ICC-ES Evaluation Report

ESR-1844

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This report remains under an active continuous compliance program through the end of November 2027.

This report also contains:

- **CA Supplement w/ DSA and OSHPD and Exterior Wildfire Exposure**
- **FL Supplement**
- **IWUIC Supplement**

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DIVISION: 06 00 00 — WOOD, PLASTICS AND COMPOSITES **Section: 06 16 00 — Sheathing** **DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION** **Section: 07 46 46 — Fiber-Cement Siding**	**REPORT HOLDER:** **JAMES HARDIE BUILDING PRODUCTS, INC.**	**EVALUATION SUBJECT:** **HARDIE® PANEL (PREVAIL®, CEMPANEL®) SIDING, HARDIE® ARCHITECTURAL PANELS, HARDIFLEX® SIDING AND HARDITEX BASEBOARD, HARDIE® SOFFIT & PANEL**	

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code®* (IBC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)
- 2006 *International Energy Conservation Code®* (IECC)
- 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.

Property evaluated:

- Weather protection
- Structural
- Noncombustible (Types I, II, III and IV) construction
- Fire-resistance-rated construction
- Thermal resistance

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

- 2025 *California Green Building Standards Code (CALGreen)*, Title 24, Part 11
- 2025, 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2025, ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)
- 2024, 2021, 2018, 2015 and 2012 *International Green Construction Code®* (IgCC)
- 2023, 2020, 2017, 2014 and 2011 ANSI/ASHRAE/USGBC/IES Standard 189.1 – Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings

Attributes verified:

See Section 3.0

2.0 USES

The James Hardie fiber-cement panels described in this report are used as exterior wall coverings. The panels may be used in fire-resistance-rated construction as set forth in Section 4.3 and may be used on exterior walls of Types I, II, III, IV and V construction.

The James Hardie fiber-cement panels described in this report may also be used as soffit panels and comply with 2024 IBC Section 1412.4.

3.0 DESCRIPTION

3.1 General:

The panels are single-faced, cellulose fiber–reinforced cement (fiber-cement) products identified as Hardie® Panel (Prevail®, Cempanel®) panel siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel siding and Harditex® Baseboard; the panels are supplied either coated or uncoated for subsequent application of a compatible exterior-grade top coat. Nominal product dimensions are noted in Table 1.

The panels comply with ASTM C1186, Grade II, Type A. They have a nominal density of 83 lbs/ft^3 (1332 kg/m^3); a flame-spread index of 0 and a smoke-developed index of 5 or less when tested in accordance with ASTM E84; and are classified as noncombustible when tested in accordance with ASTM E136. Thermal conductance (*K*) and thermal resistance (*R*) values for the panels are as shown in Table 2. When tested in accordance with ASTM E96, products with a thickness of $^1/_4$ inch (6.4 mm) and $^5/_{16}$ inch (7.5 mm) have permeance values given in Table 3.

The attributes of the fiber-cement sidings have been verified as conforming to the provisions of ICC 700-2025, ICC 700-2020, ICC 700-2015 and ICC-700-2012 Sections 602.1.6 and 11.602.1.6 (termite-resistant materials); (ii) ICC 700-2008 Section 602.8 (termite-resistant materials); (iii) CALGreen Section A4.405.1.3 (prefinished materials) and A5.406.1.2 (reduced maintenance); (iv) ICC 700-2025 and ICC 700-2020 Sections 601.7 and 11.601.7 (prefinished materials); (v) ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7 and 12.1(A).601.7 (prefinished materials); (vi) ICC 700-2008 Section 601.7 (prefinished materials); (vii) ICC 700-2025 and ICC 700-2020 Sections 611.1.2 and 11.611.1.2 (Product Specific Declarations); (viii) ICC 700-2015 Sections 611.4.2 and 11.611.4.2 (Product Specific Declarations); (ix) 2024 IgCC Section 901.4.2; (x) 2021 and 2018 IgCC Section 901.4.1.4.2 (Product Specific Declarations); (xi) 2015 IgCC Section 505.4.1 (Product Specific Declarations); (xi) 2023 ASHRAE 189.1 Section 9.4.2; (xii) and 2020 and 2017 ASHRAE 189.1 Section 9.4.1.4.2 (Product Specific Declarations). The users are advised of the project-specific provisions that may be contingent upon meeting specific condition, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

Note: The Environmental Product Declaration (EPD) provided to ICC-ES was verified by a Program Operator other than ICC-ES. ICC-ES makes no claims or warranties regarding the contents of the EPD provided. Please contact the report holder to obtain a copy of the EPD and confirm its validity; see Section 7.0 for the report holder's contact information.

3.2 Materials:

3.2.1 Hardie® Panel (Prevail®, Cempanel®) Siding: Hardie® Panel Prevail®, Cempanel® siding is available with various surface textures including smooth. Nominal product dimensions are noted in Table 1 of this report.

3.2.2 Hardie® Architectural Panels: Hardie® Architectural Panels are available as non-grooved or as grooved panels with various surface textures. Nominal product dimensions are noted in Table 1 of this report (see note 1 in Table 1 regarding nominal dimensions of grooved panels).

3.2.3 Hardie® Soffit & Panel: Hardie® Soffit & Panel is available with various surface textures including smooth. Hardie® Soffit & Panel is intended to be used in board and batten applications on vertical wall surfaces. Hardie® Soffit & Panel may also be used as unvented soffit panels in accordance with ICC-ES ESR-2273. Nominal product dimensions are noted in Table 1 of this report.

3.2.4 Hardiflex® Siding: Hardiflex® siding is available in various textures including smooth. Nominal product dimensions are noted in Table 1 of this report.

3.2.5 Harditex® Baseboard: Harditex® Baseboard is used as a starter strip for exterior applications of walls and soffits. Harditex® Baseboard has an untextured finish and is available with either tapered or trough edges on the two long sides for joint treatment or all square edges. Harditex® Baseboard is supplied either sealed or

unsealed for the subsequent application of a primer or sealer by the end user as a component in a direct-applied exterior coating or finish system. Nominal dimensions are noted in Table 1 of this report.

