

**SECTION 07 46 46**  
**FIBER CEMENT SIDING**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Wood-fiber cement siding.

**1.2 APPLICABLE PUBLICATIONS**

- A. Comply with references to extent specified in this Section.
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- C. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes [Metric]; 2013.
- D. ASTM C1186 - Standard Specification for Flat Fiber Cement Sheets; 2008 (Reapproved 2012).

**1.3 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - 1. Description of each product.
  - 2. Installation instructions.
  - 3. Warranty.
- C. Samples:
  - 1. Cement Board: 200 mm by 200 mm (8 inches by 8 inches), minimum size.
  - 2. Fasteners: One of each type used

**1.4 DELIVERY AND STORAGE**

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, production run number, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

**1.5 STORAGE AND HANDLING**

- D. Store products indoors in dry, weathertight facility.
- E. Protect products from damage during handling and construction operations.

**1.6 WARRANTY**

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."
- B. Manufacturer's Warranty: Warrant sheathing against material and manufacturing defects.

1. Warranty Period: 10 years

## **PART 2 PRODUCTS**

### **2.01 SIDING**

#### **2.1 PRODUCTS - GENERAL**

- A. Provide each product from one manufacturer.
- B. Sustainable Construction Requirements:
  1. Lap Siding Recycled Content: Select products with recycled content to achieve overall Project recycled content requirement.

#### **2.2 LAP SIDING**

Lap Siding: Individual horizontal boards made of cement and cellulose fiber formed under high pressure with integral surface texture, complying with ASTM C1186 Type A Grade II; with machined edges, for nail attachment.

1. Style: Standard lap style.
2. Texture: Smooth.
3. Length: 12 ft, nominal.
4. Width (Height): 5-1/4 inches.
5. Thickness: 5/16 inch, nominal.
6. Finish: Factory applied primer.
7. Color: As selected from manufacturer's standard range.
8. Warranty: 50 year limited; transferable.
9. Lap Siding Manufacturers:
  - a. James Hardie Building Products, Inc : [www.jameshardie.com](http://www.jameshardie.com).
  - b. Weyer Haeuser, Cottage 1/2" Lap Siding
  - c. Substitutions: See Section 01 6000 - Product Requirements

#### **2.3 ACCESSORIES**

- A. Furring Strips: Galvanized metal channels.
- B. Trim: Same material and texture as siding.
- C. Fasteners: Galvanized or corrosion resistant; length as required to penetrate minimum 1-1/4 inch.
- D. Exterior Soffit Vents: One piece, perforated, ASTM B221 (ASTM B221M), 6063 alloy, T5 temper, aluminum, with edge suitable for direct application to gypsum board and manufactured especially for soffit application. Provide continuous vent.
- E. Air Barrier: As specified in Section 07 27 27, FLUID-APPLIED MEMBRANE AIR BARRIER, VAPOR RETARDING

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Examine substrate and clean and repair as required to eliminate conditions that would be detrimental to proper installation.
- B. Verify that water-resistive barrier has been installed over substrate completely and correctly.

- C. Do not begin until unacceptable conditions have been corrected.
- D. If substrate preparation is the responsibility of another installer, notify PKA Architects of unsatisfactory preparation before proceeding.

### **3.2 PREPARATION**

- A. Install sheet metal flashing:
  - 1. Above door and window trim and casings.
  - 2. Above horizontal trim in field of siding.

### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer's instructions and recommendations.
  - 1. Read warranty and comply with all terms necessary to maintain warranty coverage.
  - 2. Use trim details indicated on drawings.
  - 3. Touch up all field cut edges before installing.
  - 4. Pre-drill nail holes if necessary to prevent breakage.
- B. Over Steel Studs: Use hot-dipped galvanized self-tapping screws, with the points of at least 3 screws penetrating each stud the panel crosses and at panel ends.
- C. Allow space for thermal movement between both ends of siding panels that butt against trim; seal joint between panel and trim with specified sealant.
- D. Joints in Horizontal Siding: Avoid joints in lap siding except at corners; where joints are inevitable stagger joints between successive courses.
- E. Do not install siding less than 6 inches from surface of ground nor closer than 1 inch to roofs, patios, porches, and other surfaces where water may collect.
- F. Exterior Soffit Vents: Install according to manufacturer's written instructions and in locations shown on the drawings. Provide vent area specified.
- G. After installation, seal all joints except lap joints of lap siding. Seal around all penetrations. Paint all exposed cut edges.
- H. Finish Painting: Specified in Section 09 9000.

### **3.4 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

**END OF SECTION**