

MIRATEC[®]
by JELD-WEN



SUPERIOR PERFORMANCE AND VALUE

MIRATEC PRODUCT INFORMATION, WARRANTY AND APPLICATION INSTRUCTIONS



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Unlike other materials used for trim these days, MiraTEC® is the one product actually conceived and engineered to do the job. Moisture, rot, termites, checking, splitting and cracking are all challenges it boldly takes head-on and crushes. As the first wood composite trim to earn an evaluation report (ESR-3043) from ICC-ES and 14015-L from the CCMC, MiraTEC simply performs to a standard other composite trim products cannot. Not by chance, but by design.

NO OTHER TRIM PERFORMS LIKE MIRATEC

- Resists moisture, rot and termites.
- Reversible with a woodgrain texture on one side and a smooth surface on the other.
- Handles like wood; easy to machine, cut and nail.
- Won't check, split or crack.
- TEC™ patented manufacturing process makes MiraTEC a solid board that has uniform properties throughout for consistent performance in every piece.
- Primed 4 sides with an ultra-low VOC, primer containing a mildewcide.
- 50-year limited warranty.



ANYONE CAN TALK PERFORMANCE; MIRATEC PROVES IT

- ✓ Moisture resistant: As measured by ASTM D1037 for Water Absorption and Thickness Swelling.
- ✓ Rot resistant: Tested per AWPA E16 Field Test for Evaluation of Wood Preservatives to be Used Out of Ground Contact: Horizontal Lap-Joint Method.
- ✓ Termite resistant: Tested per AWPA E7 Standard Method of Evaluating Wood Preservatives by Field Tests with Stakes.



CCMC 14015-L

BUILDING CODE LISTED

U.S.: ESR-3043 from the ICC-ES and FL Building Code 22271

Canada: 14015-L from the CCMC



IN HEAD-TO-HEAD COMPETITION, IT'S NO CONTEST

MIRATEC VS. PRIMED WOOD TRIM

- Resists moisture, rot and termites – unlike wood.
- Won't warp, split or check – unlike wood.
- One solid piece with uniform density and consistent performance in every piece.
- Low maintenance; 50-year limited warranty.

MIRATEC VS. PVC TRIM

- Made from sustainable materials and renewable resources.
- Better value and costs up to 50% less than PVC.
- Accepts all shades of paint beautifully and is not prone to thermal expansion.

MIRATEC OUT PERFORMS LP IN LONG TERM PERFORMANCE TESTING

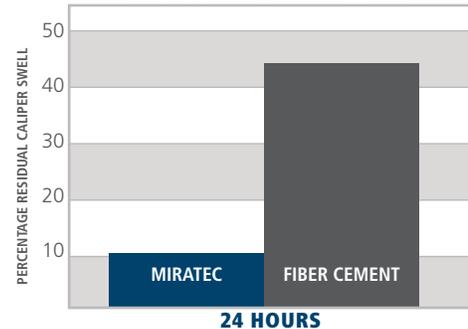
- LP SmartSide is a scant product – up to 16.7% thinner than a full 4/4 trim.
- Smaller reveal when used with traditional lap siding.
- LP SmartSide is a laminated product.
- MiraTEC technology enables better performance – steam injection creates a board with uniform properties in each piece.
- MiraTEC can be machined/routed for decorative use.



MIRATEC VS. FIBER CEMENT TRIM

- Better performance and usability than fiber cement trim, at a better value.
- Handles like wood; no special tools and techniques required.
- More authentic woodgrain texture.
- Highly resistant to moisture. Independent tests show fiber cement absorbs 5X more water.¹
- MiraTEC is not brittle, or difficult to stack and move on the job site.
- 100% silica free, a known carcinogen.
- 50-year limited warranty for all product; fiber cement warranties vary by climate.

MIRATEC ABSORBS LESS WATER THAN FIBER CEMENT TRIM¹

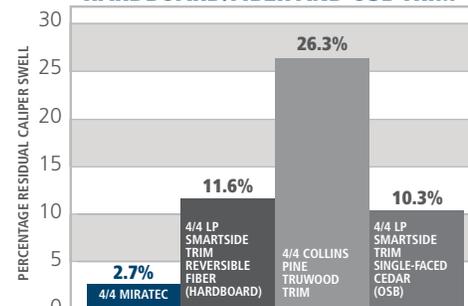


MIRATEC VS. HARDBOARD/FIBER AND OSB TRIM

- MiraTEC 5/8" compares to the 440 Series.
- MiraTEC 1" (5/4) compares to the 540 Series.
- MiraTEC performs 9X better in third party weatherability testing.²
- MiraTEC is one single piece; it is not laminated.
- MiraTEC is reversible, providing design flexibility.



