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® LCMD SYSTEMS 1-5
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION  
Section: 07 24 00—Exterior Insulation and Finish Systems

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EVALUATION SUBJECT:  
DRYVIT OUTSULATION® LCMD SYSTEMS 1-5

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.

Properties evaluated:

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<td>Structural–transverse wind load resistance</td>
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<td>14</td>
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<td>R3</td>
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2.0 USES

The Dryvit Outsulation LCMD System is an exterior insulation and finish system (EIFS) complying with 2018 IBC Section 1407 (2015, 2012 and 2009 IBC Section 1408) and IRC Section R703.9. The system complies as an EIFS with drainage in accordance with 2018 IBC Section 1407.4.1 (2015, 2012 and 2009 IBC Section 1408.4.1) and IRC Section R703.9. The system may be used in fire-resistance-rated Type V construction when installed in accordance with Section 4.6 of this report, and in Types I, II, III and IV construction when installed in accordance with Section 4.5.

3.0 DESCRIPTION

3.1 System Components:

See Table 1. The system consists of a water-resistant barrier, drainage medium, expanded polystyrene (EPS) insulation board, fasteners, basecoat, reinforcing mesh and finish coat.

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. The board must be labeled in accordance with the applicable report.
- 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.
- Foam-Control EPS Boards, Type I-WSG by AFM, as recognized in ICC-ES evaluation report ESR-1006.

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 UL723.

3.3 Substrates:

Substrates must be one of the following:

- Gypsum sheathing board complying with ASTM C1396, minimum thickness of 1/2 inch (12.7 mm). When used as part of a fire-resistive-rated assembly the gypsum wallboard must be Type X with a minimum thickness of 5/8 inch (15.9 mm).
- Glass-matt-faced gypsum substrate complying with ASTM C1177, with a minimum thickness of 1/2 inch (12.7 mm).
- Brick or concrete masonry complying with the applicable code.
- Concrete complying with the applicable code.
- Exterior plaster complying with the applicable 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 DESIGN AND INSTALLATION

4.1 General:
Dryvit Outsulation LCMD Systems 1–5 must be installed in accordance with 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. These are available at:


4.2 Drainage:

- 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 (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, 2.5 or 3.4 lbs/yd² (196 or 266 kg/m²). Lath must meet Federal Specification QQ-L-101C.

4.3 Wind Design:
Table 2 lists the 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 LCMD Systems 1–5 comply with 2018 IBC Section 1402.2 (2015, 2012 and 2009 IBC Section 1403.2) and IRC Section R703.1.1.

4.5 Use in Types I, II, III and IV Construction:
Table 3 lists the assemblies qualified for use in Type I, II, III, or IV construction.

4.6 Fire-resistance-rated Construction Assemblies:
Table 4 describes the assemblies qualified for use in nonload-bearing, fire-resistance-rated construction. In Type V construction, the Dryvit LCMD system may be attached to the surface of combustible exterior fire-resistance-rated assemblies described in 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.

5.0 CONDITIONS OF USE
The Dryvit Outsulation LCMD Systems 1–5 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 manufacturer’s published application 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 Installation must be by applicators listed by Dryvit Systems, Inc.

5.4 Termination of the system must not be less than 6 inches (152 mm) above finished grade, in accordance with 2018, 2015 and 2009 IBC Section 2603.8 (2012 IBC Section 2603.9) and 2018 and 2015 IRC Sections R318.4 and R703.9.2 (2012 and 2009 IRC Sections R318.4 and 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.

6.0 EVIDENCE SUBMITTED

6.1 Reports of tests in accordance with ASTM E2568 and ASTM E2273.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for EIFS Clad Drainage Wall Assemblies (AC235), dated January 2015 (editorially revised April 2018).

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

7.0 IDENTIFICATION

7.1 Each container or package of the coating or reinforcing mesh used as part of the Dryvit Outsulation LCMD Systems 1–5 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-1692).

EPS insulation must be labeled in accordance with the current ICC-ES evaluation report in which it is recognized, or in accordance with IBC Section 2603.2 or IRC Section 316.2, as applicable.