3.3 Fasteners:

Fastener type, size and spacing must be as shown in Tables 4 through 17.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The maximum basic wind speeds for positive and negative transverse load resistance are presented in Tables 4 through 17 as follows:

Product	Installation Method	Table No.
Hardiflex® Hardie® Panel (48")	Over wood framing	4
	Over steel framing	5
Hardiflex® Hardie® Panel (16" and 48")	Over wood framing and steel framing	6
Hardiflex® Hardie® Panel (48") w/ Harditex® Baseboards	Over wood framing	7
Hardie® Panel (48")	Over steel framing	8
	Over wood framing	
	Over wood structural sheathing	
Hardie® Panel (16")	Over wood framing and wood structural sheathing	9
Hardie® Panel (16" and 48")	Over wood framing and steel framing	10
Hardie® Architectural Panels (non-grooved)	Over wood framing	11
	Over wood structural sheathing	12
Hardie® Architectural Panels (grooved)	Over wood framing and wood structural sheathing	13
	Over steel framing	14
Hardie® Soffit & Panel w/ Hardie Trim Battens	Over wood structural sheathing	15
	Over wood framing	16
Hardie® Soffit & Panel	Over all frame types	17

4.2 Installation:

4.2.1 General: The manufacturer's published installation instructions and this report must be strictly adhered to and a copy of this report and the instructions must be available on the jobsite during construction. The panels must be installed in accordance with 2024 IBC Section 1404.17 {2021 and 2018 IBC Section 1404.16 [2015, 2012, and 2009 IBC Section 1405.16 (2006 IBC Section 1405.15)]} and 2024, 2021 and 2018 and 2015 IRC Table R703.3 and Section R703.10 (2012, 2009, and 2006 IRC Table R703.4 and Section R703.10), and the manufacturer's installation instructions. For all siding, a water-resistive barrier must be applied over the wood or metal framing or nailable substrates in accordance with Section 1403.2 of the 2024, 2021 and 2018 IBC (Section 1404.2 of the 2015, 2012, 2009 and 2006 IBC) or Section R703.2 of the IRC, as applicable.

Siding may also be installed over exterior continuous foam insulation up to 4 inches (102 mm) thick complying with the *International Energy Conservation Code*® (IECC). Attachment must be in accordance with this report. For insulation thicknesses of $1^5/_8$ inches (41.3 mm) or less, the fastener length must be extended by the thickness of the exterior continuous insulation. For insulation thicknesses greater than $1^5/_8$ inches (41.3 mm), the siding must be attached to furring strips complying with the stud requirements in this report. Furring strip thickness must equal the net penetration of the fastener, and attachment of the furring strips to the wall framing must be designed to withstand the maximum wind speeds in this report. The foam insulation must be evaluated in an ICC-ES evaluation report in accordance with ICC-ES AC377 or ICC 1100 for use on exterior walls, and installation must be in accordance with the evaluation report and manufacturer's installation instructions.

4.2.2 Flashing: Horizontal joints must be flashed with Z-flashing. Fasteners must be installed with a minimum $^3/_8$-inch (9.5 mm) edge distance and a minimum 2-inch (51 mm) clearance from corners.

4.2.3 Hardie® Panel (Prevail®, Cempanel®) Siding: The panels are applied with the long dimension either parallel or perpendicular to framing. Vertical joints are fastened at abutting sheet edges. Vertical joints must occur over framing or wood furring members except where the panels are installed and fastened to wood structural panel sheathing in accordance with Table 4. The vertical joints must be sealed with caulking covered with battens, or must be designed to comply with 2024, 2021 and 2018 IBC Section 1402.2 (2015, 2012, 2009, and 2006 IBC Section 1403.2) and IRC Section R703.1. Where a specified level of wind resistance is required, the panel siding is attached to framing members, furring members, or wood structural panel sheathing, appropriately spaced, with fastener types, lengths, and spacing described in Tables 8 through 10.

4.2.4 Hardie® Architectural Panels: The panels are applied with the long dimension parallel or perpendicular to framing. Vertical joints are fastened at abutting sheet edges. Vertical joints must occur over framing except where the panels are installed and fastened directly to wood structural panel sheathing in accordance with Table 4. The vertical joints must be sealed with caulking, covered with battens, or must be designed to comply with 2024, 2021 and 2018 IBC Section 1402.2 (2015, 2012, 2009, and 2006 IBC Section 1403.2) and IRC Section R703.1. Where a specified level of wind resistance is required, the panel siding is attached to framing members, furring members, or wood structural panel sheathing, appropriately spaced, with fastener types, lengths, and spacing described in Tables 11 through 14.

4.2.5 Hardie® Soffit & Panel: The panels are applied with the long dimension either parallel or perpendicular to framing. Vertical joints are fastened at abutting sheet edges and must occur over a nailable substrate in accordance with Tables 15 through 17. The vertical joints must be sealed with caulking, covered with battens, or must be designed to comply with 2024, 2021 and 2018 IBC Section 1402.2 (2015, 2012, 2009, and 2006 IBC Section 1403.2) and IRC Section R703.1.

4.2.6 Hardiflex® Siding: The panels are applied with the long dimension either parallel or perpendicular to framing and with all panel edges supported by framing. Fasteners must be installed with a minimum $^{3}/_{8}$-inch (9.5 mm) edge distance and a minimum 2-inch (51 mm) clearance from corners. Joints must be fastened at abutting sheet edges. Vertical joints must occur over framing members and must be protected by PVC joint treatment, lumber battens, or sealant. Horizontal joints must be blocked with solid framing. Where a specified level of wind resistance is required, the panel siding is attached to framing members, appropriately spaced, with fastener types, lengths, and spacing as noted in Tables 4 through 7.

4.2.7 Harditex® Baseboard: The panels are applied with the long dimension either parallel or perpendicular to framing and with all panel edges supported by framing. Vertical and horizontal joints must be sealed with a sealant or bedding compound, including any required joint reinforcing mesh or tape, specified by the coating or finish system manufacturer. Where a specified level of wind resistance is required, the baseboard is attached to framing members, appropriately spaced, with fasteners types, lengths, and spacing as noted in Table 7.

4.3 Fire-resistance-rated Assemblies:

4.3.1 Assembly 1—One-hour Asymmetrical Nonload-bearing:

4.3.1.1 Interior Face: The asymmetrical, nonload-bearing, one-hour fire-resistance-rated wall assembly consists of minimum $3^{5}/_{8}$-inch-deep (92 mm), No. 20 gage [0.0359-inch (0.91 mm)] steel “C” studs spaced at a maximum of 24 inches (610 mm) on center, with corresponding top and bottom tracks. One layer of $^{5}/_{8}$-inch-thick (15.9 mm), Type X gypsum board complying with ASTM C1396, 48 inches (1219 mm) wide, is applied vertically to the interior side of the studs and secured with $1^{1}/_{4}$-inch-long (32 mm), Type S, gypsum board screws, spaced 8 inches (203 mm) on center at board edges and 12 inches (305 mm) on center at intermediate framing members. All board joints must be backed by framing members. The $^{5}/_{8}$-inch-thick (15.9 mm) gypsum board joints and screw heads must be finished in accordance with ASTM C840.