WEATHERABILITY TEST PROVES MIRATEC PERFORMS BETTER THAN HARDBOARD/FIBER AND OSB TRIM³



¹TEST PERFORMED BY STORK TWIN CITY TESTING CORPORATION

²TEST PERFORMED BY FORINTEK.

³SOURCE: TEST PERFORMED BY FPINNOVATIONS.

FOR DETAILS OF EITHER TEST EMAIL MIRATEC-TESTDETAILS@JELDWEN.COM



SIZE MATTERS

5/8" ACTUAL THICKNESS

Compare to 440 Series and other scant 3/4" products

2" MIRATEC
BATTEN

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
2" x 192"	2"	12	336
3" x 192"	2 3/4"	8	320
4" x 192"	3 1/2"	8	240
5" x 192"	4 1/2"	8	200
6" x 192"	5 1/2"	4	160
8" x 192"	7 1/4"	4	120
10" x 192"	9 1/4"	4	100
12" x 192"	11 1/4"	4	80
16" x 192"	15 1/2"	2	60

3/4" ACTUAL THICKNESS (4/4 Nominal)

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
2" x 192"	2"	12	336
3" x 192"	2 3/4"	8	320
4" x 192"	3 1/2"	8	240
5" x 192"	4 1/2"	8	200
6" x 192"	5 1/2"	4	160
8" x 192"	7 1/4"	4	120
10" x 192"	9 1/4"	4	100
12" x 192"	11 1/4"	4	80
16" x 192"	15 1/2"	2	60

1" ACTUAL THICKNESS (5/4 Nominal)

Compare to 540 Series and other similar products

2" MIRATEC
BATTEN

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
2" x 192"	2"	9	252
3" x 192"	2 3/4"	6	240
4" x 192"	3 1/2"	6	180
5" x 192"	4 1/2"	6	150
6" x 192"	5 1/2"	3	120
8" x 192"	7 1/4"	3	90
10" x 192"	9 1/4"	3	75
12" x 192"	11 1/4"	3	60
16" x 192"	15 1/2"	2	42

1-1/4" ACTUAL THICKNESS (6/4 Nominal) Smooth Both Sides

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
4" x 192"	3 1/2"	4	144
6" x 192"	5 1/2"	3	96
8" x 192"	7 1/4"	3	72
10" x 192"	9 1/4"	3	60
12" x 192"	11 1/4"	3	48



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NO TRIM IS FRIENDLIER TO THE ENVIRONMENT

SUSTAINABLE MATERIALS

- No old growth wood is used in the manufacture of MiraTEC trim. It is made from wood that has no commercial timber value and is the byproduct of other operations. This leftover wood is also detrimental to the overall vitality of the forest.

>> All wood comes from an area within a 150-mile radius of the Towanda, PA production facility.

>> JELD-WEN[®] uses 100% northern hardwoods, which include maple, beech, oak and other species.

- MiraTEC trim is treated with zinc borate, an EPA-registered biocide and a naturally occurring earth mineral that is environmentally safe and ensures protection against termites.

NO ADDED UREA FORMALDEHYDE

- MiraTEC trim has no added urea formaldehyde. This is certified by Scientific Certification Systems under certificate number SCS-NAUF-01802.
- Through repeated testing by the Composite Panel Association (CPA), MiraTEC trim has demonstrated formaldehyde emissions equivalent to background levels found in the environment.

COMPLIES WITH CARB

- MiraTEC trim is acknowledged by the California Air Resources Board's (CARB) Airborne Toxic Control Measure (ATCM) 93120 to utilize exempt status ultra-low emitting formaldehyde (ULEF) resins.

LOW VOC PRIMER

- Primed 4 sides with an ultra-low VOC primer containing a mildewcide.

CONTRIBUTES TO GREEN BUILDING PROGRAMS

- MiraTEC trim contributes to industry programs such as LEED and the National Green Building Standard.[™]



LIMITED WARRANTY

Effective January 1, 2016 to Current



MiraTEC® Treated Exterior Composite Trim Limited Warranty

This limited warranty is effective for all MiraTEC® Treated Exterior Composite Trim Products¹ manufactured on or after January 1, 2016 for use in the United States and Canada. Any previous warranties will continue to apply to products sold under the MiraTEC name prior to this date. For additional information, including care and maintenance information, refer to www.miratecextira.com.

