

Allura® Siding Three-Part Specification

SECTION 07 46 46 FIBER-CEMENT SIDING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Fiber-cement lap siding.
- B. Fiber-cement panel siding.
- C. Fiber-cement shake siding.
- D. Fiber-cement soffit.
- E. Fiber-cement trim.

1.3 RELATED SECTIONS

- A. Section 05 41 00 - Structural Metal Stud Framing
- B. Section 06 10 00 - Rough Carpentry
- C. Section 06 20 13 - Exterior Finish Carpentry
- D. Section 07 25 00 - Weather Barriers
- E. Section 07 60 00 - Flashing and Sheet Metal
- F. Section 07 90 00 - Joint Protection

1.4 REFERENCES

- A. ASTM C1186 - Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets.
- B. ASTM D3359 - Standard Test Method for Measuring Adhesion by Tape Test, Tool and Tape.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C.
- E. ASTM E2768 - Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials.

1.5 COORDINATION

- A. Coordinate siding installation per the provisions of Section 01 31 00 "Project Management and Coordination," and with other adjoining constructions to ensure proper sequencing and building code compliance.

1.6 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of product and accessory.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods, including fastening patterns.
 - 4. Manufacturer standard details and specifications.
 - 5. Evaluation Reports from ICC-ES, QAI CERus, or other applicable model code authority for each type of fiber-cement siding specified.
 - 6. Recommended material care and maintenance.
- B. Shop Drawings: Provide detailed drawings of atypical non-standard applications of cementitious siding materials which are outside the scope of the standard details and specifications provided by the manufacturer.
- C. Selection Samples: Where size, texture, and/or factory-finish color has not been determined, submit representative samples including related accessories.
- D. Verification Samples: For each type, color, texture and pattern, submit samples representing the product and color specified.
- E. Installer qualifications.
- F. Sample Warranties.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum of two (2) years of experience with installation of similar products.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
 - 1. Build mockup of typical wall area as indicated on Drawings.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing prior to project commencement.
 - 3. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
 - 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. Pre-Installation Meeting(s): Prior to beginning installation, conduct conference(s) to verify coordination, site conditions, installation, and project requirements.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Unload, store, and handle in a manner to prevent bending, cracking, twisting, and surface damage.
- B. Store products under cover on a level surface and in compliance with manufacturer's published installation requirements.
- C. Ensure products are fully dry prior to and during installation.
- D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in



accordance with requirements of local authorities having jurisdiction.

1.9 PROJECT CONDITIONS

- A. Proceed with installation only when existing and forecasted weather conditions permit in accordance with manufacturers' written instructions and warranty requirements.

1.10 WARRANTY

- A. Product Warranty: 30-Year Transferrable Limited Product Warranty.
 - 1. Allura® Lap
 - 2. Allura® Panel
 - 3. Allura® Shake
 - 4. Allura® Shake Select
 - 5. Allura® Soffit
- B. Product Warranty: 15-Year Transferrable Limited Product Warranty.
 - 1. Allura® Trim
- C. Finish Warranty: 15-Year Transferrable Limited Finish Warranty.
 - 1. Allura® Spectrum Coating

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Plycem USA, LLC, a.k.a. Allura®, located at: 396 W. Greens Rd, Ste 300, Houston, TX 77067; Tel: 1-844-4-ALLURA Web: www.alluraUSA.com
- B. Substitutions: Not permitted without approval.
- C. Requests for approval of equal substitutions considered in accordance with provisions of Section 01600.