4.3.2 Exterior Face: The exterior side of the studs must be covered with one layer of $^{1}/_{2}$-inch-thick (12.7 mm), Type X, water-resistant gypsum board complying with ASTM C1396, followed by one layer of minimum $^{1}/_{4}$-inch-thick (6.4 mm) Hardie® Panel (Prevail®, Cempanel®), or Hardiflex® siding or Harditex® Baseboard or Hardie® Architectural Panels (non-grooved). The Type X gypsum boards must be applied vertically to framing members with vertical edges staggered 24 inches (610 mm). The $^{1}/_{2}$-inch-thick (12.7 mm), Type X gypsum board must be fastened to the framing members with $1^{1}/_{4}$-inch-long (32 mm), Type S, gypsum board screws spaced 24 inches (610 mm) on center. All gypsum board joints must be backed by framing members. Hardie® Panel (Prevail®, Cempanel®), or Hardiflex® siding or Harditex® Baseboards, or Hardie® Architectural Panels (non-grooved) must be fastened through the gypsum board to the framing members with minimum $1^{5}/_{8}$-inch-long 41 mm) by minimum 0.323-inch (8.2 mm) HD self-drilling, corrosion-resistant, ribbed

buglehead or ribbed wafer head screws located a maximum of 8 inches (203 mm) on center. Hardie® Panel (Prevail®, Cempanel®), Hardiflex® siding, Harditex® Baseboard or Hardie® Architectural Panels (non-grooved) joints require treatment similar to that described in Sections 4.2.2, 4.2.3 and 3.2.3, respectively.

4.3.3 Assembly 2—One-hour Nonload-bearing: The nonload-bearing, one-hour, fire-resistance-rated wall assembly consists of minimum $3^5/_8$-inch-deep (92 mm), No. 20 gage [0.0359 inch (0.91 mm)], steel "C" studs spaced at a maximum of 24 inches (610 mm) on center, with corresponding top and bottom tracks. Both sides of the wall must be covered with one layer of $^1/_2$-inch-thick (12.7 mm), Type X gypsum board (interior side)/gypsum sheathing (exterior side) complying with ASTM C1396, followed by one layer of minimum $^1/_4$-inch-thick (6.4 mm) Hardie® Panel (Prevail®, Cempanel®), or Hardiflex® siding, Harditex® Baseboard or Hardie® Architectural Panels (non-grooved). The panels must be applied either perpendicular (horizontally) or parallel (vertically) to framing members. All board joints must be backed by framing. Base layer and face layer board joints of both wall sides must be offset by 24 inches (610 mm). The $^1/_2$-inch-thick (12.7 mm), Type X gypsum board/sheathing must be fastened to the framing members with minimum 1-inch-long (25.4 mm), Type S, gypsum board screws spaced a maximum of 24 inches (610 mm) on center. The panels must be fastened through the gypsum board to the framing members with minimum $1^5/_8$-inch-long (41 mm) by minimum 0.323-inch (8.2 mm) HD self-drilling, corrosion-resistant, ribbed, buglehead or ribbed wafer head screws located a maximum of 8 inches (203 mm) on center. Panel joints and fasteners require treatment similar to that described in Section 4.2.2, 4.2.3 or 4.2.4, of this report.

5.0 CONDITIONS OF USE:

The Hardie® Panel (Prevail®, Cempanel®), or Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel sidings, and Harditex® baseboard products, 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 The panels must be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's instructions, this report governs.

5.2 Design wind loads applied to the siding panels must be determined in accordance with the applicable code and must be equal to, or less than, the allowable loads shown in Tables 4 through 17.

5.3 Use of the products listed in this report as a lateral-force-resisting element of a shear wall that resists wind or seismic forces is beyond the scope of this report. Walls must be braced by other means as required by the applicable code.

5.4 The exterior plank and panel products installed on exterior walls must be installed over a weather- resistive barrier in accordance with applicable codes.

5.5 Flashing must be installed at all penetrations and terminations in accordance with the applicable code and the manufacturer's instructions.

5.6 Under 2024 IBC Section 1402.6 [2021 and 2018 IBC Section 1402.5 (2015 and 2012 IBC Section 1403.5)], where a combustible water-resistive barrier is used, installation on exterior walls on buildings of Type I, II, III or IV construction that are greater than 40 feet (12 192 mm) in height above grade plane and that contain a combustible water-resistive barrier must be shown to comply with NFPA 285, except as permitted under Exception 2 of 2024 IBC Section 1402.6 [2021 and 2018 IBC Section 1402.5 (2015 IBC Section 1403.5)].

5.7 The products are manufactured at the following locations under a quality-control program with inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Tacoma, Washington
- Waxahachie, Texas
- Peru, Illinois
- Pulaski, Virginia
- Sparks, Nevada
- Prattville, Alabama

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding (AC90), dated October 2020 (editorially revised June 2024).

7.0 IDENTIFICATION

7.1 For field identification, James Hardie Building Products, Inc., Hardie® Panel (Prevail®, Cempanel®), Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel sidings, and Harditex® baseboards, must bear a label with the manufacturer's name and telephone number, the product name, and the evaluation report number
(ESR-1844).

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

JAMES HARDIE BUILDING PRODUCTS, INC.
10901 ELM AVENUE
FONTANA, CALIFORNIA 92337
(909) 942-7343
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TABLE 1—STANDARD NOMINAL PANEL DIMENSIONS

PRODUCT	WIDTH (inches)	LENGTH (feet)	THICKNESSES (inch)
Hardie® Panel siding (48")	48	8, 9, 10 & 12	1/4 & 5/16
Hardie® Panel siding (16")	16	8, 9, 10 & 12	5/16
Cempanel® siding	48	8, 9, 10, & 12	5/16
Prevail® siding	48	8, 10, & 12	5/16
Hardie® Architectural Panels[1]	48	8, 10, & 12	5/16
Hardiflex® panel	48	8, 9, & 10	1/4 & 5/16
Harditex® baseboard	48	8, 9, & 10	1/4 & 5/16
Hardie® Soffit & Panel	12, 16, 24	8, 9, 10 & 12	1/4

For **SI:** 1 inch = 25.4 mm, 1 ft = 305 mm.

[1] The grooved panels are 0.213 inch (5.4 mm) thick at groove locations.