What This Limited Warranty COVERS...

Fifty Year Limited Warranty for MiraTEC Products

We warrant to the original owner², and to two subsequent owners, that if your MiraTEC Product exhibits hail damage, delamination, decomposition of the substrate due to fungal growth, termite damage causing failure of the Product, splitting or cracking of the substrate face, buckling, excessive warping or swelling of the Product, caused by a defect in material or workmanship within **fifty (50) years** of the date of original purchase, we will pay for the replacement of the Product, limited to **twice the original purchase price*** of the failed Product according to the following schedule: We will cover refinishing costs of replacement materials when MiraTEC is found to be defective. Verification of purchase of prefinished material is required.

Up to and including the 5th anniversary of the purchase date (Years 0-5)	200%
Years 6-10	180%
Years 11-15	160%
Years 16-20	140%
Years 21-30	120%
Years 31-40	80%
Years 41-50	40%
After the 50th anniversary of the purchase date	0%

*Refinishing costs are excluded from doubling.

Transferability: This limited warranty is transferable up to two times to subsequent owners of the structure in which the Product is installed.

How to Get Assistance...

If you have a problem with your MiraTEC Product, immediately upon discovery, contact the distributor or dealer from whom you purchased our product or contact us directly:

Mail: MiraTEC Limited Warranty Claims
909 Pinder Avenue
Grinnell, IA 50112

Phone: 888-594-3578

We can respond quickly and efficiently if you provide the following: a) date and location of purchase, b) how to contact you, c) the address where the product can be inspected, and d) a description of the apparent problem and the product (photographs are helpful).

What We Will Do...

Upon receiving your notification, we will send out an acknowledgment, usually within three business days of receipt to the contact identified. We will investigate your claim and will begin to take appropriate action within 30 days after receipt of notification. If your limited warranty claim is denied, we may charge an inspection fee for an on-site inspection that is required or requested by you.

If your claim is accepted, and we choose to repair or replace the Product or a component of the Product, the replacement Product/component will be provided in the same specification as the original Product. For factory prefinished Products replaced beyond 15 years after the purchase date, we will provide a primed replacement Product. Replacement Products, components and services are warranted for the balance of the original product or service limited warranty, or 90 days, whichever is longer.

What This Limited Warranty Does NOT Cover...

We are not liable for damage, product failure or poor product performance due to:

- Normal wear and tear, and natural weathering of surfaces or variations in the color or texture of field-finished coating; surface cracks that are less than 1/32" in width and/or 1" in length.

- Exposure to chemicals (e.g. brick wash), a harsh environment (e.g., airborne pollutants, or prolonged contact with or immersion in liquid water), or direct contact with soil.
- Misuse, abuse or failure to properly store, handle, finish and provide maintenance for the Product.
- Alteration or modification of the Product.
- Any cause beyond our reasonable control (e.g. fire, flood, earthquake, other acts of nature, and acts of third parties outside of our control).
- Problems related to: improper field finishing of all exposed surfaces and edges of the Product (See our instructions at www.miratecextira.com); variation or unsatisfactory results in sheen or texture resulting from the field application of paint or any other coating material.
- Warp or buckling less than ¼" per linear foot; warp due to movement of any underlying materials or structures to which the Product is attached.
- Flaws in structural design and construction; installation into a condition that exceeds product design standards and/or is not in compliance with building codes.
- Hardware or accessories that are not provided by us.

We are also not liable for:

- Cost for labor, removal or disposal of defective product(s), freight, taxes or any other charge related to a failed product, installation or finishing of replacement panels.
- Incidental or consequential damage. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so this may not apply to you.

Important Legal Information -- Please read this carefully. It affects your rights.

This Limited Warranty document sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified above. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and fitness for a particular purpose to the original purchaser or to any subsequent user of the Product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim thereon shall be the same as, that provided in the express limited warranty stated herein. This Limited Warranty document gives you specific legal rights, and you may have other rights that vary from state/province to state/province.

Any dispute, controversy or claim arising out of or relating to this limited warranty, any alleged breach thereof, or the use or sale of the products to which this limited warranty applies shall be resolved by mandatory and binding arbitration administered by the American Arbitration Association in accordance with its commercial arbitration rules. Original purchaser agrees that they may assert claims against JELD-WEN in their individual capacity only, and not as a plaintiff or class member in any purported class action proceeding. The limited warranty provision herein shall be interpreted in accordance with the laws of Oregon (excluding Oregon's conflict of laws principles). If any provision of this limited warranty is held illegal or unenforceable in a judicial proceeding, such provision shall be severed and shall be inoperative, and the remainder of this limited warranty shall remain operative and binding on the Parties. Rejection of these dispute resolution provisions must be sent to JELD-WEN at the address provided herein within thirty (30) days of original purchaser's receipt of the Products to which this limited warranty applies.

