DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION  
SECTION: 07 24 00—EXTERIOR INSULATION AND FINISH SYSTEMS

REPORT HOLDER:

DRYVIT SYSTEMS, INC.

EVALUATION SUBJECT:

DRYVIT OUTSULATION® SYSTEM

“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems

REPORT HOLDER:
DRYVIT SYSTEMS, INC.

EVALUATION SUBJECT:
DRYVIT OUTSULATION® SYSTEM

1.0 EVALUATION SCOPE

Compliance with the following codes:
- 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.

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see ESR-1232 LABC and LARC Supplement.

Properties evaluated:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>IBC CHAPTER</th>
<th>IRC CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior insulation and finish systems (EIFS)</td>
<td>14</td>
<td>R7</td>
</tr>
<tr>
<td>Weather resistance</td>
<td>14</td>
<td>R7</td>
</tr>
<tr>
<td>Fire-resistance-rated construction</td>
<td>7</td>
<td>R3</td>
</tr>
<tr>
<td>Special inspection</td>
<td>17</td>
<td>N/A</td>
</tr>
<tr>
<td>Structural – transverse wind load resistance</td>
<td>16</td>
<td>R6</td>
</tr>
<tr>
<td>Types I – IV (noncombustible) construction</td>
<td>26</td>
<td>N/A</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>26</td>
<td>R3</td>
</tr>
<tr>
<td>Ignition resistance</td>
<td>26</td>
<td>N/A</td>
</tr>
</tbody>
</table>

2.0 USES

The Dryvit Outsulation system is an exterior insulation and finish system (EIFS) complying with the 2018 IBC Section 1407 (the 2015, 2012, and 2009 IBC Section 1408) and IRC Section R703.9. The system may be used in fire-resistance-rated construction and any construction Type (IBC Types I through V), with the exception of framed walls of Type V construction in an R1, R2, R3 or R4 Occupancy Group. Under the IRC, the system is limited to use on concrete or masonry walls.

3.0 DESCRIPTION

3.1 System Components:
See Table 1.

3.2 Insulation Board:
Insulation boards 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, with 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.
- EPS insulation board may be produced by a molder that participates in an approved third-party quality assurance program. The board must comply with ASTM C578, Type I, and ASTM E2430, 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 be labeled in accordance with the code.
- Foam-Control EPS Boards, Type I - WSG, by AFM (ESR-1006).
- EWG EIFS, by Falcon Foam (ESR-1962).
- BASF Neopor® Type I Rigid Foam Insulation Boards (ESR-3463).

3.3 Substrates (see table 2):
- Gypsum sheathing complying with ASTM C1396 or ASTM C1177
- Fiber cement panels complying with the ICC-ES Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding (AC90), and ASTM C1186.
- Fiber cement panels complying with the ICC-ES Acceptance Criteria for Reinforced Cementitious Sheets Used as Wall and Ceiling Sheathing and Floor Underlayment (AC376), and ASTM C1325.
- Concrete-masonry comply with the code
- Concrete comply with the code
- Exterior plaster complying with the code
• Exposure 1 wood structural panels complying with DOC PS-1 or PS-2
• Brick masonry complying with the code

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

4.0 DESIGN AND INSTALLATION

4.1 General:
The Dryvit Outsulation System must be installed in accordance with the manufacturer’s application instructions, specifications and installation details. These are available at:

4.2 Drainage:
The Dryvit Outsulation System has not been qualified as an EIFS with drainage, as described in the 2018 IBC Section 1407.4.1 (2015, 2012 and 2009 IBC Section 1408.4.1) and IRC Section R703.9.2.

4.3 Wind Design:
Table 3 describes specific assemblies for which test data has been submitted. Other assemblies may be considered for approval by local officials based on testing and/or calculations by a registered design professional.

4.4 Weather Protection:
The Dryvit Outsulation System complies with the 2018 IBC Section 1404.2 (2015, 2012, and 2009 IBC Section 1403.2) and IRC Section R703.1.1.

4.5 Use in Types I through IV Construction:
Table 4 describes the assemblies qualified for use in Types I through IV construction.

