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

REPORT HOLDER:

PAREX USA, INC.

EVALUATION SUBJECT:

PAREX STANDARD SYSTEM, LAHABRA INSUL-FLEX STANDARD SYSTEM AND EL REY INSUL-FLEX STANDARD SYSTEM (STANDARD SYSTEMS)
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1.0 EVALUATION SCOPE
Compliance with the following codes:

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>Fire-resistance-rated construction</td>
<td>7</td>
<td>R3</td>
</tr>
<tr>
<td>Weather resistance</td>
<td>14</td>
<td>R7</td>
</tr>
<tr>
<td>Special inspections</td>
<td>17</td>
<td>NA</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>NA</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>26</td>
<td>R3</td>
</tr>
<tr>
<td>Ignition resistance</td>
<td>26</td>
<td>NA</td>
</tr>
</tbody>
</table>

2.0 USES
The Standard Systems are 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 may be used in fire-resistance-rated construction and any construction Type (IBC Types I through V), with the exception of Type V, framed walls in a Group 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. The Standard Systems consists of an optional water-resistive barrier coating, adhesively applied EPS, reinforcing mesh, base coat and finish coat.

3.2 Insulation Board:
Insulation board must be one of the following:
- EPS insulation board must comply with ASTM C578, Type I, and ASTM E2430 and must be produced by a molder with a current evaluation report.
- 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.

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 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
- 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 Standard Systems must be installed in accordance with the manufacturer’s installation instructions, specifications and details available at www.parexusa.com.
4.2 Drainage Options:
The Standard Systems have not been qualified as an EIFS with drainage, as described in 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 of a qualified design professional.

4.4 Weather Protection:
The Standard Systems comply with 2018 IBC Section 1403.2 [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:
Table 5 describes the assemblies qualified for use in nonload-bearing fire-resistance-rated construction (the assemblies are rated from both sides, therefore the exterior wall does not require a minimum fire separation distance from adjacent construction as specified in IBC Section 705.5). In addition, in Type V construction, the Standard Systems 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 Type V exterior wall must have a minimum 10-foot (3048 mm) separation distance from adjacent construction.

4.7 Special Inspections:
For recognition under the IBC, special inspections must be conducted in accordance with the 2018 and 2015 IBC Section 1705.16 (2012 IBC Section 1705.15, 2009 IBC Section 1704.14). Refer to the Parex USA, Inc., Third Party Inspection Guidelines for verifying field preparation of materials.

5.0 CONDITIONS OF USE
The Standard Systems described in this report comply with, or are 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 installation instructions and the applicable code. In the event of a conflict between the manufacturer’s instructions and this report, this report governs.

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

5.3 Use in Type V framed construction in Occupancy Groups R1, R2, R3 and R4 is not permitted.

5.4 Installation must be by applicators listed by Parex USA, Inc.

5.5 Termination of the systems must not be less than 6 inches (152 mm) above finished grade in accordance with the 2018 and 2015 IBC Section 2603.8 (2012 IBC Section 2603.9, 2009 IBC Section 2603.8) and the IRC Section R318.4 and the 2018 and 2015 IRC Section R703.9.1 (2012 and 2009 IRC Section R703.9.4.1).

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).

7.0 IDENTIFICATION

7.1 Each container or package of the coating or reinforcing mesh used as part of the Standard Systems must be labeled with the Parex USA, 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-2563). 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 3.2.2.

7.2 The report holder’s contact information is the following:
PAREX USA, INC.
4125 EAST LA PALMA AVENUE, SUITE 250
ANAHEIM, CALIFORNIA 92807
(714) 333-3269
www.parexusa.com

**TABLE 1—SYSTEM COMPONENTS**

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>WATER-RESISTIVE BARRIER (optional)</th>
<th>ADHESIVE</th>
<th>BASE COAT</th>
<th>REINFORCING MESH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Systems</td>
<td>WeatherSeal Spray &amp; Roll-On</td>
<td>Parex 121, Parex 302ABC-N1, Parex 303, Parex 395, Keycoat, Insul-Bond LaHabra Sheathing Adhesive, or El Rey Sheathing Adhesive</td>
<td>Parex 121, or Parex Base Coat and Adhesive 301, or Parex Base Coat and Adhesive 302 ABC-N1, or Insul-Bond</td>
<td>Standard Reinforcing Mesh, 4.5 oz/yd², minimum¹</td>
<td>DPR Acrylic Finish 300 Series DPR Acrylic Finish 500 Series DPR Optimum Finish, LaHabra Perma-Finish, El Rey Perma-Flex DPR Finish</td>
</tr>
</tbody>
</table>

¹Higher weight meshes are allowable.
### TABLE 2—SUBSTRATES

<table>
<thead>
<tr>
<th>ADHESIVE</th>
<th>SUBSTRATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parex 121, Insul-Bond</td>
<td>WeatherSeal Spray &amp; Roll-On Water-resistive Barrier</td>
</tr>
<tr>
<td>Parex Base Coat and Adhesive 302 ABC-N1</td>
<td>All substrates noted in Section 3.3 except Plywood and OSB</td>
</tr>
<tr>
<td>Parex 303 Adhesive, LaHabra Sheathing Adhesive, El Rey Sheathing Adhesive</td>
<td>ASTM C1396 Sheathing</td>
</tr>
<tr>
<td>Parex 395 Keycoat</td>
<td>ASTM C1177 Sheathing</td>
</tr>
</tbody>
</table>

