

SECTION 07 46 33  
LAMINATED FILM PVC SIDING

**Part 1 General**

**1.1 SECTION INCLUDES**

- A. This Section includes requirements for supply of rigid polyvinylchloride (PVC) interlocking siding boards with laminated PVC film on exposed surfaces and its installation on exterior walls [and [beams] [and] [columns]].

**1.2 RELATED REQUIREMENTS**

- A. Section [07 25 00 - Weather Barriers].
- B. Section [07 60 00 – Flashing and Sheet Metal].
- C. Section [07 92 00 - Joint Sealants].

**1.3 REFERENCES**

- A. ICC-ES Evaluation Report.
- B. ASTM D3679-17, Standard Specification for Rigid PVC Siding.
- C. ASTM E119 -22, Standard Test Methods for Fire Tests of Building Construction and Materials.
- D. ASTM E330/E330M-14(2021), Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- E. ASTM G154-16, Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.
- F. ASTM G155-21, Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials.
- G. ASTM D635-18, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- H. NFPA 285-2019, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.
- I. NFPA 268-2017, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
- J. American Architectural Manufacturers Association (AAMA):
  - .1 AAMA 303-19, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles.

- .2 AAMA 307-16, Voluntary Specification for Laminates Intended for Use on AAMA Certified Profiles.
- .3 AAMA 664-21, Voluntary Specification for In-Process Quality Control Requirements for Applicators of Synthetic Interior and Exterior Laminates.
- K. Miami-Dade County, Florida, Checklist #0445
- L. Miami Testing Application Standards (TAS) 202 and TAS 203.
- M. Florida Department of Business & Professional Regulation (DBPR).
- N. California State Fire Marshall SFM Standard 12-7A-1

#### **1.4 COORDINATION**

- A. Coordinate work of this Section with installation of flashings to provide drainage to exterior.

#### **1.5 ACTION SUBMITTALS**

- A. ICC-ES Evaluation Report: Submit proof of manufacturer's current ICC-ES listing and number.
- B. Miami-Dade County Approved Product Listing: Submit proof of manufacturer's current listing and number.
- C. Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 - Submittal Procedures] [\_\_\_\_].
- D. Samples:
  - .1 Submit samples [in accordance with Section [01 33 00 - Submittal Procedures] [\_\_\_\_]].
  - .2 [Submit color samples for color/pattern selection]. Submit duplicate samples of actual siding material, full profile width x [8"] [\_\_\_\_] long, of specified color/pattern and profile.
  - .3 [Submit samples of all exposed accessories and trims].
- E. Installation Instructions: Submit manufacturer's printed installation instructions.
- F. Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.
- G. Sustainable Design Submittals: Submit required documentation in accordance with Project sustainable design requirements in Section [01 35 64 – LEED Requirements] [01 35 67 – Sustainability Certification Requirements] [\_\_\_\_].

#### **1.6 CLOSEOUT SUBMITTALS**

- A. Submit in accordance with Section [01 78 00 – Closeout Submittals] [\_\_\_\_].
- B. Maintenance Data: Submit manufacturer's printed instructions for cleaning and repair procedures. Include names and contact information of product manufacturer and installer.

- C. Warranty Documentation: Submit manufacturer's warranty.

### 1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Submit in accordance with Section [01 78 00 – Closeout Submittals] [\_\_\_\_].
- B. Supply:
  - .1 One manufacturer's touch-up pen for each color of siding material.
  - .2 [1%] [\_\_\_\_%] of installed boards in manufacturer's maximum standard board length.
  - .3 [One] [\_\_\_\_] of each accessory and trim shape in manufacturer's maximum standard length.
- C. Package materials with protective coverings and label.

### 1.8 QUALITY ASSURANCE

- A. Comply with AAMA 664-21.
- B. Certified by National Accreditation and Management Institute for quality assurance program that complies with ISO/IEC 17020 and Guide 53.
- C. Test Reports: Submit certified test reports showing product compliance with specified performance characteristics and physical properties.
- D. Installer Qualifications: Minimum [one] [three] [\_\_\_\_] year[s] experience installing specified products or similar products, on projects of similar size to this Project.
- E. Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.
- F. Mock-Up: In accordance with Section [01 40 90 – Quality Requirements] [\_\_\_\_].
  - .1 Construct a [\_\_\_\_] x [\_\_\_\_] mock-up of siding installation [not] forming part of the Work for Consultant's review.
  - .2 Include each accessory and trim type, [an [outside] [inside] corner] [an intersection with [adjacent material] [a door] [a window]].
  - .3 [Construct a mock-up of [beam] [and] [column] installation.]
  - .4 Approved mock-up establishes an acceptable standard for the Work.

### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's instructions.

### 1.10 SITE CONDITIONS

- A. Proceed with installation only when ambient temperature is above -4 F.

### 1.11 WARRANTY

- A. Provide the following manufacturer's limited warranty coverages:

- .1 That product will be free from initial manufacturing defects in material or workmanship and against warping, blistering, and peeling for 50 years from date of Substantial Completion, prorated.
- .2 Against unreasonable discoloration for 15 years from the date of Substantial Completion, non-prorated.

## Part 2 Products

### 2.1 MANUFACTURER

- A. ChamClad, 10235 – 184 St., Edmonton, Alberta, Canada, T5S 2J4. [chamclad.com](http://chamclad.com) Ph. 780-454-4430.
- B. [Substitutions will not be considered.] [Substitutions will be considered during bidding period as specified in Section [00 21 13 – Instructions to Bidders] [\_\_\_\_].] [Substitutions will be considered as specified in Section [01 25 00 – Substitution Procedures] [\_\_\_\_].]

