

CertainTeed
WeatherBoards™
Fiber Cement Siding

SECTION 07466

FIBER CEMENT SIDING

Display hidden notes to specifier by using "Tools"/"Options"/"View"/"Hidden Text".

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Siding panels.
- B. Soffit panels.
- C. Accessories and trim.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Framing and Sheathing.
- B. Section 07900 - Joint Sealers.
- C. Section 09900 - Paints and Coatings: Field painting.

1.3 REFERENCES

- A. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants; 2011.
- B. ASTM C 1185 - Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards; 2008.
- C. ASTM C 1186 - Standard Specification for Flat Non-Asbestos Fiber Cement Sheets; 2008.
- D. ASTM E 72 - Standard Test Methods of Conducting Strength Tests of Panels for Building Construction; 2010.

- E. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2011.
- F. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials; 2010.
- G. ASTM E 136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2011.
- H. ASTM E 330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2002
- I. ICC-ES AC 90 – Acceptance Criteria for Fiber Cement Used as Exterior Wall Siding
- J. ICC-ES AC 38 – Acceptance Criteria for Water Resistive Barriers

1.4 SUBMITTALS

- A. Make submittals under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods, including nailing patterns.
 - 4. Applicable model code authority evaluation report (ICC, CCMC, etc.)
- A. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
 - 1. List of proposed materials with recycled content. Indicate post-consumer recycled content and pre-consumer recycled content for each product having recycled content.
 - 2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.
 - 3. List of proposed materials with rapidly renewing content. Indicate rapidly renewing content percentage for each product having rapidly renewing content.
- B. Siding manufacturer's requirements for water resistive barrier, primer, paint, etc., to be installed by others.
- C. Maintenance and periodic inspection recommendations.
- D. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Provide installer with not less than three years of experience with products similar to those specified.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products off the ground, on a flat surface, and under a roof or separate waterproof covering.

1.7 WARRANTY

- A. Provide WeatherBoards 50 year limited siding warranty.
- B. CertainTeed ColorMax Finish – provide 15 year limited paint warranty
- C. CertainTeed Stain Finish – provide 15 year limited coating warranty
- D. Register manufacturer's warranty, made out in Owner's name, with copy to Owner.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. CertainTeed Corporation, Siding Products Group, P.O. Box 860, Valley Forge, Pennsylvania 19482. ASD. Tel: (800) 233-8990 (professional) or (800) 782-8777 (consumer). www.certainteed.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 PANELS

- A. Fiber Cement Board Panels - General: CertainTeed Fiber Cement Board Panels consist of cement, fly ash, silica and cellulose fiber formed under high pressure into boards with integral surface texture; complying with ASTM C 1186 Type A Grade II; machined edges; for nail attachment.
 - 1. Surface Burning Characteristics: Flame spread index of 0, smoke developed index of 0, maximum; when tested in accordance with ASTM E 84.
 - 2. Combustibility: Noncombustible, when tested in accordance with ASTM E 136, ULC S135 and ULC S114.
 - 3. Flexural Strength: At least 1450 psi (10 MPa) when in equilibrium condition, and at least 1015 psi (7 MPa) when in wet condition, tested in accordance with ASTM C 1185.
 - 4. Freeze Thaw Resistance: At least 80 percent flexural strength retained, when tested in accordance with ASTM C 1185.
 - 5. Water Tightness: No water droplets on underside, when tested in accordance with ASTM C 1185.
- B. Horizontal Siding: CertainTeed WeatherBoards Lap Siding.
 - 1. Thickness: 5/16 inch (7.9 mm), plus or minus .04 inch (1 mm).
 - 2. Length: 12 feet (3657 mm), plus 0, minus 1/8 inch (3 mm).
 - 3. Style: Smooth lap siding.
 - a. Width: 5-1/4 inches (133 mm) wide.
 - b. Width: 6-1/4 inches (159 mm) wide.
 - c. Width: 7-1/4 inches (185 mm) wide.
 - d. Width: 8-1/4 inches (210 mm) wide.
 - e. Width: 9-1/4 inches (235 mm) wide.
 - f. Width: 12 inches (305 mm) wide.
 - 4. Style: Smooth beaded lap siding.
 - a. Width: 7-1/2 inches (190 mm) wide.
 - 5. Style: Textured beaded lap siding.

