

Issue Date: 10-31-2016
Revision Date: 10-30-2024
Renewal Date: 10-31-2025

DIVISION: 07 00 00 -THERMAL AND MOISTURE PROTECTION
Section: 07 45 00 – Fiber-reinforced Cementitious Panels

REPORT HOLDER:
Nichiha USA Inc.
6465 E. Johns Crossing, Suite 250
Johns Creek, Georgia 30097
www.nichiha.com

REPORT SUBJECT:
NichiProducts™ Fiber-Cement Siding Products

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)
- 2024 International Wildland-Urban Interface Code (IWUIC)
- 2023 *Florida Building Code* – Building (FBC) and Residential (FRC) (including HVHZ) (see Section 9)
- 2022 *California Building Code* – Building (CBC) and Residential (CRC) (see Section 9)

NOTE: This report references the most recent version of the Codes cited. Section numbers for earlier versions of the Code may differ.

1.2 The NichiProducts™ siding products described in this report have been evaluated for the following properties (see Table 1):

- Physical properties
- Wind resistance
- Surface burning characteristics
- Noncombustibility
- Weather protection

1.3 The NichiProducts™ siding products have been evaluated for the following uses (see Table 1):

- Use as an exterior wall covering in accordance with IBC Section 1404.16 and IRC Section R703.10
- Use on exterior walls in Types I, II, III, and IV construction

- Use on exterior walls permitted to be of Type V construction

2.0 STATEMENT OF COMPLIANCE

The NichiProducts™ siding products recognized in this report comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

2.1 2024 IBC and IRC Evaluation Reports

The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION

3.1 NichiProducts™ Fiber Cement Siding Products: The siding products are used for lap and panel siding. A description of the siding products, their dimensions and their intended application is in Table 2.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Physical Properties: The siding products comply with ASTM C1186, Type A, Grade II, in accordance with IBC Section 1403.9 and IRC Section R703.10.

4.2 Wind Resistance: The maximum allowable wind pressure for each of the siding products is described in Tables 3, 4, 5 and 6.

4.3 Surface Burning Characteristics: The siding products have a flame spread index of 0 and a smoke-developed index of 0, when tested in accordance with ASTM E84.

4.4 Noncombustibility: The siding products are noncombustible building construction materials complying



with IBC Section 703.3 as determined by testing in accordance with ASTM E136.

4.5 Ignition-resistant material: The siding products recognized in this report are ignition-resistant building materials in accordance with IWUIC Section 503.2.1.

4.5 Weather Protection: Siding products are installed in accordance with Section 5.2 of this report.

4.6 Fire-resistance-rated Construction: Fire-resistance-rated construction is outside the scope of this report.

5.0 INSTALLATION

5.1 General: The siding must be installed in accordance with the Nichiha USA Inc. published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application: Under the IBC, the siding products must be installed over a water-resistive barrier complying with Sections 1403.2 and 1402.5 and must be attached as described for the specific assembly in Tables 3, 4, 5, 6, 7, and 8.

Under the IRC, the siding products must be installed over a water-resistive barrier complying with Section R703.2. Lap siding and panel siding may be installed as described in Table R703.3(1) and R703.10, or as described in Tables 3 through 6. For installation on soffits, installation must be in accordance with R704.2.2 or R704.3.2. For conditions that exceed these limits, the panels must be installed as described in Table 9.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 When allowable wind speed is determined in accordance with Table 3, the allowable wind speed must be equal to or greater than the design wind speed calculated in accordance with the applicable Code.

6.3 When the wall construction includes a combustible water-resistive barrier and is required to be of Type I, II, III, or IV construction, use of the siding products is limited to a maximum 40 feet in height above grade plane except under the 2018 [2015] IBC where data has been presented to the building official demonstrating compliance with the Exception to Section 1402.5.

6.4 The NichiProducts™ siding products are produced under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM C1186, ASTM E84, ASTM E136, and ASTM E330.

7.2 Intertek Listing Report "Nichiha USA Inc. - NichiProducts™ Fiber-Cement Siding Products" on the [Intertek Directory of Building Products](#).

7.3 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

8.0 IDENTIFICATION

The NichiProducts™ siding products are identified with the Nichiha USA Inc. name, and address, the product name, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0258).



9.0 OTHER CODES

9.1 California Building Code

9.1.1 Scope of Evaluation: The NichiProducts™ siding products were evaluated for compliance with the 2022 *California Building Code*, including Chapter 7A. The siding products are noncombustible materials as defined in *CBC*





Section 202 and as permitted for use on exterior walls in CBC Section 707A.3.

9.1.2 Conclusion: The siding products, described in Sections 2.0 through 7.0 of this report, comply with the 2022 *California Building Code*, subject to the conditions noted in Section 6.0 of this report. Section numbers for the 2022 CBC – *Building and Residential* correspond to the 2021 IBC and IRC section numbers.

9.2 Florida Building Code

9.2.1 Scope of Evaluation: The NichiProducts™ siding products were evaluated for compliance with the *Florida Building Code – Building and Florida Building Code – Residential*.

9.2.2 Conclusion: The siding products described in Sections 2.0 through 7.0 of this report, comply with the *Florida Building Code – Building and Florida Building Code – Residential*, subject to the following conditions:

- Use of the NichiProducts Siding in Types I, II, III, or IV construction, is as permitted in *Florida Building Code – Building*, Section 1406.2.1.
- Attachment of NichiProducts for compliance with the High-Velocity Hurricane Zone (HVHZ) provisions of the

Florida Building Code – Building and the Florida Building Code – Residential is described in Table 8 of this report.

- In HVHZ applications, the NichiProducts siding must be installed over CBS construction or 5/8 in. (5-Ply) plywood supported by 2 × 6 wood or No. 18 gage metal studs, spaced at 16 inches on center.
- Intertek is an approved *evaluation entity* and *quality assurance entity* pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION ¹	2021 IBC, 2022 CBC SECTION ¹	2024, 2021 IRC, 2022 CRC SECTION ¹	2023 FBC – Building ¹	2023 FBC – Residential ¹
Physical properties	1403.9	1403.10	R703.10	1404.10	R703.10
Surface burning characteristics	1403.9	1403.10	R703.10	1404.10	R703.10
Noncombustibility	703.3	703.3	NA	703.5	NA
Wind resistance	1404.16	1404.16	R703.16	1405.16	703.1.2
Weather resistance	1403.2	1403.2	R703.2	1404.2	R703.2

¹ Section numbers may be different for earlier versions of the International, California, and Florida Codes.

