MATERIAL/PRODUCT SUBSTITUTION REQUEST

Bid #19-082, Southern Georgetown Community Library

Date: 10/15/2019

We hereby submit for your review the following PRODUCT SUBSTITUTION of the specified material for the above listed project.

Section: 07460

Paragraph: 2.1

Specified Material: Exterior Siding - substitute Allura

Attached is complete technical data of the PRODUCT SUBSTITUTION. Included is complete information on changes to the Project Manual Documents required by the proposed PRODUCT SUBSTITUTION for its proper installation.

A request constitutes a representation that Trade Contractor:

1. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.
2. Will provide same warranty for Substitution as for specified product.
3. Will coordinate installation and make changes to other Work which may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension which may subsequently become apparent.
5. Will reimburse Owner and Architect/Engineer for review or redesign services associated with re-approval by authorities having jurisdiction or additional time expended by Architect/Engineer to review information.

It is understood that if the Architect approves an approved substitution prior to receipt of bids in accordance with the project timeline, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner. If substitution requests are not addressed in the addendum, the substitution request shall be considered not approved. Architect's decision of approval or disapproval of proposed substitution shall be final without dispute.

THE UNDERSIGNED Trade Contractor states that the function, appearance, and quality of the PRODUCT SUBSTITUTION are equivalent or superior to the specified item. In addition, I, as the

Trade Contractor will assume all responsibility for any impact or delay the review and evaluation of the alternate product may cause. Your approval of the Substitute Product in no way will relieve me as the Trade Contractor of my responsibilities to conform with all requirements of the Contract Documents.

Submitted By: Dylan Prince — Signature

Dylan Prince — Printed

FOR USE BY ARCHITECT/ENGINEER:

☐ RECEIVED TOO LATE ☒ NOT ACCEPTED ☐ APPROVED AS NOTED

FOR BIDDING ONLY, FINAL APPROVAL SUBJECT TO SUBMITTAL DATA IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.

DATE: 10.23.19

PRINTED NAME: TYCH + WALKER ARCHITECTS

SIGNATURE:

[End of Material/Product Substitution Request]

allura™
Advanced Technology in Fiber Cement
elementia

Fiber Cement Siding Specification Sheet
Section 07466

PART 1 GENERAL

1.1 Section Includes

A. Siding panels.
B. Soffit panels.
C. Accessories and trim.

1.2 Related Sections

A. Section 06100 - Rough Carpentry: Framing and Sheathing.
B. Section 07900 - Joint Sealers.
C. Section 09900 - Paints and Coatings: Field painting.

1.3 References

A. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants; 1998.
B. ASTM C 1185 - Standard Test Methods for Sampling and Testing Non Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards; 1999.
C. ASTM C 1186 - Standard Specification for Flat Non-Asbestos Fiber Cement Sheets; 1999.
D. ASTM E 72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; 1998.
E. ASTM E 84 -- Standard Test Method for Surface Burning Characteristics of Building Materials; 1999.
F. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials; 1995.
G. ASTM E 136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 Degrees C; 1999.
H. ASTM E 228 - Standard Test Method for Linear Thermal Expansion of Solid Materials with a Vitreous Silica Dilatometer; 1995.
I. ASTM G 26 - Standard Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials; 1996.
J. ASTM E 330-97 – Structural Performance of exterior windows, curtain walls and doors by uniform static air pressure difference.

1.4 Submittals

A. Make submittals under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.

3. Installation methods, including nailing patterns.

4. Applicable model code authority evaluation report (ICC, CCMC, etc.)

1.5 Quality Assurance

A. Installer Qualifications: Provide installer with not less than three years of experience with products similar to those specified.

1.6 Delivery, Storage, and Handling

A. Store products off the ground, on a flat surface, and under a roof or separate waterproof covering.

1.7 WARRANTY

A. Provide Allura 50 year limited siding warranty.

B. Allura ColorMax Finish – provide 15 year limited paint warranty

C. Register manufacturer's warranty, made out in Owner's name, with copy to Owner.

PART 2 PRODUCTS

2.1 Manufacturer

A. Allura of Plycem, 15055 Woodham Drive Houston, Texas 77073
main: (844) 4 ALLURA or (844) 425-5872 email: info@elementia.com www.alluraUSA.com

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 Panels

A. Fiber Cement Board Panels - General: Allura Fiber Cement Board Panels consist of cement, recycled content and cellulose fiber formed under high pressure into boards with integral surface texture; complying with ASTM C 1186 Type A Grade II; machined edges; for nail attachment.

