

GUIDE SPECIFICATION

Manufacturer:

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SECTION 06 65 00 – PLASTIC TRIMS (QUIK-BASE “AVANT” & “CONTEMPO” BASE MOLDING for VCT, TILE, CARPET FLOOR TREATMENT, or BARE CONCRETE)

This guide specification has been prepared by L'AIR International, in editable format, as an aid to specifiers in preparing written construction documents for plastic trim wall base for commercial applications. Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable.

This guide specification is written around the Construction Specifications Institute (CSI), Section Format standards references to section names and numbers are based on Master Format 2016 and subsequent revisions.

For specification assistance on specific product applications, please contact our offices above.

L'AIR International reserves the right to modify these guide specifications at any time. Updates to this guide specification will be posted to the manufacturer's web site and/or in printed matter as they occur. L'AIR International makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Foamed Polyvinyl Chloride (PVC) trim for wall base applications.

1.2 RELATED SECTIONS

- A. Section 06 11 16 - Mechanically Graded Lumber.
- B. Section 06 20 00 - Finish Carpentry.
- C. Section 06 30 00 - Exterior Carpentry*.
- D. Section 06 40 00 - Architectural Woodwork.
- E. Section 06 43 16 - Wood Railings.
- F. Section 07 91 16 - Joint Gaskets.
- G. Section 09 29 00 - Gypsum Board.
- H. Section 09 90 00 - Painting and Coating.

1.3 REFERENCES

- A. ASTM D 792 - Density and Specific Gravity of Plastics by Displacement.

- B. ASTM D 570 - Water Absorption of Plastics.
- C. ASTM D 638 - Tensile Strength & Modulus Properties of Plastics.
- D. ASTM D 256 - Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by means of a swinging pendulum, using a "hammer" type weight.
- E. ASTM D 256 - Determining the Pendulum Impact Resistance of Plastics.
- F. ASTM D 696 - Coefficient of Linear Thermal Expansion of Plastics Between minus 30 degrees C and plus 30 degrees C with a Vitreous Silica Dilatometer.
- G. ASTM D 635 - Rate of Burning and/or extent & time of burning of plastics in a horizontal position.
- H. ASTM E 84 - Surface Burning Characteristics of Building Materials.
- I. ASTM D 648 - Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Verification Samples: For product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, color, and finish.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer with a minimum of 5 years producing PVC trim products.
- B. Installer Qualifications: minimum of 3 years' experience with the installation of PVC trim or similar products.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products on a flat and level surface on a full shipping pallet. Handle materials to prevent damage to product edges and corners.
- B. Store materials under protective covering to prevent jobsite dirt and residue from collecting on the boards.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.8 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.

1.9 WARRANTY

- A. Provide manufacturer's 3-year warranty against defects in manufacturing that causes the products to rot, corrode, delaminate, or excessively swell from moisture.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURER AND PRODUCT

- A. QUIK-BASE "AVANT" & "COMTEMPO" Base Molding as designed and fabricated by L'AIR International, 117 Vacek Street, Fort Worth, TX, 76107-1908 USA; Tel: 817.237.9390; Email: info@lairfloors.com.

2.2 MATERIALS

- A. PVC: Free Foam Cellular PVC material with a small-cell microstructure and density of .55 grams/cm³.
- B. Performance and physical characteristic requirements:
1. Sizes:
 - 3/4" thick x 4" High x 8'-0" Long
 2. Physical:
 - a. Density: 0.55 g/cm³ when tested in accordance with ASTM D 792.
 - b. Water Absorption: 0.15% when tested in accordance with ASTM D 570
 3. Mechanical
 - c. Tensile Strength: 2256 psi when tested in accordance with ASTM D 638.
 - d. Tensile Modulus: 144,000 psi when tested in accordance with ASTM D 638.
 - e. Flexural Strength: 3329 psi when tested in accordance with ASTM D 790
 - f. Flexural Modulus: 144,219 psi when tested in accordance with ASTM D 790
 - g. Izod impact strength: 0.53 ft-lb/in when tested in accordance with ASTM D 256.
 - h. Notched Izod Impact: 0.270 ft-lbs/inch when tested in accordance with ASTM D 256.
 - i. Charpy Impact (un-notched @ 23 degrees): 4.5 ft=lb/in when tested in accordance with ASTM D 256
 3. Thermal:
 - a. Coefficient of Linear Expansion: 3.2 x 10-5 in/in/degrees F when tested in accordance with ASTM D 696.
 - b. Burning Rate: Failed to Ignite when tested in accordance with ASTM D 635.
 - c. Flame Spread Index: 20 when tested in accordance with ASTM E 84.
 - d. Heat Deflection Temp (264 psi): 150 degrees F when tested in accordance with ASTM D 648.
 - e. Oil Canning (@ 140 degrees F): Passed when tested in accordance with ASTM D 648.
 4. Workmanship, Finish, and Appearance:
 - f. Free Foam Cellular PVC that is homogeneous and free of voids, holes, cracks, foreign inclusions and other defects.
- C. Accessories (optional)
1. Prefabricated outside corners
 2. Prefabricated inside corners

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until walls and / or columns have been properly prepared.
- B. If wall or column preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.

