

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.

1.2 REFERENCES

- .1 American Architectural Manufacturers Association (AAMA):
 - .1 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.
- .3 CAN/ULC-S102-2018, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

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 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 paneling 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 WARRANTY

- .1 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.
 - .2 Against unreasonable discolouration for 15 years.

Part 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 Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film.
- .2 Panel Profiles: Nominally [100 mm] [150 mm] [300 mm] wide x 10 mm thick.
- .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] [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].
- .5 Accessories and Trims: finishing trim, [outside corner] J trim] [H trim] [crown molding] of matching material to ceiling panels, with pre-punched nailing strips, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .6 Fasteners: [galvanized] [stainless] steel.

2.3 PERFORMANCE CRITERIA

- .1 PVC Film: to AAMA 307-16 and as follows:
- .1 Thickness: 160 to 195 micrometres when tested to DIN EN ISO 4593.
- .2 Chemical Resistance to Muriatic Acid and Mortar: No blistering or visible change when tested to AAMA 307-16.
- .3 Detergent Resistance: No film adhesion loss or visible change when tested to AAMA 307-16.
- .2 Surface Burning Characteristics: Flame spread rating < 75 and smoke developed classification <450 when tested to CAN/ULC-S102-2018.

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 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 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