

## Product Guide Specification

*Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including Master Format, Section Format, and Page Format, as described in The Project Resource Manual—CSI Manual of Practice.*

*The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all “Specifier Notes” when editing this section.*

*Section numbers are from Master Format 1995 Edition, with numbers from Master Format 2004 Edition in parentheses. Delete version not required.*

### SECTION 06600 (06 64 00)

#### PVC WALL PANELING

*Specifier Notes: This section covers Delcan Manufacturing Ltd. DelPro 1238™ & DelPro 1638™ & DelPro 1638™ exterior-grade PVC wall & ceiling panels. Consult Delcan Manufacturing Ltd. for assistance in editing this section for the specific application*

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Exterior-grade PVC wall panels.

##### 1.2 RELATED SECTIONS

*Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.*

- A. Section 07920 (07 92 00) – Joint Sealants.

##### 1.3 REFERENCES

*Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.*

- A. Canadian Food Inspection Agency (CFIA) Approval
- B. ASTM E84-23 Standard Test Method for Surface Burning Characteristics of Building Materials

- C. CAN ULC S102.2-10 Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. ASTM G21- Standard Test Method Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.

#### **1.4 SUBMITTALS**

- A. Comply with Section 01330 (01 33 00) – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including the following:
  - 1. Preparation instructions and recommendations
  - 2. Storage and handling requirements and recommendations
  - 3. DelPro 1238™ & DelPro 1638™ and DelPro Trim details.
  - 4. DelPro 1238™ & DelPro 1638™ Installation instructions.
- C. Samples:
  - 1. Submit manufacturer's samples of Interlocking PVC Wall & Ceiling Panels, including tongue-and-groove edges and nailing fins.
  - 2. Submit manufacturer's samples of each type of trim to be installed.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.
- F. Warranty: Submit manufacturer's standard warranty.

#### **1.5 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage:
  - 1. Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
  - 2. Store DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels flat.
- C. Handling: Protect materials during handling and installation to prevent damage.

#### **1.6 ENVIRONMENTAL REQUIREMENTS**

- A. Installing DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels:
  - 1. Cold Temperatures: When installing DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels in temperatures below 40°F [4°C], climatize the DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels to a minimum of 50°F [10°C] and leave space between panels to allow for expansion in accordance with manufacturer's installation instructions.
  - 2. Warm Temperatures: When installing DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels in temperatures above 86°F [30°C], climatize panels to a minimum of

68°F [20°C] in accordance with manufacturer's installation instructions.

3. DelPro 1238™ & DelPro 1638™ Panels should be installed at temperatures that are within 40°F [25°C] degrees of final usage operating temperature.

B. Cutting Interlocking PVC Wall & Ceiling Panels:

1. Cold Temperatures: Before field cutting DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels in temperatures below 40°F [4°C], climatize DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels to a minimum of 50°F [10°C].

## 1.7 WARRANTY

- A. Warranty Period for Interlocking DelPro 1238™ & DelPro 1638™ PVC Wall & Ceiling Panels: 25 years.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

Delcan Manufacturing Ltd.  
Unit 212 ~ 2880 45 Ave SE  
Calgary, AB T2B 3M1 Canada  
Phone (403) 207-3340  
Email: sales@delcan.ca

### 2.2 PERFORMANCE REQUIREMENTS

- A. DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels
1. Description: Tongue-and-groove, a rib-reinforced interlocking PVC wall & ceiling panel with nailing fins.
  2. Material: 100 percent virgin, exterior-grade PVC.
  3. Outside Surface: Flat.
  4. Width: DelPro 1238™ = 12" & DelPro 1638™ = 16"
  5. Lengths: Standard 8', 10', 12', 14', 16', 18', 20' Custom lengths available.
  6. Thickness: 3/8 inch.
  7. Weight: DelPro 1238™ = 0.8lbs & DelPro 1638™ = 1.0lbs per square foot.
  8. Food processing facilities: CFIA approved and compliant with FDA and USDA guidelines.
  9. Surface-Burning Characteristics: Meet the following values according to ASTM E84 and CAN/ULC-S102:
    - ASTM E84
      - I. Flame Spread Index: 15
      - II. Smoke Developed Index: 450
    - CAN ULC S102.2-10
      - III. Flame Spread Index: 5
      - IV. Smoke Developed Index: 260
      - V.
  10. Surface Burning Characteristics, CAN ULC S102.2-10

