

EVALUATION SUBJECT

Hardie®Soffit & Panel Siding and HardieTrim Battens Analysis

James Hardie Product Trade Names covered in this report:

Hardie®Soffit & Panel Siding (16-inch wide x 1/4-inch thick) and HardieTrim Battens (2.5-inch wide x 3/4-inch thick)

EVALUATION SCOPE:

ASCE 7-22 (referenced in 2023/2026 FBC and 2024 IBC)

2023 Florida Building Code (8th Edition) and 2026 Florida Building Code (9th Edition)

2024 International Building Code (IBC)

EVALUATION PURPOSE:

This analysis is to determine the maximum design 3-second gust wind speed to be resisted by wall assemblies consisting of the above referenced siding products installed over wood structural panel (WSP) sheathing attached to framing and over open framing.

REFERENCE REPORTS:

1. QAI Test Report No. QA-3530, dated 10/21/25.

TEST RESULT SUMMARY:

TABLE 1A - Hardie®Soffit & Panel with HardieTrim Battens Transverse Load Test Results and Analysis ^{1,2}											
Nominal Siding Thickness (in.)	Siding Width (in.)	Siding Attachment to WSP Sheathing and Frame Type	Frame Spacing (in.)	Weather Exposed (in.)	Siding Fastening Method	Siding Fastener Type	Ultimate Load (PSF)	Allowable Design Load ³ (PSF)	Effective Tributary Area (sq.ft.)	Tested Individual Fastener Load (lbs)	Failure Mode
0.250	16	7/16-in. OSB over 2x4 wood DF	24	13.5	Nailing into OSB Sheathing Only @ 6-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")	-169.4	-56.5	0.563	-31.8	Predominantly nail withdrawal from OSB, some fractured battens and batten fastener withdrawal
					Nailing into OSB Sheathing Only @ 16-in. o.c.	16-g. Finish Nails (0.060 SD x 2")		-56.5			
0.250			24	13.5	Nailing into OSB Sheathing Only @ 12-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")	-126.6	-42.2	1.125	-47.5	
					Nailing into OSB Sheathing Only @ 16-in. o.c.	16-g. Finish Nails (0.060 SD x 2")		-42.2	1.500	-63.3	
0.250		2x4 wood DF	16	13.5	Nailing Direct into Studs@ 6-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")	-144	-48.0	0.563	-27.0	Predominantly fastener head pull through sidings, some batten fracture and batten fastener withdrawal
					Nailing Direct into Studs@ 16-in. o.c.	16-g. Finish Nails (0.060 SD x 2")		-48.0	1.500	-72.0	
0.250					Nailing Direct into Studs@ 12-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")		-122.8	-40.9	1.125	
		Nailing Direct into Studs @ 12-in. o.c.	16-g. Finish Nails (0.060 SD x 2")	-40.9	1.500	-61.4					
TABLE 1B - HardieSoffit Panel (without battens) Transverse Load Test Results and Analysis ¹											
0.250	16	7/16-in. OSB over 2x4 wood DF	24	16	Nailing into OSB Sheathing Only @ 6-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")	-133.6	-44.5	0.667	-29.7	Combination of nail withdrawal from OSB and nail head pull through sidings
0.250			24	16	Nailing into OSB Sheathing Only @ 12-in. o.c.		-82.4	-27.5	1.333	-36.6	
0.250	16	2x4 wood DF	16	16	Nailing Direct into Studs @ 6-in. o.c.	4D Ring Shank Nails (0.215" HD x 0.090" SD x 1.5")	-118.5	-39.5	0.667	-26.3	Nail head pull through sidings
0.250			16	16	Nailing Direct into Studs @ 12-in. o.c.		-87.5	-29.2	1.333	-38.9	

Tables 1A and 1B Footnotes:

- The Soffit Siding and HardieTrim Batten complies with ASTM C1186, Standard Specification for Grade II, Type A Non-asbestos Fiber-Cement Flat Sheets.
- The 2.5-inch wide (19.5 mm thick) battens are installed over the siding joints with 2 x 16-ga. finish nails at 16-inch o.c.
- Allowable Design Load is the Ultimate Load divided by a Factor of safety of 3.

