

SECTION 09 54 55  
LAMINATED FILM PVC INTERIOR CEILING PANELING**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 interior ceilings.

**1.2 REFERENCES**

- A. American Architectural Manufacturers Association (AAMA):
  - .1 AAMA 307-16, Voluntary Specification for Laminates Intended for Use on AAMA Certified Profiles.
- B. German Institute for Standardization (DIN):
  - .1 DIN EN ISO 4593, Plastics - Film and Sheeting - Determination of Thickness by Mechanical Scanning.

**1.3 ACTION SUBMITTALS**

- A. Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 - Submittal Procedures] [\_\_\_\_].
- B. 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 paneling material, full profile width x [8"] [\_\_\_\_]long, of specified color/pattern and profile.
  - .3 [Submit samples of all exposed accessories and trims].
- C. Installation Instructions: Submit manufacturer's printed installation instructions.
- D. Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.
- E. 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 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.
- 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 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**

- A. Comply with manufacturer's instructions.

## **1.8 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 discoloration 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](http://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. Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film.
- B. Panel Profiles: Nominally [4"] [6"] [12"] wide x 3/8" thick.
- 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: finishing trim, [crown molding] [J trim] [H trim] [F trim], matching color/pattern to ceiling paneling, pre-punched nailing strips, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- F. Fasteners: [galvanized] [stainless] steel.

**2.3 PERFORMANCE CRITERIA**

- A. 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.
  - .4 UV Exposure: Meets AAMA 307-16.

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

**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**