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ICC-ES Evaluation Report
ESR-2861

Reissued September 2022
Revised February 2023
This report is subject to renewal September 2023.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems

REPORT HOLDER:

PAREX USA, INC.

EVALUATION SUBJECT:

TEIFSFLEX AND TEIFSAIRTIGHT SYSTEMS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012 and 2009 *International Building Code®* (IBC)
- 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)

Properties evaluated:

PROPERTY	IBC CHAPTER	IRC CHAPTER
Weather resistance	14	R7
Structural – transverse wind load resistance	16	R6
Fire-resistance-rated construction	7	R3
Types I–IV (noncombustible construction)	26	NA
Ignition resistance	26	NA
Special Inspections	17	NA
Exterior insulation and finish systems (EIFS)	14	R7
Surface burning characteristics	26	R3

2.0 USES

The TeifsFlex and TeifsAirtight Systems are exterior insulation and finish systems (EIFS) complying with 2018 IBC Section 1407 [2015, 2012 and 2009 IBC Section 1408] and IRC Section R703.9. The systems may be used 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 systems are limited to use on concrete or masonry walls.

3.0 DESCRIPTION

3.1 System Components:

See Table 1.

3.2 Insulation Board:

Insulation board must comply with either Section 3.2.1 or 3.2.2. Also, the foam 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, at a maximum thickness of 4 inches (101 mm).

3.2.1 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.

3.2.2 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, and be labeled in accordance with the code.

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; and
- 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 TeifsFlex and TeifsAirtight Systems must be installed in accordance with the manufacturer's installation instructions,

specifications and details available at www.teifs.com in the Systems and Products section under the 07240 EIFS subsection.

4.2 Drainage Options:

The TeifsFlex and TeifsAirtight 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 (see Table 2):

Table 2 lists 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 qualified design professional.

4.4 Weather Protection:

The TeifsFlex and TeifsAirtight 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 lists the assemblies qualified for use in Types I through IV construction.

4.6 Fire-resistance-rated Construction:

Table 4 lists the assemblies qualified for use in nonload-bearing fire-resistance-rated construction. In addition, in Type V construction, the TeifsFlex and TeifsAirtight Systems 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 must be conducted in accordance with 2018 and 2015 IBC Section 1705.16, 2012 IBC Section 1705.15 and 2009 IBC Section 1704.14 of the code. Refer to the Parex USA, Inc., Third Party Inspection Guidelines for verifying field preparation of materials.

5.0 CONDITIONS OF USE

The TeifsFlex and TeifsAirtight Systems 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 and 2009 IBC Section 2603.8 and IRC Section R318.4.

6.0 EVIDENCE SUBMITTED

6.1 Reports of tests in accordance with ASTM E2568.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Exterior Insulation and Finish Systems (AC219), dated October 2009 (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 TeifsFlex and TeifsAirtight 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-2861). 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.
2150 EASTRIDGE AVENUE
RIVERSIDE, CALIFORNIA 92507
(714) 333-3269
www.parexusa.com

TABLE 1—SYSTEM COMPONENTS

System	Water-Resistive Barrier	Adhesive (Attachment)*	Base Coats	Reinforcing Mesh (oz/yd^2)	Finish
TeifsFlex	(Optional) WeatherSeal Trowel-On WeatherSeal Spray & Roll-On	Teifs Base TeifsAdheeze Mechanical Fastener	TeifsBase TeifsBase DB	Standard 4.8 oz/yd^2 Standard Extra 6.0 oz/yd^2 Intermediate 12.0 oz/yd^2 Heavy 15.0 oz/yd^2 Heavy Plus 20.0 oz/yd^2	TeifsFlex Finish TeifsDPR Finish
TeifsAirtight	WeatherSeal Trowel-On WeatherSeal Spray & Roll-On				

For **SI:** 1 oz/yd^2 = 33.9 g/m^2.

TABLE 1a—SUBSTRATES

Adhesive*	Substrates
TeifsBase	TeifsWeatherseal or Weatherseal Roll-On All substrates except Plywood and OSB
TeifsAdheeze	Plywood and OSB TeifsWeatherseal or Weatherseal Roll-On ASTM C1396 Sheathing ASTM C1177 Sheathing

TABLE 2—WIND LOAD DESIGN (ADHESIVELY ATTACHED WITH OPTIONAL WRB)

Framing Members				Sheathing			Wind Load Capacity (ultimate)	Min. EPS Thickness (inches)
Wood[1]	Metal		Maximum Spacing (inches o.c.)	Type	Min. Thickness (inch)	Maximum Fastener Spacing (inches o.c)	Neg.	
	Min. Depth (inches)	Min. Gage						
	$3^5/_8$	20	24	ASTM C1396	$^5/_8$	8	108	2
	$3^5/_8$	20	16	ASTM C1396	$^1/_2$	6	93	$^3/_4$
	$3^5/_8$	20	24	ASTM C1396	$^5/_8$	6	66	$^3/_4$
X			16	Wood Structural panel	$^7/_{16}$	* [1]	87	$1^1/_2$
X			16	ASTM C1396	$^1/_2$	6	111	$^3/_4$
X			16	ASTM C1396	$^5/_8$	6	108	$^3/_4$
X			24	ASTM C1396	$^1/_2$	6	72	$^3/_4$
X			24	ASTM C1396	$^5/_8$	6	78	$^3/_4$

For **SI:** 1 inch = 25.5 mm.