- a. Width: 7-1/2 inches (190 mm) wide.
- 6. Style: Textured Dutchlap siding.
 - a. Width: 8-1/4 inches (210 mm) wide.
- 7. Style: Cedar lap siding.
 - a. Width: 5-1/4 inches (133 mm) wide.
 - b. Width: 6-1/4 inches (159 mm) wide.
 - c. Width: 7-1/4 inches (185 mm) wide.
 - d. Width: 8-1/4 inches (210 mm) wide.
 - e. Width: 9-1/4 inches (235 mm) wide.
 - f. Width: 12 inches (305 mm) wide.
- 8. Sealant/Primer: FiberTect Sealant/Primer.
- 9. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
- 10. Factory Finish: Factory applied ColorMax Finishing System by CertainTeed with 100 percent acrylic solid color as follows:
 - a. Vanilla White.
 - b. Linen.
 - c. Silverplate.
 - d. Antique White.
 - e. Butter.
 - f. Merino Tan.
 - g. Wicker.
 - h. Heritage Clay.
 - i. Heather.
 - j. Nantucket Gray.
 - k. Olive.
 - l. Pewter.
 - m. Desert Gold.
 - n. Coastal Blue.
 - o. Autumn Red.
 - p. Newport Taupe.
- 11. Factory Stain Finish: Factory applied ColorMax Finishing System by CertainTeed with Stain as follows:
 - a. Redwood.
 - b. Mahogany.
 - c. Maple.
 - d. Cedar.
 - e. Emerald.
 - f. Slate.

- C. Simulated Shingle Siding: CertainTeed WeatherBoards Shapes.
 - 1. Thickness: 7/16 inch (11 mm), plus or minus .04 inch (1 mm).
 - 2. Style: Perfection shingle, grooved, 7 inches (178 mm) exposure, 8-1/4 inches (210 mm) wide by 12 feet (3657 mm), plus 0, minus 1/8 inch (3 mm).
 - 3. Style: Random square straight edge, cut between shingles, 5 inches (127 mm) exposure, 11-3/4 inches (298 mm) wide by 48 inches (1219 mm) long.
 - 4. Style: Random square straight edge, cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
 - 5. Style: Random square staggered edge, cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
 - 6. Style: Half-rounds full cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.
 - 7. Style: Octagons full cut between shingles, 7 inches (178 mm) exposure, 16 inches (406 mm) wide by 48 inches (1219 mm) long.

8. Style: Individual shakes bundles, 6-1/4 inches (159 mm) wide by 18 inches (457 mm) long, 8-1/4 inches (210 mm) wide by 18 inches (457 mm) long, 12" inches (305 mm) wide by 18 inches (457 mm) long
 9. Sealant/Primer: FiberTect Sealant/Primer.
 10. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
 11. Factory Finish: Factory applied ColorMax Finishing System by CertainTeed with 100 percent acrylic solid color as follows:
 - a. Vanilla White.
 - b. Linen.
 - c. Silverplate.
 - d. Antique White.
 - e. Butter.
 - f. Merino Tan.
 - g. Wicker.
 - h. Heritage Clay.
 - i. Heather.
 - j. Nantucket Gray.
 - k. Olive.
 - l. Pewter.
 - m. Desert Gold.
 - n. Coastal Blue.
 - o. Autumn Red.
 - p. Newport Taupe.
 12. Factory Stain Finish: Factory applied ColorMax Finishing System by CertainTeed with Stain as follows:
 - a. Redwood.
 - b. Mahogany.
 - c. Maple.
 - d. Cedar.
 - e. Emerald.
 - f. Slate.
- D. Vertical Siding: CertainTeed WeatherBoards Vertical Siding.
1. Thickness: 5/16 inch (7.9 mm), plus or minus .04 inch (1 mm).
 2. Size: 48 by 96 inches (1220 by 2440 mm).
 3. Size: 48 by 108 inches (1220 by 2743 mm).
 4. Size: 48 by 120 inches (1220 by 3048 mm).
 5. Style: Smooth panel.
 6. Style: Stucco texture panel.
 7. Style: Cedar panel, no grooves.
 8. Style: Cedar panel, 3/8 inch (9.5 mm) wide grooves at 8 inches (200 mm) on center.
 9. Sealant/Primer: FiberTect Sealant/Primer.
 10. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
 11. Factory Finish: Factory applied ColorMax Finishing System by CertainTeed with 100 percent acrylic solid color as follows:
 - a. Vanilla White.
 - b. Linen.
 - c. Silverplate.
 - d. Antique White.
 - e. Butter.
 - f. Merino Tan.
 - g. Wicker.
 - h. Heritage Clay.

