



BUILDING PRODUCTS LISTING PROGRAM

Customer: Plycem USA LLC
Class: Fiber-Cement Siding
Location: Houston, TX
Website: www.allurausa.com

Listing No. B1034-1
Project No. B1034-1, Edition 10

Effective Date: July 5, 2011
Last Revised Date: October 05, 2026
Expires: N/A

Standards: ASTM C1186-08 *Standard Specification for Flat Fiber-Cement Sheets.*
ASTM E84-21a *Standard Test Method for Surface Burning Characteristics of Building Materials.*
ASTM E136-16a *Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C*
ASTM E330/ E330M-14 *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*

Product: Allura® and TerraPlank™ Fiber-Cement Exterior Cladding of the following Types:

- Allura® and TerraPlank™ Lap Siding.
- Allura® and TerraPlank™ Panel.
- Allura® and TerraPlank™ Shake.
- Allura® Shake Select.

Markings: Product is marked with a permanent label containing the following information:

- a) Manufacturer's name or Trademark.
- b) Product name.
- c) Production Date Traceability Code.
- d) ASTM C1186 Type A Grade II.
- e) ASTM E136 – Classified Non-Combustible
- f) ASTM E84 – Class A
- g) QAI File Number (B1034)
- h) Traceability code.
- i) QAI logo shown here:





Models/Rating: The following outlines Allura® and TerraPlank™ Fiber-Cement Products.

Allura® and TerraPlank™ fiber-cement products comply with Type A Grade II requirements per ASTM C1186.

Allura® and TerraPlank™ Type A Grade II fiber-cement products have the following surface burning characteristics determined in accordance with ASTM E84.

Allura® and Terraplanck™ Fiber-Cement Siding Surface Burnace Characteristics Per ASTM E84

Products	Thicknesses		Flame Spread Index	Smoke Developed Index	Class
	inches	mm			
Type A Grade II Siding	1/4 – 5/16	6 - 8	≤ 0	≤ 5	A

Allura® and TerraPlank™ fiber-cement products are classified non-combustible complying with ASTM E136 requirements.

Allura® and TerraPlank™ ASTM E330 Wind Pressure Resistant assemblies are shown starting from the following page.



Allura and TerraPlank™ Lap Siding ASTM E330 Wind Pressure Resistant Assemblies:

								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment	Wall Details ^{4,10,12}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf)
1	Face	12	Collated siding nail, min. 2" (51 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	16	0-15	136	111	101	175	143	130	-36.1
							20	130	108	99	168	139	127	
							40	119	100	93	154	130	120	
							60	112	96	90	145	124	116	
2	Face	9-¼	Collated siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	112	92	83	144	118	107	-24.5
							20	107	89	81	138	115	105	
							40	98	83	76	127	107	99	
							60	93	79	74	120	103	95	
3	Face	9-¼	Collated siding nail, min. 2" (51 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	16	0-15	158	129	117	204	167	151	-48.7
							20	151	125	115	195	162	148	
							40	138	117	108	179	151	139	
							60	131	112	104	169	145	134	
4	Face	9-¼	Collated siding nail, min. 2" (51 mm) length	12" (305 mm) into sheathing and studs	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	24	0-15	114	93	84	147	120	109	-25.3
							20	109	90	82	141	117	106	
							40	100	84	78	129	109	100	
							60	94	81	75	121	104	97	
5	Blind	9 ¼	Ring-shank siding nail, min. 1-½" (38 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	16	0-15	139	114	103	179	147	133	-37.8
							20	133	111	101	172	143	130	
							40	122	103	95	157	133	123	
							60	115	99	92	149	127	118	
6	Blind	9-¼	11-gauge ring shank roofing nail, min. 1-¾" (45 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	24	0-15	130	106	97	168	137	125	-33.1
							20	125	103	94	161	133	122	
							40	114	96	89	147	124	115	
							60	108	92	86	139	119	111	
7	Blind	9 ¼	11-gauge ring shank roofing nail, min. 1" (25 mm) length	16" (406 mm) into furring strips	Dimensional lumber framing including min. ½" (13 mm) gypsum sheathing and nom. 1x3 wood furring strips	16	0-15	117	96	87	151	123	112	-26.7
							20	112	93	85	144	120	109	
							40	102	86	80	132	112	103	
							60	97	83	77	125	107	99	
8	Blind	9-¼	11-gauge smooth shank roofing nail min. 1-¼" (32 mm) length	12" (305 mm) into furring strips	1x4 furring strips at 12" (305 mm) vertical spacing, anchored into underlying sheathing	24	0-15	104	85	77	134	110	100	-21.2
							20	100	83	76	129	107	97	
							40	91	77	71	118	99	92	
							60	86	74	-	111	95	-	
9	Blind	9-¼	11-gauge smooth shank roofing nail min. 1-¼" (32 mm) length	8" (203 mm) into furring strips	1x4 furring strips at 8" (203 mm) vertical spacing, anchored into underlying sheathing	24	0-15	141	116	105	182	149	135	-39.0
							20	135	112	102	175	145	132	
							40	124	104	96	160	135	124	
							60	117	100	93	151	129	120	