TABLE 2 – NICHIIHA SIDING DESCRIPTION

Product Name	Nominal Thickness (in.)	Siding Dimensions	Intended Use	Description
NichiBoard™ plank	5/16	Width: 5.25, 6.25, 7.25, 8.25, 9.25 and 12 inches Length: 12 feet	Lap siding	Smooth or Cedar finish
NichiPanel™ sheets	5/16	4 feet by 8 feet 4 feet by 10 feet 4 feet by 12 feet	Panel siding	Cedar, Smooth, Stucco and Grooved-8-in.- oc- Cedar finish
NichiStraight™ and NichiStaggered™ lap panels	5/16	16 inches wide by 4 foot long	Lap panel siding	Designed to look like individual cedar shakes
NichiShake™ cladding	5/16	Width: 6.25, 8.25 and 12 inches Length: 18 inches	Lap shingle siding	Designed to look like individual cedar shakes
NichiSoffit™	1/4	12, 16 inches wide by 12 feet long; 24, 48 inches wide by 8 feet long	Soffit	Vented or Nonvented; Smooth or Cedar finish



Table 3 - Design Loads for Negative Transverse Wind Load (NichiBoard™ Plank)^{1,4,7}

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³									
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D							
5.25" / 6.25" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	Face	16	5.25/6.25	SPF	-49.5	15	143	130	118	185	168	153							
							20	143	126	115	185	163	149							
							25	143	124	113	185	160	146							
							30	143	121	111	185	156	144							
							40	138	118	109	178	152	140							
							50	133	115	106	172	148	137							
							60	130	113	105	168	146	135							
					DF	-76.5	15	170	162	147	210	209	190							
							20	170	157	144	210	203	185							
							25	170	154	141	210	199	182							
							30	170	151	139	210	195	179							
							40	170	146	135	210	189	174							
							50	166	143	132	210	184	171							
							60	162	140	130	209	181	168							
			24	5.25/6.25	SPF	-33.0	15	117	106	97	151	137	125							
							20	117	103	94	151	133	122							
							25	117	101	93	151	130	119							
							30	117	99	91	151	128	117							
							40	112	96	89	145	124	114							
							50	109	94	87	141	121	112							
							60	106	92	86	137	119	110							
					DF	-51.0	15	146	132	120	188	171	155							
							20	146	128	117	188	166	151							
							25	146	126	115	188	162	149							
							30	146	123	113	188	159	146							
							40	140	119	110	180	154	142							
							50	135	117	108	175	151	140							
							60	132	115	106	171	148	137							
5.25" / 6.25" NichiBoard™	8d Galvanized Nail 2.5 in. long 0.279 in. head dia. 0.123 in. shank dia.		16	5.25/6.25	SPF	-85	15	170	170	155	210	210	200							
							20	170	166	151	210	210	195							
							25	170	162	148	210	209	191							
							30	170	159	146	210	205	188							
							40	170	154	142	210	199	184							
							50	170	150	140	210	194	180							
							60	170	147	137	210	190	177							
							5.25" / 6.25" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	Blind	16	5.25/6.25	SPF	-35.1	15	121	110	100	156	142	129
														20	121	107	97	156	138	126
														25	121	104	96	156	135	123
30	121	102	94	156	132	121														
40	116	99	92	150	128	118														
50	112	97	90	145	125	116														
60	110	95	88	142	123	114														
24	5.25/6.25	SPF	-23.4	15	99	90				--	127	116	--							
				20	99	87				--	127	112	--							
				25	99	85				--	127	110	--							
							30	99	--	--	127	108	--							
							40	95	--	--	122	--	--							
							50	92	--	--	118	--	--							
							60	90	--	--	116	--	--							



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**Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³					
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D			
5.25" / 6.25" NichiBoard™	Galvanized Roofing Nail 1.75 in. long 0.365 in. head dia. 0.125 in. shank dia.	Blind	12	5.25/6.25	7/16" OSB	-41.0	15	130	118	108	168	153	139			
							20	130	115	105	168	149	136			
							25	130	113	103	168	145	133			
							30	130	110	101	168	142	131			
							40	125	107	99	162	138	128			
							50	121	105	97	157	135	125			
			16	5.25/6.25	7/16" OSB	-30.7	60	118	103	95	153	133	123			
							15	113	103	93	146	132	120			
							20	113	100	91	146	129	117			
							25	113	98	89	146	126	115			
							30	113	96	88	146	123	113			
							40	108	93	86	140	120	111			
			24	5.25/6.25	SPF	-56.1	50	105	91	--	136	117	108			
							60	103	89	--	132	115	107			
							15	153	139	126	197	179	163			
							20	153	135	123	197	174	159			
							25	153	132	121	197	170	156			
							30	153	129	119	197	167	153			
			5.25" / 6.25" NichiBoard™	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	Face	16	5.25/6.25	20 GA Steel	-136.3	40	147	125	116	189	162	149
										50	142	122	113	183	158	146
										60	139	120	112	179	155	144
										15	92	--	--	119	108	--
										20	92	--	--	119	105	--
										25	92	--	--	119	--	--
Blind	16	5.25/6.25			20 GA Steel	-27.5	30	92	--	--	119	--	--			
							40	89	--	--	114	--	--			
							50	86	--	--	111	--	--			
							60	--	--	--	108	--	--			
							15	125	113	103	161	146	133			
							20	125	110	100	161	142	130			
5.25" / 6.25" NichiBoard™	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	Face	24	5.25/6.25	20 GA Steel	-90.9	25	125	108	99	161	139	127			
							30	125	105	97	161	136	125			
							40	120	102	94	154	132	122			
							50	116	100	93	150	129	119			
							60	113	98	91	146	127	118			
							15	170	170	170	210	210	210			
		Blind	16	5.25/6.25	20 GA Steel	-27.5	20	170	170	170	210	210	210			
							25	170	170	170	210	210	210			
							30	170	170	170	210	210	210			
							40	170	170	170	210	210	210			
							50	170	170	170	210	210	210			
							60	170	170	170	210	210	210			
Blind	16	5.25/6.25	20 GA Steel	-27.5	15	170	170	160	210	210	207					
					20	170	170	156	210	210	202					
					25	170	168	154	210	210	198					
					30	170	164	151	210	210	195					
					40	170	159	147	210	206	190					
					50	170	156	144	210	201	186					
Blind	16	5.25/6.25	20 GA Steel	-27.5	60	170	153	142	210	197	183					
					15	107	97	88	138	125	114					
					20	107	94	86	138	122	111					
					25	107	92	--	138	119	109					
					30	107	90	--	138	117	107					
					40	103	88	--	132	113	--					
Blind	16	5.25/6.25	20 GA Steel	-27.5	50	99	86	--	128	111	--					
					60	97	--	--	125	109	--					



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**Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³							
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D					
7.25" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	Face	16	7.25	SPF	-42.7	15	133	121	110	172	156	142					
							20	133	117	107	172	152	138					
							25	133	115	105	172	148	136					
							30	133	113	103	172	145	134					
							40	128	109	101	165	141	130					
							50	124	107	99	160	138	128					
							60	121	105	97	156	135	126					
					DF	-66.0	15	166	150	136	210	194	176					
							20	166	146	133	210	188	172					
							25	166	143	131	210	184	169					
							30	166	140	129	210	181	166					
							40	159	136	125	205	175	162					
							50	154	133	123	199	171	159					
							60	150	130	121	194	168	156					
			24	7.25	SPF	-28.4	15	109	99	90	140	127	116					
							20	109	96	88	140	124	113					
							25	109	94	86	140	121	111					
							30	109	92	--	140	119	109					
							40	104	89	--	135	115	106					
							50	101	87	--	130	112	--					
							60	99	86	--	127	110	--					
					DF	-44.0	15	135	123	111	175	158	144					
							20	135	119	109	175	154	140					
							25	135	117	107	175	151	138					
							30	135	114	105	175	147	136					
							40	130	111	102	167	143	132					
							50	126	108	100	162	140	130					
							60	123	106	99	158	137	128					
	Blind	16	7.25	SPF	-26.1	15	104	95	86	135	122	111						
						20	104	92	--	135	119	108						
						25	104	90	--	135	116	106						
						30	104	88	--	135	114	--						
						40	100	85	--	129	110	--						
						50	97	--	--	125	108	--						
						60	95	--	--	122	106	--						
						8d Galvanized Nail 2.5 in. long 0.279 in. head dia. 0.123 in. shank dia.	Face	16	7.25	SPF	-85	15	170	170	155	210	210	200
												20	170	166	151	210	210	195
												25	170	162	148	210	209	191
												30	170	159	146	210	205	188
												40	170	154	142	210	199	184
												50	170	150	140	210	194	180
												60	170	147	137	210	190	177



