

DURAMAX BUILDING PRODUCTS

a division of US Polymers Inc.

1057 S Vail Ave., Montebello, CA 90640

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Phone: 213-652-7665

Website: www.duramaxpvcpanels.com

E-mail: sales@duramaxpvcpanels.com

SECTION 06 64 00 — PVC WALL AND CEILING PANELING

PART 1 GENERAL

1.1 SECTION INCLUDES

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

1.2 RELATED SECTIONS

- A. Section 07 92 00 - Joint Sealants.
- B. Section 09 77 00 - Special Wall Surfacing.

1.3 REFERENCES

- A. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM D4226 - Standard Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products.
- C. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- D. NSF/ANSI 51 - Food Equipment Materials (referenced for joint sealant).

1.4 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including the following:
 1. Preparation instructions.
 2. Storage and handling requirements and recommendations.
 3. Installation instructions.
 4. Chemical Resistance Guide.
- C. Samples: For each finish product specified, two samples representing product, color, and patterns.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- E. Test Reports: Submit test reports for ASTM E 84, ASTM D4226, and ASTM G21 on request.
- F. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.
- G. 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: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Store wall and ceiling panels flat.
- C. Handling: Protect materials during handling and installation to prevent damage.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Installing Wall and Ceiling Panels: Acclimate panels in the installation location for at least 24 hours prior to installation at a temperature between 50 and 68 degrees F. Loosen or remove packaging that would restrain the product during acclimation. For installation outside this temperature range, refer to the manufacturer's Cold Weather Installation Guide.
- B. Cutting Wall and Ceiling Panels: Cold Temperatures: Before field-cutting wall and ceiling panels in temperatures below 40 degrees F, warm panels to a minimum of 60 degrees F overnight. Move the saw through the material slowly in cold weather to prevent chipping or cracking.
- C. Radiant Heat: Shield all radiant heat sources and maintain a minimum clearance of 24 inches from panels. Surface temperatures at the panel shall not exceed 120 degrees F. Consult the heater manufacturer for required shielding and clearances.

1.7 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: Limited Lifetime.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. DURAMAX Building Products, a division of US Polymers, Inc., 1057 S Vail Ave, Montebello, CA 90640. | Phone: 213-652-7665 | Website: www.duramaxpvcpanels.com | E-mail: sales@duramaxpvcpanels.com

2.2 PVC WALL AND CEILING PANELS

- A. Duramax Wall and Ceiling Panels:
 1. Description: Tongue-and-groove, rib-reinforced wall and ceiling panels with nailing fins.
 2. Material: 100 percent virgin PVC.
 3. Outside Surface: Flat.
 4. Width: 16 inches exposed face; 17-1/4 inches overall including nailing fin.
 5. Lengths: 8, 10, 12, 14, 16, and 20 feet.
 6. Thickness: 1/2 inch.
 7. Weight: 0.97 pound per linear foot (0.73 pound per square foot).
 8. Surface Burning Characteristics, ASTM E 84:
 1. Flame Spread Index: 10.
 2. Smoke Developed Index: 400.
 3. Classification: Class A. ASTM E 84 measures surface burning characteristics only. It does not establish a fire-resistance rating. Panels are an interior finish and shall be installed over a fire-rated wall or ceiling assembly where one is required by code. Panels do not serve as a thermal barrier over foam plastic insulation.
 9. Impact Resistance, ASTM D4226: 252 in-lbs.
 10. Waterproof.
 11. Nonporous.
 12. Does not rust or corrode.
 13. Color: White, Gray, and Black, semi-gloss finish.
 14. Light Reflectance Value: 0.90, white.
 15. Maximum Service Temperature: 120 degrees F.
 16. Fungi Resistance, ASTM G21: Rating 0, no growth observed on test specimens.
 17. Manufactured without added lead, cadmium, or mercury stabilizers.
 18. Sanitary Construction: Panels meet FDA, USDA, and CFIA requirements for wall and ceiling surfaces in food preparation areas when used on non-food-contact surfaces and when all joints are sealed with an approved flexible caulking compound.
- B. Trim:
 1. Material: 100 percent virgin PVC.
 2. Weight: 0.06 pound per linear foot.
 3. Color: Same as wall and ceiling panels.

