

1. General

1.1. SECTION INCLUDES

1. 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

1. American Architectural Manufacturers Association (AAMA):
 1. AAMA 303-18, Voluntary Specification for Rigid Polyvinyl Chloride (PVC) Exterior Profiles.
 2. AAMA 307-16, Voluntary Specification for Laminates Intended for Use on AAMA Certified Profiles.
2. German Institute for Standardization (DIN):
 1. DIN EN ISO 4593, Plastics - Film and Sheeting - Determination of Thickness by Mechanical Scanning.
 2. DIN EN 513, Plastics – PVC based profiles – Determination of the Resistance to Artificial Weathering.
 3. DIN EN 20105-A02, Textiles – Tests for colour fastness – Part A02: Grey Scale for Assessing Change in Colour.

1.3. ACTION SUBMITTALS

1. Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 Submittal Procedures] [____].
2. Samples:
 1. Submit samples [in accordance with Section [01 33 00 Submittal Procedures] [____]].
 2. [Submit colour samples for colour/pattern selection]. Submit duplicate samples of actual soffit material, full profile width x [200] [____] mm long, of specified colour/pattern and profile.
 3. [Submit samples of all exposed accessories and trims].
3. Installation Instructions: Submit manufacturer's printed installation instructions.
4. Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.
5. 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

1. Submit in accordance with Section [01 78 00 – Closeout Submittals] [____].
2. Maintenance Data: Submit manufacturer's printed instructions for cleaning and repair procedures. Include names and contact information of Product manufacturer and installer.
3. Warranty Documentation: Submit manufacturer's warranty.

1.5. MAINTENANCE MATERIAL SUBMITTALS

1. Submit in accordance with Section [01 78 00 – Closeout Submittals] [____].

2. Supply:
 1. One manufacturer's touch-up pen for each colour 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.
3. Package materials with protective coverings and label.

1.6. QUALITY ASSURANCE

1. Test Reports: Submit certified test reports showing Product compliance with specified performance characteristics and physical properties.
2. Installer Qualifications: Minimum [one] [three] [___] year[s] experience installing specified Products or similar products, on projects of similar size to this Project.
3. Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.
4. Mock-Up: In accordance with Section [01 40 90 – Quality Requirements] [___].
 1. Construct a [___] mm x [___] mm 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

1. Comply with manufacturer's instructions.

1.8. SITE CONDITIONS

1. Proceed with installation only when ambient temperature is above -20 C.

1.9. WARRANTY

1. Provide manufacturer's 25 year limited warranty that Product is free from manufacturing defects and against warping, discolouring, blistering, or peeling.

2. Products

2.1. MANUFACTURER

1. ChamClad by Chameleon Wrapping & Lamination Ltd., 10235 – 184 St., Edmonton, AB, T5S 2J4. chamclad.com Ph. 780-454-4430.
2. [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

1. Non-Vented Panels:
 1. Hollow core, rigid, extruded PVC interlocking panels with factory laminated PVC film.

2. Profile: Nominally [100 mm] [150 mm] [300 mm] wide x 9.5 mm thick, 0.94 mm outer wall thickness, 0.51 mm inner wall thickness.
2. Vented Panels:
 1. Single wall, rigid, extruded PVC interlocking panels with factory laminated PVC film and vent holes.
 2. Profile: Nominally [100 mm] [150 mm] wide, 0.94 mm wall thickness.
3. Panel Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
4. Colour/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] [Matte Braun] [Mocca] [Slate Grey] [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].
5. Accessories and Trims: J trim and other trims of matching material to soffit panels, with prepunched nailing strip, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
6. Fasteners: [galvanized] [stainless] steel.

2.3. PERFORMANCE CRITERIA

1. Rigid PVC Extrusions: to AAMA 303-18.
2. PVC Film: to AAMA 307-16 and as follows:
 1. Thickness: 160 to 195 micrometres when tested to DIN EN ISO 4593.
 2. Weathering, Colour Change: \leq grey scale 3 when tested to DIN EN 513.
 3. Weathering, Visual Assessment: No stains, bubbles, streaks, cracks, flake off of polyacrylate protective layer, or peel-off of base foil when tested to DIN EN 20105-A02.
 4. Chemical Resistance to Muriatic Acid and Mortar: No blistering or visible change when tested to AAMA 307-16.
 5. Detergent Resistance: No film adhesion loss or visible change when tested to AAMA 307-16.
 6. Sealant Compatibility: No delamination, staining, lifting, discolouration, or adhesion loss when tested to AAMA 307-16.

3. Execution

3.1. VERIFICATION OF CONDITIONS

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

3.2. INSTALLATION

1. Install soffit panels [parallel to walls] [perpendicular to walls] [as indicated on Drawings] [for [U-Channel] [V-Groove] appearance].
2. Install vented panels by alternating vented and non-vented panels.

3. Install soffit, accessories, and trim in strict accordance with manufacturer's printed instructions.
4. Scribe and cut as required to neatly fit abutting walls and adjacent surfaces, and to accommodate other materials penetrating through panels.
5. Secure panels, accessories, and trim in place, rigid, level, and square.

3.3. ADJUSTING

1. 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

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

END OF SECTION