

SECTION 07 42 93
LAMINATED FILM PVC SOFFITS

Part 1 General

1.1 SECTION INCLUDES

- A. This Section includes requirements for supply of rigid, hollow core, polyvinylchloride (PVC) interlocking panels with laminated PVC film on exposed surfaces and their installation on exterior soffits or ceilings.

1.2 REFERENCES

- A. ICC-ES Evaluation Report.
- B. AAMA 303-18, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles.
- C. AAMA 307-16 – Voluntary Specifications for Laminates Intended for Use on AAMA Certified Profiles.

1.3 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 soffit 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] [____].

1.4 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.

1.5 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 soffit material.
 - .2 [1%] [__%] of installed panels in manufacturer's maximum standard panel length.
 - .3 [One] [____] of each accessory and trim shape in manufacturer's maximum standard length.
- C. Package materials with protective coverings and label.

1.6 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 soffit installation forming part of the Work for Consultant's review.
 - .2 Include each accessory and trim type.
 - .3 Approved mock-up establishes an acceptable standard for the Work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's instructions.

1.8 SITE CONDITIONS

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

1.9 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. Non-Vented Panels:
- .1 Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film, to ASTM D3679-17, with ICC-ES listing number, and as follows:
 - .1 Hollow core, rigid, extruded PVC interlocking panels with factory laminated PVC film.
 - .2 Profile: Nominally [4"] [6"] [12"] wide x 3/8" thick.
- B. Vented Panels:
- .1 Single wall, rigid, extruded PVC interlocking panels with factory laminated PVC film and vent holes.
 - .2 Profile: Nominally [4"] [6"] wide, 0.037" wall thickness.
- C. Panel 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: J trim, finishing trim, F trim, H mold, aluminum/PVC outside corner, of matching material to soffit panels, with pre-punched nailing strip, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- F. Fasteners: [galvanized] [stainless] steel.

2.3 PERFORMANCE CRITERIA

- A. Rigid PVC Extrusions: to AAMA 303-18.
- B. 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 lb/ft²
- C. 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 soffit panels [parallel to walls] [perpendicular to walls] [as indicated on Drawings] [for [U-Channel] [V-Groove] appearance].
- B. Install vented panels by alternating vented and non-vented panels.
- C. Install soffit, accessories, and trim in strict accordance with manufacturer's printed instructions.
- D. Scribe and cut as required to neatly fit abutting walls and adjacent surfaces, and to accommodate other materials penetrating through panels.
- E. Secure panels, accessories, and trim in place, rigid, level, 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.

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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