4.6 Fire-resistance-rated Construction: See Table 5:
Table 5 describes the assemblies qualified for use in load-bearing and nonload-bearing-fire resistance-rated construction. In addition, in Type V construction, the Dryvit Outsulation System may be attached to the surface of combustible exterior fire-resistance-rated assemblies described in the 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 Special Inspection:
For recognition under the IBC, special inspections must be conducted in accordance with Sections 1704.2 and 1705.16.1 of the 2018 and 2015 IBC, Sections 1704.2 and 1705.15.1 of the 2012 IBC and Sections 1704.1 and 1704.14 of the 2009 IBC. Refer to the Dryvit Systems, Inc., Third Party Inspection Guidelines for Owners and General Contractors/Construction Managers:

5.0 CONDITIONS OF USE
The Dryvit Outsulation System described in this report complies with, or is a suitable alternative 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 manufacturers published installation instructions and this report, this report governs.

5.2 The insulation boards must be separated from the building interior by a thermal barrier complying with the applicable code.

5.3 Use in framed walls of Type V construction in Occupancy Groups R1, R2, R3 and R4 is not permitted. Under the IRC, construction is limited to concrete and concrete masonry construction.

5.4 Installation must be by a contractor listed by Dryvit Systems, Inc.

5.5 Termination of the system must not be less than 6 inches (152 mm) above finished grade in accordance with IBC Section 2603.8 and 2018 and 2015 IRC Section R318.4 and R703.9.1(5) (2012 and 2009 IRC Section R318.4).

6.0 EVIDENCE SUBMITTED

6.1 Reports of tests in accordance with ASTM E2568.


6.3 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (Editorially revised October 2017).

6.4 Reports of tests in accordance with NFPA 285 and NFPA 268.

7.0 IDENTIFICATION

7.1 Each container or package of the coating or reinforcing mesh used as part of the Outsulation System must be labeled with the Dryvit Systems, 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-1232).

Foam plastic insulation must be labeled in accordance with the current ICC-ES evaluation report in which it is recognized, or as described in Section 3.2.

7.2 The report holder’s contact information is as follows:
DRYVIT SYSTEMS, INC.
ONE ENERGY WAY
WEST WARWICK, RHODE ISLAND 02893
(401) 822-4100
www.dryvit.com
### TABLE 1—COATING SYSTEM COMPONENTS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>WATER-RESISTIVE BARRIER</th>
<th>ADHESIVE</th>
<th>BASE COAT</th>
<th>REINFORCING MESH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryvit Outsulation</td>
<td>NA</td>
<td>Dryvit ADEPS, or Dryvit Primus, or Dryvit Genesis, or Dryvit Genesis DM</td>
<td>Dryvit Primus, or Dryvit Genesis, or Dryvit Genesis DM, or NCB</td>
<td>Dryvit Standard Reinforcing Mesh, 4.3 oz/yd² minimum; Dryvit DPR Finish or PMR Acrylic Finish</td>
<td></td>
</tr>
</tbody>
</table>

1 See Section 3.2 for Insulation Board.
2 Higher weight meshes are allowable.

### TABLE 2—SUBSTRATES

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>SUBSTRATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryvit ADEPS</td>
<td>All substrates noted in Section 3.3</td>
</tr>
<tr>
<td>Dryvit Primus</td>
<td>All substrates noted in Section 3.3 except plywood or OSB</td>
</tr>
<tr>
<td>Dryvit Genesis</td>
<td>All substrates noted in Section 3.3 except plywood or OSB</td>
</tr>
<tr>
<td>Dryvit Genesis DM</td>
<td>All substrates noted in Section 3.3 except plywood or OSB</td>
</tr>
</tbody>
</table>

### TABLE 3—WIND LOAD DESIGN

<table>
<thead>
<tr>
<th>FRAMING³</th>
<th>SUBSTRATE</th>
<th>EPS</th>
<th>Allowable Wind Load²,³ (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Max spacing</td>
<td>EPS Minimum Thickness (inch)</td>
<td>Coating</td>
</tr>
<tr>
<td>2x4 wood¹</td>
<td>16” o.c.</td>
<td>0.5-inch gypsum sheathing complying with ASTM C1396 or ASTM C1177 or 0.5-inch wood structural panel; attached to framing with No. 6 self-drilling bugle-head S-12 drywall screws at 6 inches on center along studs. Fasteners must penetrate at least 1 inch into wood framing or through steel framing.</td>
<td>1</td>
</tr>
<tr>
<td>6-inch by No. 16 gage-steel</td>
<td>16” o.c.</td>
<td>0.5-inch water-resistant core gypsum sheathing complying with ASTM C1396 or ASTM C1177 or 0.5-inch wood structural panel; attached to framing with No. 6 self-drilling bugle-head drywall screws at 4 inches on center along studs. Fasteners must penetrate at least 1 inch into wood framing or through steel framing.</td>
<td>1</td>
</tr>
<tr>
<td>6-inch by No. 16 gage-steel</td>
<td>16</td>
<td>Minimum 2.5-pound-per-square-yard, diamond mesh metal lath over min. 0.5-inch-thick, water-resistant core gypsum sheathing; attached to framing with No. 6 self-drilling bugle head drywall screws with 0.75-inch-diameter metal washers at 6 inches on center around the perimeter and a maximum of 10 inches on center in the field of the sheathing; fasteners must penetrate through steel framing.</td>
<td>1</td>
</tr>
<tr>
<td>6-inch by No. 18 gage-steel</td>
<td>16</td>
<td>Minimum 3.4-pound-per-square-yard, diamond mesh metal lath over min. 0.5-inch-thick, water-resistant core gypsum sheathing; attached to framing with min. 0.16-inch-diameter self-tapping panhead screws at a max. of 6 inches on center; must penetrate through steel framing.</td>
<td>1</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>Concrete, concrete-masonry, or brick masonry</td>
<td>1</td>
</tr>
</tbody>
</table>