1. Surface Burning Characteristics: Flame spread index of 0, smoke developed index of 5, maximum; when tested in accordance with ASTM E 84 (Class I/A).
2. Flammability: Noncombustible, when tested in accordance with ASTM E 136.
3. Flexural Strength: At least 1450 psi (10 MPa) when in equilibrium condition, and at least 1015 psi (7 MPa) when in wet condition, tested in accordance with ASTM C 1185.
4. Coefficient of Thermal Expansion: Less than 1 x 10^-5/inch/inch/degree F (0.5 x 10^-5/degree C), when tested in accordance with ASTM E 228.

5. Freeze Thaw Resistance: At least 80 percent flexural strength retained, when tested in accordance with ASTM C 1185.

6. UV Resistance: No cracking, checking, or erosion, when tested for 2000 hours in accordance with ASTM G 26.

7. Water Tightness: No water droplets on underside, when tested in accordance with ASTM C 1185.

B. Horizontal Siding: Allura Lap Siding.

1. Thickness: 5/16 inch (7.9 mm), plus or minus .04 inch (1 mm).

2. Length: 12 feet (3657 mm), plus 0, minus 1/8 inch (3 mm).

3. Style: Smooth lap siding.

a. Width: 5-1/4 inches (133 mm) wide.

b. Width: 6-1/4 inches (159 mm) wide.

c. Width: 7-1/4 inches (185 mm) wide.

d. Width: 8-1/4 inches (210 mm) wide.

e. Width: 9-1/4 inches (235 mm) wide.

f. Width: 12 inches (305 mm) wide.

4. Sealant/Primer: Our Primary Sealant/Primer.

5. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

6. Factory Finish: Factory applied ColorMax Finishing System by Allura with 100 percent acrylic solid color as follows:

a. Snow.
b. Linen.
c. Sterling Gray.
d. Desert Tan.
e. Marigold.
f. Light Maple.
g. Savannah Wicker.
h. Natural Clay.
i. Taupe.
j. Nantucket Gray.
k. Olive.
l. Pewter.
m. Suede.
n. Coastal Blue.
o. Autumn Red.
p. Sable Brown.
q. Cypress.
r. Flagstone.
s. Pacific Blue.
t. Forest.
u. Granite Gray.
v. Hearthstone.

7. Style: Cedar lap siding.

a. Width: 5-1/4 inches (133 mm) wide.

b. Width: 6-1/4 inches (159 mm) wide.

c. Width: 7-1/4 inches (185 mm) wide.

d. Width: 8-1/4 inches (210 mm) wide.

e. Width: 9-1/4 inches (235 mm) wide.

f. Width: 12 inches (305 mm) wide.

8. Sealant/Primer: Our primary Sealant/Primer.

9. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

10. Factory Finish: Factory applied ColorMax Finishing System by Allura with 100 percent acrylic solid color as follows:

a. Snow.
b. Linen.
c. Sterling Gray.
d. Desert Tan.
e. Marigold.
f. Light Maple.
g. Savannah Wicker.
h. Natural Clay.
i. Taupe.
j. Nantucket Gray.
k. Olive.
l. Pewter.
m. Suede.
n. Coastal Blue.
o. Autumn Red.
p. Sable Brown.
q. Cypress.
r. Flagstone.
s. Pacific Blue.
t. Forest.
u. Granite Gray.
v. Hearthstone.

11. Factory Stain Finish: Factory applied Allura Fiber Cement Siding Premium Stain color as follows:
    a. Redwood.
    b. Mahogany.
    c. Maple.
    d. Cedar.
    e. Emerald.
    f. Slate.