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Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
7.25" NichiBoard™	Galvanized Roofing Nail 1.75 in. long 0.365 in. head dia. 0.125 in. shank dia	Blind	12	7.25	7/16" OSB	-35.3	15	121	110	100	156	142	129
							20	121	107	98	156	138	126
							25	121	105	96	156	135	124
							30	121	102	94	156	132	122
							40	116	99	92	150	128	118
							50	113	97	90	145	125	116
			24	7.25	SPF	-25.2	60	110	95	89	142	123	114
							15	102	93	--	132	120	109
							20	102	90	--	132	117	106
							25	102	88	--	132	114	--
							30	102	87	--	132	112	--
							40	98	--	--	127	108	--
							50	95	--	--	123	106	--
							60	93	--	--	120	--	--
7.25" NichiBoard	Galvanized Roofing Nail 1.75 in. long 0.326 in. head dia. 0.144 in. shank dia	Blind	16	7.25	SPF	-53	15	148	135	122	192	174	158
							20	148	131	119	192	169	154
							25	148	128	117	192	165	151
							30	148	125	115	192	162	149
							40	142	122	112	184	157	145
							50	138	119	110	178	153	142
							60	134	116	108	173	150	140



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**Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³				
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D		
7.25" NichiBoard™	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	Face	16	7.25	20 GA Steel	-117.5	15	170	170	170	210	210	210		
							20	170	170	170	210	210	210		
							25	170	170	170	210	210	210		
							30	170	170	170	210	210	210		
							40	170	170	167	210	210	210		
							50	170	170	164	210	210	210		
			24	7.25	20 GA Steel	-78.3	60	170	170	162	210	210	209		
							15	170	164	149	210	210	192		
							20	170	159	145	210	205	188		
							25	170	156	143	210	201	184		
							30	170	152	140	210	197	181		
							40	170	148	137	210	191	176		
8.25" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	Face	16	8.25	SPF	-37.5	50	168	145	134	210	187	173		
							60	164	142	132	210	183	170		
							15	125	113	103	161	146	133		
							20	125	110	100	161	142	130		
							25	125	108	99	161	139	127		
							30	125	105	97	161	136	125		
					DF	-58.0	40	120	102	95	155	132	122		
							50	116	100	93	150	129	120		
							60	113	98	91	146	127	118		
							15	155	141	128	200	182	165		
							20	155	137	125	200	177	161		
							25	155	134	123	200	173	158		
			24	8.25	SPF	-25.0	30	155	131	121	200	169	156		
							40	149	127	118	192	164	152		
							50	144	124	115	186	161	149		
							60	141	122	113	182	158	146		
							15	102	92	--	132	119	108		
							20	102	90	--	132	116	106		
					DF	-38.6	25	102	88	--	132	114	--		
							30	102	86	--	132	111	--		
							40	98	--	--	126	108	--		
							50	95	--	--	122	105	--		
							60	92	--	--	119	--	--		
							15	127	115	104	164	148	135		
			8d Galvanized Nail 2.5 in. long 0.279 in. head dia. 0.123 in. shank dia.	Face	16	8.25	SPF	-85	20	127	112	102	164	144	132
									25	127	109	100	164	141	129
									30	127	107	98	164	138	127
									40	122	104	96	157	134	124
									50	118	102	94	152	131	121
									60	115	100	93	148	129	120
DF	15	170					170		155	210	210	200			
	20	170					166		151	210	210	195			
	25	170					162		148	210	209	191			
	30	170					159		146	210	205	188			
	40	170					154		142	210	199	184			
	50	170					150		140	210	194	180			



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Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
8.25" NichiBoard™	Galvanized Roofing Nail 1.75 in. long 0.365 in. head dia. 0.125 in. shank dia	Blind	12	8.25	7/16" OSB	-29.5	15	111	100	91	143	130	118
							20	111	98	89	143	126	115
							25	111	96	87	143	123	113
							30	111	94	86	143	121	111
							40	106	91	--	137	117	108
							50	103	89	--	133	114	106
							60	100	87	--	130	112	--
	Galvanized Roofing Nail 1.75 in. long 0.326 head dia. 0.144 in. shank dia	Blind	16	8.25	SPF	-46	15	138	126	114	178	162	147
							20	138	122	111	178	157	143
							25	138	119	109	178	154	141
							30	138	117	107	178	151	139
							40	133	113	105	171	146	135
							50	128	111	103	166	143	132
	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	Face	16	8.25	20 GA Steel	-103.3	60	125	108	101	162	140	130
							15	170	170	170	210	210	210
							20	170	170	167	210	210	210
							25	170	170	164	210	210	210
							30	170	170	161	210	210	208
							40	170	170	157	210	210	203
							50	170	166	154	210	210	199
			60	170	163	151	210	210	195				
			24	8.25	20 GA Steel	-68.8	15	169	153	139	210	198	180
							20	169	149	136	210	193	176
							25	169	146	134	210	188	173
							30	169	143	131	210	185	170
							40	162	139	128	210	179	165
							50	157	136	126	203	175	162
60	153	133					124	198	172	160			



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**Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate ²								
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D						
9.25" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia	Face	16	9.25	SPF	-33.4	15	118	107	97	152	138	125						
							20	118	104	95	152	134	122						
							25	118	102	93	152	131	120						
							30	118	100	92	152	129	118						
							40	113	97	89	146	125	115						
							50	110	94	88	141	122	113						
			60	107	93	86	138	120	111										
			15	147	133	121	189	172	156										
			20	147	129	118	189	167	152										
			25	147	126	116	189	163	150										
			30	147	124	114	189	160	147										
			40	141	120	111	182	155	143										
			50	136	117	109	176	152	140										
			60	133	115	107	172	149	138										
			15	96	87	--	124	113	--										
			20	96	--	--	124	110	--										
			25	96	--	--	124	107	--										
			30	96	--	--	124	--	--										
	40	92	--	--	119	--	--												
	50	89	--	--	115	--	--												
	60	87	--	--	113	--	--												
	15	120	109	99	154	140	127												
	20	120	106	96	154	136	124												
	25	120	103	95	154	133	122												
	30	120	101	93	154	131	120												
	40	115	98	91	148	127	117												
50	111	96	89	144	124	115													
60	109	94	87	140	122	113													
8d Galvanized Nail 2.5 in. long 0.279 in. head dia. 0.123 in. shank dia.	Face	24	9.25	SPF	-22.3	15	170	170	155	210	210	200							
						20	170	166	151	210	210	195							
						25	170	162	148	210	209	191							
						30	170	159	146	210	205	188							
						40	170	154	142	210	199	184							
						50	170	150	140	210	194	180							
						60	170	147	137	210	190	177							
						15	99	90	--	127	116	105							
						20	99	87	--	127	112	--							
						25	99	85	--	127	110	--							
						30	99	--	--	127	108	--							
						40	95	--	--	122	--	--							
						50	92	--	--	118	--	--							
						60	90	--	--	116	--	--							
						9.25" NichiBoard™	Galvanized Roofing Nail 1.75 in. long 0.365 in. head dia. 0.125 in. shank dia	Blind	12	9.25	7/16" OSB	-23.5	15	119	108	98	153	139	126
													20	119	105	96	153	135	123
													25	119	102	94	153	132	121
													30	119	100	92	153	130	119
40	114	97	90	147	126								116						
50	110	95	88	143	123								114						
Galvanized Roofing Nail 1.75 in. long 0.326 head dia. 0.144 in. shank dia	16	9.25	SPF	-34	60		108		93	87	139	120	112						