TABLE 2—"*K*" and "*R*" VALUES FOR FIBER-CEMENT PRODUCTS

PRODUCT THICKNESS[3] (inch)	THERMAL CONDUCTANCE[1] K_{eff} = Btu/hr-ft²-°F	THERMAL RESISTANCE[1] R = 1/K_{eff}	ACTUAL THERMAL CONDUCTANCE[2] (K_{eff})	ACTUAL THERMAL RESISTANCE[2] (R)
1/4	1.95	0.51	7.80	0.13
5/16	2.07	0.48	6.62	0.15

For **SI:** 1 inch = 25.4 mm, 1 Btu/h-ft²-°F = 5.678 W/m²-K.

[1]Based on 1 inch of panel thickness.
[2]Actual value for panel thickness shown.

TABLE 3—PERMEANCE VALUES FOR FIBER-CEMENT PRODUCTS

PRODUCT THICKNESS[1] (inch)	PERMEANCE (perms)
1/4	1.75
5/16	1.54

For **SI:** 1 inch = 25.4 mm, 1 perm = 57 mg/(s·m²·Pa).

TABLE 4—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIEFLEX® (48") ATTACHED TO WOOD FRAMING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardiflex® Hardie® Panel (48")	¼	4d common, 1½-in long	8	2 x 4 wood[3]	16	20	105	-	-	136	-	-
						40	95	-	-	123	-	-
						60	85	-	-	110	-	-
Hardiflex® Hardie® Panel (48")	¼	4d common, 1½-in long	8	2 x 4 wood[3]	24	20	85	-	-	110	-	-
Hardiflex® Hardie® Panel (48")	¼	6d common, 2 in. long	6	2 x 4 wood[3]	16	20	137	116	-	177	150	-
						40	137	105	-	177	136	-
						60	137	105	-	177	136	-
Hardiflex® Hardie® Panel (48")	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	6	2 x 4 wood[3]	16	20	126	95	-	163	123	-
						40	121	95	-	156	123	-
Hardiflex® Hardie® Panel (48")	5/16	0.091-in. shank x .225-in HD x 1½-in. long ring shank nail	4 edge, 8 field	2 x 4 wood[3]	16	20	112	98	90	145	127	116
						40	107	92	85	138	119	110
						60	101	88	-	130	114	-
Hardiflex® Hardie® Panel (48")	5/16	4d common, 1½-in long	8	2 x 4 wood[3]	16	40	126	95	-	163	123	-
Hardiflex® Hardie® Panel (48")	5/16	4d common, 1½-in long	8	2 x 4 wood[3]	24	20	105	-	-	136	-	-
						40	95	-	-	123	-	-
Hardiflex® Hardie® Panel (48")	5/16	6d common, 2 in. long	4	2 x 4 wood[3]	24	0-15	141	128	116	182	165	150
						20	141	124	113	182	160	146
						40	135	116	107	174	150	138
						60	128	111	103	165	143	133
Hardiflex® Hardie® Panel (48")	5/16	6d common, 2 in. long	6	2 x 4 wood[3]	24	0-15	114	103	94	147	133	121
						20	114	101	92	147	130	119
						40	109	94	86	141	121	111
						60	103	90	-	133	116	-
Hardiflex® Hardie® Panel (48")	5/16	6d common, 2 in. long	6 edge, 12 field	2 x 4 wood[3]	16	40	137	105	-	177	136	-
						60	126	100	-	163	129	-
Hardiflex® Hardie® Panel (48")	5/16	0.091-in. shank x .225-in HD x 1½-in. long ring shank nail	3 edge, 8 field	2 x 4 wood[4]	16	20	126	95	-	163	123	-
						40	110	90	-	142	116	-
						60	100	85	-	129	110	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 5—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIEFLEX® (48") ATTACHED TO STEEL FRAMING (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY B	C	D	2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY B	C	D
Hardiflex® Hardie® Panel (48")	¼	Min. No. 8 x 1-in. long x 0.323-in. HD ribbed buglehead screw	6	Min. No. 20 ga. (33 mil) X 3⅝ in. x 1⅜ in. metal C-stud	16	20	137	105	-	177	136	-
						40	126	105	-	163	136	-
						60	116	95	-	150	123	-
Hardiflex® Hardie® Panel (48")	¼	Min. No. 8 x 1-in. long x 0.323-in. HD ribbed buglehead screw	6	Min. No. 20 ga. (33 mil) X 3⅝ in. x 1⅜ in. metal C-stud	24	20	105	85	-	136	110	-
						40	95	-	-	123	-	-
Hardiflex® Hardie® Panel (48")	5/16	ET & F 0.10-in. knurled shank x 1½-in. long x 0.25-in. HD pin fastener (AKN100-0150NA)	4 edge, 8 field	Min. No. 20 ga. (33 mil) X 3⅝ in. x 1⅜ in. metal C-stud	24	15	118	107	98	152	138	127
						20	118	104	95	152	134	123
						40	114	97	90	147	125	116
						60	107	93	87	138	120	112

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 6—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIEFLEX® (16" AND 48") ATTACHED TO WOOD AND STEEL FRAMING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardiflex® Hardie® Panel (48" and 16")	5/16	6d common, 2 in. long	4	2 x 4 wood[3]	16	0-15	181	164	149	234	212	192
						20	181	159	146	234	205	188
						40	174	148	137	225	191	177
						60	164	142	132	212	183	170
Hardiflex® Hardie® Panel (48" and 16")	5/16	6d common, 2 in. long	6	2 x 4 wood[3]	16	0-15	144	130	118	186	168	152
						20	144	127	116	186	164	150
						40	138	118	109	178	152	141
						60	130	113	105	168	146	136
Hardiflex® Hardie® Panel (48" and 16")	5/16	ET & F 0.10-in. knurled shank x 1½-in. long x 0.25-in. HD pin fastener (AKN100-0150NA)	4 edge, 8 field For 48" Panel; 4 edge For 16" Panel	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud	16	15	153	139	127	198	179	164
						20	153	135	124	198	174	160
						40	147	126	116	190	163	150
						60	139	121	112	179	156	145