Table 2A - Fastener Withdrawal Analysis for Sidings with Battens								
Fastener Type & Spacing	Siding Width (in.)	Tested Fastener Load (lb.)	Min. Net Fastener Penetration Into OSB/Framing (in.)	Fastener Shank Dia. (in.)	Fastener Withdrawal Design Value (W) per NDS ¹ (lb/inch penetration)	Fastener Withdrawal Design Value (W) per NDS ² (lb/inch penetration)	Allowable Fastener Withdrawal Load (lb per fastener) per NDS	Adjusted Allowable Design Pressure ^{3,4} (psf)
4D Ring Shank Nails @ 6-in. oc into OSB Sheathing	16	31.8	0.438	0.090	50.8	81.3	35.6	-56.5
16-ga. Finish Nails (0.060 SD x 2") at 16" oc into OSB		84.7	0.438	0.060	19.4	31.1	13.6	-9.1
4D Ring Shank Nails @ 12-in. oc into OSB Sheathing	16	47.5	0.438	0.090	50.8	81.3	35.6	-31.6
16-ga. Finish Nails (0.060 SD x 2") at 16" oc into OSB		63.3	0.438	0.060	19.4	31.1	13.6	-9.1
4D Ring Shank Nails @ 6-in. oc into 2x4 @ 16" SPF Framing	16	27.0	1.250	0.090	28.6	45.7	57.2	-48.0
16-ga. Finish Nails (0.060 SD x 2") into 2x4 @ 16" SPF Framing		72.0	1.750	0.060	9.5	15.1	26.5	-17.7
4D Ring Shank Nails @ 12-in. oc into 2x4 @ 16" SPF Framing	16	46.1	1.250	0.090	28.6	45.7	57.2	-40.9
16-ga. Finish Nails (0.060 SD x 2") into 2x4 @ 16" SPF Framing		61.4	1.750	0.060	9.5	15.1	26.5	-17.7
Table 2B - Fastener Withdrawal Analysis for Sidings without Battens								
4D Ring Shank Nails @ 6-in. oc into OSB Sheathing	16	29.7	0.438	0.090	50.8	81.3	35.6	-44.5
4D Ring Shank Nails @ 12-in. oc into OSB Sheathing		36.6	0.438	0.090	50.8	81.3	35.6	-26.7
4D Ring Shank Nails @ 6-in. oc into 2x4 @ 16" SPF Framing	16	26.3	1.250	0.090	28.6	45.7	57.2	-39.5
4D Ring Shank Nails @ 12-in. oc into 2x4 @ 16" SPF Framing		38.9	1.250	0.090	28.6	45.7	57.2	-29.2

Table 2A Footnotes:

- W is calculated as follows: $W = 1800G^{0.7}D$ for deformed shank nails, $W = 1380G^{0.7}D$ for with G for OSB = 0.56, and SPF = 0.42 per NDS
- W is calculated as follows per NDS Table 11.3.1: $W = W_s \times C_D \times C_M \times C_t \times C_{\phi} \times C_{\psi}$ where $C_D = 1.60$, $C_M = 1.0$, $C_t = 1.0$, C_{ϕ} and C_{ψ} do not apply.
- Adjustment to the allowable design pressures are made if the tested fastener load exceeds the allowable fastener withdrawal load per NDS.
- The allowable design pressures on the far right column in Table 2A are based on withdrawal analysis of the combined 4D RS Nails and 16-ga. Finish Nails.

Siding Fastener Spacing (in.)	Effective Tributary Area (sq. ft.)	Design Pressure psf
6	0.563	-55.5
8	0.750	-51.2
10	0.938	-45.9
12	1.125	-40.7

Siding Fastener Spacing (in.)	Effective Tributary Area (sq. ft.)	Design Pressure psf
6	0.667	-49.0
8	0.889	-45.6
10	1.111	-43.3
12	1.333	-40.9

Siding Fastener Spacing (in.)	Effective Tributary Area (sq. ft.)	Design Pressure psf
6	0.667	-44.5
8	0.889	-38.6
10	1.111	-32.6
12	1.333	-26.7

Siding Fastener Spacing (in.)	Effective Tributary Area (sq. ft.)	Design Pressure psf
6	0.667	-39.5
8	0.889	-36.1
10	1.111	-32.6
12	1.333	-29.2

DESIGN WIND LOAD PROCEDURES:

Fiber-cement siding transverse load capacity (wind load capacity) is determined by transverse load testing in accordance with ASTM E330. The allowable design load is determined based on a factor of safety of 3 applied to the ultimate load from ASTM E330 test results.

Equation 1, $q_z = 0.00256 K_z K_{zt} K_a V^2$ (ASCE 7-22 Eq. 26.10-1)

q_z , velocity pressure at height z
 K_z , velocity pressure exposure coefficient evaluated at height z
 K_{zt} , topographic factor
 K_a , ground elevation factor. It's permitted to take $K_a = 1.00$ in all cases per Section 26.9 of ASCE 7-22.
 V , basic wind speed (mph) as determined in ASCE 7-22 Figures 26.5-1A, B, C, or D

Equation 2, $V = V_{ult}$
 V_{ult} , ultimate design wind speeds (3-second gust MPH) determined from 2023/2026 FBC Figures 1609.3(1) - 1609.3(4)
 V , basic wind speed (3-second gust MPH) as determined in 2024 IBC Figures 1609.3(1) to 1609.3(4)

Equation 3, $p = q_s K_d (GC_p - GC_{pi})$ $h \leq 60$ ft (ref. ASCE 7-22 Eq. 30.3-1)

p , design pressure (psf) for siding (allowable design load)
 q_s , velocity pressure evaluated at mean roof height h
 GC_p , product of external pressure coefficient and gust-effect factor
 GC_{pi} , product of internal pressure coefficient and gust-effect factor
 K_d , wind directionality factor
 (ref. ASCE 7-22 Section 26.10)
 (ref. ASCE 7-22 Figure 30.3-1 for walls)
 (ref. ASCE 7-22 Table 26.13-1)
 (ref. ASCE 7-22 Section 26.6)

To determine design pressure, substitute q_s into Equation 3.