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**Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
9.25" NichiBoard™	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia	Face	16	9.25	20 GA Steel	-92.1	15	170	170	161	210	210	208
							20	170	170	157	210	210	203
							25	170	169	155	210	210	200
							30	170	165	152	210	210	196
							40	170	160	148	210	207	191
							50	170	157	145	210	202	188
			24	9.25	20 GA Steel	-61.4	60	170	154	143	210	199	185
							15	160	145	132	206	187	170
							20	160	141	129	206	182	166
							25	160	138	126	206	178	163
							30	160	135	124	206	174	160
							40	153	131	121	198	169	156
							50	148	128	119	192	165	153
							60	145	126	117	187	162	151



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Table 3 - Continued (NichiBoard™ Plank)^{1,4,7}

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
12" NichiBoard™	6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	Face	16	12	SPF	-25.8	15	103	94	85	134	121	110
							20	103	91	--	134	118	108
							25	103	89	--	134	115	106
							30	103	87	--	134	113	--
							40	99	--	--	128	110	--
							50	96	--	--	124	107	--
							60	94	--	--	121	105	--
					DF	-39.8	15	129	117	106	166	151	137
							20	129	113	104	166	147	134
							25	129	111	102	166	143	131
							30	129	109	100	166	140	129
							40	123	106	97	159	136	126
							50	120	103	96	154	133	123
							60	117	101	94	151	131	121
			24	12	SPF	-17.2	15	--	--	--	109	--	--
							20	--	--	--	109	--	--
							25	--	--	--	109	--	--
							30	--	--	--	109	--	--
							40	--	--	--	--	--	--
							50	--	--	--	--	--	--
					DF	-26.6	15	105	95	87	136	123	112
							20	105	93	--	136	120	109
							25	105	91	--	136	117	107
							30	105	89	--	136	115	105
							40	101	86	--	130	111	--
							50	98	--	--	126	109	--
12" NichiBoard™	Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	Face	16	12	20 GA Steel	-71.0	15	170	156	142	210	201	183
							20	170	151	138	210	196	179
							25	170	148	136	210	191	175
							30	170	145	133	210	187	172
							40	165	141	130	210	182	168
							50	160	138	128	206	178	165
			24	12	20 GA Steel	-47.3	60	156	135	126	201	175	162
							15	140	127	116	181	164	149
							20	140	124	113	181	160	146
							25	140	121	111	181	156	143
							30	140	119	109	181	153	141
							40	135	115	106	174	149	137
							50	130	112	104	168	145	134
							60	127	110	103	164	142	132

Notes:

1. NichiBoard™ fiber cement lap siding may only be installed on vertical walls. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
2. ASCE 7-05 Basic Wind Speeds are based upon occupancy category II, a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cp}) equal to +/-0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. The effects of topographic features have not been considered and the wind speed has been limited to 170mph.
3. ASCE 7-10 and ASCE 7-16 Ultimate Wind Speeds are based upon a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cp}) equal to +/-0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 210mph.
4. The values in this table are based on testing per ASTM E330 and represent the allowable capacity of the siding to resist the wind pressures associated with the corresponding wind speed.
5. Fastener specifications for those used in testing are outlined in Table 9 of this Intertek CCRR. These specifications may be used by the designer of record to determine the acceptability of alternative fasteners.
6. Allowable design pressures in highlighted cells have been adjusted based on the listed allowable withdrawal capacity of the tested fastener.
7. Framing and bracing are beyond the scope of this evaluation report.
8. Allowable design pressures for assemblies described in this table may be applied where the NichiBoard Plank is attached to ASTM C90 fully-grouted CMU block wall using ITW Ramset TE Series power actuated fasteners (ICC-ES ESR-1799). Minimum fastener embedment is 1 inch; fasteners must be placed a minimum of 5.1 inches from the edge of the wall.
9. See Table 9 for minimum fastener dimensions.
10. The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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**Table 4 - Design Loads for Negative Transverse Wind Load (NichiPanel™ Sheet)^{1,4,7}**

Panel Fastener ^{5,9,10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
	Perimeter (in)	Field (in)					Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
6d Galvanized Nail 2.5 in. long 0.236 in. head dia. 0.097 in. shank dia.	6	12	SPF Lumber	16"o.c.	-28.7	15	109	99	90	141	128	116
						20	109	96	88	141	124	113
						25	109	94	86	141	122	111
						30	109	92	--	141	119	109
						40	105	90	--	135	116	107
						50	101	87	--	131	113	--
						60	99	86	--	128	111	--
6d Galvanized Nail 2.5 in. long 0.237 in. head dia. 0.099 in. shank dia.	8	8	SPF Lumber	16"o.c.	-43.0	15	134	121	110	173	157	142
						20	134	118	108	173	152	139
						25	134	115	106	173	149	136
						30	134	113	104	173	146	134
						40	128	110	101	166	142	131
						50	124	107	99	160	138	128
						60	121	105	98	157	136	126
			24"o.c.	-30.4	15	112	102	93	145	132	120	
					20	112	99	91	145	128	117	
					25	112	97	89	145	125	115	
					30	112	95	87	145	123	113	
					40	108	92	85	139	119	110	
					50	105	90	--	135	116	108	
					60	102	88	--	132	114	106	
6d Galvanized Nail 2 in. long 0.278 in. head dia. 0.119 in. shank dia.	6	6	SPF Lumber	16"o.c.	-75	15	170	160	146	210	207	188
						20	170	156	142	210	201	183
						25	170	152	139	210	196	180
						30	170	149	137	210	192	177
						40	169	145	134	210	187	173
						50	164	141	131	210	182	169
						60	160	139	129	206	179	167
			24"o.c.	-40.6	15	130	118	107	168	152	138	
					20	130	115	105	168	148	135	
					25	130	112	103	168	145	133	
					30	130	110	101	168	142	130	
					40	125	107	98	161	138	127	
					50	121	104	96	156	134	125	
					60	118	102	95	152	132	123	
6d Galvanized Nail 2 in. long 0.278 in. head dia. 0.119 in. shank dia.	6" along vertical studs only	6" along vertical studs only	SPF Lumber	16"o.c.	-70	15	170	155	141	210	200	181
						20	170	150	137	210	194	177
						25	170	147	134	210	189	174
						30	170	144	132	210	186	171
						40	164	140	129	210	180	167
						50	158	136	127	205	176	163
						60	154	134	125	199	173	161



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Table 4 - Continued (NichiPanel™ Sheet)^{1,4,7}