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

DRYVIT SYSTEMS, INC.
ONE ENERGY WAY
WEST WARWICK, RHODE ISLAND 02893
(401) 822-4100
www.dryvit.com
TABLE 1—OUTSULATION LCMD SYSTEM COMPONENTS

<table>
<thead>
<tr>
<th>SYSTEM CONFIGURATION</th>
<th>WATER-RESISTIVE BARRIER</th>
<th>DRAINAGE MEDIUM</th>
<th>ATTACHMENT METHOD</th>
<th>EPS MINIMUM THICKNESS (in.)</th>
<th>BASE COATS</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>• System 1</td>
<td>Code-complying water-resistive barrier</td>
<td>Drainage mat</td>
<td>N/A</td>
<td>Screws and Wind Devil 2 washers*</td>
<td>1</td>
<td>Genesis Genesis DM</td>
</tr>
<tr>
<td>• System 2</td>
<td>Tyvek StuccoWrap</td>
<td>N/A</td>
<td>N/A</td>
<td>Screws and Wind Devil 2 washers*</td>
<td>1</td>
<td>Genesis Genesis DM</td>
</tr>
<tr>
<td>• System 3</td>
<td>Code-complying water-resistive barrier</td>
<td>Grooved insulation board</td>
<td>N/A</td>
<td>Screws and Wind Devil 2 washers*</td>
<td>1.5</td>
<td>Genesis Genesis DM</td>
</tr>
<tr>
<td>• System 4</td>
<td>Code-complying water-resistive barrier</td>
<td>Expanded metal lath</td>
<td>Primus Genesis Genesis DM</td>
<td>N/A</td>
<td>1</td>
<td>Genesis Genesis DM</td>
</tr>
<tr>
<td>• System 5</td>
<td>Code-complying water-resistive barrier</td>
<td>Ultra Lath</td>
<td>Primus Genesis Genesis DM</td>
<td>N/A</td>
<td>1</td>
<td>Genesis Genesis DM</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

1See Section 4.2 for a description of drainage mediums.
2Fastener details and specifications as described in Section 4.1.

TABLE 2—WIND LOAD DESIGNS

<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>SHEATHING</th>
<th>INSULATION</th>
<th>WIND LOAD CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood</td>
<td>Metal</td>
<td>Type</td>
<td>Thickness (in.)</td>
</tr>
<tr>
<td>Wood-based sheathing</td>
<td>1/2</td>
<td>See code</td>
<td>12</td>
</tr>
<tr>
<td>3/8</td>
<td>16</td>
<td>See Section 3.3</td>
<td>1/2</td>
</tr>
<tr>
<td>Brick, concrete or masonry</td>
<td>1</td>
<td>10</td>
<td>33</td>
</tr>
</tbody>
</table>

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

1Minimum nominally 2-by-4 wood framing, minimum specific gravity 0.43.
2Maximum 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.
3Framing members must be designed to resist all positive and negative transverse design loads with a maximum allowable deflection of 1/240 of the span.
4Insulation installation details and specifications as described in Section 4.1.
5For all Table 1 systems.

TABLE 3—ASSEMBLIES FOR USE WITH TYPE I, II, III AND IV CONSTRUCTION

| FRAMING MEMBERS | INTERIOR SHEATHING | EXTERIOR SHEATHING | INSULATION BOARD THICKNESS MAXIMUM (IN.) | WATER RESISTIVE BARRIER | EIFS COMPONENTS |
|-----------------|--------------------|--------------------|------------------------------------------|-------------------------|----------------|--------------------|
| Metal           | Type               | Min. Thickness (in.) | Type | Min. Fastener Spacing o.c. (in.) | Max. Fastener Spacing o.c. (in.) | Code-compliant or recognized by ICC-ES and recognized for use in Types I–IV const.* | Wind Devil 2 fasteners; insulation board; standard mesh; Primus, Genesis, or Genesis DM base; DPR finish |
| 3/8 | 20 | 16 | C36 or C1396 | 1/2 | 8 | C1396 | 1/2 | 8 | 4 |

For SI: 1 inch = 25.4 mm.

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) Thermafiber insulation.
3For all Table 1 systems.
4Refer to 2018 IBC Section 1402.5 (2015 and 2012 IBC Section 1403.5) for additional requirements.
<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING</th>
<th>EXTERIOR SHEATHING</th>
<th>MAX. INSULATION BOARD THICKNESS (inches)</th>
<th>WATER RESISTIVE BARRIER</th>
<th>EIFS COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal Min. Depth (in.)</td>
<td>Min. Gage</td>
<td>Max. Spacing o.c. (in.)</td>
<td>Type</td>
<td>Min. Thickness (in.)</td>
<td>Max. Fastener Spacing o.c. (in.)</td>
</tr>
<tr>
<td>$3\frac{5}{8}$</td>
<td>25</td>
<td>24</td>
<td>Type X C 36 or C 1396</td>
<td>$\frac{5}{8}$</td>
<td>8 field 12 edge</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

1For all Table 1 systems.
1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that Dryvit Outsulation LCMD System, recognized in ICC-ES master evaluation report ESR-1692, 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 LCMD System, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1692, 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 LCMD 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 May 2018 and revised June 2018.