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 7—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIEFLEX® (48") WITH HARDITEX® BASEBOARDS (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY B	C	D	2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY B	C	D
Hardiflex® Hardie® Panel (48") Harditex®	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	6	2 x 4 wood[3]	24	20	95	-	-	123	-	-
						40	95	-	-	123	-	-
Hardiflex® Hardie® Panel (48") Harditex®	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	4 edge, 12 field	2 x 4 wood[3]	16	20	137	105	-	177	136	-
						40	137	105	-	177	136	-
						60	126	95	-	163	123	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024, 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 8—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® PANEL (48") (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY B	C	D	2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY B	C	D
Hardie® Panel (48")	5/16	6D siding nails (0.092" shank X 0.222" HD x 2" long)	6	2 x 4 wood[3]	16	0-15	148	134	122	191	173	158
						20	148	131	119	191	169	154
						40	142	121	112	183	157	145
						60	134	117	108	173	150	140
Hardie® Panel (48")	5/16	No. 8 X 1-5/8 in. long X 0.375 in. HD ribbed waferhead screw	6" OC vertically / 12" OC horizontally	Attached to 7/16" wood structural panel sheathing only	7/16" WSP attached per code	0-15	150	136	123	194	176	159
						20	150	132	120	194	170	155
						40	143	123	113	185	159	146
						60	136	118	109	176	152	141
Hardie® Panel (48")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	8" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	24	0-15	107	97	88	138	125	114
						20	107	94	86	138	122	111
						40	103	88	81	133	113	105
						60	97	84	78	125	109	101
Hardie® Panel (48")	5/16	HardieNail Studless Siding Fastener (TetraGrip), .117" x 1.125" x .3" (PART #650867 or #650964)	12"x12" O.C.	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	108	98	89	139	126	115
						20	108	95	87	139	123	112
						40	104	88	-	134	114	-
						60	98	-	-	126	-	-
Hardie® Panel (48")	5/16	HardieNail Studless Siding Fastener (TetraGrip), .117" x 1.125" x .3" (PART #650867 or #650964)	12"x8" O.C.	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	127	115	105	164	149	135
						20	127	112	102	164	144	132
						40	122	104	96	157	134	124
						60	115	100	93	149	129	120
Hardie® Panel (48")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	8" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	24	0-15	107	97	88	138	125	114
						20	107	94	86	138	122	111
						40	103	88	81	133	113	105
						60	97	84	78	125	109	101
Hardie® Panel (48")	5/16	0.090" shank X 0.215" HD x 1.5" long ring shank nail	6" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring [9,10,11]	16	0-15	143	130	118	185	168	152
						20	143	126	115	185	163	149
						40	137	117	108	177	151	140
						60	130	113	105	168	145	135
Hardie® Panel (48")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	4" O.C. along studs	2X4 wood [4]	24	0-15	111	100	91	143	129	118
						20	111	97	89	143	126	115
						40	106	91	-	137	117	-
						60	100	87	-	129	112	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened)

TABLE 9—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® PANEL (16") (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY		
							B	C	D	B	C	D
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	6" O.C. along studs	2X4 wood [4]	24	0-15	167	152	138	216	196	178
						20	167	147	135	216	190	174
						40	160	137	127	207	177	163
						60	152	132	122	196	170	158
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	8" O.C. along studs	2X4 wood [4]	24	0-15	151	137	125	195	177	161
						20	151	133	122	195	172	157
						40	145	124	115	187	160	148
						60	137	119	111	177	154	143
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	10" O.C. along studs	2X4 wood [4]	24	0-15	134	121	110	172	156	142
						20	134	118	108	172	152	139
						40	128	110	101	165	141	131
						60	121	105	98	156	136	126
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	12" O.C. along studs	2X4 wood [4]	24	0-15	113	103	93	146	132	120
						20	113	100	91	146	129	117
						40	108	93	86	140	120	111
						60	103	89	-	132	115	-
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	6" O.C. along panel edges[14]	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	144	131	119	186	169	154
						20	144	127	116	186	164	150
						40	138	118	109	179	153	141
						60	131	114	105	169	147	136
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	8" O.C. along panel edges[14]	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	133	120	109	171	156	141
						20	133	117	107	171	151	138
						40	127	109	101	165	141	130
						60	120	105	97	156	135	125
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	10" O.C. along panel edges[14]	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	120	108	99	155	141	128
						20	120	106	97	155	137	125
						40	115	99	91	149	127	118
						60	109	95	88	141	122	113
Hardie® Panel (16")	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	12" O.C. along panel edges[14]	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	106	96	88	137	124	113
						20	106	94	86	137	121	110
						40	102	87	-	132	113	-
						60	96	-	-	124	-	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 10—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® PANEL (16" AND 48") (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY B	C	D	2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY B	C	D
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	6" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	15	149	135	123	193	175	159
						20	149	132	120	193	170	155
						40	143	122	113	185	158	146
						60	135	117	109	175	152	141
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25"long X 0.323" HD ribbed bugle head screws	8" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	135	122	111	174	158	144
						20	135	119	109	174	154	140
						40	129	111	102	167	143	132
						60	122	106	99	158	137	127
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	10" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	127	115	105	164	149	135
						20	127	112	102	164	145	132
						40	122	104	96	157	134	124
						60	115	100	93	149	129	120
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	12" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	121	110	100	157	142	129
						20	121	107	98	157	138	126
						40	116	100	92	150	128	119
						60	110	95	89	142	123	114
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	6" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	15	149	135	123	193	175	159
						20	149	132	120	193	170	155
						40	143	122	113	185	158	146
						60	135	117	109	175	152	141
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25"long X 0.323" HD ribbed bugle head screws	8" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	135	122	111	174	158	144
						20	135	119	109	174	154	140
						40	129	111	102	167	143	132
						60	122	106	99	158	137	127
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	10" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	127	115	105	164	149	135
						20	127	112	102	164	145	132
						40	122	104	96	157	134	124
						60	115	100	93	149	129	120
Hardie® Panel (48" and 16")	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	12" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	121	110	100	157	142	129
						20	121	107	98	157	138	126
						40	116	100	92	150	128	119
						60	110	95	89	142	123	114