2.2 FIBER-CEMENT SIDING AND TRIM

- A. Allura® Lap, Allura® Panel, Allura® Shake, Allura® Shake Select and Allura® Soffit requirement for materials:
 - 1. Fiber Cement Siding- Complies with ASTM C1186 Type A Grade II.
 - 2. Fiber Cement Siding- Complies with ASTM E136 as a noncombustible material.
 - 3. Fiber Cement Siding- Complies with ASTM E84 Flame Spread:0; Smoke Developed:5
 - 4. CAL-FIRE, Fire Engineering Division Building Materials Listing - Wildland Urban Interface (WUI) Listed Product.
 - 5. Code Evaluation Report CERus-1012.
 - 6. Miami Dade County, Notice of Acceptance 24-0408-04.
 - 7. Florida State Product Approval FL20742.
 - 8. Texas Department of Insurance Product Evaluation EC-16.
- B. Allura® Lap siding
 - 1. Thickness: 5/16 inches (8mm).
 - 2. Texture: Smooth or Traditional Cedar.
 - 3. Lap siding sizes:
 - a. 5-1/4 inches (133mm) by 12 feet (3658mm) with 4 inches (102mm) exposure.
 - b. 6-1/4 inches (159mm) by 12 feet (3658mm) with 5 inches (127mm) exposure.
 - c. 7-1/4 inches (184mm) by 12 feet (3658 mm) with 6 inches (152mm) exposure.
 - d. 8-1/4 inches (210mm) by 12 feet (3658 mm) with 7 inches (178mm) exposure.



- e. 9-1/4 inches (235mm) by 12 feet (3658 mm) with 8 inches (203mm) exposure.
 - f. 12 inches (305mm) by 12 feet (3658mm) with 10-3/4 inches (273mm) exposure.
 - 4. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
- C. Allura® Panel
- 1. Thickness: 5/16 inches (8mm).
 - 2. Texture: Smooth, Traditional Cedar or 8" OC Grooved.
 - 3. Panel sizes:
 - a. 4 feet (1219mm) by 8 feet (2438mm).
 - b. 4 feet (1219mm) by 9 feet (2743mm).
 - c. 4 feet (1219mm) by 10 feet (3048mm).
 - 4. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
- D. Allura® Shake
- 1. Thickness: 1/4 inches (6mm).
 - 2. Texture: Traditional Cedar.
 - 3. Shake sizes:
 - a. Staggered Edge shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 6 inches (152mm) exposure.
 - b. Straight Edge shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - c. Half Round shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - 4. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
- E. Allura® Shake Select
- 1. Thickness: 5/16 inches (8mm).
 - 2. Texture: Traditional Cedar.
 - 3. Shake Select sizes:
 - a. Staggered Edge shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - b. Straight Edge shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - c. Straight Edge shake panel, 48 inches (1219mm) wide by 12 inches (305mm) high with 5 inches (127mm) exposure
 - d. Half Round shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - e. Octagon shake panel, 48 inches (1219mm) wide by 16 inches (406mm) high with 7 inches (178mm) exposure.
 - 4. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
- F. Allura® Soffit
- 1. Soffit Boards
 - a. Thickness: 1/4 inches (6mm).
 - b. Texture: Smooth or Traditional Cedar
 - c. Soffit Board sizes:
 - 1) Vented or non-vented, 12 inches (305mm) by 12 feet (3658mm).
 - 2) Vented or non-vented, 16 inches (406mm) by 12 feet (3658mm).
 - 3) Vented or non-vented, 24 inches (610mm) by 12 feet (3658mm).
 - 4) Vented or non-vented, 24 inches (610mm) by 8 feet (2438mm).
 - d. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
 - 2. Soffit Ceiling Panels
 - a. Texture: Smooth, Traditional Cedar
 - b. Soffit Ceiling Panel sizes:
 - 1) Non-Vented, 1/4 inches (6mm) thick, 4 feet (1219mm) by 8 feet (2438mm).



