

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.

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 Poly(Vinyl Chloride) (PVC) Siding.
- C. NFPA 285-2019, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.
- D. NFPA 268-2017, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.
- E. AAMA 307-16 – Voluntary Specifications for Laminates Intended for Use on AAMA Certified Profiles.

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. Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 - Submittal Procedures] [____].
- C. 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].
- D. Installation Instructions: Submit manufacturer's printed installation instructions.
- E. Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.
- F. 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. Test Reports: Submit certified test reports showing product compliance with specified performance characteristics and physical properties.
- B. Installer Qualifications: Minimum [one] [three] [] year[s] experience installing specified products or similar products, on projects of similar size to this Project.
- C. Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.
- D. 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 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 and prorated 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.
 - .2 Against unreasonable discolouration for 15 years from the date of Substantial Completion.

Part 2 Products

2.1 MANUFACTURER

- A. ChamClad by Chameleon Wrapping & Lamination Ltd., 10235 – 184 St., Edmonton, Alberta, Canada, T5S 2J4. 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 MATERIALS

- A. Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film, to ASTM D3679-17, with ICC-ES listing number.
- B. Board Profile: [Nominally 6" wide x 1/2" thick] [Nominally 12" wide x 3/8" thick with V-Joints for 6" joint appearance.] [Nominally 12" wide x 3/8" thick, with flush joints.
- C. Board Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- D. Color/pattern: [Barn Board Grey] [Beach Wood Grey] [Black Black] [Black Wood] [Bright White] [Brown Oak] [Brushed Metallic] [Brushed Silver] [Cherry] [Clay] [Colonial Oak] [Colonial Walnut] [Grey Oak] [Light Oak] [Mocca] [Smoke Grey] [Spanish Cedar] [Speckled Graphite] [Sun Bleached Oak] [Teak] [Bamboo] [Black Cherry] [Black Walnut] [California Redwood] [Chocolate Walnut] [Cloud Grey] [Coffee

Bean] [Desert Oak] [Golden Oak] [Gun Metal Grey] [Honey] [Iron Glimmer White] [Modern Walnut] [Monument Oak] [Mountain Oak] [Mountain Pine] [Natural Oak] [Navy] [Pure White] [Toffee] [Charred Wood] [Dark Wood] [Harvest Walnut] [Black Black].

- E. Accessories and Trims: [PVC] [Aluminum] starter strip, aluminum/PVC two-piece finishing trim, [aluminum/PVC two-piece outside corner] [PVC H Mold] [PVC J-trim] [PVC inside corner], [matching color/pattern to siding] [contrasting color for finishing trim as indicated on Drawings in [] color/pattern], pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- F. Furring: [] inch x [] inch pressure treated wood furring strips] [galvanized steel] [aluminum] [furring channels] [as indicated on Drawings].
- G. Fasteners: [galvanized] [stainless] steel.

2.3 PERFORMANCE CRITERIA

- A. Fire Propagation of Exterior Wall Assembly: meets NFPA 285-2019.
- B. Ignitability of Exterior Wall Assembly: meets NFPA 268-2017.
- C. Material Characteristics: meets ASTM D3679-17 as follows:
 - .1 Heat shrinkage: -0.1%.
 - .2 Impact Resistance: no failures at 7.1 J.
 - .3 Surface Distortion: free of bulges, waves, or ripples after exposure.
 - .4 Thermal Expansion: 5.90×10^{-5} .
 - .5 Wind Load Resistance: 76.7 lbf/ft² to ASTM D3679 and 2180 Pa to ASTM E330-14.
- D. Accelerated Weathering Resistance: No deleterious effects when tested to ASTM G154-16. Meets AAMA 307-16 for UV exposure.

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 INSTALLATION

- A. Install furring [strips] [channels] to provide rainscreen.
- B. [Install 6" siding [horizontally] [vertically] [as indicated on Drawings] for [U-Channel] [V-Groove] appearance.]
- C. [Install 12" siding [horizontally] [vertically] [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 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.

3.4 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