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 11—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® ARCHITECTURAL PANELS (NON-GROOVED) ATTACHED TO WOOD FRAMING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardie® Architectural Panels (non-grooved)	5/16	6d common, 2in. long	4	2x4 wood[3]	16	0-15	181	164	149	234	212	192
						20	181	159	146	234	205	188
						40	174	148	137	225	191	177
						60	164	142	132	212	183	170
Hardie® Architectural Panels (non-grooved)	5/16	6d common, 2in. long	6	2x4 wood[3]	16	0-15	144	130	118	186	168	152
						20	144	127	116	186	164	150
						40	138	118	109	178	152	141
						60	130	113	105	168	146	136
Hardie® Architectural Panels (non-grooved)	5/16	6d common, 2in. long	4	2x4 wood[3]	24	0-15	141	128	116	182	165	150
						20	141	124	113	182	160	146
						40	135	116	107	174	150	138
						60	128	111	103	165	143	133
Hardie® Architectural Panels (non-grooved)	5/16	6d common, 2in. long	6	2x4 wood[3]	24	0-15	114	103	94	147	133	121
						20	114	101	92	147	130	119
						40	109	94	86	141	121	111
						60	103	90	-	133	116	-
Hardie® Architectural Panels (non-grooved)	5/16	4d, 0.091 in shank x 0.225in. HD x 1.5 in. long ring shank nail	4 edge 8 field	2x4 wood[3]	16	20	112	98	90	144	127	116
						40	107	92	85	138	119	110
						60	101	88	-	130	114	-
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs	2X4 wood[3]	16	0-15	119	108	98	153	139	126
						20	119	105	95	153	135	123
						40	114	97	90	147	126	116
						60	108	93	87	139	120	112
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs	2X4 wood[4]	16	0-15	124	113	102	160	145	132
						20	124	109	100	160	141	129
						40	119	102	94	154	131	121
						60	113	98	91	145	126	117
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs	2X4 wood [4]	24	0-15	110	100	91	142	129	117
						20	110	97	88	142	125	114
						40	105	90	-	136	116	-
						60	100	86	-	129	112	-
Hardie® Architectural Panels (non-grooved)	5/16	4d ring shank siding nails (0.09" SD x 0.215 HD x 1.5" long)	4" O.C. along studs	2X4 wood [4]	24	0-15	111	100	91	143	129	118
						20	111	97	89	143	126	115
						40	106	91	-	137	117	-
						60	100	87	-	129	112	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 12—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® ARCHITECTURAL PANELS (NON-GROOVED) ATTACHED TO WOOD STRUCTURAL SHEATHING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs and vertical panel edges[13]	2X4 wood [4] with 7/16" Wood Structural Panel sheathing attached per code	16	0-15	133	121	110	172	156	142
						20	133	117	107	172	152	138
						40	128	109	101	165	141	130
						60	121	105	97	156	135	126
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs and vertical panel edges[13]	2X4 wood [4] with 7/16" Wood Structural Panel sheathing attached per code	24	0-15	114	103	94	147	133	121
						20	114	100	92	147	130	118
						40	109	93	86	141	121	111
						60	103	90	-	133	116	-
Hardie® Architectural Panels (non-grooved)	5/16	16-ga. x 1.5" long stainless steel finish nails	4" O.C. along studs and vertical panel edges[13]	2X4 wood [3] with 7/16" Wood Structural Panel sheathing attached per code	24	0-15	108	98	89	139	126	115
						20	108	95	87	139	123	112
						40	104	89	-	134	114	-
						60	98	-	-	126	-	-
Hardie® Architectural Panels (non-grooved)	5/16	No. 8, 1- 5/8 in. long x 0.375" HD Ribbed wafer head screw	6" vert. 12" horiz.	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	150	136	123	194	176	159
						20	150	132	120	194	170	155
						40	143	123	113	185	159	146
						60	136	118	109	176	152	141
Hardie® Architectural Panels (non-grooved)	5/16	4d ring shank siding nails (0.09" SD x 0.215" HD x 1.5" long)	6" O.C. vertical, 16" O.C. Horizontal	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	118	107	97	153	138	126
						20	118	104	95	153	135	123
						40	113	97	90	146	125	116
						60	107	93	86	138	120	112

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 13—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® ARCHITECTURAL PANELS (GROOVED) ATTACHED TO WOOD FRAMING AND WOOD STRUCTURAL SHEATHING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardie® Architectural Panels (grooved)	5/16	Metabo 16-ga.(0.063" SD) x 1.5" long stainless steel finish nails	4" O.C. along studs	2X4 wood [4]	24	0-15	89	-	-	115	-	-
						20	89	-	-	115	-	-
						35	87	-	-	112	-	-
						40	-	-	-	-	-	-
Hardie® Architectural Panels (grooved)	5/16	4d ring shank siding nails (0.09" SD x 0.215" HD x 1.5" long)	6" O.C. vertical, 16" O.C. Horizontal	Attached to 7/16" Wood Structural Panel sheathing only	7/16" WSP Sheathing attached per code	0-15	118	107	97	153	138	126
						20	118	104	95	153	135	123
						40	113	97	90	146	125	116
						60	107	93	86	138	120	112
Hardie® Architectural Panels (grooved)	5/16	6d siding nails (0.092" SD x 0.222" HD x 2" long)	6" O.C. along studs, 16" O.C. along top and bottom plates	2X4 wood [3]	16	0-15	148	134	122	191	173	158
						20	148	131	119	191	169	154
						40	142	121	112	183	157	145
						60	134	117	108	173	150	140

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 14—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® ARCHITECTURAL PANELS (GROOVED) ATTACHED TO STEEL FRAMING (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY		
							B	C	D	B	C	D
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25"long x 0.323" HD ribbed bugle head screws	8" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	135	122	111	174	158	144
						20	135	119	109	174	154	140
						40	129	111	102	167	143	132
						60	122	106	99	158	137	127
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25” long X 0.323” HD ribbed bugle head screws	10" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	127	115	105	164	149	135
						20	127	112	102	164	145	132
						40	122	104	96	157	134	124
						60	115	100	93	149	129	120
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	12" O.C.	Min. No. 20 ga. (33 mil) X 3 5/8 in. x 1 3/8 in. metal C-stud or 2 X 4 wood studs[3]	16	0-15	121	110	100	157	142	129
						20	121	107	98	157	138	126
						40	116	100	92	150	128	119
						60	110	95	89	142	123	114
Hardie® Architectural Panels (grooved)	5/16	0.090" shank X 0.215" HD x 1.5" long ring shank nail	6" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring [9,10,11]	16	0-15	143	130	118	185	168	152
						20	143	126	115	185	163	149
						40	137	117	108	177	151	140
						60	130	113	105	168	145	135
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25"long X 0.323" HD ribbed bugle head screws	8" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	135	122	111	174	158	144
						20	135	119	109	174	154	140
						40	129	111	102	167	143	132
						60	122	106	99	158	137	127
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25”long X 0.323” HD ribbed bugle head screws	10" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4” thick by 3.5” wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	127	115	105	164	149	135
						20	127	112	102	164	145	132
						40	122	104	96	157	134	124
						60	115	100	93	149	129	120
Hardie® Architectural Panels (grooved)	5/16	No. 8 X 1.25" long X 0.323" HD ribbed bugle head screws	12" O.C. into furring only	2X4 wood or 20 ga. (33 mil) steel framing with 3/4" thick by 3.5" wide wood furring or 20 ga. (33 mil.) steel furring [9,10,11,12]	16	0-15	121	110	100	157	142	129
						20	121	107	98	157	138	126
						40	116	100	92	150	128	119
						60	110	95	89	142	123	114

