

Part 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 [and [beams] [and] [columns]].

1.2 REFERENCES

- .1 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.
- .2 CAN/CGSB-41.24-95, Rigid Vinyl Siding, Soffits and Facia.
- .3 CAN/ULC-S102-2018, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- .4 CAN/ULC-S102.2-2018, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.
- .5 ASTM D635-18, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- .6 ASTM G154- 16, Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.
- .7 ASTM G155-21, Standard Practice for Operating Xenon Arc Lamp Apparatus for Exposure of Materials.

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 Comply with AAMA 664-21.
- .2 Test Reports: Submit certified test reports showing Product compliance with specified performance characteristics and physical properties.
- .3 Installer Qualifications: Minimum [one] [three] [____] year[s] experience installing specified Products or similar products, on projects of similar size to this Project.
- .4 Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.
- .5 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 [Construct a mock-up of [beams] [and] [columns].]
 - .4 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 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, prorated.
 - .2 Against unreasonable discolouration for 15 years, non-prorated.

Part 2 Products

2.1 MANUFACTURER

- .1 ChamClad, 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 SOFFIT MATERIALS

- .1 PVC Extrusions: Engineered, rigid, PVC extrusions with 100% pre-consumer recycled content, to AAMA 303-19.
- .2 Solid Soffit Panels: Hollow core, rigid, interlocking, PVC panel with factory laminated PVC film, to CAN/CGSB-41.24-95, nominally [100 mm] [150 mm] [300 mm] wide x 10 mm thick.
- .3 Vented Soffit Panels: Single wall, interlocking PVC panel with factory laminated PVC film and vent holes, nominally [100 mm] [150 mm] wide x 10 mm thick.
- .4 Flexible Soffit Panels: Single wall, interlocking, PVC panel with factory laminated PVC film, nominally [100 mm] [150 mm] wide x 10 mm thick.
- .5 Shadowline Soffit Panels: Hollow core, rigid, interlocking PVC panel with factory laminated PVC film, nominally [150 mm wide x 13 mm thick with [150 mm] [75 mm] reveal] [300 mm wide x 13 mm thick with 50 mm reveal].
- .6 Quick Click Shadowline Soffit System: Hollow core, rigid, interlocking PVC panel with factory laminated PVC film, nominally 150 mm wide, [vented] [unvented] with aluminum mounting track.
- .7 Panel Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .8 Colour/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].

- .9 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], of matching material to soffit panels, with pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .10 Fasteners: [galvanized] [stainless] steel.

2.3 [BEAM] [AND] [COLUMN] MATERIALS

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

2.4 PERFORMANCE CRITERIA

- .1 Material Characteristics: to CAN/CGSB-41.24-95.
- .2 Accelerated Weathering Resistance: Meets ASTM G155-21 and ASTM G154-16.
- .3 Surface Burning Characteristics: Flame spread rating < 75 and smoke developed classification <450 when tested to CAN/ULC-S102-2018. Flame spread rating < 120 when tested to CAN/ULC-S102.2-2018.
- .4 Flammability: Category HB when tested to ASTM D635-18.
- .5 PVC Film: to AAMA 307-16.

Part 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 SOFFIT INSTALLATION

- .1 Install soffit panels [parallel to walls] [perpendicular to walls] [as indicated on Drawings] [for [U-Channel] [V-Groove] appearance].
- .2 Install vented soffit panels by alternating with solid soffit panels.
- .3 Install soffits, 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 [BEAM] [AND] [COLUMN] INSTALLATION

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

3.4 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.

3.5 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