DIVISION: 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:

PAREX USA, INC.

EVALUATION SUBJECT:

PAREX WATERMASTER GX SYSTEM, PAREX STANDARD WATERMASTER SYSTEM,  
PAREX USA MASONRY VENEER SYSTEM, LAHABRA INSUL-FLEX WATERMASTER  
sYSTEM AND EL REY INSUL-FLEX WATERMASTER SYSTEM

“2014 Recipient of Prestigious Western States Seismic Policy Council  
(WSSPC) Award in Excellence”  

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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:

PAREX USA, INC.

EVALUATION SUBJECT:

PAREX WATERMASTER GX SYSTEM, PAREX STANDARD WATERMASTER SYSTEM, PAREX USA MASONRY VENEER SYSTEM, LAHABRA INSUL-FLEX WATERMASTER SYSTEM AND EL REY INSUL-FLEX WATERMASTER SYSTEM

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:


1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11

Attributes verified:
See Section 3.1

2.0 USES

The Parex WaterMaster GX system, the Parex Standard WaterMaster system, the Parex USA Masonry Veneer System, the LaHabra Insul-Flex WaterMaster system and El Rey Insul-Flex WaterMaster system are exterior insulation and finish systems (EIFS) complying with 2018 Section 1407 [2015, 2012 and 2009 IBC Section 1408] and IRC Section R703.9. The systems comply with the requirements of 2018 IBC Section 1407 [2015, 2012, and 2009 IBC Section 1408.4.1] and IRC Section R703.9 as EIFS with drainage.

These systems may be used in fire-resistance-rated construction as set forth in Table 4 and any construction Type (IBC Types I through V) when installed in accordance with this report as set forth in Table 3.

3.0 DESCRIPTION

3.1 System Components:

See Table 1. The WaterMaster GX, Standard WaterMaster, LaHabra Insul-Flex WaterMaster and El Rey Insul-Flex WaterMaster systems consist of a water-resistive coating, adhesively applied EPS, reinforcing mesh, base coat and finish coat. The Masonry Veneer System consists of a water-resistive coating, adhesively applied EPS, reinforcing mesh, base coat, veneer adhesive, precast stone veneer and grout. The system also incorporates mechanical fasteners with washers when used on buildings of Types I through IV construction.

The attributes of the water-resistant coating have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 and (ii) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; (iii) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (iv) ICC 700-2008 Section 602.9 for water-resistive barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon
meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 Insulation Board:
The insulation board must be one of the following:

a. Parex, LaHabra and El Rey WaterMaster Insulation Boards are expanded polystyrene complying with ASTM C578, Type I, and ASTM E2430; has a flame-spread index of 75 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 of UL723; is produced by a molder that participates in an approved third-party quality-assurance program; and is labeled in accordance with Section 7.0 of this report. WaterMaster GX system insulation boards must have 1/2-inch-deep-by-1 1/2-inch-wide (3.2 mm by 38 mm) corrugations across the width of the board in accordance with Section 4.2.

b. EPS insulation board may be produced by a molder with a current evaluation report stating conformance to ASTM E2430 and is labeled in accordance with the applicable report.

c. EPS insulation boards may be produced under a quality-control program with an approved agency, provided the boards are listed for compliance with ASTM C578, Type I; compliance with ASTM E2430; demonstrate a flame-spread index of 75 or less and a smoke-developed index of 450 or less, when tested in accordance with ASTM E84 or UL723; and are labeled in accordance with Section 7.0 of this report.

3.3 Substrates:

- 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:
Parex USA, Inc., EIF systems shall be installed in accordance with the manufacturer’s installation instructions, specifications and details available for the Standard WaterMaster System and Masonry Veneer System at http://www.parexusa.com and for the WaterMaster GX System, the LaHabra Insul-Flex WaterMaster system and El Rey Insul-Flex WaterMaster system at http://www.parexusa.com.

4.2 Drainage Options:
- Parex WaterMaster GX system: channeled insulation board
- Parex Standard, Parex USA Masonry Veneer System, LaHabra and El Rey WaterMaster system: vertical ribbons of adhesive with flat insulation boards

4.3 Wind Design:
Table 2 presents specific assemblies for which test data have 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 Parex Standard WaterMaster, Parex USA Masonry Veneer System, Parex WaterMaster GX, LaHabra Insul-Flex WaterMaster and El Rey Insul-Flex WaterMaster systems 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 through IV Construction:
Table 3 describes the assemblies qualified for use in Types I through IV construction on exterior walls of buildings of any height.

4.6 Fire-resistance-rated Construction:
Table 4 describes the assemblies qualified for use in nonload-bearing fire-resistance-rated construction. In addition, in Type V construction, the Parex WaterMaster GX system, the Parex Standard WaterMaster system, the Parex USA Masonry Veneer System, the LaHabra Insul-Flex WaterMaster system and El Rey Insul-Flex WaterMaster 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.