								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
10	Blind	9 ¼	No. 8 self-tapping wafer-head screw, min 1-¼" (32 mm) length	16" (406 mm) into each stud ¹⁵	20-gauge steel, sheathing optional ¹⁰	16	0-15	122	100	91	158	129	118	-29.4
							20	117	97	89	152	126	115	
							40	107	91	84	139	117	108	
							60	102	87	81	131	112	104	
11	Face	8-¼	Collated siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	115	94	85	148	121	110	-25.8
							20	110	91	83	142	118	108	
							40	101	85	78	130	110	101	
							60	95	81	76	123	105	98	
12	Face	≤ 8-¼	Collated siding nail, min. 2" (51 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	16	0-15	158	129	117	204	167	151	-48.7
							20	151	125	115	195	162	148	
							40	138	117	108	179	151	139	
							60	131	112	104	169	145	134	
13	Face	≤ 8-¼	Collated siding nail, min. 2" (51 mm) length	12" (305 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	114	93	84	147	120	109	-25.3
							20	109	90	82	141	117	106	
							40	100	84	78	129	109	100	
							60	94	81	75	121	104	97	
14	Face	≤ 8-¼	Ring shank siding nail, min. 1-½" (38 mm) length	8" (203 mm) into sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	154	126	115	199	163	148	-46.7
							20	148	123	112	191	159	145	
							40	135	114	106	175	148	136	
							60	128	110	102	165	142	131	
15	Blind	≤ 8-¼	Ring shank siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	101	83	75	130	107	97	-20.0
							20	97	80	73	125	104	95	
							40	89	75	-	114	97	-	
							60	84	72	-	108	93	-	
16	Blind	8-¼	11-gauge smooth shank roofing nail, min. 1-¾" (45 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	109	89	81	141	115	105	-23.3
							20	105	87	79	135	112	102	
							40	96	81	75	124	104	96	
							60	90	77	72	117	100	93	
17	Blind	≤ 8-¼	Ring shank siding nail, min. 1-½" (38 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	16	0-15	139	114	103	179	147	133	-37.8
							20	133	111	101	172	143	130	
							40	122	103	95	157	133	123	
							60	115	99	92	149	127	118	
18	Blind	≤ 8-¼	11-gauge ring shank roofing nail, min. 1-¾" (45 mm) length	12" (305 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	119	98	89	154	126	115	-27.9
							20	114	95	87	148	123	112	
							40	105	88	82	135	114	105	
							60	99	85	79	128	109	102	