Equation 4, $p = 0.00256 K_z K_{zt} K_a V^2 (GC_p - GC_{pi})$

Allowable Stress Design, ASCE 7-22 Section 2.4.1, load combination 7,

Equation 5, $0.6D + 0.6W$ (ref. ASCE 7-22 section 2.4.1, load combination 7)

D , dead load
 W , wind load (load due to wind pressure)

To determine the Allowable Stress Design Pressure, apply the load factor for W (wind) from Equation 5 to p (design pressure) determined from equation 4 as follows:

Equation 6, $p_{allow} = 0.6 [p] = 0.6 [0.00256 K_z K_{zt} K_a V^2 (GC_p - GC_{pi})]$

Equation 6 is used to populate Tables 4, 5 and 6 below.

To determine the allowable ultimate basic wind speed for the siding product in Table 7, solve Equation 6 for V and V_{ult} .

Equation 7, $V_{ult} = (p_{allow} / 0.6 * 0.00256 K_z K_{zt} K_a (GC_p - GC_{pi}))^{0.5}$ (under 2023/2026 FBC)

Applicable to methods specified in Exceptions 1 through 3 of Section 1609.1.1 [2023/2026 FBC and 2024 IBC], to determine the allowable nominal design wind speed (V_{asd}) for the siding product in Table 7, apply the conversion formula below,

Equation 8, $V_{asd} = V_{ult} * (0.6)^{0.5}$ (ref. 2023/2026 FBC Eq. 16-17)

$V_{asd} = V * (0.6)^{0.5}$ (ref. 2024 IBC Eq. 16-18)

V_{asd} , Nominal design wind speed (3-second gust, mph)
 V , Basic design wind speed (3-second gust, mph) per 2024 IBC
 V_{ult} , Ultimate design wind speed (3-second gust, mph) per 2023/2026 FBC

K _z										Wall Zone 5	
Height (ft)	Exp B (ASCE 7-22)	Exp B (ASCE 7-16)	Exp B ¹	Exp C	Exp D	K _{zt}		K _d	K _a	GC _p	GC _{pi}
0-15	0.57	0.57	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
20	0.62	0.62	0.70	0.90	1.08		1	0.85	1	-1.4	0.18
25	0.66	0.66	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
30	0.70	0.70	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
35	0.72	0.73	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
40	0.74	0.76	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
45	0.765	0.785	0.785	1.065	1.245	h>60	1	0.85	1	-1.4	0.18
50	0.79	0.81	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
55	0.81	0.83	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
60	0.83	0.85	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
85	0.91	0.945	0.945	1.23	1.39		1	0.85	1	-1.8	0.18

¹The coefficients and constants listed in Table 3 above were consistent for ASCE 7-22 and -16 except for K_z at Exposure B under 30 ft, where ASCE 7-22 and -16 allows to use lower exposure coefficient that previous codes used a more conservative values (resulted in higher design pressure). For the simplicity of the tables, the tables in the following sheet was populated using the more conservative ASCE 7-10 coefficients, including the more conservative K_z between the three ASCE-7 versions for heights > 30 ft.

Wind Speed (3-second gust)	100	105	110	115	120	130	140	150	160	170	180	190	200	210
Height (ft)	Wind Exposure Category B													
0-15	-14.4	-15.9	-17.5	-19.1	-20.8	-24.4	-28.3	-32.5	-37.0	-41.7	-46.8	-52.1	-57.8	-63.7
20	-14.4	-15.9	-17.5	-19.1	-20.8	-24.4	-28.3	-32.5	-37.0	-41.7	-46.8	-52.1	-57.8	-63.7
25	-14.4	-15.9	-17.5	-19.1	-20.8	-24.4	-28.3	-32.5	-37.0	-41.7	-46.8	-52.1	-57.8	-63.7
30	-14.4	-15.9	-17.5	-19.1	-20.8	-24.4	-28.3	-32.5	-37.0	-41.7	-46.8	-52.1	-57.8	-63.7
35	-15.1	-16.6	-18.2	-19.9	-21.7	-25.4	-29.5	-33.9	-38.6	-43.5	-48.8	-54.4	-60.2	-66.4
40	-15.7	-17.3	-19.0	-20.7	-22.6	-26.5	-30.7	-35.3	-40.1	-45.3	-50.8	-56.6	-62.7	-69.1
45	-16.2	-17.9	-19.6	-21.4	-23.3	-27.4	-31.7	-36.4	-41.5	-46.8	-52.5	-58.5	-64.8	-71.4
50	-16.7	-18.4	-20.2	-22.1	-24.1	-28.2	-32.7	-37.6	-42.8	-48.3	-54.1	-60.3	-66.9	-73.7
55	-17.1	-18.9	-20.7	-22.6	-24.7	-28.9	-33.6	-38.5	-43.8	-49.5	-55.5	-61.8	-68.5	-75.5
60	-17.5	-19.3	-21.2	-23.2	-25.2	-29.6	-34.4	-39.5	-44.9	-50.7	-56.8	-63.3	-70.1	-77.3
85	-24.4	-26.9	-29.6	-32.3	-35.2	-41.3	-47.9	-55.0	-62.5	-70.6	-79.2	-88.2	-97.7	-107.7