4.7 Special Inspections:
For recognition under the IBC, special inspections of the water-resistive coating must be conducted in accordance with 2018 and 2015 IBC Section 1705.16.1 [2012 IBC Section 1705.15.1 (2009 IBC Section 1704.14.1)]. Refer to the Parex USA, Inc., Third Party Inspection Guidelines for verifying field preparation of materials.

5.0 CONDITIONS OF USE

The Parex WaterMaster GX system, the Parex Standard WaterMaster system, the Parex USA Masonry Veneer System, the LaHabra Insul-Flex WaterMaster system and El Rey Insul-Flex WaterMaster system 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 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 Installation must be by applicators listed by Parex USA, Inc.

5.4 Termination of the systems must not be less than 6 inches (152 mm) above finished grade in accordance with 2018 and 2015 IBC Section 2603.8 [2012 IBC Section 2603.9 (2009 IBC Section 2603.8)] and IRC Section R318.4.
5.5 The use of the Parex USA Masonry Veneer System must comply with the following:

5.5.1 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 applicable requirements of the precast stone veneer manufacturer's report.

5.5.2 The thickness of the insulation board must not exceed 4 inches (102 mm).

5.5.3 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).

5.5.4 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.

5.5.5 In jurisdictions adopting the IRC, where the applicable limits of 2018 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 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.

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).

6.4 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistant Coatings Used as Water-resistant Barriers over Exterior Sheathing (AC212), dated February 2015 (editorially revised April 2018).

6.5 Reports of testing in accordance with NFPA 285.

6.6 Reports of tests in accordance with ASTM C482 and C273.

7.0 IDENTIFICATION

7.1 Each container or package used as part of the Parex WaterMaster GX system, the Parex Standard WaterMaster system, the Parex USA Masonry Veneer System, the LaHabra Insul-Flex WaterMaster system and El Rey Insul-Flex WaterMaster system 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-1689). Parex, LaHabra and El Rey WaterMaster Insulation Boards must be labeled on the edge of each board with the Parex USA, Inc., name, the plant identification number, and the evaluation report number (ESR-2562). Other foam plastic 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.

Precast stone veneer units used with Parex USA Masonry Veneer System must be labeled in accordance with the requirements of AC51.

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

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TABLE 1—SYSTEM COMPONENTS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>WATER-RESISTIVE BARRIER</th>
<th>ADHESIVE</th>
<th>BASE COAT</th>
<th>REINFORCING MESH¹</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parex Water Master GX</td>
<td>Keycoat 395A</td>
<td>Keycoat 395A</td>
<td>Parex 121</td>
<td>Standard Reinforcing Mesh, 4.5 oz/yd², minimum</td>
<td>DPR Acrylic Finish 300 Series</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DPR Acrylic Finish 500 Series</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>DPR Optimum Finish</td>
<td></td>
</tr>
<tr>
<td>Parex Standard WaterMaster</td>
<td>WeatherSeal Spray &amp; Roll-On</td>
<td>Parex 121</td>
<td>Parex 121</td>
<td>El Rey Perma-Flex DPR Finish</td>
<td></td>
</tr>
<tr>
<td>El Rey Insul-Flex WaterMaster</td>
<td>WeatherSeal Spray &amp; Roll-On</td>
<td>Insul-Bond</td>
<td>Insul-Bond</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>LaHabra Perma-Finish</td>
<td></td>
</tr>
<tr>
<td>LaHabra Insul-Flex WaterMaster</td>
<td>WeatherSeal Spray &amp; Roll-On</td>
<td>Insul-Bond</td>
<td>Insul-Bond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parex USA Masonry Veneer</td>
<td>WeatherSeal Spray &amp; Roll-On</td>
<td>Parex EPS Base Coat &amp; Adhesive</td>
<td>Parex EPS Base Coat &amp; Adhesive</td>
<td>4.5 oz/yd², minimum, or 12 oz/yd² for Types I - IV construction²</td>
<td>Masonry Veneer adhered with Parex USA Masonry Veneer Adhesive³</td>
</tr>
</tbody>
</table>

¹Higher weight meshes are allowable.
²System includes self-drilling screws with minimum 1 1/4-inch-diameter (32 mm) galvanized steel washers secured through the base coat, mesh and foam into framing members. Screw length shall be sufficient to penetrate the studs steel thickness plus three full diameter threads. Spacing must not exceed 36 inches (914 mm) vertically and 16 inches (406 mm) horizontally.
³Masonry veneer must be recognized in a current ICC-ES report as complying with the requirements of AC51.
### TABLE 2—WIND LOAD DESIGN