[1]Minimum 2 x 4 and Specific Gravity of 0.42.
[2]Framing must be designed to resist the applied forces and be limited to a deflection of L/240.

TABLE 2a—WIND LOAD DESIGN (MECHANICALLY FASTENED SYSTEM W/ OPTIONAL BUILDING PAPER)

Framing Members				Sheathing			Wind Load Capacity (ultimate)	Min. EPS Thickness (inches)
Wood	Metal		Maximum Spacing (inches)	Type	Min. Thickness (inch)	Maximum Fastener Spacing (inches o.c)	Neg.	
	Min. Depth (inches)	Min. Gage						
X[1]			16 o.c.	Wood Structural panel	$^7/_{16}$	* [1]	87	$1^1/_2$
	$3^5/_8$	20	16 o.c.	ASTM C1396	$^1/_2$	6	60	$^3/_4$
	$3^5/_8$	18	16 o.c.	ASTM C1396	$^1/_2$	6	78	$^3/_4$

For **SI:** 1 inch = 25.5 mm.

[1]The insulation board is attached to the wood-based sheathing with a minimum of eight fasteners for insulation boards greater than 2 by 2 feet, but not exceeding 2 by 4 feet. A minimum of five fasteners must be used for insulation boards not exceeding 2 feet by 2 feet.
[2]Framing must be designed to resist the applied forces and be limited to a deflection of L/240.

Note: Maximum positive wind pressure for the TeifsFLEX system applied to concrete masonry, brick or concrete is governed by the structural capacity of the substrate
For Teifs systems applied to concrete masonry, brick or concrete, the maximum allowable negative wind pressure is 57 psf (2.7 kN/m^2).

TABLE 3—ASSEMBLIES FOR USE IN TYPES I THROUGH IV CONSTRUCTION

Framing Members			Interior Sheathing			Exterior Sheathing			Insulation Board Thickness Maximum (inches)	Assembly
Metal		Max. Spacing (inches)	Type	Min. Thickness (inch)	Max. Fastener Spacing (inches)	Type	Min. Thickness (inch)	Max. Fastener Spacing[1] (inches)		
Min. Depth	Min. Gage									
$3^5/_8$"	18	24 o.c.	ASTM C36 or ASTM C1396 Type X	$^5/_8$"	8 o.c.	ASTM C1396	$^5/_8$	8" o.c. along all studs	4	Water-resistive Barrier Coating (Optional): WeatherSeal Trowel-On WeatherSeal Spray & Roll-On Adhesive: TeifsBase Base Coat: TeifsBase Finish Coat: Any
$3^5/_8$"	18	16 o.c.	ASTM C36 or ASTM C1396 Type X	$^5/_8$"	8 o.c.	ASTM C1396	$^1/_2$	6" o.c. along all studs	4	

For **SI:** 1 inch = 25.5 mm.

[1]S-12 steel screws.

TABLE 4—ONE-HOUR FIRE-RESISTANCE-RATED ASSEMBLIES

Framing Members			Sheathing (Interior and Exterior)[1]				Insulation Board Thickness Maximum (inches)	Assembly
Metal		Max. Spacing (inches)	Type	Min. Thickness (inch)	Max. Fastener Spacing	Fastener		
Min. Depth	Min. Gage							
$3^5/_8$"	25	24 o.c.	ASTM C1396 Type X	$^5/_8$	8 inches on center along the vertical edges of the wallboard and 12 inches on center to the top track, bottom track and intermediate studs	No. 6 by 1-inch-long buglehead drywall screws	4	Water-resistive Barrier Coating(Optional): WeatherSeal Trowel-On WeatherSeal Spray & Roll-On Adhesive: TeifsBase Base Coat: TeifsBase Finish Coat: Any

For **SI:** 1 inch = 25.5 mm.

[1]All joints are taped and treated with joint compound. Intermediate fastener heads are treated with joint compound in accordance with ASTM C840 or GA216.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that TeifsFlex and TeifsAirtight systems, described in ICC-ES evaluation report ESR-2861, have also been evaluated for compliance with the codes noted below.

Applicable code edition*(s)*:

- 2019 *California Building Code* (CBC)

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

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The TeifsFlex and TeifsAirtight systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-2861, comply with CBC Chapters 7, 14 and 26, provided the design and installation are in accordance with the 2018 *International Building Code®* (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 16 and 17, as applicable.

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

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

2.2 CRC:

The TeifsFlex and TeifsAirtight systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-2861, comply with CRC Chapters 3 and 7, provided the design and installation are in accordance with the 2018 *International Residential Code®* (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued September 2022 and revised February 2023.