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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 5
Effective Date: July 5, 2011
Last Revised: July 12, 2022
Expires: N/A

Standards:

ASTM C1186	*Standard Specification for Flat Fiber-Cement Sheets.*
ASTM E84	*Standard Test Method for Surface Burning Characteristics of Building Materials*.
ASTM E136	*Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750^{o}C*
ASTM E330	*Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*.

Product: Allura® Fiber Cement Siding of the following Types:

- Allura® Lap Siding.
- Allura® Panel.
- Allura® Select Shake.
- Allura® Soffit.

Markings: Product is marked with labels that include the following information:

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

Labels are applied to palletized finished products to ensure visibility on the jobsite.

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Ratings: **The following outlines Allura® Fiber-Cement Products Performance Evaluated by QAI.**

Allura® fiber-cement siding thickness complies with Grade II Type A requirements per ASTM C1186.

Allura® Grade II Type A fiber-cement siding has the following surface burning characteristics determined in accordance with ASTM E84.

ALLURA® FIBER-CEMENT SIDING SURFACE BURNING CHARACTERISTICS PER ASTM E84[1]					
PRODUCTS	**THICNESSES**		**FLAME SPREAD INDEX**	**SMOKE DEVELOPED INDEX**	**CLASS**
	inches	**mm**			
Grade II Type A Siding	1/4 – 5/16	6 - 8	≤ 0	≤ 5	A

Allura® fiber-cement siding is classified non-combustible complying with ASTM E136 requirements.

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The following outlines fastener schedules and maximum design pressures for use with Allura® products based on testing in accordance with ASTM E330.

Allura® Lap Siding Installations and Design Pressures

FASTENING METHOD	MAXIMUM WIDTH		MINIMUM FRAMING	MINIMUM FASTENING DETAILS	DESIGN PRESSURE[4]	
	Inches	mm			psf	kPa
Face	12	305	SPF or better at 16'' (406 mm) with 7/16'' (11 mm) structural sheathing[1].	6d common nails 2'' (51 mm) length at every 8'' (203 mm) maximum spacing into sheathing and studs[2] per Figure X.	36.1	1.7
Face	9 ¼	235	SPF or better at 16'' (406 mm) with 7/16'' (11 mm) structural sheathing[1].	6d common nails 2'' (51 mm) length at every 8'' (203 mm) maximum spacing into sheathing and studs[2] per Figure X.	48.7	2.3
Face	9 ¼	235	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[1].	6d common nails 2'' (51 mm) length at 12'' (305 mm) maximum spacing[2].	24.4	1.2
Face	9 ¼	235	SPF or better at 16'' (406 mm) any sheathing type[2].	Two 6d common nails at each stud location of length to penetrate minimum 1-11/16'' (43 mm) into stud.	24.5	1.2
Blind	9 ¼	235	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[1].	Ring-shank roofing nail 1-3/4'' (45 mm) length at 8'' (203 mm) maximum spacing[2].	32.3	1.5
Blind	9 ¼	235	1x4 furring strips at 12'' (305 mm) spacing, anchored back into structural sheathing[1,3].	Roofing Nail 1-1/4'' (32 mm) length at 12'' (305 mm) into furring strips.	20.3	1.0
Blind	9 ¼	235	1x4 furring strips at 8'' (203 mm) spacing, anchored back into structural sheathing[1,3].	Roofing Nail 1-1/4'' (32 mm) length at 8'' (203 mm) into furring strips.	39.0	1.9
Face	8 ¼	210	SPF or better at 16'' (406 mm) any sheathing[2].	Two 6d common at each stud location of length to penetrate minimum 1-11/16'' (43 mm) into stud.	25.8	1.2
Blind	8 ¼	210	SPF or better at 16'' (406 mm) any sheathing[2].	Roofing Nail each stud location of length to penetrate 1-7/16'' (37 mm) into stud.	23.3	1.1
Blind	8 ¼	210	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[1].	Roofing Nail 1-3/4'' (45 mm) length at 12'' (305 mm) into sheathing[2].	27.0	1.3
Blind	8 ¼	210	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[1].	Roofing Nail 1-3/4'' (45 mm) length at 8'' (203 mm) into sheathing[2].	40.3	1.9
Blind	8 ¼	210	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[1].	Ring-Shank Roofing Nail 1-3/4'' (45 mm) length at 8'' (203 mm) into sheathing[2].	40.3	1.9
Blind	8 ¼	210	20-gauge steel studs at 16'' (406 mm) any sheathing[2].	No. 8 self-tapping wafer-head screws at each stud location of length to penetrate ¼'' (6 mm) into stud flange.	22.3	1.1
Face	7 ¼	184	SPF or better at 16'' (406 mm) any sheathing[2].	Two 6d common at each stud location of length to penetration 1-11/16'' (43 mm) into stud.	33.2	1.6
Blind	7 ¼	184	SPF or better at 16'' (406 mm) any sheathing[2].	Roofing Nail at each stud location of length to penetrate 1-7/16'' (37 mm) into stud.	31.4	1.5
Face	7 ¼	184	SPF or better at 16'' (406 mm) with 7/16'' (11 mm) structural sheathing[1].	Two 6d common nails 2'' (51 mm) length at every 8'' (203 mm) maximum spacing into sheathing and studs[2].	65.7	3.1
Face	6 ¼	159	SPF or better at 16'' (406 mm) any sheathing[2].	Two 6d common at each stud location of length to penetration 1-11/16'' (43 mm) into stud.	34.8	1.7
Blind	6 ¼	159	SPF or better at 16'' (406 mm) any sheathing[2].	Roofing Nail each stud location of length to penetrate 1-7/16'' (37 mm) into stud.	36.4	1.7
Face	5 ¼	133	SPF or better at 16'' (406 mm) any sheathing[2].	Two 6d common at each stud location of length to penetration 1-11/16'' (43 mm) into stud.	43.7	2.1
Blind	5 ¼	133	SPF or better at 16'' (406 mm) any sheathing[2].	Roofing Nail each stud location of length to penetrate 1-7/16'' (37 mm) into stud.	38.2	1.8