<table>
<thead>
<tr>
<th>FRAMING</th>
<th>SUBSTRATE</th>
<th>EPS</th>
<th>Allowable Wind Load (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Maximum Spacing (inch)</td>
<td>(Thicknesses are minimums)</td>
<td>EPS minimum Thickness (inch)</td>
</tr>
<tr>
<td>2x4 Wood</td>
<td>16</td>
<td>1(\frac{1}{2}) inch ASTM C1177 glass-mat gypsum sheathing, attached with #6 x 1(\frac{1}{4}) inch buglehead screws at 8-inches on center, or Plywood sheathing attached in accordance with the code</td>
<td>1</td>
</tr>
<tr>
<td>3(\frac{5}{8})-inch-by-No. 20 gage-steel</td>
<td>16</td>
<td>1(\frac{1}{2}) inch ASTM C1177 glass-mat gypsum sheathing, attached with #6 x 1(\frac{1}{4}) inch buglehead screws at 6-inches on center</td>
<td>1</td>
</tr>
<tr>
<td>2x4 Wood</td>
<td>16</td>
<td>1(\frac{1}{2}) inch ASTM C1177 glass-mat gypsum sheathing, attached with #6 x 1(\frac{1}{4}) inch buglehead screws at 6-inches on center</td>
<td>1</td>
</tr>
<tr>
<td>2x4 Wood</td>
<td>16</td>
<td>7/16 inch OSB or plywood sheathing attached with 7d x 2(\frac{1}{4}) inch nails at 8-inches on center</td>
<td>1</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>Concrete, or Concrete-masonry</td>
<td>1</td>
</tr>
</tbody>
</table>

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

- Minimum 2x4 Wood Framing, minimum specific gravity 0.42.
- Maximum positive pressure is limited to the capacity of the concrete or concrete masonry substrate, determined in accordance with the applicable code.
- 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 3—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>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>Max. Depth (inches)</td>
<td>Min. Spacing (inches)</td>
<td>Type</td>
</tr>
<tr>
<td>Parex Water Master GX, Parex Standard WaterMaster, LaHabra Insul-Flex WaterMaster and El Rey Insul-Flex WaterMaster System2</td>
<td>3(\frac{5}{8})</td>
<td>20</td>
<td>16 o.c.</td>
</tr>
<tr>
<td>Parex USA Masonry Veneer System2,3</td>
<td>3(\frac{5}{8})</td>
<td>18</td>
<td>16 o.c.</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

- Fasteners are minimum No. 6, 18-thread-per-inch, minimum 1\(\frac{1}{4}\)-inch-long corrosion-resistant steel, self-drilling buglehead screws.
- Coating system is as described in Table 1.
- System includes self-drilling screws with minimum 1\(\frac{1}{4}\)-inch-diameter (32 mm) galvanized steel washes secured through the base coat, mesh and foam into framing members. Screw length shall be sufficient to penetrate the studs steel thickness plus three full diameter threads. Spacing must not exceed 36 inches (914 mm) vertically and 16 inches (406 mm) horizontally.
### TABLE 4—FIRE-RESISTANCE-RATED ASSEMBLIES

<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING</th>
<th>EXTERIOR SHEATHING</th>
<th>INSULATION BOARD THICKNESS MAXIMUM (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Depth (inches)</td>
<td>Min. Gage</td>
<td>Max. Spacing (inches)</td>
<td>Type</td>
</tr>
<tr>
<td>-----------------</td>
<td>Min. Gage</td>
<td>Max. Spacing (inches)</td>
<td>Type</td>
</tr>
<tr>
<td>Parex Water Master GX, Parex Standard WaterMaster, LaHabra Insul-Flex WaterMaster and El Rey Insul-Flex WaterMaster System²</td>
<td></td>
<td></td>
<td>Type X Gypsum Wallboard¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Type X Gypsum Wallboard¹</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm.

¹Fasteners are No. 6 x 1 1/4 inch buglehead screws.
²Coating systems are any of the Parex systems as described in Table 1.
³Rated from both sides.
⁴System includes self-drilling screws with minimum 1 1/4-inch-diameter (32 mm) galvanized steel washes secured through the base coat, mesh and foam into framing members. Screw length shall be sufficient to penetrate the studs steel thickness plus three full diameter threads. Spacing must not exceed 36 inches (914 mm) vertically and 16 inches (406 mm) horizontally.
DIVISION: 07 00 00—THERMAL MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems
Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:
PAREX USA, INC.

EVALUATION SUBJECT:
PAREX WATERMASTER GX SYSTEM, PAREX STANDARD WATERMASTER SYSTEM, PAREX USA MASONRY VENEER SYSTEM, LAHABRA INSUL-FLEX WATERMASTER SYSTEM AND EL REY INSUL-FLEX WATERMASTER SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that the Parex WaterMaster GX System, Parex Standard WaterMaster System, Parex USA Masonry Veneer System, LaHabra Insul-Flex WaterMaster System and El Rey Insul-Flex WaterMaster System, recognized in ICC-ES master evaluation report ESR-2562, have 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 Parex WaterMaster GX System, the Parex Standard WaterMaster System, the Parex USA Masonry Veneer System, the LaHabra Insul-Flex WaterMaster System and the El Rey Insul-Flex WaterMaster System, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2562, 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® provisions noted in the master report and the following conditions apply:

- 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.
- Load combinations must be in accordance with Section 1605.2 or Section 1605.3 of the Florida Building Code—Building, as applicable.
- 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 Parex WaterMaster GX System, Parex Standard WaterMaster System, Parex USA Masonry Veneer System, LaHabra Insul-Flex WaterMaster System and El Rey Insul-Flex WaterMaster 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 August 2018 and revised June 2019.