### 2.2 SIDING MATERIALS

- A. PVC Extrusions: Engineered, rigid, PVC extrusions with 100% pre-consumer recycled content, to AAMA 303-19.
- B. Rigid, interlocking, PVC panels with hollow core profile and factory laminated PVC film, to ASTM D3679-17.
- C. Classic Board Profile: Nominally 6” wide x 1/2” thick.
- D. Shadowline Board Profile: [Nominally 6” wide x 1/2” thick with [6”] [3”] reveal.] [Nominally 12” wide x 1/2” thick with 2” reveal.]
- E. Board Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- F. Color/pattern: [Barn Board Grey] [Beach Wood Grey] [Black Sand] [Black Wood] [Barrel Oak] [Brown Oak] [Brushed Metallic] [Brushed Silver] [Canadian Pine] [Charred Black] [Cinnamon Walnut] [Smoke Grey] [Spanish Cedar] [Speckled Graphite] [Sun Bleached Oak] [Teak] [Bamboo] [Toffee] [Black Walnut] [California Redwood] [Chocolate Walnut] [Atlantic White] [Chai Cedar] [Desert Oak] [Golden Oak] [Brushed Titanium] [Honey] [Iron Glimmer White] [Modern Walnut] [Monument Oak] [Mountain Oak] [Mountain Pine] [Natural Oak] [Navy] [Pure White] [Toffee] [Tofino] [Dark Wood] [Harvest Walnut] [Brushed Metallic] [Crystal White] [Warm Autumn] [Pebble Brook] [Sand Dollar] [Grey Asphalt].
- G. Accessories and Trims: [PVC] [Aluminum] starter strip, aluminum/PVC two-piece J-trim, [aluminum/PVC two-piece outside corner] [aluminum H Mold] [PVC one piece J-trim] [PVC inside corner], matching finish to siding, pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- H. Furring: [ ] inch x [ ] inch pressure treated wood furring strips] [galvanized steel] [aluminum] [furring channels] [as indicated on Drawings].

- I. Fasteners: [galvanized] [stainless] steel.

### **2.3 [BEAM] [AND] [COLUMN] MATERIALS**

- A. Beam Cladding: Same material as siding, size and profile to suit beam substrate size(s). Color/pattern: [same as siding] [                    ].
- B. Faux Beams: Same material as siding, size as indicated on Drawings. Color/pattern: [same as siding] [                    ].
- C. Column Cladding: Same material as siding, size and profile to suit column substrate size(s), complete with column cap and base trim kit. Cap and base widths as indicated on Drawings. Color/pattern: [same as siding] [                    ].

### **2.4 PERFORMANCE CRITERIA**

- A. Material Characteristics: to ASTM D3679-17.
- B. Fire Propagation of Exterior Wall Assembly: meets NFPA 285-2019.
- C. Ignitability of Exterior Wall Assembly: meets NFPA 268-2017.
- D. Flammability: Category HB when tested to ASTM D635-18.
- E. Surface Burning Characteristics: Class A.
- F. Fire Test of Wall Assembly: to ASTM E119.
- G. Wind Load Testing: to ASTM E330/E330M-14(2021),
- H. Accelerated Weathering Resistance: Meets ASTM G155-21 and ASTM G154-16. Meets ASTM D3679-17 for weathering after 24 month exposure.
- I. PVC Film: to AAMA 307-16.
- J. Listed by ICC-ES.
- K. Meets Miami TAS 202 and TAS 203, and is Florida DBPR approved.
- L. Listed by Miami-Dade County as approved in accordance with Checklist #0445.
- M. Listed by California Department of Forestry & Fire Protection as approved exterior siding for use in wildland urban interface areas. Meets conditions of acceptance under SFM Standard 12-7A-1.11.

## **Part 3 Execution**

### **3.1 VERIFICATION OF CONDITIONS.**

- A. Verify that substrates are suitable for installation of the Work of this Section. Commencement of Work denotes acceptance of conditions.

### **3.2 SIDING INSTALLATION**

- A. Install furring [strips] [channels] to provide rainscreen.
- B. [Install Classic siding [horizontally] [vertically] [diagonally] [as indicated on Drawings] for [U-Channel] [V-Groove] appearance.]
- C. [Install Shadowline siding [horizontally] [vertically] [diagonally] [with mix and match of different profiles] [as indicated on Drawings].]
- D. Install siding, accessories, and trim in strict accordance with manufacturer's printed instructions.
- E. Scribe and cut as required to neatly fit abutting walls and adjacent surfaces, and to accommodate other materials penetrating through boards.
- F. Secure boards, accessories, and trim in place, rigid, plumb, and square.

### **3.3 [BEAM] [AND] [COLUMN] INSTALLATION**

- A. Install [[beam] [and] [column] cladding] [faux beams] in strict accordance with manufacturer's printed instructions.

### **3.4 ADJUSTING**

- A. Where minor surface damage has occurred, touch-up by methods recommended by manufacturer. Remove and replace damaged materials that cannot be satisfactorily repaired.

### **3.5 CLEANING**

- A. Upon completion of installation, remove surplus materials, rubbish, tools, and equipment, and clean as specified in Section 01 74 00 – Cleaning and Waste Management.
- B. Where necessary, remove dirt and other contaminants in accordance with manufacturer's cleaning instructions.

**END OF SECTION**