Table 5 - Allowable Stress Design Pressure P_{ust} for Component and Cladding (C&C) to be Resisted at Various Wind Speeds for Wind Exposure Category C														
Wind Speed (3-second gust)	100	105	110	115	120	130	140	150	160	170	180	190	200	210
Height (ft)	Wind Exposure Category C													
0-15	-17.5	-19.3	-21.2	-23.2	-25.2	-29.6	-34.4	-39.5	-44.9	-50.7	-56.8	-63.3	-70.1	-77.3
20	-18.6	-20.5	-22.5	-24.6	-26.7	-31.4	-36.4	-41.8	-47.5	-53.7	-60.2	-67.0	-74.3	-81.9
25	-19.4	-21.4	-23.5	-25.6	-27.9	-32.8	-38.0	-43.6	-49.6	-56.0	-62.8	-70.0	-77.6	-85.5
30	-20.2	-22.3	-24.5	-26.7	-29.1	-34.2	-39.6	-45.5	-51.8	-58.4	-65.5	-73.0	-80.9	-89.2
35	-20.8	-23.0	-25.2	-27.6	-30.0	-35.2	-40.8	-46.9	-53.3	-60.2	-67.5	-75.2	-83.3	-91.9
40	-21.5	-23.7	-26.0	-28.4	-30.9	-36.3	-42.0	-48.3	-54.9	-62.0	-69.5	-77.4	-85.8	-94.6
45	-22.0	-24.2	-26.6	-29.1	-31.6	-37.1	-43.1	-49.4	-56.2	-63.5	-71.2	-79.3	-87.9	-96.9
50	-22.5	-24.8	-27.2	-29.7	-32.4	-38.0	-44.1	-50.6	-57.6	-65.0	-72.9	-81.2	-89.9	-99.2
55	-22.9	-25.2	-27.7	-30.3	-33.0	-38.7	-44.9	-51.5	-58.6	-66.2	-74.2	-82.7	-91.6	-101.0
60	-23.3	-25.7	-28.2	-30.8	-33.6	-39.4	-45.7	-52.4	-59.7	-67.4	-75.5	-84.1	-93.2	-102.8
65	-23.7	-26.1	-28.6	-31.3	-34.1	-40.0	-46.4	-53.2	-60.6	-68.4	-76.6	-85.3	-94.4	-104.1
70	-24.1	-26.5	-29.0	-31.7	-34.5	-40.4	-46.8	-53.6	-61.0	-68.8	-77.0	-85.7	-94.8	-104.5
75	-24.5	-26.9	-29.4	-32.1	-34.9	-40.8	-47.2	-54.0	-61.4	-69.2	-77.4	-86.1	-95.2	-104.9
80	-24.9	-27.3	-29.8	-32.5	-35.3	-41.2	-47.6	-54.4	-61.8	-69.6	-77.8	-86.5	-95.6	-105.3
85	-25.3	-27.7	-30.2	-32.9	-35.7	-41.6	-48.0	-54.8	-62.2	-70.0	-78.2	-86.9	-96.0	-105.7