C. Simulated Shingle Siding: Allura Shakes.
1. **Thickness**: 7/16 inch (11.1 mm), plus or minus .04 inch (1 mm).
2. **Style:** Perfection shingle, grooved, 7 inches (178 mm) exposure, 8-1/4 inches (210 mm) wide by 12 feet (3657 mm), plus 0, minus 1/8 inch (3 mm).
3. **Style:** Random square straight edge, cut between shingles, 5 inches (127 mm) exposure, 12 inches (305 mm) wide by 48 inches (1219 mm) long.
4. **Style:** Random square straight edge, cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
5. **Style:** Random square staggered edge, cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
6. **Style:** Half-rounds full cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
7. **Style:** Octagons full cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
8. **Sealant/Primer:** Our primary Sealant/Primer.
9. **Field Finish Paint:** 100 percent acrylic latex as specified in Section 09900.
10. **Factory Finish:** Factory applied ColorMax Finishing System by Allura with 100 percent acrylic solid color as follows:
    a. Snow.
    b. Linen.
    c. Sterling Gray.
    d. Desert Tan.
    e. Marigold.
    f. Light Maple.
    g. Savannah Wicker.
    h. Natural Clay.
    i. Taupe.
    j. Nantucket Gray.
    k. Olive.
    l. Pewter.
    m. Suede.
    n. Coastal Blue.
    o. Autumn Red.
    p. Sable Brown.
    q. Cypress.
    r. Flagstone.
    s. Pacific Blue.
    t. Forest.
    u. Granite Gray.
    v. Hearthstone.

11. Factory Stain Finish: Factory applied Allura Fiber Cement Siding Premium Stain color as follows:
    a. Redwood.
    b. Mahogany.
    c. Maple.
    d. Cedar.
    e. Emerald.
    f. Slate.
12. Simulated Shingle Siding: Allura Shakes.
13. Thickness: ¼ inch (6.4 mm) plus or minus .031 inch (.8mm)

14. Style: Individual Shakes, 8" reveal with 18" length. Package comes with all 3 widths to apply in a straight or staggered appearance:
    a. Width: 6 ¼"
    b. Width: 8 ¼
    c. Width: 12"
15. Sealant/Primer: Our primary Sealant/Primer.
16. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

D. Vertical Siding: Allura Vertical Siding.
1. Thickness: 5/16 inch (7.9 mm), plus or minus .04 inch (1 mm).
2. Size: 48 by 96 inches (1220 by 2440 mm). 3.
Size: 48 by 108 inches (1220 by 2743 mm). 4.
Size: 48 by 120 inches (1220 by 3048 mm).
5. Style: Smooth panel.
6. Style: Stucco texture panel.
7. Style: Cedar panel, no grooves.
8. Style: Cedar panel, 3/8 inch (9.5 mm) wide grooves at 8 inches (200 mm) on center.
9. Style: ShipLap panel 3/8 inch (9.5 mm) wide grooves at 8 inches (200 mm) on center.
10. Sealant/Primer: Our primary Sealant/Primer.
11. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
12. Factory Finish: Factory applied ColorMax Finishing System by Allura with 100 percent acrylic solid color as follows:

a. Snow.	g. Savannah Wicker.	m. Suede.	s. Pacific Blue.
b. Linen.	h. Natural Clay.	n. Coastal Blue.	t. Forest.
c. Sterling Gray.	i. Taupe.	o. Autumn Red.	u. Granite Gray.
d. Desert Tan.	j. Nantucket Gray.	p. Sable Brown.	v. Hearthstone.
e. Marigold.	k. Olive.	q. Cypress.	
f. Light Maple.	l. Pewter.	r. Flagstone.	

E. Soffit: Allura Soffit, ventilated and non-ventilated.
1. Thickness: 1/4 inch (6.35 mm), plus or minus 1/32 inch (0.8 mm).
2. Length: 12 feet (3657 mm), plus 0, minus 1/8 inch (3 mm).
3. Style: Smooth texture
    a. Width: 12 inches (305 mm) wide.
    b. Width: 16 inches (406 mm) wide.
    c. Width: 24 inches (610 mm) wide.
4. Style: Cedar texture
    a. Width: 12 inches (305 mm) wide.
    b. Width: 16 inches (406 mm) wide.
    c. Width: 24 inches (610 mm) wide.
5. Ventilated soffit.
6. Non-ventilated soffit.
7. Combination of Ventilated and Non-ventilated as indicated on the Drawings.
8. Sealant/Primer: Our primary Sealant/Primer.

9. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

10. Factory Finish: Factory applied ColorMax Finishing System by Allura with 100 percent acrylic solid color as follows:

a. Snow.
b. Linen.
c. Sterling Gray.
d. Desert Tan.
e. Marigold.
f. Light Maple.
g. Savannah Wicker.
h. Natural Clay.
i. Taupe.
j. Nantucket Gray.
k. Olive.
l. Pewter.
m. Suede.
n. Coastal Blue.
o. Autumn Red.
p. Sable Brown.
q. Cypress.
r. Flagstone.
s. Pacific Blue.
t. Forest.
u. Granite Gray.
v. Hearthstone.

11. Factory Stain Finish: Factory applied Allura Fiber Cement Siding Premium Stain color as follows:

a. Redwood.
b. Mahogany.
c. Maple.
d. Cedar.
e. Emerald.
f. Slate.

F. Soffit Panel: Allura Fiber Cement Soffit Panel.

1. Thickness: 1/4 inch (6 mm), (6.35 mm, plus or minus 0.8 mm).
2. Width: 48 inches (1220 mm).
3. Length: 8 feet (2440 mm), plus 0, minus 1/8 inch (3.17 mm).
4. Style: Smooth texture
5. Style: Cedar texture
6. Sealant/Primer: Sealant/Primer.
7. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

2.3 Accessories

A. Trim: Allura Trim/Fascia Board

1. Size:
   a. Thickness: 7/16 inch (11 mm) plus or minus (1 mm).
      1) Width:
         i. 3-1/2 inch (89 mm).
         ii. 5-1/2 inch (140 mm).
         iii. 7-1/4 inch (185 mm).
         iv. 9-1/4 inch (235 mm). x.
         11-1/4 inch (286 mm).
      2) Length: 12 feet (3.657 m) plus or minus 1/8 inch (3.17 mm).
   b. Thickness: 4/4''.
      1) Width:
         i. 2" (59 mm).
         ii. 3" (76 mm).
         iii. 4" (102 mm).
         iv. 6" (153 mm).

x. 8" (203 mm).

xi. 10" (254 mm).

xii. 12" (305 mm).

2) Length: 12 feet (3.657 m) plus or minus 1/8 inch (3.17 mm).

c. Thickness: 5/4" .

1) Width:

i. 3" (76 mm).

ii. 4" (102 mm).

iii. 5" (127 mm).

iv. 6" (153 mm).

x. 8" (203 mm).

xi. 10" (254 mm).

xii. 12" (305 mm).

2) Length: 12 feet (3.657 m) plus or minus 1/8 inch (3.17 mm).

2. Sealant/Primer: Our primary Sealant/Primer.

B. Provide the following trim:

1. Starter strip for lap siding.
2. Outside corners, butted to siding.
3. Outside corners, overlapping siding.
4. Fascia board.

C. Sealant: Paintable, 100 percent acrylic latex caulk complying with ASTM C 920.

D. Sheet Metal Flashing: Minimum 26 gauge hot-dipped galvanized steel sheet, or coated aluminum.

E. Nails: Length as required to penetrate minimum 1-1/4 inch (32mm) into solid backing; hot-dipped galvanized or stainless steel.

F. Building Paper: Kraft or bituminous paper; not polyethylene or foil.

G. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.

PART 3 EXECUTION

3.1 Examination

A. Prior to commencing installation, verify governing dimensions of building and condition of substrate.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 Preparation

A. Examine, clean, and repair as necessary any substrate conditions that would be detrimental to proper installation.

B. Do not begin installation until unacceptable conditions have been corrected.

3.3 Installation

A. Install in accordance with manufacturer's instructions and Drawing details.
   1. Read warranty and comply with all terms necessary to maintain warranty coverage.
   2. Install in accordance with conditions stated in model code evaluation report applicable to location of project.
   3. Use trim details indicated on drawings.
   4. Touch up all field cut edges before installing.
   5. Pre-drill nail holes if necessary to prevent breakage.

B. Over Wood Studs Without Sheathing: Install building paper over studs prior to installing siding.

C. Over Wood and Wood-Composite Sheathing: Fasten siding through sheathing into studs.

D. Over Foam Sheathing: Read and comply with sheathing manufacturer's recommendations.
   1. For sheathing of 1 inch (25 mm) thickness or less, nail through sheathing into studs using correspondingly longer nails.

E. Over Masonry Walls: Install furring strips of adequate thickness to accept full length of nails and spaced at 16 inches (406 mm) on center.