2.3 ACCESSORIES

- A. Sealant: One-part neutral cure silicone sealant for sealing corners, trim terminations, and penetrations. In food preparation areas, use a sealant complying with FDA Regulation 21 CFR 177.2600 and certified to NSF/ANSI 51. Construction adhesive shall not be used to install panels.
- B. Fasteners:
 1. General: Corrosion-resistant screws only (galvanized, stainless steel, or aluminum) with a low-profile head (truss, pancake, round, or washer head) and a minimum head diameter of 3/8 inch.
 2. Into Wood Framing: No. 10 by 1-1/4 inch truss or pancake head screws.
 3. Into Metal Studs: Self-tapping No. 8 or No. 10 screws, 1-1/4 inch, low-profile head. Do not use wood screws.
 4. Into Concrete or Masonry: 3/16 inch by 1-1/4 inch flathead screws (Tapcon type).
 5. Over Existing Drywall: 1-3/4 inch to 2 inch screws.
 6. Over Furring Strips or Strapping: 2-1/2 inch screws.
 7. Corrosion Resistance: Use zinc-coated or standard corrosion-resistant screws in normal interior spaces. Use stainless steel screws in moist or highly corrosive areas.
 8. Nails and Staples: Do not use.
- C. Joint Sealants: As specified in Section 07 92 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive wall and 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 wall and ceiling panels for installation in accordance with manufacturer's instructions.
- B. Ensure wall and ceiling panels are dry and clean.
- C. Verify that vapor barriers, insulation, and any code-required fire-rated assembly are complete before installing panels.
- D. Install blocking or backing at each location where lights, equipment, or other items will be suspended. Items shall not be mounted directly to panels.
- E. Do not begin installation until the building is fully enclosed, heating and cooling equipment is operational, and residual construction moisture has been removed.

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 fasteners in accordance with manufacturer's instructions. Do not use construction adhesive.
- F. Expansion: Provide a minimum 1/4 inch clearance at the ends of all panels and trims. Provide a 1/8 inch gap between the tongue side of the panel and the adjoining trim. For vertical panels seated on Base Trim or J Trim, leave a minimum 1/2 inch clearance at the top of the panel.
- G. Fasteners:
 1. Space fasteners no more than 24 inches on center into nailing fins. For horizontal installation, fasten at every framing member.
 2. Fastener type and length: As specified in Part 2.3.B.
 3. Keep top of screw head 1/16 inch above top of nailing fins, allowing panels to move slightly.
 4. Do not recess screw heads into nailing fins.
 5. Ensure nailing fins lay flat against surface, not deformed around screw heads.
 6. Ensure fasteners are not exposed.
 7. Fasten in the center of the screw flange slots. Fastening at the ends of slots can cause panels to buckle or distort.
 8. Install screws straight and level. Fasteners shall penetrate at least 1 inch into solid backing.
 9. Do not over-tighten. Panels shall slide freely after fastening to accommodate expansion and contraction.
- H. Cutting Wall and Ceiling Panels: Field-cut panels as necessary in accordance with manufacturer's instructions. Ensure cuts are straight, square, and do not damage panels.
- I. Apply joint sealants as specified in Section 07 92 00. In high moisture and washdown areas, apply a bead of silicone inside the groove of each panel before inserting the adjoining panel.

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 wall and ceiling panels in accordance with manufacturer's instructions.

3.5 CLEANING

- A. Clean wall and ceiling panels promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that could damage finish. Do not use acetone, acetone-containing products, ketones, esters, aromatic solvents, or chlorinated solvents. Do not use abrasive pads or scouring powders. Refer to the manufacturer's Chemical Resistance Guide.
- C. Pressure Washing: Where used, limit pressure to less than 3,000 psi, use a spray nozzle angle of 40 degrees or greater, and keep the nozzle a minimum of 4 to 6 feet from the wall.

3.6 PROTECTION

- A. Protect installed wall and ceiling panels from damage during construction.

END OF SECTION