No distributor, dealer or representative of MiraTEC Products has the authority to change, modify or expand this limited warranty. The original purchaser of this Product acknowledges that they have read this limited warranty, understand it, and are bound by its terms and agrees to provide this limited warranty to the original owner of the structure into which the Product is installed.

1 "MiraTEC Products" shall refer to treated exterior composite trim manufactured and marketed by JELD-WEN under the MiraTEC brand name for use in the United States and/or Canada.

2 This limited warranty extends to the original owner (original owner means the contractor/dealer/distributor/purchaser and the initial owner of the structure where the product is initially installed) and is transferable to two subsequent structure owners. The original purchaser of this product acknowledges that they have read this limited warranty, understand it and are bound by its terms and agrees to provide this limited warranty to the original owner of the structure into which the product is installed.

IMPORTANT HOMEOWNER MAINTENANCE & LIMITED WARRANTY INFORMATION



JELD-WEN manufactures premium, long lasting, exterior wood composite MiraTEC Trim. The products have been engineered to provide years of satisfaction and performance when properly maintained. To ensure compliance with the provisions of the MiraTEC Limited Warranty the following Homeowner Maintenance must be performed.

AN ANNUAL INSPECTION OF THE TRIM TO INCLUDE THE FOLLOWING:

- 1) Condition of Caulk and Sealant:** Loose and cracked caulk or sealant must be removed and replaced with a good quality, polyurethane sealant. Do not use hard-setting caulk.
- 2) Presence of Mildew:** Mildew is a living organism (fungus) that grows on the surface of finishes giving the paint a darkened, dirty appearance. Do not paint over mildew without cleaning the MiraTEC Trim with a mildew cleaning solution. Mildew cleaning solutions, available at local paint, lumber and hardware stores, will help retard and control this growth. The control of mildew on the surface of MiraTEC Trim is a homeowner responsibility. JELD-WEN, Inc. will assume no responsibility for the treatment or prevention of mildew.
- 3) Condition of Painted Trim:** MiraTEC Trim are manufactured from wood and are primed. MiraTEC Trim must be painted with an exterior coating designed for use on wood trim. Periodic washing of factory-finished or field painted MiraTEC Trim with water and mild detergent will remove accumulated dirt. The condition of the paint must be inspected and maintained as noted in the following table.

CONDITION OF PAINT	ACTION REQUIRED
Good condition/unbroken	Clean and remove dirt
Thin, but unbroken finish	Clean and apply two topcoats
Badly eroded, substrate showing	Clean, prime, apply two topcoats
Crack, flaking, substrate exposed	Remove loose paint film, clean, prime, and apply two topcoats

FINISH SELECTION:

PRIMER – Use an exterior oil or water based primer formulated for use on wood composite products which will seal the surface and is compatible with the topcoat finish to be applied.

TOPCOATS – Use low or non-chalking exterior acrylic latex paint, low chalking acrylic or acrylic heavy bodied latex stain, or gloss or semi-gloss oil base paint. All exposed MiraTEC Trim surfaces, including the bottom edges, must be well coated.

Do not use shake and shingle paints, flat oil or flat alkyd paints, vinyl acetate (PVA) vinyl acrylic, or vinyl acetate-acrylic copolymer paints, oil base transparent or opaque stains.

Due to variables involved in field application of finishes, JELD-WEN cannot be responsible for the performance of field-applied coatings.

- 4) Water Drainage/Diversion:** Allowing water from roofs and sprinklers to run down the surface of the MiraTEC Trim can cause discoloration and accelerated erosion of the paint. Locate landscape sprinklers so that water will not hit the MiraTEC Trim.

Appropriate action(s) must be taken to remedy any of the above noted conditions or we may deny warranty claims for any resulting damage.

APPLICATION INSTRUCTIONS



GENERAL INFORMATION: MiraTEC was conceived and engineered to resist moisture, rot and termites, so it is perfect for exterior non-structural applications. It handles like wood and MiraTEC is a reversible product with woodgrain texture on one side and a smooth surface on the other while MiraTEC Smooth Select has an ultra smooth finish. Plus, MiraTEC is building code compliant in the U.S. (ESR-3043 from the ICC-ES), Florida Building Code 22271, and in Canada (CCMC 14015-L from the Canadian Construction Materials Centre). It is the responsibility of the purchaser, general contractor, installer and others who are using or installing this product to assure that the product is installed properly and that all building codes and industry standards regarding the installation and use of composite wood trim products are followed.

