

**Part 1            General**

**1.1                SECTION INCLUDES**

- .1        This Section includes requirements for supply of rigid polyvinylchloride (PVC) interlocking siding boards with laminated PVC film on exposed surfaces and its installation on exterior walls.

**1.2                RELATED REQUIREMENTS**

- .1        Section [07 25 00 - Weather Barriers].
- .2        Section [07 60 00 – Flashing and Sheet Metal].
- .3        Section [07 92 00 - Joint Sealants].

**1.3                REFERENCES**

- .1        CCMC Registry of Product Evaluations.
- .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-S134-13-REV1, Standard Method of Fire Tests of Exterior Wall Assemblies.

**1.4                COORDINATION**

- .1        Coordinate work of this Section with installation of flashings to provide drainage to exterior.

**1.5                ACTION SUBMITTALS**

- .1        Submit proof of manufacturer's CCMC listing and listing number.
- .2        Product data: Submit manufacturer's printed product literature, specifications and data sheets in accordance with Section [01 33 00 - Submittal Procedures] [\_\_\_\_].
- .3        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 siding material, full profile width x [200] [\_\_\_\_] mm long, of specified colour/pattern and profile.
  - .3        [Submit samples of all exposed accessories and trims].
- .4        Installation Instructions: Submit manufacturer's printed installation instructions.
- .5        Installer Qualifications: Submit proof of installer compliance with installer qualifications specified under Quality Assurance.

- .6 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] [\_\_\_\_].

## **1.6 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.

## **1.7 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 siding material.
  - .2 [1%] [\_\_\_\_%] of installed boards in manufacturer's maximum standard board length.
  - .3 [One] [\_\_\_\_] of each accessory and trim shape in manufacturer's maximum standard length.
- .3 Package materials with protective coverings and label.

## **1.8 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 siding installation [not] forming part of the Work for Consultant's review.
  - .2 Include each accessory and trim type, [an [outside] [inside] corner] [an intersection with [adjacent material] [a door] [a window]].
  - .3 Approved mock-up establishes an acceptable standard for the Work.

## **1.9 DELIVERY, STORAGE, AND HANDLING**

- .1 Comply with manufacturer's instructions.

## **1.10 SITE CONDITIONS**

- .1 Proceed with installation only when ambient temperature is above -20 C.

## 1.11 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](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 MATERIALS

- .1 Rigid, extruded, interlocking PVC panels with hollow core profile and factory laminated PVC film, to CAN/CGSB-41.24-95.
- .2 Board Profile: [Nominally 150 mm wide x 13 mm thick] [Nominally 300 mm wide x 10 mm thick with V-Joints for 150 mm joint appearance.] [Nominally 300 mm wide x 10 mm thick, with flush joints.]
- .3 Board 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: [PVC] [Aluminum] starter strip, aluminum/PVC two-piece finishing trim, [aluminum/PVC two-piece outside corner] [PVC H Mold] [PVC J-trim] [PVC inside corner], matching finish to siding, pre-punched nailing holes, [maximum standard lengths to minimize joints] [custom lengths to minimize joints and minimize waste].
- .6 Furring: [\_\_\_\_ mm] x [\_\_\_\_ mm] [pressure treated wood furring strips] [galvanized steel] [aluminum] [furring channels] [as indicated on Drawings].
- .7 Fasteners: [galvanized] [stainless] steel.

### **2.3 PERFORMANCE CRITERIA**

- .1 Flammability: <25mm average extent of burning and <10s average time of burn when tested to ASTM D635-18.
- .2 Thermal Expansion: <6 x 10<sup>-5</sup>/°C when tested to ASTM D696-16.
- .3 Colour: to CAN/CGSB-41.24-95.
- .4 Specular Gloss: to CAN/CGSB-41.24-95
- .5 Shrinkage: <0.3% when tested to CAN/CGSB-41.24-95.
- .6 Warp: <0.5mm when tested to CAN/CGSB-41.24-95.
- .7 Impact Resistance: to CAN/CGSB-41.24-95.
- .8 Surface Distortion: to CAN/CGSB-41.24-95.
- .9 Acid Rain Resistance: to CCMC TG 07 46 33.07.A
- .10 Wind Load Resistance: to CCMC TG 07 46 33.07.
- .11 Durability: to CCMC TG 07 46 33.07.
- .12 Accelerated Weathering Resistance: No deleterious effects when tested to CCMC TG 07 46 33.07 and ASTM G154-16. Meets AAMA 307-16 for UV exposure.
- .13 Surface Burning Characteristics: Flame spread rating ≤ 75 when tested to CAN/ULC-S102-2018.
- .14 Fire Test of Wall Assembly: Meets CAN/ULC-13.

### **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 furring [strips] [channels] to provide rainscreen.
- .2 [Install 150 mm siding [horizontally] [vertically] [as indicated on Drawings] for [U-Channel] [V-Groove] appearance.]
- .3 [Install 300 mm siding [horizontally] [vertically] [as indicated on Drawings].
- .4 Install siding, accessories and trim in strict accordance with manufacturer's printed instructions.

- .5 Scribe and cut as required to neatly fit abutting walls and adjacent surfaces, and to accommodate other materials penetrating through boards.
- .6 Secure boards, accessories, and trim in place, rigid, plumb 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**