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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM) including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies plastic simulated wood trim for use as interior moldings. These products are manufactured by Timbron International, Inc. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat*™ for other section numbers and titles.

**SECTION 06 65 00**  
**PLASTIC SIMULATED WOOD TRIM**

**PART 1 GENERAL**

1.01 SUMMARY

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

- A. Related Sections:
  - 1. Painting: Division 9 painting sections.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.


1.02 REFERENCES

- A. ASTM International (ASTM):
  - 1. ASTM D570 Standard Test Method for Water Absorption of Plastics.
  - 2. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
  - 3. ASTM D1622 Standard Test Method for Apparent Density of Rigid Cellular Plastics.
  - 4. ASTM D3345 Standard Test Method for Laboratory Evaluation of Wood and Other Cellulosic Materials for Resistance to Termites.
  - 5. ASTM D6117 Standard Test Methods for Mechanical Fasteners in Plastic Lumber and Shapes.
  - 6. ASTM D6341 Standard Test Method for Determination of the Linear Coefficient of Thermal Expansion of Plastic Lumber and Plastic Lumber Shapes Between -30 and 140°F (-34.4 and 60°C).
  - 7. ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- B. California Department of Health Services Environmental Health Laboratory Branch (CA/DHS/EHLB):
  - 1. CA/DHS/EHLB/R-174 Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers.


Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor, either before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section [01 33 00 - Submittal Procedures].

**1.03 SUBMITTALS**

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 - Submittal Procedures] [\_\_\_\_\_].
- B. Product Data: Submit product data, including manufacturer's data sheet, for specified products.

Specifier Note: Green building rating systems often include credit for materials of recycled content. USGBC-LEED®  for example, includes credit for materials with recycled content, calculated on the basis of pre-consumer and post-consumer percentage content, and it includes credit for use of salvaged/recovered materials. Green Globes-US also provides points for building materials with recycled content.

- 1. Recycled Content (LEED MR Credit 4):
  - a. Indicate recycled content; indicate percentage of pre-consumer and post-consumer recycled content per unit of product.

Specifier Note: USGBC-LEED® v2.2 includes credits for low-emitting materials. As per USGBC published Credit Interpretations, the credits for low-emitting materials are directed toward interior, site-installed (i.e., not prefabricated) products. 

- 2. VOC Data (LEED EQ Credit 4):
  - a. Submit manufacturer's product data indicating VOC limits.
  - b. Submit MSDS highlighting VOC limits.

Specifier Note: Green building rating systems, including USGBC-LEED®, offer credits under a variety of additional categories that may be applicable to this product. Refer to the Timbron website at [www.timbron.com](http://www.timbron.com) for further information.

- C. Samples: Submit 6 inch (152 mm) long samples of each profile specified.
- D. Quality Control Submittals:
  - 1. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

**1.04 QUALITY ASSURANCE**

- A. Regulatory Requirements: In accordance with Section [01 41 00 - Regulatory Requirements] [\_\_\_\_\_].

**1.05 DELIVERY, STORAGE & HANDLING**

- A. General: Comply with Section [01 61 00 - Common Product Requirements] [\_\_\_\_\_].
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Protect from exposure to harmful environmental conditions. Store materials indoors, covered, away from direct sunlight and at temperatures recommended by the manufacturer.

**PART 2 PRODUCTS**

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 PLASTIC SIMULATED WOOD TRIM

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Timbron International, Inc.
  - 1. Contact: 1333 North California Boulevard, Suite 545, Walnut Creek, CA 94596; Telephone: (925) 943-1632; Fax: (925) 943-1164; website: [www.timbron.com](http://www.timbron.com).
- B. Material: 90% recycled plastics: 75% post-consumer and 15% pre-consumer as certified by Scientific Certification Systems.
- C. Physical Characteristics:
  - 1. Apparent Density: Not less than 500 kilograms per cubic meter when tested in accordance with ASTM D1622.
  - 2. Flexural Strength: Not less than 3700 pounds per square inch when tested in accordance with ASTM D790.
  - 3. Flexural Modulus: Not less than 194,100 pounds per square inch when tested in accordance with ASTM D790, modified to convert data from dowel to rectangular shape.
  - 4. Linear Coefficient of Thermal Expansion: Not more than  $6.5 \times 10^{-5}$  inches/degrees F ( $3.6 \times 10^{-5}$  inches/degrees C) when tested in accordance with ASTM D6341.
  - 5. Fastener Holding:
    - a. Direct Withdrawal Load: Not less than 48 pounds per linear foot for 3d bright common nail and not less than 14.5 pounds per linear foot for 18 gauge pneumatic gun nail when tested in accordance with ASTM D6117.
    - b. Lateral Resistance Load: Not less than 126 pounds per linear foot for 3d bright common nail and not less than 102 pounds per linear foot for 18 gauge pneumatic gun nail when tested in accordance with ASTM D6117.
  - 6. Water Absorption: Not more than 0.6% when tested in accordance with ASTM D570, with the cut ends silicone-sealed to mimic installed product.
  - 7. Resistance to Fungi: Resistant to fungal growth when tested in accordance with ASTM G21.
  - 8. Resistance to Termite Infestation: Highly resistant when tested in accordance with ASTM D3345. (Slight modifications in testing were made in view of the non-cellulosic nature of the test material.)
  - 9. Volatile Organic Compound Emissions (VOC): No VOCs with chronic reference exposure levels (CRELs) emitted when tested in accordance with CA/DHS/EHLB/R-174.
- D. Profiles:

Specifier Note: Select profile(s) below to conform to project requirements. Additional profiles may be available. Refer to [www.timbron.com](http://www.timbron.com) for the most current profile listing.

- 1. Base Shoe: TIM 127.
- 2. Casing: TIM 356.
- 3. Closet Pole: LTIM 232.
- 4. Colonial Base: TIM 623.
- 5. Crown: TIM 49.
- 6. Streamline Base: LTIM 726.
- 7. Quarter Round: TIM 105.
- 8. Other: [\_\_\_\_\_].

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: Substitutions in accordance with Section [01 25 13 - Product Substitution Procedures] [No substitutions permitted] [\_\_\_\_\_].

2.03 ACCESSORIES

- A. Fasteners: 3d or 4d bright common ringshank nails, or 18 gauge or 16 gauge pneumatic gun nails.

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- B. Adhesives: One of the following:
1. Liquid Nails Paneling Wood & Foam Molding (LN-606).
  2. Liquid Nails POLY (LN-950).
  3. PL Premium Polyurethane Construction Adhesive.

**PART 3 EXECUTION**

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

**3.01 MANUFACTURER'S INSTRUCTIONS**

- A. Compliance: Comply with manufacturer's product data, product technical bulletins and product catalog instructions for installation.

**3.02 EXAMINATION**

- A. Site Verification of Conditions: Verify that substrate conditions, for substrates that have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

**3.03 PREPARATION**

- A. Acclimatize product to room temperature for a minimum of 12 hours prior to cutting and installation.

**3.04 CLEANING**

- A. Proceed in accordance with Section [01 74 23 - Final Cleaning] [\_\_\_\_\_].
- B. Clean installed product using soap or detergent and water. Do not use petroleum based solvents.
- C. Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

**END OF SECTION**