CUTTING:

Use a fine-tooth hand saw or power saw with a combination blade. Cut into the exposed face of the material. Carbide-tipped blades are recommended.

FASTENING REQUIREMENTS:

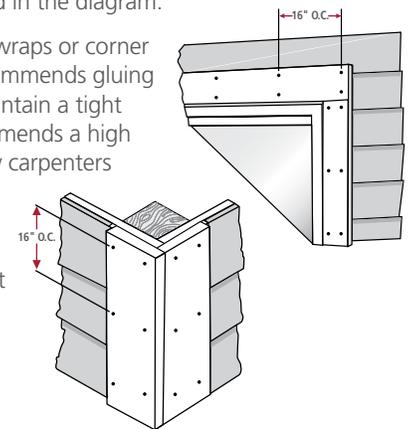
MiraTEC trim is a non-structural decorative trim product and should not be used where structural lumber properties are required. MiraTEC trim is designed to be applied to structural framing, sheathing and other materials.

*** Note:** Nail at least 1/2" from the edge. Do not nail into the edges of MiraTEC trim. For 4/4 and 5/4 fascia and soffit applications, MiraTEC trim can be fastened directly to the rafter ends, double nailed a maximum of 24" on center. For 5/8" fascia and soffit applications, MiraTEC trim must have a sub-fascia and be nailed 16" on center to the rafter ends or sub-fascia. For all other horizontal and vertical applications, double nail 16" on center, falling on the studs. MiraTEC Smooth Select must be applied with the grooved side facing in.

BUTT JOINTS:

All joints must fall over a framing member. MiraTEC trim can be mitered, scarfed, or beveled as required. Use caulk or sealant on all field cut and raw ends for butt, mitered, scarfed or beveled joints. For runs less than 30 feet in length, butt joints should lightly touch. For runs over 30 feet in length, space all butt and scarf joints 1/8" apart and apply sealant into the full depth of the 1/8" joint. Double nail all joints on both sides as noted in the diagram.

When mitering for column wraps or corner boards, JELD-WEN, Inc. recommends gluing the edges of the trim to maintain a tight joint. JELD-WEN, Inc. recommends a high quality exterior grade yellow carpenters glue or high quality polyurethane adhesive. Lightly ease the edge of the finished corner with 220 grit sand paper for best paint adhesion.



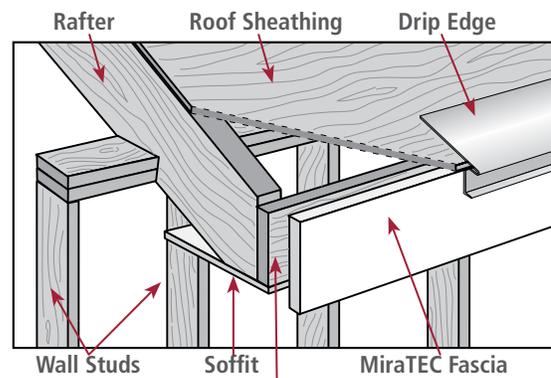
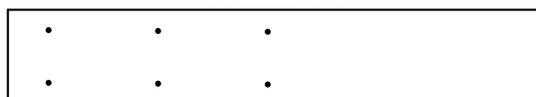
DO NOT nail toward the center from both ends.

INCORRECT

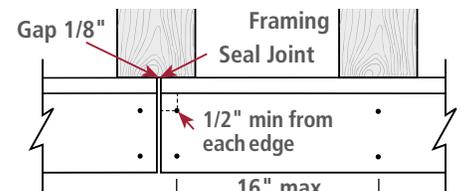
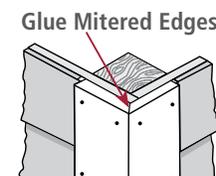


Fasten MiraTEC trim from one end to the other end.