								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment	Wall Details ^{4,10,12}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
19	Blind	≤ 8-¼	11-gauge smooth shank roofing nail, min. 1-¾" (45 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	143	117	107	185	152	138	-40.3
							20	138	114	104	178	147	135	
							40	126	106	98	163	137	127	
							60	119	102	95	153	132	122	
20	Blind	≤ 8-¼	11-gauge ring shank roofing nail, min. 1-¼" (32 mm) length	8" (203 mm) into sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	167	136	124	215	176	160	-54.4
							20	160	133	121	206	171	156	
							40	146	123	114	189	159	147	
							60	138	118	110	178	153	142	
21	Blind	≤ 8-¼	11-gauge ring shank roofing nail min. 2" (51 mm) length	8" (203 mm) into sheathing	Dimensional lumber framing, including 1" (25 mm) Owens Corning® EZSheath™	24	0-15	125	102	93	161	132	120	-30.6
							20	120	99	91	155	128	117	
							40	110	93	85	142	119	110	
							60	84	72	-	109	93	-	
22	Blind	≤ 8-¼	11-gauge ring shank roofing nail, min. 1" (25 mm) length	16" (406 mm) into furring strips	Dimensional lumber framing including min. ½" (13 mm) gypsum sheathing and nom. 1x3 wood furring strips	16	0-15	117	96	87	151	123	112	-26.7
							20	112	93	85	144	120	109	
							40	102	86	80	132	112	103	
							60	97	83	77	125	107	99	
23	Blind	≤ 8-¼	11-gauge smooth shank roofing nail min. 1-¼" (32 mm) length	12" (305 mm) into furring strips	1x4 furring strips at 12" (305 mm) vertical spacing, anchored into underlying sheathing	24	0-15	104	85	77	134	110	100	-21.2
							20	100	83	76	129	107	97	
							40	91	77	71	118	99	92	
							60	86	74	-	111	95	-	
24	Blind	≤ 8-¼	11-gauge smooth shank roofing nail min. 1-¼" (32 mm) length	8" (203 mm) into furring strips	1x4 furring strips at 8" (203 mm) vertical spacing, anchored into underlying sheathing	24	0-15	141	116	105	182	149	135	-39.0
							20	135	112	102	175	145	132	
							40	124	104	96	160	135	124	
							60	117	100	93	151	129	120	
25	Blind	≤ 8-¼	No. 8 self-tapping wafer-head screw, min 1-¼" (32 mm) length	16" (406 mm) into each stud ¹⁵	20-gauge steel, sheathing optional ¹⁰	16	0-15	122	100	91	158	129	118	-29.4
							20	117	97	89	152	126	115	
							40	107	91	84	139	117	108	
							60	102	87	81	131	112	104	
26	Face	7-¼	Collated siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	130	107	97	168	138	125	-33.2
							20	125	104	95	161	134	122	
							40	114	96	89	147	124	115	
							60	108	92	86	139	119	111	
27	Face	≤ 7-¼	Collated siding nail, min. 2" (51 mm) length	8" (203 mm) into sheathing and studs	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	16	0-15	183	150	136	236	194	176	-65.7
							20	176	146	133	227	188	172	
							40	161	136	125	207	175	162	
							60	152	130	121	196	168	156	



								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
28	Blind	7-¼	11-gauge smooth shank roofing nail, min. 1-¾" (45 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	127	104	94	163	134	122	-31.4
							20	121	101	92	157	130	119	
							40	111	94	87	143	121	112	
							60	105	90	83	135	116	108	
29	Face	6-¼	Collated siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	133	109	99	172	141	128	-34.8
							20	128	106	97	165	137	125	
							40	117	99	91	151	127	118	
							60	110	95	88	143	122	113	
30	Blind	6-¼	11-gauge smooth shank roofing nail, min. 1-¾" (45 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	136	112	101	176	144	131	-36.4
							20	131	108	99	169	140	128	
							40	120	101	93	154	130	120	
							60	113	97	90	146	125	116	
31	Face	5-¼	Collated siding nail, min. 2" (51 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	149	122	111	193	158	143	-43.7
							20	143	119	108	185	153	140	
							40	131	111	102	169	143	132	
							60	124	106	99	160	137	127	
32	Blind	5-¼	11-gauge smooth shank roofing nail, min. 1-¾" (45 mm) length	16" (406 mm) into each stud	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	140	114	104	180	148	134	-38.3
							20	134	111	102	173	144	131	
							40	123	103	96	158	134	123	
							60	116	99	92	149	128	119	

