00—Exterior Insulation and Finish Systems****Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System****REPORT HOLDER:**

TREMCO CPG, INC.

EVALUATION SUBJECT:**DRYVIT OUTSULATION® PLUS MD, OUTSULATION® RMD, OUTSULATION® SMD, OUTSULATION® LCMD,
OUTSULATION® MD, OUTSULATION® X, OUTSULATION® MASONRY VENEER SYSTEMS****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that Dryvit Outsulation® Systems, described in ICC-ES evaluation report [ESR-1543](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 City of Los Angeles Building Code ([LABC](#))
- 2023 City of Los Angeles Residential Code ([LARC](#))

2.0 CONCLUSIONS

The Dryvit Outsulation® Systems, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1543](#), comply with LABC Chapters 7, 14 and 26, and LARC Sections R316 and R703, and are subjected to the conditions of use described in this evaluation report supplement.

3.0 CONDITIONS OF USE

The Dryvit Outsulation® Systems described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-1543](#).
- The design, installation, conditions of use and identification of the Dryvit Outsulation® Systems are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-1543](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the evaluation report, reissued March 2024 and revised October 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 24 00—Exterior Insulation and Finish Systems

Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:

TREMCO CPG, INC.

EVALUATION SUBJECT:

DRYVIT OUTSULATION® PLUS MD, OUTSULATION® RMD, OUTSULATION® SMD, OUTSULATION® LCMD,
OUTSULATION® MD, OUTSULATION® X, OUTSULATION® MASONRY VENEER SYSTEMS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Dryvit Outsulation® Systems, described in ICC-ES evaluation report ESR-1543, has also been evaluated for compliance with the code(s) noted below.

Applicable code editions:

- 2022 California Building Code (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Dryvit Outsulation® Systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-1543, comply with CBC Chapter 7, 14, and 26 provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report, ESR-1543, and the additional requirements of CBC Chapters 16 and 17, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.1.1 OSHPD: The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Dryvit Outsulation® Systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-1543, comply with CRC Chapters 3 and 7, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report, ESR-1543.

The products have not been evaluated under CRC Section R337 for use in Exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products described in this supplement have not been evaluated for compliance with the *International Wildland—Urban Interface Code*®.

This supplement expires concurrently with the evaluation report, reissued March 2024 and revised October 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**Section: 07 24 00—Exterior Insulation and Finish Systems****Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System****REPORT HOLDER:**

TREMCO CPG, INC.

EVALUATION SUBJECT:DRYVIT OUTSULATION® MD, OUTSULATION® PLUS MD, OUTSULATION® RMD, OUTSULATION® SMD,
OUTSULATION® LCMD, OUTSULATION® X, OUTSULATION® MASONRY VENEER SYSTEMS**1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that Dryvit Outsulation® Systems, evaluated in ICC-ES evaluation report ESR-1543, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 Florida Building Code—Building
- 2023 Florida Building Code—Residential

2.0 CONCLUSIONS

The Dryvit Outsulation® Systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-1543, comply with the *Florida Building Code—Building* and *Florida Building Code—Residential*, as applicable. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-1543 for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable, with the following condition:

Installation must meet the requirements of Section 1403.8 of the *Florida Building Code—Building* or Section R318.7 of the *Florida Building Code—Residential*, as applicable.

Use of the Dryvit Outsulation® Systems for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated and is outside the scope of this evaluation report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality-assurance program is audited by a quality-assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued March 2024 and revised October 2024.