

TerraPlank™ Siding Three-Part Specification

SECTION 074646 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.

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 degrees C.
- E. ASTM E2768 - Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials.

1.5 COORDINATION

- A. Coordinate siding installation with flashings and other adjoining construction to ensure proper sequencing and building code compliance.

1.6 PREINSTALLATION MEETINGS

- A. Coordinate with Section 013100 "Project Management and Coordination."
- B. Preinstallation Conference: Conduct conference at project site.

1.7 ACTION 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. Installation methods, including fastening patterns.
 - 3. Manufacturer standard details and specifications.
- 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: Fiber Cement product samples including related accessories. For factory-finished product, submit available factory-finished color samples.
- D. Verification Samples: For each type, color, texture and pattern, submit minimum 3-inch-wide samples, representing the actual product and color to be specified.

1.8 INFORMATION SUBMITTALS

- A. Qualifications: For Installer.
- B. Evaluation Reports: For each type of fiber-cement siding required, from ICC-ES or other applicable model code authority.
- C. Sample warranties.

1.9 MAINTENANCE MATERIAL SUBMITTALS

- A. Maintenance Data: For each type of product, including related accessories, to include in maintenance manuals.
- B. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Furnish full lengths of each type of product including related accessories, in a quantity equal to 2 percent of amount installed.

1.10 QUALITY ASSURANCE

- A. 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.

1.11 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.

1.12 PROJECT CONDITIONS

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

1.13 WARRANTY

- A. Product Warranty: 25-Year Transferrable Limited Product Warranty.
 - 1. TerraPlank™ Lap
 - 2. TerraPlank™ Panel
 - 3. TerraPlank™ Shake

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Plycem USA, LLC, TerraPlank™, 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

- A. TerraPlank™ Lap, TerraPlank™ Panel, TerraPlank™ Shake, 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. QAI Code Evaluation Report CERus-1012
 - 5. Texas Department of Insurance Product Evaluation EC-16.
- B. TerraPlank™ Lap siding
 - 1. Thickness: 5/16 inches (8 mm).
 - 2. Texture: Smooth or Traditional Cedar.
 - 3. Sizes:
 - a. 6-1/4 inches (159 mm) by 12 feet (3658 mm) with 5 inches (127 mm) exposure.
 - b. 7-1/4 inches (184 mm) by 12 feet (3658 mm) with 6 inches (152 mm) exposure.
 - c. 8-1/4 inches (210 mm) by 12 feet (3658 mm) with 7 inches (178 mm) exposure.
 - d. 9-1/4 inches (235 mm) by 12 feet (3658 mm) with 8 inches (203 mm) exposure.
 - e. 12 inches (305 mm) by 12 feet (3658mm) with 10-3/4 inches (273mm) exposure.
 - 4. Finish: Factory primed.
- C. TerraPlank™ Panel
 - 1. Thickness: 5/16 inches (8 mm).
 - 2. Texture: Smooth or Traditional Cedar.
 - 3. Sizes:
 - a. 4 feet (1219 mm) by 8 feet (2438 mm).
 - b. 4 feet (1219 mm) by 10 feet (3048 mm).
 - c. 4 feet (1219 mm) by 12 feet (3658 mm)..
 - 4. Finish: Factory primed.

- D. TerraPlank™ Shake
 - 1. Thickness: ¼ inches (6 mm).
 - 2. Texture: Traditional Cedar.
 - 3. Sizes:
 - a. Staggered Edge shake panel, 48 inches (1219 mm) wide by 16 inches (406 mm) high with 6 inches (152 mm) exposure.
 - b. Straight Edge shake panel, 48 inches (1219 mm) wide by 16 inches (406 mm) high with 7 inches (178 mm) exposure.
 - c. Half Round shake panel, 48 inches (1219 mm) wide by 16 inches (406 mm) high with 7 inches (178 mm) exposure.
 - 4. Finish: Factory primed.

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 TerraPlank™.
 - 2. Topcoat: Refer to Section 09900 and Exterior Finish Schedule.

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.
- B. If framing preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Wood Framing: Nominal 2-inch (51 mm) by 4-inch (102 mm) 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 (38 mm) face.
 - 1. Install weather-resistive barriers and claddings to dry surfaces.
 - 2. Do not begin installation until substrates have been properly prepared.
 - 3. Protect siding from other trades.
- D. Metal Framing: Minimum 20 gauge 3-5/8 inch (92 mm) C-Stud 16 inches maximum on center or maximum 16 gauge 3-5/8 inches (92 mm) C-Stud 24 inches (610 mm) 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 (38 mm) 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 the 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.
- E. 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 TerraPlank™ products and adjacent finished grade.
- E. Locate splices at least 12 inches (305 mm) away from window and door openings.
- F. Allow 1/8 inch gap between trim and siding. Seal gap with high quality, paintable caulk.
- G. Install metal Z flashing and provide a 1/4 inch (6 mm) gap at horizontal joints.
- H. When installing TerraPlank™ Panel, block framing between studs where horizontal joints occur.
- I. Place fasteners no closer than 3/8 inch (9.5 mm) from edges of panels.
- J. Place fasteners 2 inches (51 mm) from TerraPlank™ panel corners and a minimum of 1 inch away from other TerraPlank™ product corners.
- K. Do not overdrive fasteners.
- L. Wind Resistance: Where a specified level of wind resistance is required, specified fasteners shall be used to attach the TerraPlank™ products to structural framing as described in the applicable building code compliance report.
- M. 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 with a minimum of one coat of premium 100-percent acrylic latex paint within six months of installation. Dry paint film thickness shall be in compliance with manufacturer's published installation criteria.

END OF SECTION