Table 6 - Allowable Stress Design Pressure P_{ust} for Component and Cladding (C&C) to be Resisted at Various Wind Speeds for Wind Exposure Category D														
Wind Speed (3-second gust)	100	105	110	115	120	130	140	150	160	170	180	190	200	210
Height (ft)	Wind Exposure Category D													
0-15	-21.2	-23.4	-25.7	-28.1	-30.6	-35.9	-41.6	-47.8	-54.4	-61.4	-68.8	-76.7	-85.0	-93.7
20	-22.3	-24.6	-27.0	-29.5	-32.1	-37.7	-43.7	-50.1	-57.0	-64.4	-72.2	-80.4	-89.1	-98.2
25	-23.1	-25.5	-28.0	-30.6	-33.3	-39.0	-45.3	-52.0	-59.1	-66.8	-74.9	-83.4	-92.4	-101.9
30	-23.9	-26.4	-29.0	-31.6	-34.5	-40.4	-46.9	-53.8	-61.3	-69.2	-77.5	-86.4	-95.7	-105.5
35	-24.5	-27.1	-29.7	-32.5	-35.3	-41.5	-48.1	-55.2	-62.8	-70.9	-79.5	-88.6	-98.2	-108.3
40	-25.2	-27.7	-30.5	-33.3	-36.2	-42.5	-49.3	-56.6	-64.4	-72.7	-81.5	-90.9	-100.7	-111.0
45	-25.7	-28.3	-31.1	-34.0	-37.0	-43.4	-50.3	-57.8	-65.7	-74.2	-83.2	-92.7	-102.7	-113.3
50	-26.2	-28.9	-31.7	-34.6	-37.7	-44.3	-51.3	-58.9	-67.1	-75.7	-84.9	-94.6	-104.8	-115.5
55	-26.6	-29.3	-32.2	-35.2	-38.3	-45.0	-52.2	-59.9	-68.1	-76.9	-86.2	-96.1	-106.4	-117.4
60	-27.0	-29.8	-32.7	-35.7	-38.9	-45.7	-53.0	-60.8	-69.2	-78.1	-87.6	-97.6	-108.1	-119.2
65	-27.4	-30.2	-33.1	-36.1	-39.3	-46.1	-53.4	-61.2	-69.6	-78.5	-88.0	-98.0	-108.5	-119.6
70	-27.8	-30.6	-33.5	-36.5	-39.7	-46.5	-53.8	-61.6	-70.0	-78.9	-88.4	-98.4	-108.9	-120.0
75	-28.2	-31.0	-33.9	-36.9	-40.1	-46.9	-54.2	-62.0	-70.4	-79.3	-88.8	-98.8	-109.3	-120.4
80	-28.6	-31.4	-34.3	-37.3	-40.5	-47.3	-54.6	-62.4	-70.8	-79.7	-89.2	-99.2	-109.7	-120.8
85	-29.0	-31.8	-34.7	-37.7	-40.9	-47.7	-55.0	-62.8	-71.2	-80.1	-89.6	-99.6	-110.1	-121.2

Tables 4, 5 and 6 are based off of ASCE 7-22 and consistent with the 2023/2026 FBC and 2024 IBC

Wind Speed Calculation Example:

The following is an example of the wind speed calculation for Table 7:

$$P_{ust} = -38.6 \text{ psf}; K_z = 0.7 \text{ (Exp B)}; K_{zt} = 1; K_d = 0.85; K_e = 1.0; G C_p = -1.4; G C_{pe} = 0.18$$

Use Equation 6:

$$V = V_{ult} = \sqrt{\frac{P_{ust}}{0.6 \times 0.00256 \times K_z \times K_{zt} \times K_d \times K_e \times (G C_p - G C_{pe})}} = \sqrt{\frac{-38.6}{0.6 \times 0.00256 \times 0.7 \times 1 \times 0.85 \times 1.0 \times (-1.4 - 0.18)}} = 163 \text{ mph}$$

Use Equation 8:

$$V_{ast} = V \times \sqrt{0.6} = 163 \times \sqrt{0.6} = 127 \text{ mph}$$

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS¹

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS ¹																							
								2023/2026 FBC Ultimate Design Wind Speed, V _{ult} ^{4,6,7} or 2018/2021/2024 IBC Basic Design Wind Speed, V ^{5,6,7}			2023/2026 FBC Nominal Design Wind Speed or 2018/2021/2024 IBC Allowable Stress Design Wind Speed V _{asd} ^{3,7}			Coefficients used for calculations ⁶									
								Wind Exposure Category			Wind Exposure Category			Design Load (PSF)	K _z			K _{zt}	K _d	K _e	GC _p	GC _{pi}	
Product	Siding Thickness (inches)	Siding Width (inches)	Fastener Type	Fastener Spacing	Frame Type	Stud Spacing (inches)	Building Height ² (feet)	B	C	D	B	C	D		Exp B	Exp C	Exp D						
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁸	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	Panel 6" o.c.	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁵	0-15	198	179	163	153	139	126	-56.5	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	198	174	159	153	135	123	-56.5	0.70	0.90	1.08		1	0.85	1	-1.4	0.18
							25	198	171	156	153	132	121	-56.5	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	198	167	154	153	129	119	-56.5	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	194	165	152	150	128	117	-56.5	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	190	162	150	147	126	116	-56.5	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	187	160	148	145	124	115	-56.5	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	184	158	147	142	123	114	-56.5	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	182	157	146	141	122	113	-56.5	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	179	156	145	139	121	112	-56.5	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