Panel Fastener ^{5,9,10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
	Perimeter (in)	Field (in)					Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
6d Galvanized Nail 2.5 in. long 0.237 in. head dia. 0.099 in. shank dia.	4	4	SPF Lumber	16"o.c.	-85.9	15	170	170	156	210	210	201
						20	170	167	152	210	210	196
						25	170	163	149	210	210	193
						30	170	160	147	210	206	189
						40	170	155	143	210	200	185
						50	170	151	140	210	195	181
				24"o.c.	-60.9	15	159	144	131	205	186	169
						20	159	140	128	205	181	165
						25	159	137	126	205	177	162
						30	159	134	124	205	174	159
						40	153	130	120	197	168	156
						50	148	127	118	191	165	152
8d Galvanized Siding Nail 2.5 in. long 0.313 in. head dia. 0.118 in. shank dia.	6	12	SPF Lumber	16"o.c.	-39.9	15	129	117	106	166	151	137
						20	129	114	104	166	147	134
						25	129	111	102	166	143	131
						30	129	109	100	166	141	129
						40	124	106	98	160	136	126
						50	120	103	96	155	133	123
				24"o.c.	-26.6	15	117	101	94	151	131	122
						15	105	95	87	136	123	112
						20	105	93	--	136	120	109
						25	105	91	--	136	117	107
						30	105	89	--	136	115	105
						40	101	86	--	130	111	--
8d Galvanized Siding Nail 2.5 in. long 0.313 in. head dia. 0.118 in. shank dia.	8	8	SPF Lumber	16"o.c.	-59.9	15	158	143	130	204	185	168
						20	158	139	127	204	180	164
						25	158	136	125	204	176	161
						30	158	133	123	204	172	158
						40	151	129	119	195	167	154
						50	147	126	117	189	163	151
				24"o.c.	-39.9	60	143	124	115	185	160	149
						15	129	117	106	166	151	137
						20	129	114	104	166	147	134
						25	129	111	102	166	143	131
						30	129	109	100	166	141	129
						40	124	106	98	160	136	126



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Table 4 - Continued (NichiPanel™ Sheet)^{1,4,7}

Panel Fastener ^{5,9, 10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
	Perimeter (in)	Field (in)					Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
8d Galvanized Siding Nail 2.5 in. long 0.313 in. head dia. 0.118 in. shank dia.	6	6	SPF Lumber	16" o.c.	79.9	15	170	165	150	210	210	194
						20	170	161	147	210	207	189
						25	170	157	144	210	203	186
						30	170	154	142	210	199	183
						40	170	149	138	210	193	178
						50	169	146	135	210	188	175
						60	165	143	133	210	185	172
				24" o.c.	53.3	15	149	135	123	192	174	158
						20	149	131	120	192	169	155
						25	149	128	118	192	166	152
						30	149	126	116	192	162	149
						40	143	122	113	184	158	145
						50	138	119	110	179	154	143
						60	135	117	109	174	151	140
8d Galvanized Siding Nail 2.5 in. long 0.313 in. head dia. 0.118 in. shank dia.	4	4	SPF Lumber	16" o.c.	119.8	15	170	170	170	210	210	210
						20	170	170	170	210	210	210
						25	170	170	170	210	210	210
						30	170	170	170	210	210	210
						40	170	170	169	210	210	210
						50	170	170	166	210	210	210
						60	170	170	163	210	210	210
				24" o.c.	79.9	15	170	165	150	210	210	194
						20	170	161	147	210	207	189
						25	170	157	144	210	203	186
						30	170	154	142	210	199	183
						40	170	149	138	210	193	178
						50	169	146	135	210	188	175
						60	165	143	133	210	185	172



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Table 4 - Continued (NichiPanel™ Sheet)^{1,4,7}

Panel Fastener ^{5,9,10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³					
	Perimeter (in)	Field (in)					Exp B	Exp C	Exp D	Exp B	Exp C	Exp D			
Corrosion Resistant Screw #8 Flat Wafer Head 1.625 in. long 0.406 in. head dia.	6	12	SPF Lumber	16"o.c.	-55.9	15	152	138	126	197	179	162			
						20	152	134	123	197	173	158			
						25	152	131	120	197	170	156			
						30	152	129	118	197	166	153			
						40	146	125	115	189	161	149			
						50	142	122	113	183	158	146			
				24"o.c.	-37.3	15	124	113	103	161	146	132			
						20	124	110	100	161	142	129			
						25	124	107	98	161	139	127			
						30	124	105	97	161	136	125			
						40	119	102	94	154	132	122			
						50	116	100	92	149	129	119			
				20 GA Steel	16"o.c.	-48.5	60	113	98	91	146	126	117		
							15	142	129	117	183	166	151		
			20				142	125	114	183	162	148			
			25				142	123	112	183	158	145			
			30				142	120	110	183	155	142			
			40				136	116	108	176	150	139			
			24"o.c.		-32.4	50	132	114	105	170	147	136			
						60	129	112	104	166	144	134			
						15	116	105	96	150	136	123			
						20	116	102	93	150	132	121			
						25	116	100	92	150	129	118			
						30	116	98	90	150	127	116			
						40	111	95	88	144	123	113			
			Corrosion Resistant Screw #8 Flat Wafer Head 1.625 in. long 0.406 in. head dia.	8	8	SPF Lumber	16"o.c.	-83.8	50	108	93	86	139	120	111
									60	105	91	--	136	118	109
24"o.c.	-55.9	15							170	169	154	210	210	199	
		20							170	165	150	210	210	194	
		25							170	161	147	210	208	190	
		30							170	158	145	210	204	187	
		40					170	153	141	210	198	182			
		50					170	149	138	210	193	179			
		60					169	147	136	210	190	176			
		24"o.c.					-55.9	15	152	138	126	197	179	162	
20	152							134	123	197	173	158			
25	152							131	120	197	170	156			
30	152							129	118	197	166	153			
40	146							125	115	189	161	149			
50	142					122		113	183	158	146				
20 GA Steel	16"o.c.	-72.8				60	138	120	111	179	155	144			
						15	170	158	143	210	204	185			
						20	170	153	140	210	198	181			
						25	170	150	137	210	194	177			
						30	170	147	135	210	190	174			
						40	167	143	132	210	184	170			
	24"o.c.	-48.5				50	162	139	129	209	180	167			
						60	158	137	127	204	177	164			
						15	142	129	117	183	166	151			
						20	142	125	114	183	162	148			
						25	142	123	112	183	158	145			
						30	142	120	110	183	155	142			
						40	136	116	108	176	150	139			
			50	132	114	105	170	147	136						
60	129	112	104	166	144	134									



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Table 4 - Continued (NichiPanel™ Sheet)^{1,4,7}

