

## 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 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 I 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 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: 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, a.k.a TerraPlank™, located at: 396 W. Greens Rd, Ste 300, Houston, TX 77067; Tel: 1-844-4-ALLURA Web: [www.alluraUSA.com](http://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 (8mm).
  - 2. Texture: Smooth or Traditional Cedar.
  - 3. Sizes:
    - a. 6-1/4 inches (159mm) by 12 feet (3658mm) with 5 inches (127mm) exposure.
    - b. 7-1/4 inches (184mm) by 12 feet (3658mm) with 6 inches (152mm) exposure.
    - c. 8-1/4 inches (210mm) by 12 feet (3658mm) with 7 inches (178mm) exposure.
    - d. 9-1/4 inches (235mm) by 12 feet (3658mm) with 8 inches (203mm) exposure.
    - e. 12 inches (305mm) by 12 feet (3658mm) with 10-3/4 inches (273mm) exposure.
  - 4. Finish: Factory primed.
- C. TerraPlank™ Panel
  - 1. Thickness: 5/16 inches ( mm).
  - 2. Texture: Smooth or Traditional Cedar.
  - 3. Sizes:
    - a. 4 feet (1219mm) by 8 feet (2438mm).
    - b. 4 feet (1219mm) by 10 feet (3048mm).
    - c. 4 feet (1219mm) by 12 feet (3658mm).
  - 4. Finish: Factory primed.
- D. TerraPlank™ Shake
  - 1. Thickness: 1/4 inches (6mm).
  - 2. Texture: Traditional Cedar.
  - 3. 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.

## 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. 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 (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. 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. Allow minimum 1/8 inch 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 TerraPlank™ 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 TerraPlank™ panel corners and a minimum of 1 inch (25mm) away from other TerraPlank™ 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 TerraPlank™ 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