			Batten 16-ga. Finish Nails (0.060" SD x 2")	Batten Two fasteners every 16" o.c.		85	152	134	125	118	103	97	-56.5	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁸	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	Panel 8" o.c.	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁵	0-15	188	171	155	146	132	120	-51.2	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	188	166	152	146	129	117	-51.2	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	188	163	149	146	126	115	-51.2	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	188	159	146	146	123	113	-51.2	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	184	157	144	143	121	112	-51.2	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	181	154	143	140	120	110	-51.2	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	178	153	141	138	118	109	-51.2	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	175	151	140	136	117	108	-51.2	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	173	150	139	134	116	107	-51.2	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	171	148	138	132	115	107	-51.2	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
			Batten 16-ga. Finish Nails (0.060" SD x 2")	Batten Two fasteners every 16" o.c.	85	145	127	119	112	98	92	-51.2	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18		
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁸	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	Panel 10" o.c.	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁵	0-15	178	162	147	138	125	114	-45.9	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	178	157	144	138	122	111	-45.9	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	178	154	141	138	119	109	-45.9	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	178	151	139	138	117	107	-45.9	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	175	148	137	135	115	106	-45.9	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	171	146	135	133	113	105	-45.9	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	168	145	134	130	112	104	-45.9	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	166	143	132	128	111	103	-45.9	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	164	142	131	127	110	102	-45.9	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	162	140	130	125	109	101	-45.9	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
			Batten 16-ga. Finish Nails (0.060" SD x 2")	Batten Two fasteners every 16" o.c.	85	137	120	113	106	93	88	-45.9	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18		
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁸	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	Panel 12" o.c.	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁵	0-15	168	152	138	130	118	107	-40.7	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	168	148	135	130	115	105	-40.7	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	168	145	133	130	112	103	-40.7	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	168	142	130	130	110	101	-40.7	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	164	140	129	127	108	100	-40.7	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	161	138	127	125	107	98	-40.7	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	158	136	126	123	105	97	-40.7	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	156	135	125	121	104	97	-40.7	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	154	133	124	119	103	96	-40.7	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	152	132	123	118	102	95	-40.7	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
			Batten 16-ga. Finish Nails (0.060" SD x 2")	Batten Two fasteners every 16" o.c.	85	129	113	-	100	88	-	-40.7	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18		
HardieSoffit Panel	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	6"	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁵	0-15	176	159	145	136	123	112	-44.5	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	176	155	141	136	120	110	-44.5	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	176	152	139	136	117	108	-44.5	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	176	148	136	136	115	106	-44.5	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	172	146	135	133	113	104	-44.5	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	169	144	133	131	112	103	-44.5	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	166	142	132	128	110	102	-44.5	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	163	141	130	126	109	101	-44.5	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	161	139	129	125	108	100	-44.5	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	159	138	128	123	107	99	-44.5	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
			Batten 16-ga. Finish Nails (0.060" SD x 2")	Batten Two fasteners every 16" o.c.	85	135	119	111	105	92	86	-44.5	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18		