1. Structural sheathing shall be minimum Exterior grade wood per 2018 / 2015 IBC Section 2303.1.5 and 2018 / 2015 IRC Section R602.1.8.
2. Any sheathing can be of structural or non-structural type installed in accordance with the applicable code.
3. Connection of the furring strips to sheathing and framing is outside the scope of this report.
4. Design pressure values determined through testing to ASTM E330 with a Safety Factor of 3 applied.

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Allura® Panel Siding Installations and Design Pressures

FASTENING METHOD	MAXIMUM WIDTH		MINIMUM FRAMING	MINIMUM FASTENING DETAILS	DESIGN PRESSURE[4]	
	Inches	mm			psf	kPa
Face	48	1219	SPF or better at 16'' (406 mm) any sheathing type[2].	6d common nails at each stud location 6'' (152 mm) spacing around perimeter, 12'' (305 mm) spacing in the field of length to penetrate structural framing minimum 1-11/16'' (43 mm).	21.1	1.0
Face	48	1219	SPF or better at 16'' (406 mm) any sheathing type[2].	6d common nails at each stud location 6'' (152 mm) spacing around perimeter, 12'' (305 mm) spacing in the field of length to penetrate structural framing minimum 1-11/16'' (43 mm).	42.2	2.0
Face	48	1219	SPF or better at 24'' (610 mm) with 7/16'' (11 mm) structural sheathing[3]	6d common nails at each stud location 6'' (152 mm) spacing around perimeter, 12'' (610) spacing in the field of 2'' (51 mm) length[2].	18.6	0.9
Face	48	1219	20-gauge steel studs at 16'' (406 mm) any sheathing[2].	No. 8 self-tapping wafer-head screws at each stud location 6'' (152 mm) spacing around perimeter, 12'' (305 mm) spacing in the field of length to penetrate ¼'' (6 mm) into stud flange.	42.4	2.0
Face	48	1219	20-gauge steel studs at 24'' (610 mm) any sheathing[2].	No. 8 self-tapping wafer-head screws at each stud location 6'' (152 mm) spacing around perimeter, 12'' (305 mm) spacing in the field of length to penetrate ¼'' (6 mm) into stud flange.	24.1	1.2
Face	48	1219	SPF or better at 16'' (406 mm) with 7/16'' (11 mm) structural sheathing[3].	SFS Intec TW-S 4.8 x 38 x 1-1/2 inch length screw installed in following Manufacturer's Commercial Pattern "A" into structural sheathing.	31.1	1.5
Face	48	1219	SPF or better at 16'' (406 mm) with 7/16'' (11 mm) structural sheathing[3].	SFS Intec TW-S 4.8 x 38 x 1-1/2-inch length screw installed in following Manufacturer's Commercial Pattern "B" into structural sheathing.	21.6	1.0

1. Racking shear resistance of the below noted assemblies is outside the scope of this report.
2. Any sheathing can be of structural or non-structural type installed in accordance with the applicable code.
3. Structural sheathing shall be minimum Exterior grade wood per 2018 / 2015 IBC Section 2303.1.5 and 2018 / 2015 IRC Section R602.1.8.
4. Design pressure values determined through testing to ASTM E330 with a Safety Factor of 3 applied.

Allura® Shake Siding Installations and Design Pressures

FASTENING METHOD	PRODUCT	MINIMUM FRAMING	MINIMUM FASTENING DETAILS	DESIGN PRESSURE[3]	
				psf	kPa
Blind	All Select Shakes	SPF or better at 16'' (405 mm) with minimum 7/16 inch (11 mm) structural sheathing[1].	6d common nails 1-1/2'' (38 mm) with fasteners at every other (every second) keyway after first installation into sheathing.	34.3	1.6
Blind	All Select Shakes	SPF or better at 16'' (405 mm) with minimum 7/16 inch (11 mm) structural sheathing[1].	Ring-shank roofing nails 1-1/2'' (38 mm) with fasteners at every other (every second) keyway after first installation into sheathing.	22.7	1.1
Blind	All Select Shakes	SPF or better at 16'' (405 mm) with any sheathing[2].	6d common nails at each stud location of length to penetrate minimum 1-11/16'' (43 mm) into stud.	21.3	1.0
Blind	All Select Shakes	20-gauge steel studs at 16'' (406 mm) with minimum 7/16 inch (11 mm) structural sheathing[1].	No. 8 self-tapping wafer-head screws at each stud location.	33.3	1.6

1. Structural sheathing shall be minimum Exterior grade wood per 2018 / 2015 IBC Section 2303.1.5 and 2018 / 2015 IRC Section R602.1.8.
2. Any sheathing can be of structural or non-structural type installed in accordance with the applicable code.
3. Design pressure values determined through testing to ASTM E330 with a Safety Factor of 3 applie

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

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