F. Over Steel Studs: Minimum 20 gauge steel, 3 5/8" (92 mm) C-studs. Use 1-5/8" (41 mm) long, #8-18 x 3/8" HD self-tapping, corrosion-resistant ribbed bugle head screws. Attach siding at each stud insuring that at least 3 screw threads penetrate the studs.

G. Diagonal Siding: Follow manufacturer's instructions.

H. Allow space between both ends of siding panels that butt against trim for thermal movement; seal joint between panel and trim with exterior grade sealant.

I. Joints in Horizontal Siding: Avoid joints in lap siding except at corners; where joints are inevitable stagger joints between successive courses.

J. Joints in Vertical Siding: Install Z-flashing in horizontal joints between successive courses of vertical siding.

K. Furred Installation: Leave space at top and bottom open; top may be behind soffit; at bottom install insect screen overopening by wrapping a strip of screen over bottom ends of vertical furring strips.

L. Install sheet metal flashing above door and window casings and horizontal trim in field of siding.

M. Do not install siding less than 6 inches (150 mm) from surface of ground nor closer than 1 inch (25 mm) to roofs, patios, porches, and other surfaces where water may collect.

N. After installation, seal all joints except lap joints of lap siding. Seal around all penetrations. Paint all exposed cut edges.

O. Finish Painting: Specified in Section 09900.

P. Finish Painting: Within 6 months after installation, paint siding and trim with one coat finish paint.

Q. Finish Painting: Within 6 months after installation, paint siding and trim with one coat primer and two coats finish paint.

3.4 Cleaning

A. At completion of work, remove debris caused by siding installation from project site.

B. Touch-up, repair or replace damaged products before Substantial Completion. END

OF SECTION

allura™
Advanced Technology in Fiber Cement
elementia

General Description: Allura Fiber Cement siding is available in different products providing both traditional and contemporary aesthetics. It is suitable for residential and light commercial applications. These products offer a high degree of dimensional stability and impact resistance.

Shapes
Perfection Shingles
Random Square Straight Edge
Random Square Staggered Edge
Half-Rounds
Octagons

Lap
Smooth Lap
Cedar Lap

Vertical
Stucco
Smooth
Cedar/no groove
Cedar/8" grooved

Trim
Cedar

Finishes: Allura's exclusive Sealing System ready for field top coating with high quality, acrylic latex paint or stains. Factory prefinishing available with paint or stain. Allura Fiber Cement Siding must be allowed to breathe; therefore, it must never be primed, painted or stained on the back side.

SurfacePatterns: Smooth,TraditionalCedarandRusticCedargrains,cedar-texturedgrain,stuccotexture,verticalgrain.

Sizes:

Shapes
8-1/4" x 12' (209mm x 3657mm)
12" x 48" (305mm x 1219mm)
16" x 48" (406mm x 1219mm)

Lap Siding
5-1/4" (133mm)
6-1/4" (159mm)
7-1/4" (185mm)
7-1/2" (191mm)
8-1/4" (209mm)
9-1/4" 235mm)
12" (305mm) x 12' (3657mm) length

Vertical
4' x 8' (1219mm x 2438mm)
4' x 9' (1219mm x 2743mm)
4' x 10' (1219mm x 3048mm)

Trim
3-1/2" (89mm)
5-1/2" (140mm)
7-1/4" (185mm)
9-1/4" (235mm),
11-1/4" (286mm) x 12' (3657mm) length

(4/4" thick – 11mm)
2" (59 mm)
3" (76 mm)
4" (102 mm)
6" (153 mm)
8" (203 mm)
10" (254 mm)
12" (305 mm) x 12' (3657mm) length

(5/4" thick – 11mm)
3" (76 mm)
4" (102 mm)
5" (127 mm)
6" (153 mm)
8" (203 mm)
10" (254 mm)
12" (305 mm x 12' (3657mm) length

Thickness: 5/16" (8mm) on shapes, lapandverticalsiding.

Composition: Theproductsaremanufactured using a multi-step high-pressureprocesscombining Portland cement, wood fiber and specialty additives. Wood grains and other architectural features are pressed into the surface.