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS¹

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS ¹																							
								2023/2026 FBC Ultimate Design Wind Speed, V _{ult} ^{4,6,7} or 2018/2021/2024 IBC Basic Design Wind Speed, V ^{5,6,7}			2023/2026 FBC Nominal Design Wind Speed or 2018/2021/2024 IBC Allowable Stress Design Wind Speed V _{asd} ^{3,7}			Coefficients used for calculations ⁶									
								Wind Exposure Category			Wind Exposure Category			Design Load (PSF)	K _z								
Product	Siding Thickness (inches)	Siding Width (inches)	Fastener Type	Fastener Spacing	Frame Type	Stud Spacing (inches)	Building Height ² (feet)	B	C	D	B	C	D			Exp B	Exp C	Exp D		K _{zt}	K _d	K _e	GC _p
HardieSoffit Panel	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	8"	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁸	0-15	163	148	135	127	115	104	-38.6	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	163	144	132	127	112	102	-38.6	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	163	141	129	127	109	100	-38.6	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	163	138	127	127	107	98	-38.6	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	160	136	125	124	105	97	-38.6	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	157	134	124	122	104	96	-38.6	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	154	133	123	120	103	95	-38.6	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	152	131	121	118	101	94	-38.6	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	150	130	120	116	101	93	-38.6	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	148	129	119	115	100	93	-38.6	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
HardieSoffit Panel	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	10"	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁸	85	126	110	-	97	85	-	-38.6	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18
							0-15	150	136	124	116	106	96	-32.6	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	150	133	121	116	103	94	-32.6	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	150	130	119	116	100	92	-32.6	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	150	127	117	116	98	90	-32.6	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	147	125	115	114	97	89	-32.6	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	144	123	114	112	96	88	-32.6	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	142	122	113	110	94	87	-32.6	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	140	120	112	108	93	86	-32.6	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	138	119	111	107	92	86	-32.6	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
HardieSoffit Panel	1/4	<=16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	12"	Attached ONLY to 7/16" wood structural panel (WSP)	7/16" WSP attached per code ⁸	60	136	118	-	106	92	-	-32.6	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
							85	116	-	-	90	-	-	-32.6	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18
							0-15	136	123	112	105	96	87	-26.7	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	136	120	-	105	93	-	-26.7	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	136	117	-	105	91	-	-26.7	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	136	115	-	105	89	-	-26.7	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	133	113	-	103	88	-	-26.7	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	130	112	-	101	86	-	-26.7	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	128	110	-	99	85	-	-26.7	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	126	-	-	98	-	-	-26.7	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
HardieSoffit Panel	1/4	16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	6"	Attached Direct to 2x4 Framing (G = 0.42 min.)	16	55	125	-	-	97	-	-	-26.7	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	123	-	-	96	-	-	-26.7	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
							85	-	-	-	-	-	-	-26.7	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18
							0-15	165	150	136	128	116	106	-39.5	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	165	146	133	128	113	103	-39.5	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	165	143	131	128	111	101	-39.5	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	165	140	128	128	108	100	-39.5	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	162	138	127	125	107	98	-39.5	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	159	136	125	123	105	97	-39.5	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
							45	156	134	124	121	104	96	-39.5	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
HardieSoffit Panel	1/4	16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	8"	Attached Direct to 2x4 Framing (G = 0.42 min.)	16	50	154	133	123	119	103	95	-39.5	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	152	131	122	118	102	94	-39.5	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	150	130	121	116	101	94	-39.5	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
							85	127	112	-	98	87	-	-39.5	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18
							0-15	158	143	130	122	111	101	-36.1	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	158	139	127	122	108	99	-36.1	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	158	136	125	122	106	97	-36.1	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	158	134	123	122	103	95	-36.1	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	155	132	121	120	102	94	-36.1	0.73	1.01	1.19		1	0.85	1	-1.4	0.18
							40	152	130	120	117	100	93	-36.1	0.76	1.04	1.22		1	0.85	1	-1.4	0.18
HardieSoffit Panel	1/4	16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	10"	Attached Direct to 2x4 Framing (G = 0.42 min.)	16	45	149	128	118	116	99	92	-36.1	0.79	1.07	1.25		1	0.85	1	-1.4	0.18
							50	147	127	117	114	98	91	-36.1	0.81	1.09	1.27		1	0.85	1	-1.4	0.18
							55	145	125	116	112	97	90	-36.1	0.83	1.11	1.29		1	0.85	1	-1.4	0.18
							60	143	124	116	111	96	89	-36.1	0.85	1.13	1.31		1	0.85	1	-1.4	0.18
							85	121	-	-	94	-	-	-36.1	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18
							0-15	150	136	124	116	106	96	-32.6	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18
							20	150	133	121	116	103	94	-32.6	0.70	0.9	1.08		1	0.85	1	-1.4	0.18
							25	150	130	119	116	100	92	-32.6	0.70	0.94	1.12		1	0.85	1	-1.4	0.18
							30	150	127	117	116	98	90	-32.6	0.70	0.98	1.16		1	0.85	1	-1.4	0.18
							35	147	125	115	114	97	89	-32.6	0.73	1.01	1.19		1	0.85	1	-1.4	0.18