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

1 Minimum 2x4 wood framing, minimum specific gravity 0.42
2 Maximum positive pressure is limited to the capacity in Table 3, the capacity of the framing and structural sheathing, or concrete, masonry or portland cement plaster substrate, determined in accordance with the applicable code, whichever is lower.
3 The framing members must be designed to resist all positive and negative transverse design loads with a maximum allowable deflection of 1/240 of the span.
<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING&lt;sup&gt;1&lt;/sup&gt;</th>
<th>EXTERIOR SHEATHING&lt;sup&gt;2&lt;/sup&gt;</th>
<th>MAXIMUM INSULATION BOARD THICKNESS (INCHES)</th>
<th>ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metal</td>
<td>Min. Depth (in.)</td>
<td>Min. Gage</td>
<td>Max Spacing</td>
</tr>
<tr>
<td></td>
<td>3/4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>No. 18 (0.0428 inch)</td>
<td>16&quot; o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
</tr>
<tr>
<td></td>
<td>3/4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>No. 18 (0.0428 inch)</td>
<td>16&quot; o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
</tr>
<tr>
<td></td>
<td>3/4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>No. 18 (0.0428 inch)</td>
<td>16&quot; o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
</tr>
<tr>
<td></td>
<td>3/4&lt;sup&gt;1&lt;/sup&gt;</td>
<td>No. 20 (0.0320 inch)</td>
<td>16&quot; o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
</tr>
<tr>
<td>Fire-retardant-treated Wood Studs&lt;sup&gt;7&lt;/sup&gt;</td>
<td>2x4</td>
<td>24&quot; o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
<td>5/8</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

<sup>1</sup>Fasteners are minimum No. 6, corrosion-resistant steel, self-drilling drywall screws.
<sup>2</sup>Fasteners are minimum No. 6, corrosion-resistant steel, Type S, self-drilling drywall screws.
<sup>3</sup>Fasteners are minimum No. 8, corrosion-resistant steel, Type W, bugle-head drywall screws.
<sup>4</sup>Fasteners are minimum No. 6, 1 1/2-inch-long, corrosion-resistant steel, Type S, self-drilling drywall screws.
<sup>5</sup>Fasteners are minimum No. 8, 1 1/2-inch-long, corrosion-resistant steel, Type W, bugle-head drywall screws.
<sup>6</sup>Fasteners are minimum No. 6, 1 1/2-inch-long, corrosion-resistant steel, Type S drywall screws.
<sup>7</sup>Fire-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.

<sup>1</sup>Fasteners are minimum No. 6, corrosion-resistant steel, self-drilling drywall screws.
<sup>2</sup>Fasteners are minimum No. 6, corrosion-resistant steel, Type S, self-drilling drywall screws.
<sup>3</sup>Fasteners are minimum No. 8, corrosion-resistant steel, Type W, bugle-head drywall screws.
<sup>4</sup>Fasteners are minimum No. 6, 1 1/2-inch-long, corrosion-resistant steel, Type S, self-drilling drywall screws.
<sup>5</sup>Fasteners are minimum No. 8, 1 1/2-inch-long, corrosion-resistant steel, Type W, bugle-head drywall screws.
<sup>6</sup>Fasteners are minimum No. 6, 1 1/2-inch-long, corrosion-resistant steel, Type S drywall screws.
<sup>7</sup>Fire-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\(^2, 3\)