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 15—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® SOFFIT & PANEL WITH HARDIETRIM BATTENS ATTACHED TO WOOD STRUCTURAL SHEATHING (mph)[2]

							2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8])			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10])		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	B	C	D	B	C	D
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 6" o.c. **Batten** Two fasteners every 16" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	153	139	126	198	179	163
						20	153	135	123	198	174	159
						40	147	126	116	190	162	150
						60	139	121	112	179	156	145
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 8" o.c. **Batten** Two fasteners every 16" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	146	132	120	188	171	155
						20	146	129	117	188	166	152
						40	140	120	110	181	154	143
						60	132	115	107	171	148	138
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 10" o.c. **Batten** Two fasteners every 16" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	138	125	114	178	162	147
						20	138	122	111	178	157	144
						40	133	113	105	171	146	135
						60	125	109	101	162	140	130
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 12" o.c. **Batten** Two fasteners every 16" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	130	118	107	168	152	138
						20	130	115	105	168	148	135
						40	125	107	98	161	138	127
						60	118	102	95	152	132	123

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 16—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® SOFFIT & PANEL WITH HARDIETRIM BATTENS ATTACHED TO WOOD FRAMING (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY B	C	D	2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY B	C	D
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 6" o.c. **Batten** Two fasteners every 16" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	141	128	116	182	165	150
						20	141	125	114	182	161	147
						40	136	116	107	175	150	138
						60	128	111	103	165	143	133
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 8" o.c. **Batten** Two fasteners every 16" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	138	125	114	178	161	147
						20	138	121	111	178	157	143
						40	132	113	104	171	146	135
						60	125	108	101	161	140	130
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 10" o.c. **Batten** Two fasteners every 16" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	134	122	111	173	157	143
						20	134	118	108	173	153	139
						40	129	110	102	166	142	131
						60	122	106	98	157	136	127
Hardie® Soffit & Panel with HardieTrim Battens	1/4	**Panel** 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L) **Batten** 16-ga. Finish Nails (0.060" SD x 2")	**Panel** 12" o.c. **Batten** Two fasteners every 16" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	130	118	108	168	153	139
						20	130	115	105	168	148	136
						40	125	107	99	162	138	128
						60	118	103	95	153	133	123

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

TABLE 17—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY FOR HARDIE® SOFFIT & PANEL (mph)[2]

Product	Minimum Product Thickness (in.)	Fastener Type[12]	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, V_{asd}[1,5,8]) EXPOSURE CATEGORY			2012 IBC and 2015 IBC/IRC (Ultimate Design Wind Speed, V_{ult}[6,7]); 2018, 2021 and 2024 IBC/IRC (Basic Design Wind Speed, V[9,10]) EXPOSURE CATEGORY		
							B	C	D	B	C	D
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	6" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	136	123	112	176	159	145
						20	136	120	110	176	155	141
						40	131	112	103	169	144	133
						60	123	107	99	159	138	128
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	8" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	127	115	104	163	148	135
						20	127	112	102	163	144	132
						40	122	104	96	157	134	124
						60	115	100	93	148	129	119
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	10" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	116	106	96	150	136	124
						20	116	103	94	150	133	121
						40	112	96	88	144	123	114
						60	106	92	-	136	118	-
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	12" o.c.	Attached ONLY to 7/16" wood structural panels (WSP)	7/16" WSP attached per code	0-15	105	96	87	136	123	112
						20	105	93	-	136	120	-
						40	101	86	-	130	112	-
						60	96	-	-	123	-	-
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	6" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	128	116	106	165	150	136
						20	128	113	103	165	146	133
						40	123	105	97	159	136	125
						60	116	101	94	150	130	121
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	8" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	122	111	101	158	143	130
						20	122	108	99	158	139	127
						40	117	100	93	152	130	120
						60	111	96	89	143	124	116
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	10" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	116	106	96	150	136	124
						20	116	103	94	150	133	121
						40	112	96	88	144	123	114
						60	106	92	-	136	118	-
Hardie® Soffit & Panel	1/4	4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	12" o.c.	Attached direct to 2x4 framing (G = 0.42 min.)	16	0-15	110	100	91	142	129	117
						20	110	97	89	142	125	114
						40	106	90	-	136	117	-
						60	100	87	-	129	112	-

For **SI:** 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

[1] Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[2] Installation must be in accordance with Section 4.2 of this report.
[3] Values are for species of wood having a specific gravity of 0.42 or greater.
[4] Values are for species of wood having a specific gravity of 0.50 or greater.
[5] V_{asd} = nominal design wind speed.
[6] V_{ult} = ultimate design wind speed.
[7] Wind speed design assumptions per Section 30.4, of ASCE 7-10: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[8] 2015 and 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult}\sqrt{0.6}$.
[9] V = basic design wind speed
[10] Wind speed design assumptions per Section 30.3, of ASCE 7-16 and ASCE 7-22: K_{zt} = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.
[11] 2024 and 2021 IBC Section 1609.3.1, Eqn. 16-17; 2018 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V\sqrt{0.6}$
[12] Smooth-shank stainless steel nails are outside of the scope of this report unless specifically noted.
[13] Vertical edges of each panel permitted to be fastened to WSP sheathing only (remainder of panel must be fastened to the studs through the sheathing).
[14] Long edges of each panel permitted to be fastened to WSP sheathing only (short edges are not required to be fastened).

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 46—Fiber-Cement Siding

REPORT HOLDER:

JAMES HARDIE BUILDING PRODUCTS, INC.

EVALUATION SUBJECT:

HARDIE® PANEL (PREVAIL®, CEMPANEL®) SIDING, HARDIE® ARCHITECTURAL PANELS HARDIFLEX® SIDING, HARDITEX BASEBOARD AND HARDIE® SOFFIT & PANEL

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel, described in ICC-ES evaluation report ESR-1844, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2025 *California Building Code®* (CBC)

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

- 2025 *California Residential Code®* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel, described in Sections 2.0 through 7.0 of the evaluation report ESR-1844, comply with CBC Chapter 14, provided the design and installation are in accordance with the 2024 *International Building Code®* (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 14, 16 and 17, as applicable.

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel have been evaluated under the 2025 CA Wildland-Urban Interface Code Section 503.2.1 (as referenced in the 2025 CBC Chapter 7A) as a noncombustible material meeting the requirements of an ignition-resistant building material.

