

## SECTION 074610 - 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. Section Includes:

- 1. Fiber-cement board siding.
  - 2. Fiber-cement soffit.

- B. Related Sections:

- 1. Division 06 Section "Rough Carpentry" for wood furring, grounds, nailers, and blocking.
  - 2. Division 06 Section "Sheathing" for wall sheathing and weather-resistive barriers.
  - 3. Division 06 Section "Exterior Finish Carpentry" for wood and wood-based sidings, fiber-cement panels and fiber-cement exterior trim.
  - 4. Division 07 Section "Self-Adhering Sheet Waterproofing" for substrate flashings and transitions.
  - 5. Division 07 Section "Water Resistive Barrier / Air Barrier" for weather barrier substrate.

#### 1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Samples for Verification:
  - 1. 12-inch- (300-mm-) long-by-actual-width Sample of board siding.
  - 2. 4 full size pieces of selected shingle siding product.
- C. Qualification Data: For qualified siding Installer.
- D. Product Certificates: For each type of siding from manufacturer.
- E. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for fiber-cement siding.
- F. Research/Evaluation Reports: For each type of siding required, indicating compliance with requirements of the authorities having jurisdiction.

- G. Florida Product approval documents for each type of siding required.
- H. Maintenance Data: For each type of siding and soffit and related accessories to include in maintenance manuals.
- I. Warranty: Sample of special warranty.

#### 1.4 QUALITY ASSURANCE

- A. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C 1186 by a qualified testing agency acceptable to authorities having jurisdiction.
- B. Source Limitations: Obtain siding, including related accessories, from single source from single manufacturer.
- C. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  - 1. Build mockups for siding including accessories.
    - a. Include outside corner on one end of mockup and inside corner on other end.
  - 2. Acceptance of mockups does not constitute acceptance of deviations from the Contract Documents contained in mockups unless Architect specifically accepts such deviations in writing.
  - 3. Accepted mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- D. Preinstallation Conference: Conduct conference at Project site.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in a dry, well-ventilated, weathertight place.

#### 1.6 COORDINATION

- A. Coordinate installation with flashings and other adjoining construction to ensure proper sequencing.

#### 1.7 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding and soffit that fail(s) in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including cracking, deforming.

2. Warranty Period: 10 years from date of Substantial Completion.

## 1.8 EXTRA MATERIALS

- A. 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 siding and soffit including related accessories, in a quantity equal to 2 percent of amount installed.

## PART 2 - PRODUCTS

### 2.1 FIBER-CEMENT SIDING

- A. General: ASTM C 1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.
  1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Boral Building Products.
    - b. Cemplank.
    - c. CertainTeed Corp.
    - d. GAF Materials Corporation.
    - e. James Hardie.
    - f. Nichiha Fiber Cement.
  2. Horizontal Pattern: Lap siding boards installed with 6" exposure as indicated.
    - a. Texture: Wood grained texture.
  3. Shingle Pattern: Shingle pattern siding panels as indicated.
    - a. Texture: Wood grained texture.
  4. Factory Priming: Manufacturer's standard acrylic primer.

### 2.2 FIBER-CEMENT SOFFIT

- A. General: ASTM C 1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
  - a. CertainTeed Corporation.
  - b. James Hardie Building Products, Inc.
  - c. Nichiha Fiber Cement.
- B. Nominal Thickness: Not less than 5/16 inch (8 mm).
- C. Pattern: 24-inch- (600-mm-) wide sheets with smooth texture unless otherwise indicated.
- D. Ventilation: Provide perforated soffit unless otherwise indicated.
- E. Factory Priming: Manufacturer's standard acrylic primer.

## 2.3 ACCESSORIES

- A. Decorative Accessories: Provide the following fiber-cement decorative accessories as indicated:
  1. Corner posts and trim boards.
  2. Door and window casings.
  3. Moldings and trim.
- B. Flashing: Provide flashing complying with Division 07 Section "Sheet Metal Flashing and Trim" at window and door heads and where indicated.
- C. Fasteners:
  1. For fastening fiber cement, use hot-dip galvanized fasteners complying with manufacturer's directions.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of siding and soffit and related accessories.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Clean substrates of projections and substances detrimental to application.

### 3.3 INSTALLATION

- A. General: Comply with siding manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
  - 1. Do not install damaged components.
  - 2. Center nails in elongated nailing slots without binding siding to allow for thermal movement.
- B. Install fiber-cement siding and related accessories.
  - 1. Install fasteners no more than 24 inches (600 mm) o.c. and according to manufacturer's directions and applicable requirements of the authorities having jurisdiction.
- C. Install joint sealants as specified in Division 07 Section "Joint Sealants" and to produce a weathertight installation.

### 3.4 ADJUSTING AND CLEANING

- A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.
- B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION 074600