2.3 INSTALLATION

A. Adhesive System:

1. All bonded surfaces must be smooth, clean, and in complete contact with each other for best results. Use standard cove base adhesives. Follow manufacturer's instructions for installation.
2. If applicable, adhere Quik Base Molding to itself with PVC cement or cellular PVC adhesives to prevent joint separation. Acceptable adhesives are PVC Trim Welder, IPS Weld-On 705 (black), and Zevo PVC Trim adhesive.
3. PVC cements cure quickly (3-5 minutes or less) and have a limited working time.
4. Butt joints are recommended.
5. When bonding Quik Base Molding to untypical wall material, consult the adhesive manufacturer to determine suitability.
6. Apply cove adhesive by manufacturer's recommendations for temperature. Caulk tube installation is recommended.
7. Apply cove adhesive prior to fastening or finished end of molding to curved application.

B. Fastener Application:

1. Avoid fastening over hollow or uneven areas. Fasten onto flat, solid walls or columns.
2. Use standard brad guns with a pressure setting between 80 psi and 90 psi. The recommended pressure depends on the type of gun, type of nail, ambient temperature, and other factors. Care should be taken not to overdrive the brad into the material.
3. Use fasteners long enough to penetrate the substrate a minimum of 3/4" inches. Do not use staples and wire nails. Avoid using fine threaded wood screws and ring-shank nails.
4. Curved applications: At start of curved walls or round columns, use 0.18 x 1-1/4" gauge stainless steel fasteners designed for wood trim. Install brad or screw to secure at apex of inner or outer curves. Install brad or screw if finishing on curve and at finish of all columns. Do not install onto round columns less than 18" diameter.
5. If installing into steel studs use appropriate threaded 1/8" x 1-1/4" counter-sink screw.
6. Use countersink tool to allow 1/16" recess of screw head prior to inserting screw.
7. Pre-drilling is not required unless large fasteners are used or when product is installed below manufacturer's recommended installation temperatures. If applicable, install fasteners no more than 2 inches from the end of each molding section.

C. Cutting:

1. Quik Base Molding can be cut using standard woodworking saws. Conventional carbide-tipped blades designed for cutting wood are preferred. Avoid using fine-tooth metal-cutting blades.
2. Rough-cut edges are typically caused by excessive friction, poor support, or worn or improper tooling.

D. Drilling:

1. If required, Quik Base Molding can be drilled using standard woodworking drill bits. Do not use drill bits made for rigid PVC.
2. Avoid frictional heat build-up.
3. Remove shavings periodically from a drill hole as necessary.

E. Milling and Molding:

1. Can be milled/molded using standard machines found in millwork shops.
2. Rake angle 20 to 30 degrees. 25 degrees is recommended.
3. Cutting speed to be optimized with the number of knives and feed rate.

F. Routing:

1. Can be routed with virtually any piece of equipment used to rout wood.
2. Carbide tipped router bits are recommended.
3. Machinery that allows for multiple cutting speeds will allow you to optimize the process

obtaining a smoother finished part.

- G. Edge Finishing:
 - 1. Traditional sanding, grinding or filing tools used for woodworking are preferred.
- H. Expansion & Contraction:
 - 1. PVC trim expands and contracts with changes in temperature. Properly fastening along the entire length is required to minimize expansion and contraction.
- I. Cleaning:
 - 1. Clean with mild detergent and water.
 - 2. For more stubborn stains use a mild household cleaner . Do not scrub or use abrasive cleaners.
- J. Painting:
 - 1. If painting Quik Base Molding, be sure surface to be painted is clean, dry, and free of dirt, loose or peeling paint, mildew, chalk, grease and any other surface contaminants before paint application.
 - 2. Finish brad holes with non-collapsible black hole filler or a UV resistant acrylic caulk**
NOTE TO SPECIFIER ** Coordinate with Section 09 90 00 - Painting and Coating to verify compatible materials are specified.
 - 3. Use 100 percent acrylic latex or 100 percent acrylic latex with urethane additive paint with a light reflective value (LRV) equal to or greater than 55 units.
 - 4. Follow the paint manufacturer's application recommendations.
- K. Sealants:
 - 1. Use urethane, polyurethane, polymer blends or acrylic based sealants that do not contain silicone as specified in Section 07 91 16 - Joint Gaskets.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before substantial completion.

END OF SECTION