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS¹

TABLE 7 - MAXIMUM WIND SPEED (MPH) FOR HARDIESOFFIT PANEL SIDINGS ¹																								
								2023/2026 FBC Ultimate Design Wind Speed, V _{ult} ^{4,6,7} or 2018/2021/2024 IBC Basic Design Wind Speed, V ^{5,6,7}			2023/2026 FBC Nominal Design Wind Speed or 2018/2021/2024 IBC Allowable Stress Design Wind Speed V _{asd} ^{3,7}			Coefficients used for calculations ⁶										
								Wind Exposure Category			Wind Exposure Category			Design Load (PSF)	K _z			K _{zt}			K _d	K _e	GC _p	GC _{pi}
Product	Siding Thickness (inches)	Siding Width (inches)	Fastener Type	Fastener Spacing	Frame Type	Stud Spacing (inches)	Building Height ² (feet)	B	C	D	B	C	D	Design Load (PSF)	Exp B	Exp C	Exp D		K _{zt}	K _d	K _e	GC _p	GC _{pi}	
HardieSoffit Panel	1/4	16	Panel 4D Ring Shank Nails (0.090" SD x 0.215" HD x 1.5" L)	12"	Attached Direct to 2x4 Framing (G = 0.42 min.)	16	0-15	142	129	117	110	100	91	-29.2	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18	
							20	142	125	114	110	97	89	-29.2	0.70	0.9	1.08		1	0.85	1	-1.4	0.18	
							25	142	123	112	110	95	87	-29.2	0.70	0.94	1.12		1	0.85	1	-1.4	0.18	
							30	142	120	110	110	93	86	-29.2	0.70	0.98	1.16		1	0.85	1	-1.4	0.18	
							35	139	118	-	108	92	-	-29.2	0.73	1.01	1.19		1	0.85	1	-1.4	0.18	
							40	136	117	-	106	90	-	-29.2	0.76	1.04	1.22		1	0.85	1	-1.4	0.18	
							45	134	115	-	104	89	-	-29.2	0.79	1.07	1.25		1	0.85	1	-1.4	0.18	
							50	132	114	-	102	88	-	-29.2	0.81	1.09	1.27		1	0.85	1	-1.4	0.18	
							55	131	113	-	101	87	-	-29.2	0.83	1.11	1.29		1	0.85	1	-1.4	0.18	
							60	129	112	-	100	87	-	-29.2	0.85	1.13	1.31		1	0.85	1	-1.4	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁹	1/4	16	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	182	165	150	141	128	116	-48.0	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18	
							20	182	161	147	141	125	114	-48.0	0.70	0.9	1.08		1	0.85	1	-1.4	0.18	
							25	182	157	144	141	122	112	-48.0	0.70	0.94	1.12		1	0.85	1	-1.4	0.18	
							30	182	154	142	141	119	110	-48.0	0.70	0.98	1.16		1	0.85	1	-1.4	0.18	
							35	179	152	140	138	118	108	-48.0	0.73	1.01	1.19		1	0.85	1	-1.4	0.18	
							40	175	150	138	136	116	107	-48.0	0.76	1.04	1.22		1	0.85	1	-1.4	0.18	
							45	172	148	137	133	114	106	-48.0	0.79	1.07	1.25		1	0.85	1	-1.4	0.18	
							50	169	146	135	131	113	105	-48.0	0.81	1.09	1.27		1	0.85	1	-1.4	0.18	
							55	167	145	134	130	112	104	-48.0	0.83	1.11	1.29		1	0.85	1	-1.4	0.18	
							60	165	143	133	128	111	103	-48.0	0.85	1.13	1.31		1	0.85	1	-1.4	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁹	1/4	16	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	178	161	147	138	125	114	-45.6	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18	
							20	178	157	143	138	121	111	-45.6	0.70	0.9	1.08		1	0.85	1	-1.4	0.18	
							25	178	153	141	138	119	109	-45.6	0.70	0.94	1.12		1	0.85	1	-1.4	0.18	
							30	178	150	138	138	116	107	-45.6	0.70	0.98	1.16		1	0.85	1	-1.4	0.18	
							35	174	148	136	135	115	106	-45.6	0.73	1.01	1.19		1	0.85	1	-1.4	0.18	
							40	171	146	135	132	113	104	-45.6	0.76	1.04	1.22		1	0.85	1	-1.4	0.18	
							45	168	144	133	130	112	103	-45.6	0.79	1.07	1.25		1	0.85	1	-1.4	0.18	
							50	165	142	132	128	110	102	-45.6	0.81	1.09	1.27		1	0.85	1	-1.4	0.18	
							55	163	141	131	126	109	101	-45.6	0.83	1.11	1.29		1	0.85	1	-1.4	0.18	
							60	161	140	130	125	108	101	-45.6	0.85	1.13	1.31		1	0.85	1	-1.4	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁹	1/4	16	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	173	157	143	134	122	111	-43.3	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18	
							20	173	153	139	134	118	108	-43.3	0.70	0.9	1.08		1	0.85	1	-1.4	0.18	
							25	173	149	137	134	116	106	-43.3	0.70	0.94	1.12		1	0.85	1	-1.4	0.18	
							30	173	146	135	134	113	104	-43.3	0.70	0.98	1.16		1	0.85	1	-1.4	0.18	
							35	170	144	133	131	112	103	-43.3	0.73	1.01	1.19		1	0.85	1	-1.4	0.18	
							40	166	142	131	129	110	102	-43.3	0.76	1.04	1.22		1	0.85	1	-1.4	0.18	
							45	164	140	130	127	109	101	-43.3	0.79	1.07	1.25		1	0.85	1	-1.4	0.18	
							50	161	139	129	125	107	100	-43.3	0.81	1.09	1.27		1	0.85	1	-1.4	0.18	
							55	159	137	128	123	107	99	-43.3	0.83	1.11	1.29		1	0.85	1	-1.4	0.18	
							60	157	136	127	122	106	98	-43.3	0.85	1.13	1.31		1	0.85	1	-1.4	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁹	1/4	16	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	168	153	139	130	118	108	-40.9	0.70	0.85	1.03	h≤60	1	0.85	1	-1.4	0.18	
							20	168	148	136	130	115	105	-40.9	0.70	0.9	1.08		1	0.85	1	-1.4	0.18	
							25	168	145	133	130	113	103	-40.9	0.70	0.94	1.12		1	0.85	1	-1.4	0.18	
							30	168	142	131	130	110	101	-40.9	0.70	0.98	1.16		1	0.85	1	-1.4	0.18	
							35	165	140	129	128	109	100	-40.9	0.73	1.01	1.19		1	0.85	1	-1.4	0.18	
							40	162	138	128	125	107	99	-40.9	0.76	1.04	1.22		1	0.85	1	-1.4	0.18	
							45	159	136	126	123	106	98	-40.9	0.79	1.07	1.25		1	0.85	1	-1.4	0.18	
							50	157	135	125	121	105	97	-40.9	0.81	1.09	1.27		1	0.85	1	-1.4	0.18	
							55	155	134	124	120	104	96	-40.9	0.83	1.11	1.29		1	0.85	1	-1.4	0.18	
							60	153	133	123	118	103	95	-40.9	0.85	1.13	1.31		1	0.85	1	-1.4	0.18	
HardieSoffit Panel with HardieTrim Battens (2.5- inch width, 19.5 mm thick) ⁹	1/4	16	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	85	129	114	-	100	88	-	-40.9	0.95	1.23	1.39	h>60	1	0.85	1	-1.8	0.18	