1. Installation must be in accordance with the manufacturer's installation instructions.

2. For blind fastening method refer to Figure 3. For face fastening method refer to Figure 4.

3. Fasteners used must be corrosion resistant.

4. Unless otherwise noted, wood framing/furring species must have a specific gravity of 0.42 or greater. Furring attachment to structural wood sheathing and wood and steel framing must be determined by the project design engineer to resist the maximum wind speeds.

5. V_{asd} = Allowable stress design wind speed (mph).

6. V = Basic design wind speed (mph) per ASCE 7-22 or 2024 IBC Figures 1609.3(1) through 1609.3(4).

7. Wind speed coefficients design assumption per ASCE 7-22: K_{zt} = 1, K_d = 0.85, GC_{pi} = 0.18, GC_p = -1.4

8. 2024 IBC Section 1609.3.1 Eq. 16-18 V_{asd} = V (0.6)^{0.5}

9. Building height is the mean roof height (ft) of a building, except that eave height shall be used for roof angle less than or equal to 10° (2-12 roof slope)

10. Where non-structural sheathing types are included, increase the length of fasteners by the sheathing thickness to maintain min. fastener penetration into framing.

11. Wind speed values have been determined in accordance with ASCE 7-22.

12. Framing anchoring, and attachment of sheathing to underlying framing is to be in accordance with the applicable code and sufficient to resist service loads.

13. Unless otherwise specified, steel studs are to be minimum 33 ksi yield, G60 galvanized in accordance with the applicable code.

14. Allowable design pressures are determined for worst case negative pressure loading. Where no sheathing is installed, allowable positive pressures are limited to equivalent negative pressures noted.

15. Fastener length can be adjusted to penetrate underlying steel framing a minimum 1/4-inch or three (3) full threads.



Allura and TerraPlank Panel Siding ASTM E330 Wind Pressure Resistant Assemblies:

								V _{asd} ^{5,8,11}			V _{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method	Product Width (in.)	Fastener Type ³	Attachment ²	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
33	Face	48	Collated siding nail, min. 2" (51 mm) length	6" (152 mm) around perimeter, 12" (305 mm) in the field into framing	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	104	85	77	134	110	100	-21.1
							20	100	83	75	129	107	97	
							40	91	77	71	118	99	92	
							60	86	74	-	111	95	-	
34	Face	48	Ring-shank siding nail, min. 1-½" (38 mm) length	6" (152 mm) vertically into framing	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	118	97	88	152	125	113	-27.2
							20	113	94	86	146	121	111	
							40	103	87	81	134	113	104	
							60	98	84	78	126	108	100	
35	Face	48	No. 8 wafer-head screws, min. 1-⅝" (41 mm) length	6" (152mm) vertically into framing	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	140	114	104	180	148	134	-38.3
							20	134	111	102	173	144	131	
							40	123	103	96	158	134	123	
							60	116	99	92	150	128	119	
36	Face	48	Collated siding nail, min. 2" (51 mm) length	6" (152 mm) around perimeter, 6" (152 mm) in the field into framing	Dimensional lumber framing, sheathing optional ¹⁰	16	0-15	147	120	109	189	155	141	-42.2
							20	141	117	107	182	151	138	
							40	129	109	100	166	140	129	
							60	122	104	97	157	135	125	
37	Face	48	Collated siding nail, min. 2" (51 mm) length	6" (152 mm) around perimeter, 12" (305 mm) in the field into framing ¹⁶	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	24	0-15	98	80	73	126	103	94	-18.7
							20	94	78	71	121	100	92	
							40	86	72	-	111	93	-	
							60	81	-	-	104	-	-	
38	Face	48	No. 8 wafer-head screws, min. 1-⅝" (41 mm) length	6" (152 mm) vertically, and 16" (405 mm) horizontally into sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	149	122	111	192	157	143	-43.3
							20	143	118	108	184	153	139	
							40	130	110	102	168	142	131	
							60	123	106	98	159	136	127	
39	Face	48	SFS TW-2-D12 screws, min. 1-½" (38 mm) length	Manufacturer's Commercial Pattern "A" into sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	126	103	94	163	133	121	-31.1
							20	121	100	92	156	129	118	
							40	111	93	86	143	120	111	
							60	104	89	83	135	116	107	
40	Face	48	SFS TW-2-D12 screws, min. 1-½" (38 mm) length	Manufacturer's Commercial Pattern "B" into sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	105	86	78	136	111	101	-21.7
							20	101	84	76	130	108	99	
							40	92	78	72	119	100	93	
							60	87	75	-	112	96	-	
41	Face	48	No.10 bugle-head screw, min. 1" (25 mm) length	Manufacturer's "3-4-10" Pattern into sheathing	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	24	0-15	134	109	99	173	141	128	-35.0
							20	128	106	97	165	137	125	
							40	117	99	91	151	128	118	
							60	111	95	88	143	123	114	