- I. Flame Spread Index: 5
- II. Smoke Developed Index: 260
- 11. Color: White, Gray and Black.
- 12. Corrosion proof
- 13. Waterproof, nonporous
- 14. Mold and Mildew resistant
- 15. Sustainability Performance:
  - I. Low VOC Emissions: Meets 01350 Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources in accordance with California Department of Public Health (CPDH) to comply with LEED's Low-Emitting Materials category.
  - II. Light Reflectivity: 0.88 LRV to comply with LEED's Interior Lighting category.
  - III. Material Recovery: Provide PVC products that are 100% recyclable to comply with LEED's Construction and Demolition Waste Management & Waste Management Planning & Interiors Life Cycle Impact Reduction categories
- B. Trim:
  - 1. Material: 100 percent virgin, exterior-grade PVC.
  - 2. Weight: Various per trim. See [www.delpro1638.com](http://www.delpro1638.com) for more details.
  - 3. Color: Matching DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels.

## 2.3 ACCESSORIES

- A. Construction Adhesive: PL200 or Liquid Nails, as recommended by wall panel manufacturer.
- B. Fasteners:
  - 1. Fastening into Wood: Use DFWS ~ DelPro Wood Fastener #8 x 1" Truss head Screw available in Zinc coated or Stainless steel.
  - 2. Fastening into Masonry: Use DFCS ~ DelPro Concrete Fastener [3/16 x 1 3/4" Flathead, pre-drill with 5/32" masonry bit].
  - 3. Fastening into Metal: Use DFST ~ DelPro Steel Fastener (#10-16 x 1" Master Driller Pan Socket.
  - 4. Staples: Do not use.

*Specifier Notes: Specify the section number for joint sealants.*

- C. Joint Sealants: As specified in Section 07920 (07 92 00).

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Examine areas to receive DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels.

- B. Notify Architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin preparation or installation until unacceptable conditions are corrected.

### **3.2 PREPARATION**

- A. Prepare DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels for installation in accordance with manufacturer's instructions.
- B. Ensure DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels are dry and clean.

### **3.3 INSTALLATION**

- A. Install DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels plumb, level, square, flat, and in proper alignment.
- C. Install trim in accordance with manufacturer's instructions.
- D. Anchor DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels with construction adhesive and fasteners in accordance with manufacturer's instructions.
- E. Fasteners:
  - 1. Install fasteners 16 inches to 24 inches on center into nailing fins.
  - 2. Keep top of screw head 1/16 inch above top of nailing fins, allowing panels to move slightly.
  - 3. Do not recess screw heads into nailing fins.
  - 4. Ensure nailing fins lay flat against surface, not deformed around screw heads.
  - 5. Ensure fasteners are not exposed.
- F. Cutting Interlocking PVC Wall & Ceiling Panels:
  - 1. Field-cut panels as necessary in accordance with manufacturer's instructions.
  - 2. Ensure cuts are straight, square, and do not damage panels.

*Specifier Notes: Specify the section number for joint sealants.*

- G. Apply joint sealants
  - 1. Clear & White silicone
  - 2. As specified in Section 07920 (07 92 00).

### **3.4 ADJUSTING**

- A. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.

- B. Remove and replace damaged DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels in accordance with manufacturer's instructions.

### **3.5 CLEANING**

- A. Clean DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels promptly after installation in accordance with manufacturer's instructions.
- B. Clean surfaces with a mild detergent or soap scum remover.
- C. In cases when hand cleaning is not satisfactory, pressure washers may be used with mild soap and a sponge or soft cloth, provided the guidelines below are followed:
  - 1. Power washing nozzle should be at least 4-6 ft away from the wall.
  - 2. Use a small-to mid-size power washer with less than 3,000 psi.
  - 3. Use a wide spray nozzle angle (40° or greater is preferred) to distribute the water pressure across the wall.
- D. Multi-purpose cleaners may be used, provided they are PVC compatible. Spot test material in an inconspicuous location prior to cleaning.

### **3.6 PROTECTION**

- A. Protect installed DelPro 1238™ & DelPro 1638™ Interlocking PVC Wall & Ceiling Panels from damage during construction.

**END OF SECTION**