All substrates noted in Section 3.3 except Plywood and OSB

### TABLE 3—WIND LOAD DESIGN

<table>
<thead>
<tr>
<th>FRAMING</th>
<th>SUBSTRATE</th>
<th>EPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Max. Spacing (inch)</td>
<td>EPS Minimum Thickness (inch)</td>
</tr>
<tr>
<td>2x4 Wood</td>
<td>16</td>
<td>Any substrate noted in Section 3.3; attached to wood framing with 1 1/4 inch, No. 6 bugle-head Type W screws at 6 inches on center along studs; or to steel framing with 1 1/4 inch, No. 8, wafer-head type S screws, spaced 8 inches on center along studs. Fastener length must be increased by the addition sheathing thickness for sheathing greater than 1/2 inch.</td>
</tr>
<tr>
<td>3 1/2-inch-by-No. 20 gage-steel</td>
<td>N/A</td>
<td>Concrete, or Concrete-masonry</td>
</tr>
</tbody>
</table>

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

1Minimum 2x4 Wood Framing, minimum specific gravity 0.42.
2Maximum positive pressure is limited to the capacity of the concrete or concrete masonry substrate, determined in accordance with the applicable code.
3The framing members must be designed to resist all positive and negative transverse design loads with a maximum allowable deflection of 1/320 of the span.

### TABLE 4—ASSEMBLIES FOR USE IN TYPES I THROUGH IV CONSTRUCTION

<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING</th>
<th>EXTERIOR SHEATHING</th>
<th>Insulation Board Thickness Maximum (inches)</th>
<th>Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>Min. Depth</td>
<td>Min. Gage</td>
<td>Max. Spacing (inches)</td>
<td>Type</td>
</tr>
<tr>
<td>35/8&quot; No. 18</td>
<td>0.0428 inch</td>
<td>16 o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>35/8&quot; No. 20</td>
<td>0.0320 inch</td>
<td>16 o.c.</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

1Fasteners are minimum No. 6, 1 1/4-inch-long corrosion-resistant steel, Type S, self-drilling buglehead screws.
2Fasteners are minimum No. 8, 1 1/4-inch-long corrosion-resistant steel, Type S, self-drilling buglehead screws.
3Where the sheathing exceeds 1/4 inch in thickness, the screw length must be increased by the additional sheathing thickness.
4All joints must be taped and treated with joint compound. Intermediate fastener heads are treated with joint compound in accordance with ASTM C840 or GA216.
5Openings must be frame with minimum 0.0428-inch-thick steel framing.
6At floor levels, Thermafiber insulation batts must be fitted between studs. Insulation density must be a nominal 4 pcf. Batts may be either friction-fitted or supported.
## TABLE 5—FIRE-RESISTANCE-RATED ASSEMBLIES\(^2,3\)

<table>
<thead>
<tr>
<th>Framing Members</th>
<th>Sheathing (Interior and Exterior)</th>
<th>Insulation Board Thickness Maximum (inches)</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3(^{5/8})^*</strong></td>
<td>Metal 20 [0.0320 inch] Max. Spacing 16&quot; o.c. Type X FR Gypsum Wallboard(^1)</td>
<td>8 inches (203 mm) on center along the perimeter and 12 inches (305 mm) on center on all intermediate studs.</td>
<td>4 1 hour</td>
</tr>
<tr>
<td></td>
<td>Min. Thickness 5/8&quot;</td>
<td>Max. Fastener Spacing Layer 1: 16 inches (406 mm) on center at the stud locations Layer 2 (interior): 16 inches (406 mm) on center. Layer 2 (exterior): 8 inches (203 mm) on center</td>
<td>Fastener No. 6 by 1 1/2-inch-long (32 mm), self-tapping, bugle Phillips head drywall screws</td>
</tr>
<tr>
<td></td>
<td>Insulation Board</td>
<td></td>
<td>Layer 1: 6 by 1 1/2-inch-long (32 mm), self-tapping, bugle Phillips head drywall screws Layer 2 (interior): No 6 by 1 1/2-inch-long (48 mm), self-tapping, bugle Phillips head drywall screws Layer 2 (exterior): g No. 6 by 1 1/2-inch-long (48 mm), self-tapping, bugle Phillips head drywall screws</td>
</tr>
<tr>
<td></td>
<td>Type</td>
<td>3(^{5/8})^*</td>
<td>2 hour</td>
</tr>
<tr>
<td></td>
<td>Min. Gage</td>
<td>3(^{5/8})</td>
<td>2 hour</td>
</tr>
<tr>
<td></td>
<td>Min. Gage</td>
<td>3(^{5/8})</td>
<td>2 hour</td>
</tr>
<tr>
<td></td>
<td>Min. Gage</td>
<td>3(^{5/8})</td>
<td>2 hour</td>
</tr>
</tbody>
</table>

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


\(^3\)Rated from both sides.
1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that the Standard Systems, recognized in ICC-ES master evaluation report ESR-2563, 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 Standard Systems, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2563, comply with the Florida Building Code—Building and the Florida Building Code—Residential, provided the design and installation are in accordance with the International Building Code® (IBC) provisions noted in the master report. and the following conditions apply:

1. Design wind loads must be based on Section 1609 of the Florida Building Code—Building or Section 301.2.1 of the Florida Building Code—Residential, as applicable.
2. Load combinations must be in accordance with Section 1605 of the Florida Building Code—Building, as applicable.
3. 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 Standard 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 supplemental 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 March 2019, revised June 2019.