								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
42	Face	48	Aerosmith VersaPin LH 2635SBG pin, min. 2-½" (64 mm) length	8" (203 mm) vertically and horizontally into sheathing ¹⁶	Dimensional lumber with 1" (25 mm) Owens Corning EZSheath™	24	0-15	129	106	96	167	137	124	-32.8
							20	124	103	94	160	133	121	
							40	114	96	88	147	124	114	
							60	107	92	85	138	119	110	
43	Face	48	No. 10 bugle-head screw, min. 1" (25 mm) length)	8" (203 mm) vertically into furring	Dimensional lumber framing including 1/2" (13 mm) gypsum sheathing and 1x3 wood furring strips	16	0-15	146	119	109	188	154	140	-41.7
							20	140	116	106	181	150	137	
							40	128	108	100	165	139	129	
							60	121	104	96	156	134	124	
44	Face	48	No.8 wafer-head screws, min. 1-⅝" (41 mm) length	8" (203 mm) vertically and 16" (406 mm) horizontally into furring	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing with 1x3 PT furring strips at 16" (405 mm) horizontally	24	0-15	146	119	109	188	154	140	-41.7
							20	140	116	106	181	150	137	
							40	128	108	100	165	139	129	
							60	121	104	96	156	134	124	
45	Face	48	No. 8 self-tapping wafer-head screws, min. 1-⅝" (41 mm) length	6" (152mm) vertically into framing ^{13,15}	20-gauge steel, sheathing optional ¹⁰	16	0-15	134	109	99	173	141	128	-35.0
							20	128	106	97	165	137	125	
							40	117	99	91	151	128	118	
							60	111	95	88	143	123	114	
46	Face	48	No. 8 self-tapping wafer-head screws, min. 1-⅝" (41 mm) length	6" (152 mm) around perimeter, 12" (305 mm) in the field into framing ^{13,15}	20-gauge steel, ½" (13 mm) gypsum or wood-based sheathing	16	0-15	147	120	109	190	156	141	-42.4
							20	141	117	107	182	151	138	
							40	129	109	101	167	141	130	
							60	122	104	97	157	135	125	
47	Face	48	No. 8 self-tapping wafer-head screws, min. 1-⅝" (41 mm) length	6" (152 mm) around perimeter, 12" (305 mm) in the field into framing ^{13,15,16}	20-gauge steel, ½" (13 mm) gypsum or wood-based sheathing	24	0-15	111	91	82	143	117	107	-24.1
							20	106	88	81	137	114	104	
							40	97	82	76	126	106	98	
							60	92	79	73	119	102	94	