<table>
<thead>
<tr>
<th>LOAD CONDITION</th>
<th>FRAMING MEMBERS</th>
<th>SHEATHING (INTERIOR AND EXTERIOR)</th>
<th>MAXIMUM INSULATION BOARD THICKNESS (inches)</th>
<th>RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>METAL</td>
<td>MAX SPACING</td>
<td>TYPE(^4)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Min. Depth</td>
<td>Min. Gage</td>
<td>MIN. THICKNESS (inch)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MAX. FASTENER SPACING</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FASTENER</td>
<td></td>
</tr>
<tr>
<td>Non-load-bearing</td>
<td>3(\frac{3}{4})&quot;</td>
<td>25</td>
<td>16&quot; o.c.</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Type X FR Gypsum Board(^1)</td>
<td></td>
<td>Type X FR Gypsum Board(^1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8 inches (203 mm) on center along the perimeter and 12 inches (305 mm) on center on all intermediate studs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 1: No. 6 by 1(\frac{1}{4})-inch-long (32 mm), self-drilling, bugle head drywall screws</td>
<td></td>
<td></td>
<td>1 hour</td>
</tr>
<tr>
<td></td>
<td>Layer 1: 16 inches (406 mm) on center at the stud locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 2 (interior): 12 inches (305 mm) on center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 2 (exterior): 8 inches (203 mm) on center</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load-bearing(^5)</td>
<td>2x4</td>
<td>16&quot; o.c.</td>
<td>Type X FR Gypsum Board(^1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8 inches (203 mm) on center along perimeter; 12 inches (305 mm) on center in the field at the stud locations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 1: 8 inches (203 mm) on center along perimeter; 12 inches (305 mm) on center in the field at the stud locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 2 (interior): 8 inches (203 mm) on center along perimeter; 12 inches (305 mm) on center in the field at the stud locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 2 (exterior): 8 inches (203 mm) on center along perimeter; 12 inches (305 mm) on center in the field at the stud locations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Layer 1: No. 8 by 2-inch-long (51 mm), Type W, bugle head drywall screws</td>
<td></td>
<td></td>
<td>2 hour</td>
</tr>
<tr>
<td></td>
<td>Layer 2 (interior): No. 8 by 2(\frac{1}{2})-inch-long (64 mm), Type W, bugle head drywall screws</td>
<td></td>
<td></td>
<td>2 hour</td>
</tr>
<tr>
<td></td>
<td>Layer 2 (exterior): No. 8 by 2(\frac{1}{2})-inch-long (64 mm), Type W, bugle head drywall screws</td>
<td></td>
<td></td>
<td>2 hour</td>
</tr>
</tbody>
</table>

\(^1\)All inferior board joints are taped and treated with joint compound in accordance with ASTM C840 or GA216 and intermediate fastener heads are treated with joint compound in accordance with ASTM C840 or GA216.


\(^3\)Rated from both sides.

\(^4\)On exterior walls, the exterior side sheathing must be gypsum sheathing complying with ASTM C1396.

\(^5\)Design stress reduced to 78 percent of the adjusted F’\(_s\) and have a slenderness ratio of l\(_w\)/d of 33.
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems

REPORT HOLDER:
DRYVIT SYSTEMS, INC.

EVALUATION SUBJECT:
DRYVIT OUTSULATION® SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that Dryvit Outsulation® System, described in ICC-ES master evaluation report ESR-1232, has 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:
- 2017 City of Los Angeles Building Code (LABC)
- 2017 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The Dryvit Outsulation® System, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1232, complies with the LABC Chapters 7, 14 and 26, and the LARC Sections R316 and R703, and is subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

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

- All applicable sections in the master evaluation report ESR-1232.
- The design, installation, conditions of use and identification of the Dryvit Outsulation® System are in accordance with the 2015 International Building Code® (2015 IBC) provisions noted in the master evaluation report ESR-1232.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- The Dryvit Outsulation® System has not been evaluated under LABC Chapter 7A or LARC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland—Urban Interface Area.

This supplement expires concurrently with the master report, reissued January 2019.
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems

REPORT HOLDER:
DRYVIT SYSTEMS, INC.

EVALUATION SUBJECT:
DRYVIT OUTSULATION® SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that Dryvit Outsulation® System, recognized in ICC-ES master evaluation report ESR-1232, has also been evaluated for compliance with the codes noted below.

Applicable code editions:
- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Dryvit Outsulation® System, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1232, complies with the Florida Building Code—Building and Florida Building Code—Residential, provided the design and installation are in accordance with the 2015 International Building Code® provisions noted in the master report under 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® System 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 9N-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 master report, reissued January 2019.