

**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 interior 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.

**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 paneling 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 paneling 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 paneling 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 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](http://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 PANELING MATERIALS**

- .1 PVC Extrusions: Engineered, rigid, PVC extrusions with 100% pre-consumer recycled content, to AAMA 303-19.
- .2 Classic Ceiling Panels: Rigid, interlocking PVC panel with hollow core profile and factory laminated PVC film, to CAN/CGSB-41.24-95, nominally [100 mm] [150 mm] [300 mm] wide x 10 mm thick.
- .3 Flexible Ceiling Panels: Single wall, interlocking, PVC panel with factory laminated PVC film, nominally [100 mm] [150 mm] wide x 10 mm thick.
- .4 Shadowline Ceiling 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].
- .5 Panel Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .6 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] [Brushed Metallic] [Black Leather] [Classic Oak] [Italian Leather] [Ivory Stone] [Terra Cotta] [Vegas Stone] [Tiffany's] [Sorrento] [Black Pearl] [Crystal White] [Warm Autumn] [Pebble Brook] [Sand Dollar] [Grey Asphalt].
- .7 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 ceiling panels, with pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .8 Fasteners: [galvanized] [stainless] steel.

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

- .1 Beam Cladding: Same material as paneling, size and profile to suit beam substrate size(s). Color/pattern: [same as paneling] [ ].
- .2 Faux Beams: Same material as paneling, size as indicated on Drawings. Color/pattern: [same as paneling] [ ].
- .3 Column Cladding: Same material as paneling, 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 paneling] [ ].

## **2.4 PERFORMANCE CRITERIA**

- .1 Material Characteristics: to CAN/CGSB-41.24-95.
- .2 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.
- .3 Flammability: Category HB when tested to ASTM D635-18.
- .4 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 PANELING INSTALLATION**

- .1 Install ceiling panels [as indicated on Drawings] [for [U-Channel] [V-Groove] appearance].
- .2 Install ceiling panels, accessories, and trim in strict accordance with manufacturer's printed instructions.
- .3 Scribe and cut as required to neatly fit abutting walls, ceilings, and adjacent surfaces, and to accommodate other materials penetrating through panels.
- .4 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**