- i. Heather.
 - j. Nantucket Gray.
 - k. Olive.
 - l. Pewter.
 - m. Desert Gold.
 - n. Coastal Blue.
 - o. Autumn Red.
 - p. Newport Taupe.
12. Factory Stain Finish: Factory applied ColorMax Finishing System by CertainTeed with Stain as follows:
- a. Redwood.
 - b. Mahogany.
 - c. Maple.
 - d. Cedar.
 - e. Emerald.
 - f. Slate.
- E. Soffit: CertainTeed WeatherBoards Soffit, ventilated and non-ventilated.
- 1. Thickness: 1/4 inch (6.35 mm), plus or minus 1/32 inch (0.8 mm).
 - 2. Style: Smooth texture, 12 inches (305 mm) wide.
 - 3. Style: Smooth texture, 16 inches (406 mm) wide.
 - 4. Style: Smooth texture, 24 inches (610 mm) wide.
 - 5. Style: Cedar texture, 12 inches (305 mm) wide.
 - 6. Style: Cedar texture, 16 inches (406 mm) wide.
 - 7. Style: Cedar texture, 24 inches (610 mm) wide.
 - 8. Ventilated soffit.
 - 9. Non-ventilated soffit.
 - 10. Combination of Ventilated and Non-ventilated as indicated on the Drawings.
 - 11. Sealant/Primer: FiberTect Sealant/Primer.
 - 12. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
 - 13. Factory Finish: Factory applied ColorMax Finishing System by CertainTeed with 100 percent acrylic solid color as follows:
 - a. Vanilla White.
 - b. Linen.
 - c. Silverplate.
 - d. Antique White.
 - e. Butter.
 - f. Merino Tan.
 - g. Wicker.
 - h. Heritage Clay.
 - i. Heather.
 - j. Nantucket Gray.
 - k. Olive.
 - l. Pewter.
 - m. Desert Gold.
 - n. Coastal Blue.
 - o. Autumn Red.
 - p. Newport Taupe.
 - 14. Factory Stain Finish: Factory applied ColorMax Finishing System by CertainTeed with Stain as follows:
 - a. Redwood.
 - b. Mahogany.
 - c. Maple.
 - d. Cedar.

- e. Emerald.
 - f. Slate.
- F. Soffit/Porch Panel: CertainTeed FiberCement Soffit/Porch Panel.
- 1. Thickness: 1/4 inch (6 mm), (6.35 mm, plus or minus 0.8 mm).
 - 2. Width: 48 inches (1220 mm).
 - 3. Length: 8 feet (2440 mm), plus 0, minus 1/8 inch (3.17 mm).
 - 4. Style: Smooth panel.
 - 5. Style: Cedar texture panel.
 - 6. Sealant/Primer: FiberTect Sealant/Primer.
 - 7. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
 - 8. Factory Finish: Factory applied ColorMax Finishing System by CertainTeed with 100 percent acrylic solid color as follows:
 - a. Vanilla White.
 - b. Linen.
 - c. Silverplate.
 - d. Antique White.
 - e. Butter.
 - f. Merino Tan.
 - g. Wicker.
 - h. Heritage Clay.
 - i. Heather.
 - j. Nantucket Gray.
 - k. Olive.
 - l. Pewter.
 - m. Desert Gold.
 - n. Coastal Blue.
 - o. Autumn Red.
 - p. Newport Taupe.
 - 9. Factory Stain Finish: Factory applied ColorMax Finishing System by CertainTeed with Stain as follows:
 - a. Redwood.
 - b. Mahogany.
 - c. Maple.
 - d. Cedar.
 - e. Emerald.
 - f. Slate.

2.3 ACCESSORIES

- A. Trim: CertainTeed WeatherBoards Trim
- 1. Size:
 - a. Thickness 7/16 inch (11 mm) plus or minus (1 mm).
 - b. Thickness 3/4 inch (19 mm) plus or minus (1mm)
 - c. Thickness 1 inch (25 mm) plus or minus (1mm)
 - d. Width:
 - 1) 1-3/4 inch (44 mm).
 - 2) 2-1/2 inch (57 mm).
 - 3) 3-1/2 inch (89 mm).
 - 4) 4-1/2 inch (114 mm).
 - 5) 5-1/2 inch (140 mm).
 - 6) 7-1/4 inch (185 mm).
 - 7) 9-1/4 inch (235 mm).
 - 8) 11-1/4 inch (286 mm).