1. Installation must be in accordance with the manufacturer's installation instructions.
2. For Commercial Pattern A see Figure 5. For Commercial Pattern B see Figure 6. For 3-4-10 Pattern see Figure 7.
3. Fasteners used must be corrosion resistant.
4. Unless otherwise noted, wood framing/furring species must have a specific gravity of 0.42 or greater. Furring attachment to structural wood sheathing and wood and steel framing must be determined by the project design engineer to resist the maximum wind speeds.
5. V_{asd} = Allowable stress design wind speed (mph).
6. V = Basic design wind speed (mph) per ASCE 7-22 or 2024 IBC Figures 1609.3(1) through 1609.3(4).
7. Wind speed coefficients design assumption per ASCE 7-22: K_{zt} = 1, K_d = 0.85, GC_{pi} = 0.18, GC_p = -1.4
8. 2024 IBC Section 1609.3.1 Eq. 16-18 V_{asd} = V (0.6)^{0.5}
9. Building height is the mean roof height (ft) of a building, except that eave height shall be used for roof angle less than or equal to 10° (2-12 roof slope)
10. Where non-structural sheathing types are included, increase the length of fasteners by the sheathing thickness to maintain min. fastener penetration into framing.
11. Wind speed values have been determined in accordance with ASCE 7-22.
12. Framing anchoring, and attachment of sheathing to underlying framing is to be in accordance with the applicable code and sufficient to resist service loads.
13. Unless otherwise specified, steel studs are to be minimum 33 ksi yield, G60 galvanized in accordance with the applicable code.
14. Allowable design pressures are determined for worst case negative pressure loading. Where no sheathing is installed, allowable positive pressures are limited to equivalent negative pressures noted.
15. Fastener length can be adjusted to penetrate underlying steel framing a minimum 1/4-inch or three (3) full treads.
16. Assembly is not intended for use with 16-inch (406 mm) width panel siding.



Allura and TerraPlank Shake ASTM E330 Wind Pressure Resistant Assemblies:

								V _{asd} ^{5,8,11}			V ^{6,11}			
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method ²	Product Width (in.)	Fastener Type ³	Attachment ²	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	Allowable Design Load (psf) ¹⁴
48	Blind	48" Shake	Collated ring shank siding nail, min. 2" (51 mm) length	One fastener at every keyway into sheathing	Dimensional lumber framing including min. 7/16" (11 mm) structural wood sheathing	24	0-15	157	129	117	203	166	151	-48.3
							20	151	125	114	194	161	147	
							40	138	116	107	178	150	139	
							60	130	112	104	168	144	134	

1. Installation must be in accordance with the manufacturer's installation instructions.
2. See Figures 8 and 9.
3. Fasteners used must be corrosion resistant.
4. Unless otherwise noted, wood framing/furring species must have a specific gravity of 0.42 or greater. Furring attachment to structural wood sheathing and wood and steel framing must be determined by the project design engineer to resist the maximum wind speeds.
5. V_{asd} = Allowable stress design wind speed (mph).
6. V = Basic design wind speed (mph) per ASCE 7-22 or 2024 IBC Figures 1609.3(1) through 1609.3(4).
7. Wind speed coefficients design assumption per ASCE 7-22: K_{zt} = 1, K_d = 0.85, GC_{pi} = 0.18, GC_p = -1.4
8. 2024 IBC Section 1609.3.1 Eq. 16-18 V_{asd} = V (0.6)^{0.5}
9. Building height is the mean roof height (ft) of a building, except that eave height shall be used for roof angle less than or equal to 10° (2-12 roof slope)
10. Where non-structural sheathing types are included, increase the length of fasteners by the sheathing thickness to maintain min. fastener penetration into framing.
11. Wind speed values have been determined in accordance with ASCE 7-22.
12. Framing anchoring, and attachment of sheathing to underlying framing is to be in accordance with the applicable code and sufficient to resist service loads.
13. Unless otherwise specified, steel studs are to be minimum 33 ksi yield, G60 galvanized in accordance with the applicable code.
14. Allowable design pressures are determined for worst case negative pressure loading. Where no sheathing is installed, allowable positive pressures are limited to equivalent negative pressures noted.
15. Fastener length can be adjusted to penetrate underlying steel framing a minimum 1/4-inch or three (3) full treads.



