

**SECTION 06 60 00 (06 64 00)**

# **PALRAM PVC PANELING SPECIFICATION**

PALRAM INDUSTRIES (1990) Ltd. IS ENGAGED IN CONTINUING RESEARCH TO IMPROVE ITS PRODUCTS.  
THEREFORE, THE RIGHT IS RESERVED TO MODIFY OR CHANGE MATERIAL IN THIS SPECIFICATION WITHOUT NOTICE

## **SECTION 06 60 00 (06 64 00) PVC Paneling**

### **PART 1 – GENERAL**

#### **1.1 SECTION INCLUDES**

- A. Plastic wall liner panels.
- B. Plastic ceiling panels.

#### **1.2 RELATED SECTIONS**

- A. Section 097700 (09 77 00) Special Wall Surfacing

#### **1.3 REFERENCES**

- A. Canadian Food Inspection Agency (CFIA) Approval
- B. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. CAN/ULC S102.2 - Surface Burning Characteristics of Building Materials
- D. ASTM D635 – Standard Test Method to Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
- E. ASTM D3273-16 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coating in an Environmental Chamber
- F. ASTM D2583-07 - Standard Test Methods for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor
- G. ASTM D256-10 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics

#### **1.4 SUBMITTALS**

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods
- C. Shop Drawings: Submit plan, section and elevation drawings to depict the actual construction of each unit type specified, and to depict proper attachment and installation techniques. Coordinate locations with those indicated on the contract drawings.
- D. Verification Samples: For each finish product specified, two samples representing actual product, color, and patterns.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Primary products shall be manufactured and supplied by a single manufacturer.
- B. Installer Qualifications: Products shall be installed by a single installer with a minimum of five years demonstrated experience in installing products of the same type and scope as specified.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  - 3. Refinish mock-up area as required to produce acceptable work.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Store panels flat.

#### **1.7 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. Panels should be installed at temperatures that are within 40°F of operating temperature
- B. Cold Temperatures – Do NOT install panels at temperature at or below 32°F.

## 1.8 WARRANTY

- A. At project closeout, provide to Owner or Owner's Representative an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.
1. Term: 20 Years

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturer: Palram Americas, Inc. Located at: 9735 Commerce Circle, Kutztown, PA 19530  
Phone: (800) 999-9459 Fax: (610) 285-9928
- B. Substitutions: Not permitted.

### 2.2 PVC WALL PANELS

- A. Product: DuraClad® PVC Interlocking Liner Panel
1. Description: Tongue-and-groove, rib-reinforced wall panels with nailing fins.
  2. Material: 100% Virgin PVC
  3. Outside Surface: Flat.
  4. Width: 16 inches.
  5. Thickness: 1/2 inch.
  6. Weight: 0.76 pounds per square foot
  7. Food processing facilities: CFIA, FDA and USDA compliant
  8. Surface Burning Characteristics, ASTM E 84:
    - a. Flame-Spread Index: 15 or less.
    - b. Smoke-Developed Index: 750 or less.
  9. Surface Burning Characteristics, CAN/ULC S102.2
    - a. Flame Spread Index: 15 or less.
    - b. Smoke Developed Index: 300 or less
  10. ASTM D635 – Standard Test Method to Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
    - a. Classification Rating: CC1
  11. ASTM D3273-16 - 2016 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coating in an Environmental Chamber
    - a. Classification Rating: 10 (zero mold growth)
  12. ASTM D2583-07 - Standard Test Methods for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor
    - a. Hardness Value = 72
  13. ASTM D256-10 (Reapproved 2018), Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
    - a. Notched Impact Resistance = 11.8 ft\*lbs/in (635 J/m)
  14. Color: White
  15. Corrosion proof
  16. Waterproof, Nonporous

### 2.3 PVC CEILING PANELS

- A. Product: DuraClad® PVC Interlocking Liner Panel
1. Description: Tongue-and-groove, rib-reinforced wall panels with nailing fins.
  2. Material: 100% Virgin PVC
  3. Outside Surface: Flat.

4. Width: 16"
5. Thickness: 1/2 inch.
6. Weight: 0.8 pounds per square foot
7. Food processing facilities: CFIA, FDA and USDA compliant
8. Surface Burning Characteristics, ASTM E 84:
  - a. Flame-Spread Index: 15 or less.
  - b. Smoke-Developed Index: 750 or less.
9. Surface Burning Characteristics, CAN/ULC S102.2
  - a. Flame Spread Index: 15 or less.
  - b. Smoke Developed Index: 300 or less
10. ASTM D635 – Standard Test Method to Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position
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14. Color: White
15. Corrosion proof
16. Waterproof, Nonporous

## 2.4 ACCESSORIES

- A. Product: DuraClad® PVC Trim
  1. Description: J Trim, Outside Corner, Inside Cove, Base Trim, H Divider and F-Channel.
  2. Material: 100% Virgin PVC
  3. Color: White

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install wall and ceiling panels in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install wall and ceiling panels plumb, level, square, flat, and in proper alignment.
- C. Install trim in accordance with manufacturer's instructions.
- D. Ceiling Panels: Anchor ceiling panels with fasteners in accordance with manufacturer's instructions.

- E. Wall Panels: Anchor wall panels with construction adhesive and fasteners in accordance with manufacturer's instructions.
- F. Fasteners:
  - 1. Fastening into Wood or Metal: Stainless Steel or Zinc coated, 1 inch, No. 10 pancake head screw.
  - 2. Fastening into Masonry: Stainless steel, Tapcon 3/16-inch x 1-1/4 inch screws.
  - 3. Install fasteners in pre-punched holes 16 inches to 24 inches (406mm -610mm) on center into screw flange.
  - 4. Ensure screw flange lays flat against surface, between screw head and substrate, not deformed around screw heads.
  - 5. Do not recess screw heads into nailing fins.
  - 6. Ensure fasteners are not exposed.
  - 7. Staples: Do not use.
- G. Cutting Panels:
  - 1. Field-cut panels as necessary in accordance with manufacturer's instructions.
  - 2. Ensure cuts are straight, square, and do not damage panels.

### **3.4 CLEANING AND ADJUSTMENT**

- A. Clean with a mild detergent or soap scum remover.
- B. Where detergents do not work, low pressure washers with mild soap and a soft cloth may be used.
- C. Multi-purpose cleaners may be used, provided they are PVC compatible. Spot test material in an inconspicuous location prior to cleaning.
- D. Do not use abrasive cleaners.
- E. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- F. Where damage cannot be repaired, remove and replace damaged work in accordance with manufacturer's instructions.

### **3.5 PROTECTION**

- A. Protect installed products until completion of project.

### **END OF SECTION**