- e. Length: 12 feet (3.657 m) plus or minus 1/8 inch (3.17 mm).
- f.
- 2. Sealant/Primer: FiberTect Sealant/Primer.
- B. Trim: PVC trim, 1 inch (25 mm) nominal thickness
- C.
- D. Trim: Western red cedar lumber, without knotholes, checks, or cracks; 1 inch (25 mm) nominal thickness.
- E.
- F. Trim: Pressure preservative treated southern pine, without knotholes, checks, or cracks, No.1 grade or better; 1 inch (25 mm) nominal thickness.
- G. Provide the following trim:
 - 1. Starter strip for lap siding.
 - 2. Outside corners, butted to siding.
 - 3. Outside corners, overlapping siding.
 - 4. Fascia board.
 - 5. _____.
- H. Sealant: Paintable, 100 percent acrylic latex caulk complying with ASTM C 920.
- I. Sheet Metal Flashing: Minimum 26 gauge hot-dipped galvanized steel sheet, or coated aluminum.
- J. Nails: Length as required to penetrate minimum 1-1/4 inch (32mm) into solid backing; hot-dipped galvanized or stainless steel.
- K. Water resistive barrier: Kraft or bituminous paper complying with ASTM D226; or polymeric-based barrier or materials complying with ICC-ES AC-38.
- L. Field Finish Paint: 100 percent acrylic latex as specified in Section 09900.
- M. Touch Up Kit: Provide CertainTeed Color Max touch-up kit for each color provided.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Prior to commencing installation, verify governing dimensions of building and condition of substrate.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Examine, clean, and repair as necessary any substrate conditions that would be detrimental to proper installation.
- B. Do not begin installation until unacceptable conditions have been corrected.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and as indicated on drawings.
 - 1. Read warranty and comply with all terms necessary to maintain warranty coverage.
 - 2. Install in accordance with conditions stated in model code evaluation report applicable to location of project.
 - 3. Use trim details indicated on drawings.
 - 4. Touch up all field cut edges before installing.
 - 5. Pre-drill nail holes if necessary to prevent breakage.
- B. Prior to installation of siding and trim, install water resistive barrier and flashings as required by code to provide a weather resistant substrate.
- C. Over Studs without Sheathing (where permitted by code): Install siding over studs fastening into stud locations.
- D. Over Structural Wood and Wood-Composite Sheathing: Fasten siding through sheathing into studs, or into the sheathing as permitted by the manufacturer's installation instructions.
- E. Over Foam or Gypsum Based Sheathing: Read and comply with sheathing manufacturer's recommendations.
 - 1. For sheathing of 1 inch (25 mm) thickness or less, fasten through sheathing into studs using correspondingly longer fasteners.
- F. Over Masonry Walls: Install furring strips of adequate thickness to accept full length of fasteners and spaced at 16 inches (406 mm) on center.
- G. Over Steel Studs: Minimum 20 gauge steel, 3 5/8" (92 mm) C-studs. Use minimum 1-5/8" (41 mm) long, #8-18 x 3/8" HD self-tapping, corrosion-resistant ribbed bugle head screws designed for use with fiber cement. Attach siding at each stud insuring that at least 3 screw threads penetrate the studs.
- H. Diagonal Siding: Follow manufacturer's instructions.
- I. Allow space between ends of siding panels that butt against trim or dissimilar materials for thermal movement; seal joint between panel and trim with exterior grade sealant.
- J. Butt Joints in Horizontal Siding: Avoid butt joints in lap siding where possible ; where joints are inevitable, stagger joints between successive courses. Follow manufacturer's installation instructions for treatment of butt joints.
- K. Joints in Vertical Siding: Install Z-flashing in horizontal joints between successive courses of vertical siding.
- L. Furred Installation: Leave space at top and bottom open; top may be behind soffit; at bottom install insect screen over opening by wrapping a strip of screen over bottom ends of vertical furring strips.
- M. Do not install siding less than 6 inches (150 mm) from surface of ground nor closer than 1 inch (25 mm) to roofs, patios, porches, and other surfaces where water may collect.

- N. After installation, seal joints in accordance with manufacturer's installation instructions. Seal around all penetrations. Paint all exposed cut edges.
- O. Finish Painting: Specified in Section 09900.
- P. Finish Painting: Within 24 months after installation, paint siding and trim with one coat finish paint.
- Q. Finish Painting: Within 24 months after installation, paint siding and trim with one coat primer and two coats finish paint.

3.4 CLEANING

- A. At completion of work, remove debris caused by siding installation from project site.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION