

CMI
500 West Monroe Street, Suite 2010
Chicago, Illinois 60661
Toll Free (800) 255.0785
Fax (312) 382-8703
Website www.miratectrim.com
E-mail info@miratectrim.com

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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *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 06062

EXTERIOR TREATED WOOD COMPOSITE

Specifier Notes: This section covers CMI "MiraTEC" treated exterior composite trim.

MiraTEC is an engineered, treated wood composite exterior trim product for non-structural applications. MiraTEC comes primed 4 sides, with a clear cedar texture one side, smooth on the other. The product needs to be finished painted for the 25 year warranty to be valid.

Consult CMI for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Exterior-grade, treated wood composite trim for non-structural applications.

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.

The following list of section numbers and titles is from MasterFormat **1995** Edition.

- A. Section 06450 - Standing and Running Trim.

- B. Section 06455 - Simulated Trim.
- C. Section 10710 - Exterior Shutters.

Specifier Notes: The following list of section numbers and titles is from MasterFormat **2004** Edition.

- D. Section 06 22 00 - Millwork.
- E. Section 06 40 00 - Architectural Woodwork.
- F. Section 06 44 00 - Ornamental Woodwork.
- G. Section 06 46 29 - Wood Fascia and Soffits.
- H. Section 10 55 16 - Mail Collection Boxes.
- I. Section 10 17 13.13 - Exterior Shutters.
- J. Section 10 71 13.26 - Decorative Exterior Shutters.
- K. Section 10 71 13.29 - Side-Hinged Exterior Shutters.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
- B. AWPA E7 - Standard Method of Evaluating Wood Preservatives by Field Tests with Stakes.
- C. AWPA E10 - Standard Method of Testing Wood Preservatives by Laboratory Soil-Block Cultures.

1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data.
- C. Certificate of Compliance: Submit manufacturer's certificate of compliance indicating composite panels comply with specified requirements.
- D. Application: Submit manufacturer's application instructions.
- E. 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 accordance with manufacturer's instructions.
2. Indoor Storage: Store composite materials flat.
3. Outdoor Storage: Store composite materials under cover, protected from weather, off ground, and on flat base.
4. Keep composite materials dry.

C. Handling: Protect materials during handling and installation to prevent damage.

1.6 WARRANTY

A. Warranty: Provide 25-year material warranty.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. CMI, 500 West Monroe Street, Suite 2010, Chicago, Illinois 60661. Toll Free (866) 382-8701. Fax (312) 382-8703. Website www.extira.com. E-mail info@extira.com.

2.2 EXTERIOR TREATED WOOD COMPOSITE

A. Composite Trim: "MiraTEC" treated exterior composite trim.
1. Description: Exterior-grade, treated wood composite trim for non-structural applications.

B. Boards:

Specifier Notes: Extira is available in nine nominal board widths: 2", 3", 4", 5", 6", 8", 10", 12", and 16".

1. Material: Wood fibers combined with phenolic resins, zinc borate, and water repellent. Essentially formaldehyde free.
2. Surface: Clear cedar texture one side, smooth the other. Primed 4 sides.
3. Substrate: 1-piece solid substrate, uniform density, not laminated. No knots or voids.

Specifier Notes: Specify thickness of the panels.

4. Thickness: [4/4], [5/4]

C. Typical Properties, 4/4 Thickness:

1. Density, ASTM D 1037: 49 pounds per cubic foot.
2. Modulus of Rupture, ASTM D 1037: 3,900 psi.
3. 24-Hour Soak, ASTM D 1037:
 - a. Water Absorption: 7.6 percent.
 - b. Thickness Swell: 1.9 percent.
4. Accelerated Aging Test, 6-Cycle, ASTM D 1037: Retained 90 percent of original strength.
5. Termite Resistance and Decay, AWWA E7 Rating Scale, 3-Year Exposure:
 - a. Termite Resistance Score: 8.8 out of 10.
 - b. Termite Decay Score: 10 out of 10.
6. Rot Resistance, AWWA E10:
 - a. White Rot: 3.66 percent weight loss.
 - b. Brown Rot: 1.02 percent weight loss.

2.3 ADHESIVES

Specifier Notes: Consult CMI for information regarding the adhesives tested with Extira. The end user of Extira should contact adhesive manufacturer for information on suitable adhesives for the specific application.

- A. Adhesives: Designed for use on wood composite materials.

2.4 FINISH

- A. Paint Application:
 1. Prime and paint all exposed field-cut edges of exterior trim using a high quality exterior oil/alkyd solvent based or acrylic latex primer recommended by the manufacturer for application over composite wood substrates.
 2. Coat all exposed surfaces including the bottom edge.
 3. Finish MiraTEC Trim with two coats of paint within 90 days after installation. If the material is not painted within 90 days, reprime the trim using an exterior primer that is recommended for use on composite wood products and is compatible with the topcoat to be used. Use the same primer for repair of any damage to the original factory applied primer.
 4. A total field-applied dry film paint thickness of a minimum of 2-1/2 mils is required on MiraTEC Trim.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and surfaces to receive composite materials. Notify Architect if areas or surfaces are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Cutting
 - a. Use a fine toothed hand saw or power saw with a combination blade.
 - b. Cut into exposed face of the material
- B. Fastening
 - a. Double nail a maximum of 16" O.C. for all trim applications.
 - b. Double nail a maximum of 24" O.C. for fascia.
 - c. Do not nail into cut edge of material.
 - d. Nails must penetrate a minimum of 1 1/4" into framing member.
 - e. Fasten MiraTEC from one end to the other, do not nail towards the ends from center.
- C. Butt Joints
 - a. All joints must fall over a framing member.
 - b. Space all butt and scarf joints 1/8" and apply sealant into the full depth of the 1/8" joint.
 - c. Double nail on both sides of joint, at least 1/2" from the edge.
- D. Fasteners
 - a. Use nails with a 3/16" head diameter, long enough to penetrate 1 1/4" into structural framing member.
 - b. Use nails with performance equivalent to hot dipped galvanized or better (such as 304 SS).
 - c. Screws, ring shank nails, etc. can be used as long as they meet the same minimum performance criteria as above.
 - d. Tapered or bugle head fasteners are permitted when heads are properly seal from moisture.
 - e. Do not countersink fasteners more than 1/8". All slightly counter sunk fasteners less than 1/8" should be filled with exterior putty and painted.

- E. Flashing and Moisture Control
 - a. Do not apply trim to wet sheathing.
 - b. Do not apply trim closer than 6" to finished grade or landscaping.
 - c. Do not allow the trim to stand in water.
 - d. Do not allow direct contact with masonry or concrete. Properly flash and space a minimum of 1/2" from any concrete flatwork or horizontal brick ledge.
 - e. At foundations or brick veneer, the product should be separated from the masonry by metal flashing, polyethylene film, 30 lb. felt or a 1/4" to 1/2" air space using masonry standoffs.
- F. Sealant
 - a. Do not allow water to stand on or leak behind any trim.
 - b. Sealant is required at butt joints and where trim abuts siding, windows, doors, or other materials.
 - c. Do not use hard-setting caulk. Rather, use exterior quality sealants that remain flexible over time.
 - d. Caulks and sealants that at a minimum meet ASTM C920 are recommended.
- G. Machining
 - a. Do not machine or route the trim in excess of 5/16" depth.
 - b. Maintain a minimum angle of 100 degrees from the vertical to provide positive drainage.
 - c. Reprime all machined areas.

END OF SECTION