Technical Data: Allura Fiber Cementsoffit was tested in accordance with the American Society for Testing & Materials

ASTM C1186-02	Standard Specification for Flat Non-Asbestos Fiber Cement Sheets
ASTM C1185-96	Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
ASTM E72-95	Conducting Strength Testsof Panelsfor Building Construction
ASTM E84	Surface Burning Characteristics of Building Materials
ASTM E119-95a Fire	Tests of Building Construction and Materials
ASTM E136	Non-Combustible
ASTM E330-96	Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
ASTM G26-95	OperatingLight-ExposureApparatus(Xenon-ArcType)Withand WithoutWaterforExposureof NonmetallicMaterials

(ASTM) standards of the following specifications:

Approvals: ICC ESR-1668
Texas Dept. of Insurance Product Evaluation EC-16

Weather and Other Considerations: Product offers resistance to freeze/thaw cycles and is highly dimensionally stable. It is resistant to damaging ultraviolet (UV) rays and salt spray. It is immune to wood-boring insects. Product can resist high wind forces when installed in accordance with Allura application instructions; see instructions for details.

Fire Resistance Characteristics: Allura Fiber Cement products have a Class A (1) Flame Spread Rating - 0, Smoke developed - 5, per ASTM E84, and is considered Non-Combustible in accordance with ASTM E136.

Installation:

Preparatory Work – Allura Fiber Cementsiding productsarecut andinstalledlikeconventional wood siding. Handle and store product according to Allura recommendations. Fiber Cement siding may be applied over sheathed walls or directly to studs spaced up to 24" (610mm) o.c. where local codes permit. When applying direct to wood or metal studs, a continuous weather-resistive barrier, not a vapor retarder, must be applied. A vapor barrier, permeability of 1 perm (57.5 ng/(Pa·s·m2) or less, should be used in the wall when required and as described in the ASHRAE design manual. Consult a qualified mechanical engineer or other design professional.
Note: Allura Fiber Cement siding must be installed with the textured or smooth finished exterior surface facing out.

Methods – Complete installation recommendations are available from the manufacturer. Pneumatic nailing is recommended for attachment to wood framing. Use double hot-dipped galvanized or stainless steel nails. Do not use staples. For steel framing application use corrosion resistant bugle head screws. Vertical joints on Prefinished -Sealed lap siding should be moderately butted. Unfinished or unsealed joints must be gapped 1⁄8" maximum and caulked. Follow caulk manufacturer's application instructions. Use drip cap flashing above all openings.

Precautions – Avoid breathing dust created by drilling, cutting, or sawing. Use with adequate ventilation and a dust collection system; see MSDS for additional dust precautions. All Allura soffit is sealed with our primer/sealer. A finish coat should be applied within 6 months of installation.

Building Codes – Current data on building code requirementsand product compliance may be obtained from Allura. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

Warranty: Allura Fiber Cement siding offers a 50-year limited transferable product warranty on all products listed in this document with the exception of lap siding products branded as Multimax. Multimax lap siding products offer a 30-year limited transferrable product warranty. Additionally, Allura offers for ColorMax prefinished products a 15-year limited coating warranty.

Allura warrants that if used for its intended purpose and properly installed and maintained according to ALLURA's published installation instructions: (a) will resist damage caused by hail or termite attacks, (b) will resist rot, (c) will remain non-combustible, and (d) will be free from manufacturing defects in material and workmanship. See warranties for details and limitations.

Technical Services: Allura maintains a technical services staff toassist building professionals with questions regarding Allura siding products. Call 1 (844) 4 ALLURA for samples and answers to technical or installation questions.

Plycem USA
396 W. Greens Road
Houston, Texas 77067
(1-844-425-5872)
www.allurausa.com

Specification Sheet

allura™
Fiber Cement Products by Plycem

Allura Fiber Cement Soffit

Fiber Cement Soffit (Ventilated and Non-Ventilated)

General Description: Allura Fiber Cement soffit is available in products providing both traditional and contemporary aesthetics. It is suitable for residential and light commercial applications. These products offer a high degree of dimensional stability and impact resistance. Soffit is available in ventilated and non-ventilated designs.

