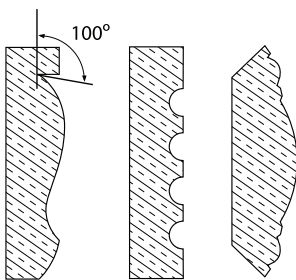


Extira Treated Exterior Panels are an exterior grade panel product that resists moisture, rot and termites. To achieve this, Extira panels are manufactured with phenolic resins and treated with the wood preservative zinc borate. Because Extira panels machine well, they are a great choice for exterior moulding and millwork applications.

MATERIAL SELECTION:

Extira panels are available in the following thicknesses: 1/2", 5/8", 3/4", 1" and 1 1/4". For exterior moulding and millwork applications, CMI does not recommend using the 1/2" product other than when it is mechanically fastened or laminated to another substrate.

CUTTING AND MACHINING:



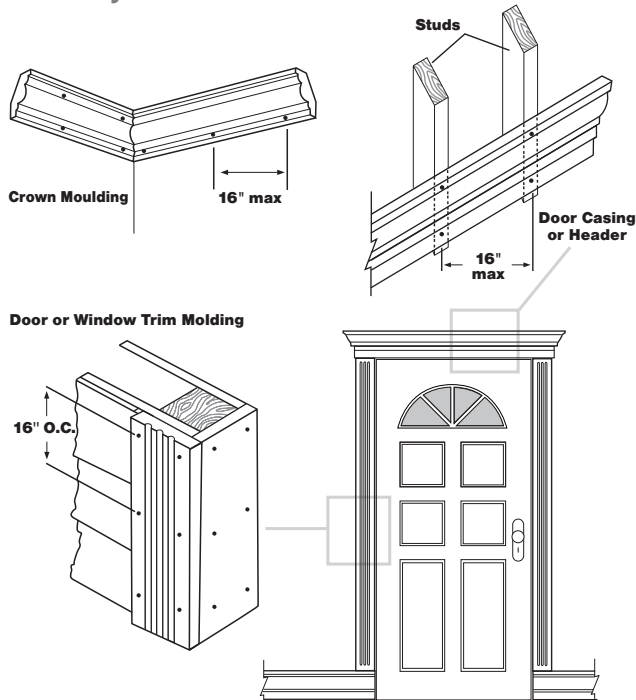
Use a fine-tooth hand saw or power saw with a combination blade. Cut into the exposed face of the material. Use only carbide-tipped or diamond-tipped blades with Extira panels. To produce decorative applications, rout, groove or machine Extira panels. The routed or grooved product should not have any surfaces where water can accumulate. Maintain an angle of at least 100 degrees from the vertical to provide positive

drainage and to best ensure that moisture does not accumulate on the material.

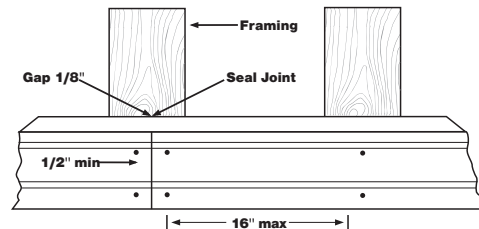
FASTENING REQUIREMENTS:

Extira panels are a nonstructural composite product and should not be used where structural lumber properties are required. Extira panels are designed to be applied to structural framing, sheathing and other structural materials.

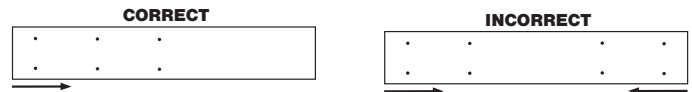
BUTT JOINTS:



All joints must fall over a framing member. For runs less than 30', butt joints should lightly touch. Space all butt and scarf joints over 30' 1/8" apart and apply flexible sealant into the full depth of the 1/8" joint. Joints must be double nailed on both sides as noted in the diagram below.



Note: Nail at least 1/2" from edge, but no more than 2" from edge. Do not nail into cut end of Extira panels. For fascia, Extira panels must be double nailed and fastened a maximum 24 inches-on-center. For all other applications, double nail 16" on center.



Fasten Extira panels from one end to the other end. DO NOT nail toward the center from both ends.

FASTENERS:

Use fasteners which are equal in performance (such as nail withdrawal, bending strength and corrosion resistance) to 6d or 8d nails with a 3/16" head diameter and long enough to penetrate 1/4" into structural wood studs or studs and sheathing material. Finish nails are allowed for runs of 8 feet or less, such as around windows, doors, and other smaller details. The finish nail should be equal in performance to 6d or 8d finish nails and long enough to penetrate 1/4" into structural wood and sheathing material. In all cases, use nails with corrosive resistance equivalent to hotdipped galvanized nails.

CONDITION	CORRECTION
Snug	OK
Flush	OK
Visible fiber	Paint
Counter sunk 1/16" - 1/8"	Exterior putty
Counter sunk more than 1/8"	Exterior putty & add nail

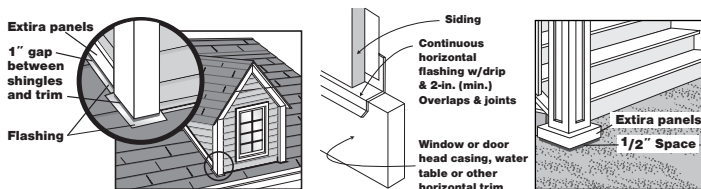
Power or pneumatic nailing systems may be used. Clipped headed nails are allowable such that the original head diameter is a minimum of 3/16". Any other fasteners used, such as screws or ring-shank nails, must meet the same minimum criteria. Tapered or bugle head fasteners are permitted when the heads are properly sealed from moisture.