- 2) Beadboard non-vented, 5/16 inches (8mm) thick, 4 feet (1219mm) by 8 feet (2438mm).
 - c. Finish: Factory-primed or factory-finished with Allura® Spectrum Coating.
- G. Allura® Trim
1. Thickness: 7/16 (7/16 inch (11mm)), 4/4 (3/4 inches (19mm)), 5/4 (1 inch (25mm)), and 8/4 (1-1/2 inches (38mm)).
 2. Texture: Smooth or Cedar
 3. Trim Board sizes:
 - a. 7/16x4, 3-1/2 inch (89mm) by 12 feet (3658mm).
 - b. 7/16x6, 5-1/2 inch (140mm) x 12 feet (3658mm).
 - c. 7/16x8, 7-1/4 inch (184mm) x 12 feet (3658mm).
 - d. 7/16x12, 11-1/4 inch (286mm) x 12 feet (3658mm).
 - e. 4/4x4, 3-1/2 inch (89mm) by 12 feet (3658mm).
 - f. 4/4x6, 5-1/2 inch (140mm) by 12 feet (3658mm).
 - g. 4/4x8, 7-1/4 inch (184mm) by 12 feet (3658mm).
 - h. 4/4x10, 9-1/4 inch (235mm) by 12 feet (3658mm).
 - i. 4/4x12, 11-1/4 inch (286mm) by 12 feet (3658mm).
 - j. 5/4x4, 3-1/2 inch (89mm) by 12 feet (3658mm).
 - k. 5/4x5, 4-1/2 inch (114mm) by 12 feet (3658mm).
 - l. 5/4x6, 5-1/2 inch (140mm) by 12 feet (3658mm).
 - m. 5/4x8, 7-1/4 inch (184mm) by 12 feet (3658mm).
 - n. 5/4x10, 9-1/4 inch (235mm) by 12 feet (3658mm).
 - o. 5/4x12, 11-1/4 inch (286mm) by 12 feet (3658mm).
 - p. 8/4x4, 3-1/2 inch (89mm) by 12 feet (3658mm).
 - q. 8/4x6, 5-1/2 inch (140mm) by 12 feet (3658mm).
 4. Batten Sizes:
 - a. 4/4x2, 1-3/4 inch (38mm) by 12 feet (3658mm).
 - b. 4/4x3, 2-1/2 inch (63mm) by 12 feet (3658mm).
 - c. 5/4x2, 1-3/4 inch (38mm) by 12 feet (3658mm).
 - d. 5/4x3, 2-1/2 inch (63mm) by 12 feet (3658mm).
 5. Finish: Factory primed or factory-finished with Allura® Spectrum Coating.

2.3 FASTENERS

- A. Refer to applicable building code compliance reports for fastener size specifications and selection.
- B. Use corrosion resistant fasteners appropriate to local building codes and practices, such as hot-dipped galvanized or stainless-steel nails and screws.

2.4 FINISHES

- A. Factory Primer: Provide factory primed universal primer.
 1. Primer: Factory Primed by Allura®.
 2. Topcoat: Refer to Section 09900 and Exterior Finish Schedule.
- B. Factory Finish: Refer to Exterior Finish Schedule.
 1. Product: Allura Spectrum ® Coating by Allura®.
 2. Definition: Factory applied finish; defined as a finish applied in the same facility that manufactures the siding substrate or a facility approved by the manufacturer.
 3. Protection: Factory applied finish protection when palletized such as plastic laminate or foam slip sheet.
 4. Accessories: Complete finishing system includes pre-packaged touch-up kit provided by fiber cement manufacturer. Provide quantities as recommended by manufacturer.