Style	Finish	Net Free Air Space Per Lineal Foot	Panel Size	Ventilation Slot Dimensions (Approx.)	Thickness (Nominal)
Cedar	Primer/Sealer	n/a n/a n/a	12" x 12' 16" x 12' 24" x 12'	n/a n/a n/a	1/4" 1/4" 1/4"
Cedar Ventilated/ Perforated	Primer/Sealer	6.9 Sq. In. 6.9 Sq. In. 6.9 Sq. In.	12" x 12' 16" x 12' 24" x 12'	3/16" diameter 3/16" diameter 3/16" diameter	1/4" 1/4" 1/4"
Smooth	Primer/Sealer	n/a n/a n/a	12" x 12' 16" x 12' 24" x 12'	n/a n/a n/a	1/4" 1/4" 1/4"
Smooth Ventilated/ Perforated	Primer/Sealer	6.9 Sq. In. 6.9 Sq. In. 6.9 Sq. In.	12" x 12' 16" x 12' 24" x 12'	3/16" diameter 3/16" diameter 3/16" diameter	1/4" 1/4" 1/4"
Porch Ceiling Panel/ Soffit Cedar or Smooth	Primer/Sealer	n/a	4" x 8'		1/4"

Finishes: Allura uses an exclusive Primer/Sealer to protect against moisture on all products. Our ColorMax® finishing system offers additional protection against the elements while enhancing the exterior finish with a spectrum of 16 attractive solid colors for all Soffit and Porch Ceiling Panels. The Cedar Soffit is also available in 6 natural wood stains.

Surface Patterns: Cedar-textured grain and Smooth

Sizes: 12" (305mm), 16" (406mm), 24" (610mm) x 12' (3657mm) length

Thickness: 1/4" (6mm)

Composition: The products are manufactured using a multi-step high-pressure process combining Portland cement, recycled content, wood fiber and specialty additives. Wood grains and other architectural features are pressed into the surface.

Technical Data: Allura Fiber Cement soffit was tested in accordance with the American Society for Testing & Materials (ASTM) standards of the following specifications:

ASTM C1186-02	Standard Specification for Flat Non-Asbestos Fiber Cement Sheets
ASTM C1185-96	Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards
ASTM E84	Surface Burning Characteristics of Building Materials
ASTM E136	Non-Combustible
ASTM G26-95	Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials

Approvals: ICC ESR-1668

Weather and Other Considerations: Product offers resistance to freeze/thaw cycles and is highly dimensionally stable. It is resistant to damaging ultraviolet (UV) rays and salt spray. It is immune to wood-boring insects. Product can resist high wind forces when installed in accordance with AlluraAllura application instructions; see instructions for details.

Fire Resistance Characteristics: Allura Fiber Cement soffit products have a Class A (1) Flame Spread Rating - 0, Smoke developed - 5, per ASTM E84, and is considered Non-Combustible in accordance with ASTM E136.

Installation:

Preparatory Work – Allura Fiber Cement soffit products are cut and installed like conventional wood soffit. Handle and store product according to Allura recommendations. Our Fiber Cement soffit should be applied to structural framing members spaced no more than 24" (610mm) on center with the longest dimension perpendicular to the framing.
Note: Allura Fiber Cement soffit must be installed with the textured or smooth finished exterior surface facing out.

Methods – Complete installation manual is available from the manufacturer. Use non-corrosive double hot-dipped galvanized or stainless steel fasteners. Do not use staples. Fasten the soffit 3/4" from the side edge, 3/8" from the butt end, and 2" from the corner. Space the fasteners every 12" along both the front and back edge. Fasten from one end of the panel to the other. The butt ends should be in contact, fastened at corresponding ends, and supported by framing.

Precautions – Avoid breathing dust created by drilling, cutting, or sawing. Use with adequate ventilation and a dust collection system; see MSDS for additional dust precautions. All Allura soffit is sealed with our primer/sealer. A finish coat should be applied within 6 months of installation.

Building Codes – Current data on building code requirements and product compliance may be obtained from Allura. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

Warranty: Allura Fiber Cement siding offers a 50-year limited transferable product warranty.
Additionally, Allura offers for ColorMax® prefinished products a 15-year limited coating warranty.

Allura warrants that if used for its intended purpose and properly installed and maintained according to ALLURA's published installation instructions: (a) will resist damage caused by hail or termite attacks, (b) will resist rot, (c) will remain non-combustible, and (d) will be free from manufacturing defects in material and workmanship. See warranties for details and limitations.

Technical Services: Allura maintains a technical services staff to assist building professionals with questions regarding Allura siding products. Call (844) 4 ALLURA for samples and answers to technical or installation questions.

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