Allura and TerraPlank Select ASTM E330 Wind Pressure Resistant Assemblies:

								V _{asd} ^{5,8,11}			V ^{5,11}			Allowable Design Load (psf) ¹⁴
								Wind Exposure Category ⁷			Wind Exposure Category ⁷			
	Fastening Method	Product Width (in.)	Fastener Type ³	Attachment ²	Wall Details ^{4,10,12,13}	Framing Spacing (in.)	Building Height ⁹ (ft.)	B	C	D	B	C	D	
49	Blind	48" Select Shake	Collated siding nail, min. 1-¾" (45 mm) length	Fastener installed at edge of panel and every other (every second) keyway through sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	153	125	114	198	162	147	-46.0
							20	147	122	111	190	157	144	
							40	134	113	105	174	146	135	
							60	127	109	101	164	140	130	
50	Blind	48" Select Shake	11-gauge roofing nail, min. 1-¾" (45 mm) length.	Fastener installed at edge of panel and every other (every second) keyway through sheathing	Dimensional lumber framing including min. ⅞" (11 mm) structural wood sheathing	24	0-15	131	107	98	169	139	126	-33.7
							20	126	104	95	162	135	123	
							40	115	97	90	149	125	116	
							60	109	93	86	140	120	112	
51	Blind	48" Select Shake	No. 9 cement board screw, min. 1-⅝" (41 mm) length	Fastener installed at edge of panel and every other (every second) keyway through sheathing ¹⁵	20-gauge steel with min. ⅞" (11 mm) structural wood sheathing	24	0-15	184	151	137	238	195	177	-66.7
							20	177	147	134	228	189	173	
							40	162	137	126	209	176	163	
							60	153	131	122	197	169	157	

1. Installation must be in accordance with the manufacturer's installation instructions.
2. See Figure 10
3. Fasteners used must be corrosion resistant.
4. Unless otherwise noted, wood framing/furring species must have a specific gravity of 0.42 or greater. Furring attachment to structural wood sheathing and wood and steel framing must be determined by the project design engineer to resist the maximum wind speeds.
5. V_{asd} = Allowable stress design wind speed (mph).
6. V = Basic design wind speed (mph) per ASCE 7-22 or 2024 IBC Figures 1609.3(1) through 1609.3(4).
7. Wind speed coefficients design assumption per ASCE 7-22: K_{zt} = 1, K_d = 0.85, GC_{pi} = 0.18, GC_p = -1.4
8. 2024 IBC Section 1609.3.1 Eq. 16-18 V_{asd} = V (0.6)^{0.5}
9. Building height is the mean roof height (ft) of a building, except that eave height shall be used for roof angle less than or equal to 10° (2-12 roof slope)
10. Where non-structural sheathing types are included, increase the length of fasteners by the sheathing thickness to maintain min. fastener penetration into framing.
11. Wind speed values have been determined in accordance with ASCE 7-22.
12. Framing anchoring, and attachment of sheathing to underlying framing is to be in accordance with the applicable code and sufficient to resist service loads.
13. Unless otherwise specified, steel studs are to be minimum 33 ksi yield, G60 galvanized in accordance with the applicable code.
14. Allowable design pressures are determined for worst case negative pressure loading. Where no sheathing is installed, allowable positive pressures are limited to equivalent negative pressures noted.
15. Fastener length can be adjusted to penetrate underlying steel framing a minimum 1/4-inch or three (3) full threads.

Notes: Final acceptance of the product in the intended application is to be determined by the authority having jurisdiction.

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