- C. Allura Spectrum® Coating colors:
1. Pure White (SW7005)
 2. Alabaster (SW7008)
 3. Creamy (SW7012)
 4. Accessible Beige (SW7036)
 5. Macadamia (SW6142)
 6. Agreeable Gray (SW7029)
 7. Analytical Gray (SW7051)
 8. Pewter Tankard (SW0023)
 9. Morris Room Gray (SW0037)
 10. Virtual Taupe (SW7039)
 11. Anonymous (SW7046)
 12. Toile Red (SW0006)
 13. Olive Grove (SW7734)
 14. Connected Gray (SW6165)
 15. Evergreen Fog (SW9130)
 16. Gray Clouds (SW7658)
 17. Niebla Azul (SW9137)
 18. Downing Slate (SW2819)
 19. Gale Force (SW7605)
 20. Naval (SW6244)
 21. Urbane Bronze (SW7048)
 22. Black Fox (SW7020)
 23. Peppercorn (SW7674)
 24. Iron Ore (SW7069)
 25. Tricorn Black (SW6258)
- D. Allura Spectrum® The Wood Series™ Coating colors
1. Driftwood
 2. River Oak
 3. Ancient Timber
 4. Fresh Timber
 5. Lakeside Oak
 6. Red Cedar
 7. Sunbleached Walnut
 8. Burnished Oak
 9. Aged Mahogany
 10. Modern Elm

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with manufacturer's requirements for installation tolerances and other conditions affecting performance of fiber-cement panels and related accessories. Do not begin installation until substrates have been properly prepared.
- B. If framing preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Wood Framing: Nominal 2-inch (51mm) by 4-inch (102mm) wood framing complying with local building code, including the use of weather-resistive barriers or vapor barriers where required. Framing lumber to be straight, true, of uniform dimensions and properly aligned. Framing to have a minimum of 1 1/2-inch (38mm) face.
1. Install weather-resistive barriers and claddings to dry surfaces.



2. Repair any punctures or tears in the weather-resistive barrier prior to installation of the siding.
3. Protect siding from other trades.

- D. Metal Framing: Minimum 20 gauge 3-5/8 inches (92mm) C-Stud 16 inches maximum on center or maximum 16 gauge 3-5/8 inches (92mm) C-Stud 24 inches (610mm) maximum on center metal framing complying with local building codes, including the use of weather-resistive barriers and/or vapor barriers where required. Minimum 1-1/2 inches (38mm) face and straight, true, of uniform dimensions and properly aligned.
1. Install weather-resistive barriers and claddings to dry surfaces.
 2. Repair any punctures or tears in the weather-resistive barrier prior to installation of the siding.
 3. Protect siding from other trades.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Remove projections and substances detrimental to application from the substrate.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- D. Install a weather-resistive barrier is required in accordance with local building code requirements. The weather-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements.

3.3 INSTALLATION

- A. Install materials in strict accordance with manufacturer's installation instructions.
- B. Allow minimum vertical clearance between the edge of siding and any other material in strict accordance with the manufacturer's installation instructions.
- C. Align vertical joints over framing members.
- D. Maintain clearance between Allura® products and adjacent finished grade.
- E. Allow minimum 1/8 inch minimum gap between trim and siding. Seal gap with high quality, paintable caulk.
- F. Install metal Z flashing and provide a 1/4 inch (6mm) gap at horizontal joints.
- G. When installing Allura® Panel, block framing between studs where horizontal joints occur.
- H. Place fasteners no closer than 3/8 inch (9.5mm) from edges of panels.
- I. Place fasteners 2 inches (51mm) from Allura® panel corners and a minimum of 1 inch (25mm) away from other Allura® product corners.
- J. Do not overdrive fasteners.
- K. Wind Resistance: Where a specified level of wind resistance is required, specified fasteners shall be used to attach the Allura® products to structural framing as described in the applicable building code compliance report.
- L. Install kick-out flashing to deflect water away at all roof-to-wall intersections.

3.4 ADJUSTING AND CLEANING

- A. Remove damaged, improperly installed, or otherwise surface marred materials and replace with new materials complying with specified requirements.
- B. Clean finished surfaces according to manufacturer's written instructions and protect surfaces during construction.

3.5 FINISHING

- A. Finish factory primed panels and trim with a minimum of one coat of premium 100-percent acrylic latex (waterborne) paint within six months of installation. Dry paint film thickness shall be in compliance with manufacturer's published installation criteria.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products per manufacturer's installation instructions and printed literature before Substantial Completion.

END OF SECTION