Nail heads, or any other dents, can be filled with exterior grade spackling putty specifically designed for filling nail holes. Allow putty to dry, sand smooth with 100 grit sandpaper and spot prime before painting. Over time, spackling putty may need to be replaced or touched up.

Use a nail that is appropriate to the style of construction. Do not use staples, brads, or t-nails. Do not use finish nails on runs over 8 feet. Use of these fasteners will void the warranty.

FLASHING AND MOISTURE CONTROL:

The structure on which Extira panels are applied should be well ventilated and dry. Do not apply moulding over wet sheathing, or any closer than 6" to finished grade or final landscaping. As with all wood products, Extira panels should not come in direct contact with masonry or concrete. Properly flash and space at least 1/2" from any concrete flatwork (such as porches, patios, or driveways) or horizontal brick ledges. Flatwork should slope so water flows away from Extira panels. In all applications, Extira panels should not stand in water or have water accumulate near them. At foundations or exterior 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. For applications near rooflines when Extira panels are used as trim, such as dormers and chimneys, the trim should be installed with a minimum of 1" clearance between the roofing and the bottom edge of the trim. At the junction of the roofing material and vertical surfaces, flashing is required per the roofing manufacturers' application requirements and local building codes.



Seal the trim applications to prevent water intrusion. Do not allow water to stand on or leak behind any Extira panels used as trim. Extira panels used as trim in a horizontal application, including window and door headers, must be properly flashed in accordance with the siding manufacturers', window manufacturers', or door manufacturers' application requirements and local building codes.

SEALANT:

Sealant is required at butt joints and where Extira panels abut siding, windows, doors or other materials. Use only exterior quality sealant that remains flexible over time. Do not use hard-setting caulk. Apply caulk or sealant according to the manufacturer's written instructions. We recommend use of caulks and sealants that meet or exceed ASTM C920.

PAINTING/FINISHING REQUIREMENTS:

Extira panels are manufactured from wood and must be primed and painted with an exterior coating system in accordance with the following specifications to fulfill the Extira panel warranty requirements. Use a field finish system recommended by the paint manufacturer for use on a composite wood product. Always follow the paint manufacturer's recommendations for the application and maintenance of field-applied paints. Test the coating system on a small area of Extira panel first before finishing large pieces.

PRIMER AND PAINT APPLICATION:

1. The surface must be free of dust, dirt, mildew and other foreign materials before priming.
2. Prime and paint all exposed surfaces and field-cut edges, including the bottom edge of Extira panels using a high quality exterior oil/alkyd solvent based or acrylic latex primer recommended by the paint manufacturer for application over composite wood substrates.
3. **A total field-applied dry film paint thickness of a minimum of 4 mils is required on Extira panels.** This requires the application of a primer and two or more unthinned coats of topcoat at the spread rate recommended by the paint manufacturer:

Note: The paint manufacturer may require a specific primer and topcoat combination. Use of primer and/or topcoats should be determined according to the manufacturers recommendations.

CMI does not recommend using the following coatings:

Shake and shingle paints	Vinyl acrylic paint*
Vinyl acetate co-polymer paint	Vinyl acetate paint
Clear coatings	Flat oil paint
Transparent or semi-transparent stains	Opaque solvent stains

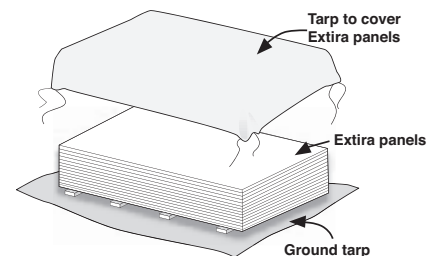
* Although vinyl acrylic exterior paints contain acrylic resin and may be readily available, they are generally of lower quality and will not last as long as 100% acrylic paints. If you are unsure, ask your paint supplier.

CMI is not responsible for the performance of finishes. Finish performance is dependent upon coating quality and application methods. These factors are controlled by the finish manufacturer and applicator.

STORAGE:

Cover when stored outside. Keep Extira panels off the ground and dry. Excessive moisture pickup from improper storage may affect the performance of Extira panels. Ensure the material is fully dry before installation.

For job site storage, Extira panels should be placed on stringers and stored on concrete, asphalt or a similar surface. For any other ground surface, a tarp should be placed over the ground cover under the stringers with Extira panels still under cover as show in the drawing at right.



IMPORTANT: Read and understand all application instructions before installing material. The statements expressed in this technical bulletin are the recommendations for the application of the products as outlined and illustrated under normal conditions of installation. CMI is a manufacturer of building materials. It does not practice architecture or engineering. The recommendations provided in this bulletin represent CMI's best judgement based on CMI's experience to date with normal applications. These instructions supplement standard building practices and building code requirements; they are not to be deemed exclusive or exclusionary of these practices and requirements. Unless prior approval is obtained in writing from the Product Performance Department of CMI, PO Box 311, Towanda, PA 18848, any deviation from these recommended procedures shall be at risk of the installers.

These application instructions are the minimum requirements for the storage, application, and finishing of the products manufactured by CMI. Where building code requirements or standards are more restrictive, the applicable regulations must be followed. Consult your local Representative or the Product Performance Department for conditions not covered by this bulletin. All drawings are shown for illustration purposes only and are not to scale. Adequate design and bracing of the walls, as well as compliance with these application instructions, are the responsibility of the architect, builder, applicator and painter.