

# ICON™

## Composite Siding

### SECTION 07466

#### Polyurethane Composite Siding

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

A. Siding panels

##### 1.2 REFERENCES – Insert

- A. ICC-ES AC389 – Acceptance Criteria for Composite Siding Containing Inorganic Microspheres and Proprietary Resins, Used as an Exterior Wall Cladding
- B. ICC-ES AC92 – Acceptance Criteria for Polymer-Based and Polymer-Modified Exterior and Interior Wall Cladding
- C. ASTM D6109 – Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastic Lumber and Related Products
- D. ASTM D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics
- E. ASTM D6341 – Standard Test Method for Determination of the Linear Coefficient of Thermal Expansion of Plastic Lumber and Plastic Lumber Shapes Between -30 and 140°F
- F. ASTM D1037 – Standard Test Method for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials
- G. ASTM C1185 – Standard Test Method for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles and Clapboards
- H. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials
- I. ASTM B117 – Standard Practice for Operating Salt Fog Spray (Fog) Apparatus
- J. AWP A E1 - Laboratory Methods for Evaluating the Termite Resistance of Wood-based Materials
- K. ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
- L. E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure
- M. G155 – Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

##### 1.3 SUBMITTALS

- A. Make submittals under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on 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, CNBC, etc.)
- A. Siding manufacturer's requirements for water resistive barrier, primer, paint, etc., to be installed by others.
  - C. Maintenance and periodic inspection recommendations.
- 1.4 DELIVERY, STORAGE, AND HANDLING
- A. Refer to manufacturer's installation instructions for storage and handling.
- 1.5 WARRANTY
- A. Provide with a 30 year limited lifetime warranty.
  - B. Register manufacturer's warranty, made out in Owner's name, with copy to Owner.

## PART 2 PRODUCT

### 2.1 MANUFACTURER

- A. CertainTeed Corporation, Siding Products Group, 20 Moores Road, Malvern, Pennsylvania 19355. ASD. Tel: (800) 233-8990 (professional) or (800) 782-8777 (consumer). [www.certainteed.com](http://www.certainteed.com).

### 2.2 PANELS

- A. ICON Composite Siding - General: CertainTeed ICON is primer-coated filled polyurethane composite with integral surface texture
- B. ICON Composite Siding - Performance Characteristics
  1. Surface Burning Characteristics: Flame Spread Classification: C, when tested in accordance with ASTM E 84.
  2. Transverse Load Resistance (Wind-load): Allowable Design Pressure = 46.7psf, per Section 4.7 of AC92, when tested in accordance with ASTM E330.
  3. Water Infiltration - Resistance of water penetration into the wall assembly: Passed, when tested in accordance with E331.
  4. Water Absorption: Tested in accordance with C1185.
  5. Freeze / Thaw Resistance: No cracking, checking, crazing, erosion, delamination or other distress, when tested in accordance with Section 3.3 of AC389.
  6. Accelerated Weathering: No cracking, checking, crazing, erosion, delamination or other distress, when tested in accordance with Section 4.3 of AC389 (G155).
  7. Termite Resistance: Demonstrated resistance to termite attack equivalent to that of preservative-treated or the heartwood of naturally durable wood, when tested in accordance with AWP A E1.
  8. Salt Spray Resistance: No cracking, checking, crazing, erosion, delamination or other distress, when tested in accordance with Section 4.5 of AC92, (B117).
  9. Flexural Strength: Tested in accordance with Section 3.1.1 of AC389 (D6109).
  10. Density: Tested in accordance with Section 3.1.2 of AC389 (D1622).

11. Coefficient of Linear Thermal Expansion: Testing in accordance with Section 3.1.1 of AC389 (D6341).
  12. Impact Resistance: Tested in accordance with Section 3.1.4 of AC389 (D1037).
  13. Nail Pull-Through Resistance: Tested in accordance with Section 4.2 of AC389 (D1037).
- C. Horizontal Siding: CertainTeed ICON Panels.
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) and 16 feet (4,877 mm)
  3. Style: Wood grain texture lap siding.
    - a. Width: 8-1/4 inches (210 mm) wide.
  4. Sealant/Primer: Grey exterior grade primer.
  5. Field Finish Paint: High grade non-oil based exterior paint as specified in Section 09900.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Prior to commencing installation, verify governing dimensions of building and condition of substrate.
- B. 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 installation instructions
  1. Read warranty and comply with all terms necessary to maintain warranty coverage.
- B. Over Structural Wood and Wood-Composite Sheathing: Fasten siding through sheathing into studs.
- C. 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.
- D. Do not install siding less than 2 inches (51 mm) from surface of ground nor closer than 2 inch (51 mm) to roofs, patios, porches, and other surfaces where water may collect.
- E. Finish Painting: Paint siding within 6 months after installation.

#### 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