Panel Fastener ^{5,9,10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic ²			ASCE 7-10 or ASCE 7-16 Ultimate		
	Perimeter (in)	Field (in)					Wind Speed (MPH)			Wind Speed (MPH) ³		
							Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
Corrosion Resistant Screw #8 Flat Wafer Head 1.625 in. long 0.406 in. head dia.	6	6	SPF Lumber	16"o.c.	-111.8	15	170	170	170	210	210	210
						20	170	170	170	210	210	210
						25	170	170	170	210	210	210
						30	170	170	167	210	210	210
						40	170	170	163	210	210	210
						50	170	170	160	210	210	207
						60	170	170	158	210	210	203
				24"o.c.	-74.5	15	170	160	145	210	206	187
						20	170	155	142	210	200	183
						25	170	152	139	210	196	180
						30	170	149	137	210	192	176
						40	169	144	133	210	186	172
						50	164	141	131	210	182	169
						60	160	138	129	206	179	166
			20 GA Steel	16"o.c.	-97.0	15	170	170	166	210	210	210
						20	170	170	162	210	210	209
						25	170	170	159	210	210	205
						30	170	170	156	210	210	201
						40	170	165	152	210	210	196
						50	170	161	149	210	208	192
						60	170	158	147	210	204	189
				24"o.c.	-64.6	15	164	149	135	210	192	174
						20	164	145	132	210	187	170
						25	164	141	130	210	183	167
						30	164	138	127	210	179	164
						40	157	134	124	203	174	160
						50	152	131	122	197	170	157
Corrosion Resistant Screw #8 Flat Wafer Head 1.625 in. long 0.406 in. head dia.	4	4	SPF Lumber	16"o.c.	-136.0	15	170	170	170	210	210	210
						20	170	170	170	210	210	210
						25	170	170	170	210	210	210
						30	170	170	170	210	210	210
						40	170	170	170	210	210	210
						50	170	170	170	210	210	210
						60	170	170	170	210	210	210
				24"o.c.	-90.6	15	170	170	160	210	210	207
						20	170	170	156	210	210	202
						25	170	167	153	210	210	198
						30	170	164	151	210	210	195
						40	170	159	147	210	206	190
						50	170	156	144	210	201	186
						60	170	153	142	210	197	183
			20 GA Steel	16"o.c.	-136.0	15	170	170	170	210	210	210
						20	170	170	170	210	210	210
						25	170	170	170	210	210	210
						30	170	170	170	210	210	210
						40	170	170	170	210	210	210
						50	170	170	170	210	210	210
						60	170	170	170	210	210	210
				24"o.c.	-90.6	15	170	170	160	210	210	207
						20	170	170	156	210	210	202
						25	170	167	153	210	210	198
						30	170	164	151	210	210	195
						40	170	159	147	210	206	190
						50	170	156	144	210	201	186



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Table 4 - Continued (NichiPanel™ Sheet)^{1,4,7}

Panel Fastener ^{5,9,10}	Fastener Spacing		Framing Type	Framing Spacing	Allowable Design Pressure ⁶ (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
	Perimeter (in)	Field (in)					Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia	6	12	20 GA Steel	16"o.c.	-29.3	15	110	100	91	142	129	117
20						110	97	89	142	126	115	
25						110	95	87	142	123	113	
30						110	93	86	142	120	111	
40						106	90	--	137	117	108	
50						102	88	--	132	114	106	
						60	100	87	--	129	112	--
Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	8	8	20 GA Steel	16"o.c.	-43.9	15	135	123	111	174	158	144
20						135	119	109	174	154	140	
25						135	117	107	174	150	138	
30						135	114	105	174	147	135	
40						130	111	102	167	143	132	
50						126	108	100	162	140	129	
						60	123	106	99	158	137	127
Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia.	6	6	20 GA Steel	16"o.c.	-58.5	15	156	141	129	201	183	166
20						156	137	126	201	178	162	
25						156	135	123	201	174	159	
30						156	132	121	201	170	156	
40						150	128	118	193	165	152	
50						145	125	116	187	161	149	
						60	141	123	114	183	158	147
Aerosmith Fastening Systems, VersaPin 1.375 in. long 0.251 in. head dia. 0.107 in. shank dia	4	4	20 GA Steel	16"o.c.	-87.9	15	170	170	158	210	210	203
						20	170	169	154	210	210	199
						25	170	165	151	210	210	195
						30	170	161	148	210	208	192
						40	170	157	145	210	202	187
						50	170	153	142	210	198	183
						60	170	150	140	210	194	180
				24"o.c.	-35.6	15	122	110	100	157	143	129
						20	122	107	98	157	139	126
						25	122	105	96	157	136	124
						30	122	103	95	157	133	122
						40	117	100	92	151	129	119
						50	113	98	90	146	126	117
						60	110	96	89	143	124	115

Notes:

- The tabulated wind speeds correlating with allowable design pressures apply only to vertical walls. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
- ASCE 7-05 Basic Wind Speeds are based upon occupancy category II, a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{cpi}) equal to +/- 0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. The effects of topographic features have not been considered and the wind speed has been limited to 170mph.
- ASCE 7-10 and ASCE 7-16 Ultimate Wind Speeds are based upon a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{cpi}) equal to +/-0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 210mph.
- The values in this table are based on testing per ASTM E330 and represent the allowable capacity of the siding to resist the wind pressures associated with the corresponding wind speed.
- Fastener specifications for those used in testing are outlined in Table 9 of this Intertek CCRR. These specifications may be used by the designer of record to determine the acceptability of alternative fasteners.
- Allowable design pressures in highlighted cells have been adjusted based on the listed allowable withdrawal capacity of the tested fastener.
- Framing and bracing are beyond the scope of this evaluation report.
- Allowable design pressures for assemblies described in this table may be applied where the NichiPanel is attached to ASTM C90 fully-grouted CMU block wall using ITW Ramset TE Series power actuated fasteners (ICC-ES ESR-1799). Minimum fastener embedment is 1 inch; fasteners must be placed a minimum of 5.1 inches from the edge of the wall.
- See Table 9 for minimum fastener dimensions.
- The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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**Table 5 - Design Loads for Negative Transverse Wind Load (NichiStraight™/NichiStaggered™ Lap Panel)^{1,4,7}**

Siding Type	Siding Fastener ^{5,9,10}	Face/Blind	Effective Fastener Spacing		Framing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
			Frame/Horizontal (in)	Field (in)				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
NichiStraight™/NichiStaggered™	6d Galvanized Nail 2.5 in. long 0.237 in. head dia. 0.099 in. shank dia.	Blind	12	8.625	7/16" OSB	-23.5	15	99	90	--	128	116	105
							20	99	87	--	128	113	--
							25	99	85	--	128	110	--
							30	99	--	--	128	108	--
							40	95	--	--	122	--	--
							50	92	--	--	119	--	--
							60	90	--	--	116	--	--
			16	8.625	SPF	-35.9	15	122	111	101	158	143	130
							20	122	108	98	158	139	127
							25	122	105	96	158	136	125
							30	122	103	95	158	133	122
							40	117	100	92	151	129	119
							50	113	98	91	146	126	117
							60	111	96	89	143	124	115
			24	8.625	SPF	-23.9	15	100	90	--	129	117	106
							20	100	88	--	129	113	--
							25	100	86	--	129	111	--
							30	100	--	--	129	109	--
							40	96	--	--	123	106	--
							50	93	--	--	120	--	--
							60	90	--	--	117	--	--
	8 Galvanized Nail 2.5 in. long 0.279 in. head dia. 0.123 in. shank dia.	Blind	16	8.625	SPF	-70	15	170	155	141	210	200	181
							20	170	150	137	210	194	177
							25	170	147	134	210	189	174
							30	170	144	132	210	186	171
							40	164	140	129	210	180	167
							50	158	136	127	205	176	163
							60	154	134	125	199	173	161
NichiStraight™/NichiStaggered™	Corrosion Resistant Screw #8 Flat Wafer Head 1.625 in. long 0.395 in. head dia. #8-18 Wafer Head Screws	Blind	24	8.625	20 GA Steel	-49.6	15	144	130	118	185	168	153
							20	144	127	116	185	163	149
							25	144	124	114	185	160	147
							30	144	121	112	185	157	144
							40	138	118	109	178	152	140
							50	133	115	107	172	149	138
							60	130	113	105	168	146	136

Notes:

1. **NichiStraight™/NichiStaggered™ Lap Panel** fiber cement siding may only be installed on vertical walls. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
2. ASCE 7-05 Basic Wind Speeds are based upon occupancy category II, a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{cpi}) equal to +/-0.18, and an external pressure coefficient (G_{cpe}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 170mph.
3. ASCE 7-10 and ASCE 7-16 Ultimate Wind Speeds are based upon a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{cpi}) equal to +/-0.18, and an external pressure coefficient (G_{cpe}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 210mph.
4. The values in this table are based on testing per ASTM E330 and represent the allowable capacity of the siding to resist the wind pressures associated with the corresponding wind speed.
5. Fastener specifications for those used in testing are outlined in Table 9 of this Intertek CCRR. These specifications may be used by the designer of record to determine the acceptability of alternative fasteners.
6. Allowable design pressures in highlighted cells have been adjusted based on the listed allowable withdrawal capacity of the tested fastener.
7. Framing and bracing are beyond the scope of this evaluation report.
8. Allowable design pressures for assemblies described in this table may be applied where the NichiStraight/NichiStaggered lap panels are attached to ASTM C90 fully-grouted CMU block wall using ITW Ramset TE Series power actuated fasteners (ICC-ES ESR-1799). Minimum fastener embedment is 1 inch; fasteners must be placed a minimum of 5.1 inches from the edge of the wall.
9. See Table 9 for minimum fastener dimensions.
10. The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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**Table 6 – Design Loads for Negative Transverse Wind Load (NichiShake™ Shingles)^{1,4,7}**

Siding Fastener ⁵	Fasteners per Shake			Sheathing Type	Allowable Design Pressure (psf) ⁶	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
	6-1/4" Width	8-1/4" Width	12" Width				Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
6d Galvanized Nail 2 in. long 0.237 in. head dia. 0.099 in. shank dia.	2	2	3	7/16" OSB	-30.6	15	113	102	93	146	132	120
						20	113	99	91	146	128	117
						25	113	97	89	146	126	115
						30	113	95	88	146	123	113
						40	108	93	85	140	119	110
						50	105	90	--	135	117	108
						60	102	89	--	132	115	106

Notes:

1. **NichiShake™** fiber-cement shingle siding may only be installed on vertical walls. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
2. ASCE 7-05 Basic Wind Speeds are based upon occupancy category II, a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cpi}) equal to +/- 0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 170mph.
3. ASCE 7-10 and ASCE 7-16 Ultimate Wind Speeds are based upon a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cpi}) equal to +/- 0.18, and an external pressure coefficient (G_{Cp}) equal to -1.4. Under ASCE 7-16, the wind speeds are based on K_e = 1.0. The effects of topographic features have not been considered and the wind speed has been limited to 210mph.
4. The values in this table are based on testing per ASTM E330 and represent the allowable capacity of the siding to resist the wind pressures associated with the corresponding wind speed.
5. Fastener specifications for those used in testing are outlined in Table 9 of this Intertek CCRR. These specifications may be used by the designer of record to determine the acceptability of alternative fasteners.
6. Allowable design pressures in highlighted cells have been adjusted based on the listed allowable withdrawal capacity of the tested fastener.
7. Framing and bracing are beyond the scope of this evaluation report.
8. See Table 9 for minimum fastener dimensions.
9. The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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**Table 7 – Design Loads for Negative Transverse Wind Load (NichiSoffit™)**

Siding Fastener	Fastener Spacing (in.)	Framing Type	Framing Spacing (in.)	Allowable Design Pressure (psf)	Building Height (ft)	ASCE 7-05 Basic Wind Speed (MPH) ²			ASCE 7-10 or ASCE 7-16 Ultimate Wind Speed (MPH) ³		
						Exp B	Exp C	Exp D	Exp B	Exp C	Exp D
1-3/4-in.-long Maze double hot dipped galvanized ring-shank nails (0.125-in. shank dia., 0.365-in. head dia.)	8	Wood, 2 x 4, min. specific gravity 0.42	12 Max. 16-inch-wide panels	-84.4	15	170	169	154	210	210	199
					20	170	165	150	210	210	194
					25	170	161	147	210	208	190
					30	170	158	145	210	204	187
					40	170	153	141	210	198	182
					50	170	149	138	210	193	179
6d Galvanized Nail 2 in. long 0.278 in. head dia. 0.119 in. shank dia	6	Wood, 2 x 4, min. specific gravity 0.42	16 Max. 24-inch-wide panels	-70	60	169	147	136	210	190	176
					15	170	155	141	210	200	181
					20	170	150	137	210	194	177
					25	170	147	134	210	189	174
					30	170	144	132	210	186	171
					40	164	140	129	210	180	167
1-1/2-in.-long 4d hot dipped galvanized ring-shank nails (0.120-in. shank dia., 0.219-in. head dia.)	8	Wood, 2 x 4 min. specific gravity 0.42	24 Max. 16-inch-wide panels	-37.6	50	158	136	127	205	176	163
					60	154	134	125	199	173	161
					15	124	113	103	161	146	132
					20	124	110	100	161	142	129
					25	124	107	98	161	139	127
					30	124	105	97	161	136	125
6d Galvanized nails (0.12-in shank dia., 2-in. long, 17/64-in. head dia.)	8	Wood, 2x4, min. specific gravity 0.42	24 Max. 48-inch-wide panels	-18.3	40	119	102	94	154	132	122
					50	116	100	92	149	129	119
					60	113	98	91	146	126	117
					15	--	--	--	109	--	--
					20	--	--	--	109	--	--
					25	--	--	--	109	--	--
#8 x 1-1/4-in. self-piercing lath screws	8	No. 20 gage steel	24 Max. 48-inch-wide panels	-21.6	30	--	--	--	109	--	--
					40	--	--	--	--	--	--
					50	--	--	--	--	--	--
					60	--	--	--	--	--	--
					15	96	87	--	124	113	--
					20	96	--	--	124	110	--
					25	96	--	--	124	107	--
					30	96	--	--	124	--	--
					40	92	--	--	119	--	--
					50	89	--	--	115	--	--
					60	87	--	--	113	--	--



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**Table 7 - Continued**

Notes:

1. **NichiSoffit™ sheets** may only be installed on soffits. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
2. ASCE 7-05 Basic Wind Speeds are based upon occupancy category II, a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cpi}) equal to ± 0.18 , and an external pressure coefficient (G_{Cp}) equal to -1.4 . The effects of topographic features have not been considered and the wind speed has been limited to 170mph.
3. ASCE 7-10 and ASCE 7-16 Ultimate Wind Speeds are based upon a wind directionality factor (K_d) equal to 0.85, an internal pressure coefficient (G_{Cpi}) equal to ± 0.18 , and an external pressure coefficient (G_{Cp}) equal to -1.4 . Under ASCE 7-16, the wind speeds are based on $K_e = 1.0$. The effects of topographic features have not been considered and the wind speed has been limited to 210 mph.
4. The values in this table are based on testing per ASTM E330 and represent the allowable capacity of the siding to resist the wind pressures associated with the corresponding wind speed.
5. Fastener specifications for those used in testing are outlined in Table 9 of this Intertek CCRR. These specifications may be used by the designer of record to determine the acceptability of alternative fasteners.
6. Allowable design pressures in highlighted cells have been adjusted based on the listed allowable withdrawal capacity of the tested fastener.
7. Framing and bracing are beyond the scope of this evaluation report.
8. See table 9 for minimum fastener dimensions and properties.
9. The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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**Table 8 – Design Loads for Negative TAS 202 and TAS 203 Transverse Load
(Florida Building Code – High Velocity Hurricane Zones)**

Siding Type And Nominal Thickness (in.)	Framing Material	Fastening Method	Fasteners and Fastening	Allowable Design Pressure (psf)
NichiBoard up to 9.25" width (5/16" thick)	2x4 S.P.F. studs 16" o.c. 5/8" APA Plywood	FACE Nail	8d Galvanized Nail (2-1/2 in. long, 0.279 in. dia. head, 0.123 in. dia. shank) through plywood into studs 16 in. o.c.	-85 psf
NichiPanel (5/16")	2x4 S.P.F. studs 16" o.c. 5/8" APA Plywood	FACE Nail	6d Galvanized Nail (2 in. long, 0.278 in. dia. Head, 0.119 in. dia. shank) through plywood into studs every 6 in. perimeter and field	-75 psf
NichiPanel (5/16")	2x4 S.P.F. studs 16" o.c. 5/8" APA Plywood	FACE Nail	6d Galvanized Nail (2 in. long, 0.278 in. dia. head, 0.119 in. dia. shank) through plywood into vertical studs only, 2 in. from corners, 3/8 in. from edges and 6 in. o.c.	-70 psf
NichiStaggered/ NichiStraight (5/16")	2x4 S.P.F. studs 16" o.c. 5/8" APA Plywood	BLIND Nail	8d Galvanized Nail (2-1/2 in. long, 0.279 in. dia. head, 0.123 in. dia. shank) through plywood into studs 16 in. o.c.	-70 psf
NichiSoffit up to 24" width (1/4" thick)	2x4 S.P.F. studs 16" o.c.	FACE Nail	6d Galvanized Nail (2 in. long, 0.278 in. dia. head, 0.119 in. dia. shank) into studs every 6 in. perimeter and field	-70 psf

Notes:

1. **NichiPanel products** may only be installed on vertical walls. NichiSoffit may only be installed on soffits. Fasteners must be installed in a way that does not damage the board during installation. Where necessary, pre-drilled holes may be used in combination with hand-nailed fasteners to avoid damage to the fiber cement product.
2. The values in this table are based on testing per TAS 202 and 203 and represent the allowable design pressures of the siding.
3. Framing and bracing are beyond the scope of this evaluation report.
4. High Velocity Hurricane Zones are defined in Section 202 of the FBC as Dade and Broward Counties.



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**Table 9 - Specifications of Tested Fasteners**

Siding Fastener	Length (in)	Head Diameter (in)	Shank Diameter (in)	1,2,3 Material	Siding Type ⁵	Minimum Fastener Penetration into Material (in)	Fastener Withdrawal Value (lbs)
6d Galvanized Nail	2	0.237	0.099	SPF	NichiPanel™	1 ¹¹ / ₁₆	42.2
					NichiBoard™ (Face)	1 ³ / ₈	34.4
					NichiBoard™ (Blind)	1 ¹¹ / ₁₆	42.2
					NichiStraight™/NichiStaggered™	1 ³ / ₈	34.4
				DF	NichiBoard™ (Face)	1 ³ / ₈	53.1
					NichiBoard™ (Blind)	1 ¹¹ / ₁₆	65.2
				7/16" OSB	NichiStraight™/NichiStaggered™	7/16	16.9
	2.5	0.236	0.097	7/16" OSB	NichiShake™	7/16	16.9
6d Ring Shank Galvanized Nail	2	0.233	0.105	SPF	NichiBoard™ (Face)	1 ⁷ / ₈	45.9
					NichiBoard™ (Blind)	2 ³ / ₁₆	53.6
				7/16" OSB	NichiFrontier™ (Face)	1 ¹ / ₈	29.8
					NichiFrontier™ (Blind)	1 ⁹ / ₁₆	41.4
8d Galvanized Siding Nails	2.5	0.313	0.118	SPF	NichiStraight™/NichiStaggered™	7/16	17.9
					SYP		
Galvanized Roofing Nail	1.75	0.365	0.125	SPF	NichiPanel™	2 ³ / ₁₆	65.2
					NichiBoard™ (Face)	1 ¹ / ₈	35.5
				SYP	NichiBoard™ (Blind)	1 ⁷ / ₁₆	45.4
					NichiBoard™ (Blind)	1 ⁷ / ₁₆	70.1
				7/16" OSB	NichiBoard™ (Face)	7/16	21.3
					NichiBoard™ (Blind)	7/16	21.3
#8 Flat Wafer Head Screws ⁶	1.625	0.406	0.166	SPF	NichiPanel™	1 ⁵ / ₁₆	85.0
				20 GA Steel	NichiPanel™	--	88.3
Aerosmith Fastening Systems, VersaPin ⁷	1.5	0.301	0.106	20 GA Steel	NichiPanel™	--	94.7
					NichiBoard™ (Face)	--	94.7
	1.375	0.251	0.107	20 GA Steel	NichiBoard™ (Blind)	--	94.7
#8-18 Wafer Head ROCK-ON™ Screws ⁸	1.625	0.395	0.162	20 GA Steel	NichiPanel™	--	94.7
					NichiStraight™/NichiStaggered™	--	95.0
Aerosmith Fastening Systems, SurePin ⁹	1.25	0.300	0.145	Concrete Block	NichiBoard™ (Face)	3/4	233.1
	2	0.300	0.145	Concrete Block	NichiBoard™ (Blind)	1 ¹ / ₈	233.8
					NichiStraight™/NichiStaggered™	1 ¹ / ₈	233.8

Notes:

1. SPF (Spruce-Pine-Fir) framing material is assumed to have a Specific Gravity of 0.42 or greater.
2. DF (Douglas Fir) framing material is assumed to have a Specific Gravity of 0.5 or greater.
3. OSB sheathing material is assumed to have a Specific Gravity of 0.5 or greater. Where fasteners are installed through OSB sheathing into SPF studs, a Specific Gravity of 0.42 shall be assumed for the entire fastener penetration depth.
4. SYP (Southern Yellow Pine) framing material is assumed to have a Specific Gravity of 0.5 or greater.
5. Alternative fasteners must meet the minimum head and shank diameters listed in Table 8. The required length and withdrawal capacity shall be determined by the design professional of record in accordance with the requirements of Table 3, 4, 5, 6, and 7 of this Intertek CCRR.
6. Fastener pull-out capacity based on manufacturer (Grabber Construction Products, Inc.) technical data sheet and a safety factor of 3.
7. Fastener pull-out capacity based on PEI Product Report PER-06014 and a safety factor of 3.
8. Fastener pull-out capacity based on ITW Buildex and Illinois Tool Works, Inc. Product Report No. 02722 and a safety factor of 3.
9. Fastener pull-out capacity based on PEI Product Report PER-07021 and a safety factor of 5.
10. The fastener length as specified applies to installation with nominal 1/2-in wood-based sheathing in wood stud assemblies and up to 5/8-in sheathing in steel stud assemblies. Where sheathing substitutions or added layers exceeds this thickness, the length of fastener must be increased by the corresponding increase in sheathing thickness.



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