

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

1.2 REFERENCES

- A. ICC-ES Evaluation Report.
- B. 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.
- C. ASTM D3679-17, Standard Specification for Rigid PVC Siding.
- D. ASTM D635-18, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- E. ASTM E119-22, Standard Test Methods for Fire Tests of Building Construction and Materials.
- F. Miami Testing Application Standards (TAS) 202 and TAS 203.
- G. Florida Department of Business & Professional Regulation (DBPR).

1.3 ACTION SUBMITTALS

- A. ICC-ES Evaluation Report: Submit proof of manufacturer's current ICC-ES listing and number.
- B. Product data: Submit manufacturer's printed product literature, specifications, and data sheets in accordance with Section [01 33 00 - Submittal Procedures] [____].
- C. 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].
- D. Installation Instructions: Submit manufacturer's printed installation instructions.
- E. Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.
- F. 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. Comply with AAMA 664-21.
- B. Certified by National Accreditation and Management Institute for quality assurance program that complies with ISO/IEC 17020 and Guide 53.
- C. Test Reports: Submit certified test reports showing Product compliance with specified performance characteristics and physical properties.
- D. Installer Qualifications: Minimum [one] [three] [____] year[s] experience installing specified Products or similar products, on projects of similar size to this Project.
- E. Pre-Installation Meeting: Conduct pre-installation meeting to verify installation requirements, manufacturer's installation instructions, and manufacturer's warranty requirements.

- F. 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 [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

- A. Comply with manufacturer’s instructions.

1.8 WARRANTY

- A. 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 from date of Substantial Completion, prorated.
 - .2 Against unreasonable discolouration for 15 years from the date of Substantial Completion, non-prorated.

Part 2 Products

2.1 MANUFACTURER

- A. ChamClad, 10235 – 184 St., Edmonton, Alberta, Canada, T5S 2J4. 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 PANELING MATERIALS

- A. PVC Extrusions: Engineered, rigid, PVC extrusions with 100% pre-consumer recycled content, to AAMA 303-19.
- B. Classic Ceiling Panels: Rigid, interlocking, PVC panel with hollow core profile and factory laminated PVC film, to ASTM D3679-17, nominally [4”] [6”] [12”] wide x 3/8” thick.
- C. Flexible Ceiling Panels: Single wall, interlocking, PVC panel with factory laminated PVC film, nominally [4”] [6”] wide x 3/8” thick.
- D. Shadowline Ceiling Panels: Hollow core, rigid, interlocking, PVC panel with factory laminated PVC film, nominally [6” wide x 1/2” thick with [6”] [3”] reveal] [12” wide x 1/2” mm thick with 2” reveal].
- E. Panel Lengths: [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].

- F. 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].
- G. 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], matching finish to ceiling panels, pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- H. Fasteners: [galvanized] [stainless] steel.

2.3 [BEAM] [AND] [COLUMN] MATERIALS

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

- A. Material Characteristics: to ASTM D3679-17.
- B. Fire Endurance: to ASTM E119-22.
- C. Flammability: Category HB when tested to ASTM D635-18.
- D. Surface Burning Characteristics: Class A.
- E. PVC Film: to AAMA 307-16.
- F. Meets Miami TAS 202 and TAS 203, and is Florida DBPR approved.

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 PANELING 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 [BEAM] [AND] [COLUMN] INSTALLATION

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

3.4 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.

3.5 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