2.1.1 OSHPD:

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel, described in Sections 2.0 through 7.0 of the evaluation report ESR-1844, comply with CBC Chapter 14 and applicable amendments, provided the design and installation are in accordance with the 2024 *International Building Code®* (IBC) provisions noted in the evaluation report and the following requirements:

1. Additional requirements of CBC Section 1404.1.2 [OSHPD 1, 1R, 2, 4 and 5] as applicable.
2. Additional requirements of CBC Chapter 16A and Section 1705A.12.3 [OSHPD 1 and 4], and Chapter 16 and Section 1705.12.3 [OSHPD 1R, 2, 3, 5 and 6] as applicable.

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2.1.2 DSA:

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel, described in Sections 2.0 through 7.0 of the evaluation report ESR-1844, comply with CBC Chapter 14 and applicable amendments, provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions noted in the evaluation report and the following requirements:

1. Additional requirements of CBC Section 1404.1.2 [DSA-SS & DSA-SS/CC] as applicable.
2. Additional requirements of CBC Chapter 16A [DSA-SS], and Section 1705A.12.3 DSA-SS & DSA-SS/CC] and Chapter 16 [DSA-SS/CC] as applicable.

2.2 CRC:

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard, and Hardie® Soffit & Panel described in Sections 2.0 through 7.0 of the evaluation report ESR-1844, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2024 *International Residential Code*® (IRC) provisions noted in the evaluation report.

The Hardie® Panel (Prevail®, Cempanel®) siding, Hardie® Architectural Panels, HardiFlex® siding, Harditex® baseboard and Hardie® Soffit & Panel have been evaluated under the 2025 CA Wildland-Urban Interface Code Section 503.2.1 (as referenced in the 2025 CRC Section R337) as a noncombustible material meeting the requirements of an ignition-resistant building material.

This supplement expires concurrently with the evaluation report, reissued November 2025 and revised September 2026.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 46—Fiber-Cement Siding

REPORT HOLDER:

JAMES HARDIE BUILDING PRODUCTS, INC.

EVALUATION SUBJECT:

HARDIE® PANEL (PREVAIL®, CEMPANEL®) SIDING, HARDIE® ARCHITECTURAL PANELS, HARDIFLEX® SIDING, HARDITEX BASEBOARD, HARDIE® SOFFIT & PANEL

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Hardie® Panel (Prevail®, Cempanel®) Siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® Siding and Harditex® Baseboard, recognized in ICC-ES evaluation report ESR-1844, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2026 and 2023 *Florida Building Code—Building*
- 2026 and 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Hardie® Panel (Prevail®, Cempanel®) Siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® Siding and Harditex® Baseboard, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-1844, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential,* as applicable. The installation requirements noted in ICC-ES evaluation report ESR-1844 for the 2024 and 2021 *International Building Code®* meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential,* as applicable, with the following conditions:

- Design wind loads must be based on Section 1609 of the *Florida Building Code—Building* or Section R301.2.1.1 of the *Florida Building Code-Residential*, as applicable.
- Load Combinations must be in accordance with Section 1605.1 of the *Florida Building Code—Building*, as applicable.
- Installation must meet requirements of Section 1403.9 of the 2026 *Florida Building Code—Building* (Section 1403.8 of the 2023 *Florida Building Code—Building*) or Section R318.7 of the *Florida Building Code—Residential*, as applicable.
- Water-resistive barrier must be in accordance with Section 1404.2 of the *Florida Building Code-Building* or Section R703.2 of the *Florida Building Code-Residential*, as applicable.
- Flashing must be in accordance with Section 1405.4 of the *Florida Building Code—Building* or Section R703.4 of the *Florida Building Code—Residential*, as applicable.
- When the siding panels are installed in Types I, II, III or IV construction of exterior wall assemblies and the wall assembly contains a combustible water-resistive barrier, the building height is limited to 40 feet (12.2 m) above grade as indicated in Section 1403.6 of the 2026 *Florida Building Code—Building* (Section 1403.5 of the 2023 *Florida Building Code—Building*), unless when used with combustible water-resistive barriers complying with Section 1403.6, Exception 2 of the 2026 *Florida Building Code—Building* (Section 1403.5, Exception 2 of the 2023 *Florida Building Code—Building*).
- For use within 3,000 feet of a saltwater coastline under the 2026 *Florida Building Code—Building* or the 2026 *Florida*

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Building Code—Residential, fasteners must comply with Section 1711 and Table 1711.1 of the 2026 *Florida Building Code—Building* or Section R332 and Table R332.1 of the 2026 Florida Building Code—Residential, as applicable.

Use of the Hardie® Panel (Prevail®, Cempanel®) panel siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel siding and Harditex® Baseboard 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 61G20-3, 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). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

This supplement expires concurrently with the evaluation report, reissued November 2025 and revised September 2026.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 46—Fiber-Cement Siding

REPORT HOLDER:

JAMES HARDIE BUILDING PRODUCTS, INC.

EVALUATION SUBJECT:

HARDIE® PANEL (PREVAIL®, CEMPANEL®) SIDING, HARDIE® ARCHITECTURAL PANELS, HARDIFLEX® SIDING AND HARDITEX BASEBOARD, HARDIE® SOFFIT & PANEL

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Hardie® Panel (Prevail®, Cempanel®) panel siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel siding and Harditex® Baseboard, described in ICC-ES evaluation report ESR-1844, have also been evaluated for compliance with the codes noted below:

Applicable code editions:

- 2024, 2021, 2018, 2015, 2012 and 2009 *International Wildland-Urban Interface Code* (IWUIC)

2.0 CONCLUSIONS

The Hardie® Panel (Prevail®, Cempanel®) panel siding, Hardie® Architectural Panels, Hardie® Soffit & Panel, Hardiflex® panel siding and Harditex® Baseboard, described in Sections 2.0 through 7.0 of the evaluation report ESR-1844**,** comply as noncombustible materials in accordance with 2024 IWUIC Section 503.2.1 (2021, 2018, 2015, 2012, and 2009 IWUIC Section 503.2, Item 2). These products may be used in the design and construction, alteration, or repair of buildings located in any Fire Hazard Severity Zone under the *International Wildland-Urban Interface Code* (IWUIC). The design and installation are in accordance with the *International Wildland-Urban Interface Code* (IWUIC) and the *International Building Code®* (IBC) provisions noted in the evaluation report as applicable.

This supplement expires concurrently with the evaluation report ESR-1844, reissued November 2025 and revised September 2026.

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