CORRECT



Subfascia is recommended in regions of high humidity or extreme humidity changes and required when using 5/8" MiraTEC trim



Double nail on both sides of butt joint

FASTENERS:

Always use fasteners appropriate to the style of construction where the trim is installed. Fasteners must be equal or better in performance (such as nail withdrawal, bending strength and corrosion resistance) to 6d or 8d 16 gauge finish nails or headed nails, long enough to penetrate 1-1/4" into structural wood studs or studs and structural sheathing material. Use corrosion resistant nails. For buildings utilizing steel studs, use ET&F fasteners: AST-075 for 4/4 MiraTEC and AST-100 for 5/4 MiraTEC. For installations near oceans, large bodies of water or in high humidity climates, JELD-WEN, Inc. recommends using stainless steel fasteners on MiraTEC trim. For these installations, do not use electro-galvanized fasteners, due to poor long term rust resistance. For specific questions related to these installations, please consult directly with JELD-WEN, Inc. by sending an email to miratec@jeldwen.com.

Power or pneumatic nailing systems may be used. 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. For the best aesthetic appearance when using the smooth side of MiraTEC trim, additional work is required. The nails should be set flush or slightly countersunk (not to exceed 1/8"). Then apply the spackling putty as outlined above. Reapply the putty as needed for desired appearance.

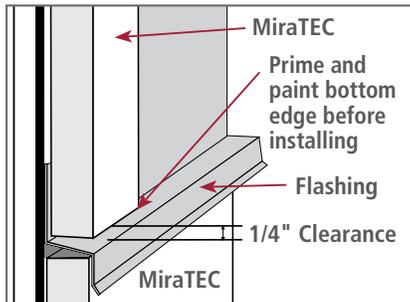
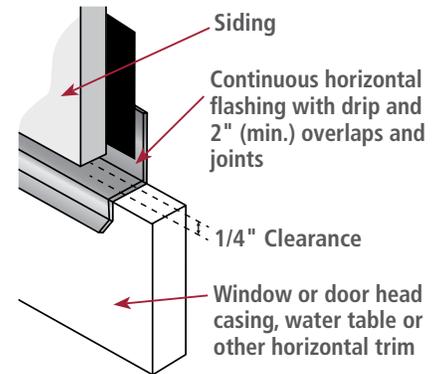
Use a nail that is appropriate to the style of construction. Do not use staples, brads, or t-nails.

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

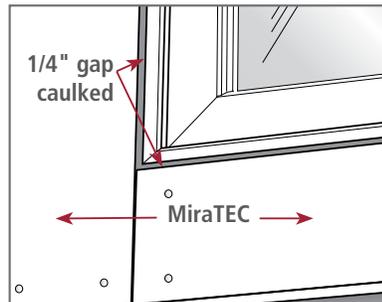
FLASHING AND MOISTURE CONTROL:

The structure on which MiraTEC trim is applied should be well ventilated and dry. Do not apply MiraTEC trim over wet sheathing, or any closer than 6" to finished grade such as flower beds, mulch, or final landscaping per local building codes. As with all wood products, MiraTEC trim should not come in direct contact with masonry or concrete. At foundations, decks, flooring, exterior brick veneer or other materials, the product should be separated from the surface by metal flashing, polyethylene film, 30 lb. felt or a 1/4" air space using masonry standoffs. In all applications, MiraTEC trim should not be allowed to stand in water or sit directly on another surface, regardless of the material.

Seal the trim applications to prevent water intrusion. Do not allow water to stand on or leak behind any MiraTEC trim. MiraTEC trim used 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.

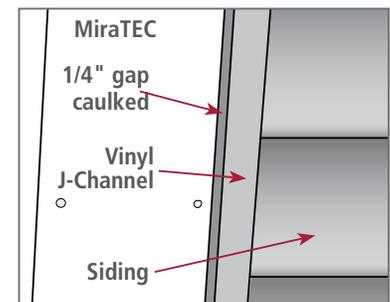


When vertical trim meets flashing at the top of trim or siding, provide a 1/4" clearance from the bottom of the trim to the top of the flashing.



Windows:

Maintain a min 1/4" gap and fill with caulk where the MiraTEC butts against windows. If the window installation instructions call out a different gap, then default to their published instructions.



Vinyl J-Channel:

Maintain a min 1/4" gap and fill with caulk where the MiraTEC butts against vinyl j-channel. This applies for both vertical and horizontal applications of trim and j-channel.

APPLICATION INSTRUCTIONS



ADHESIVES:

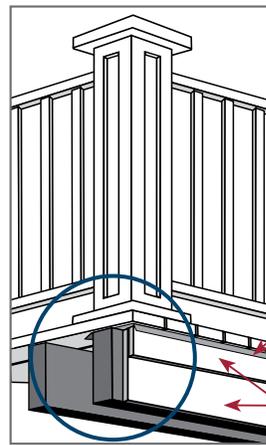
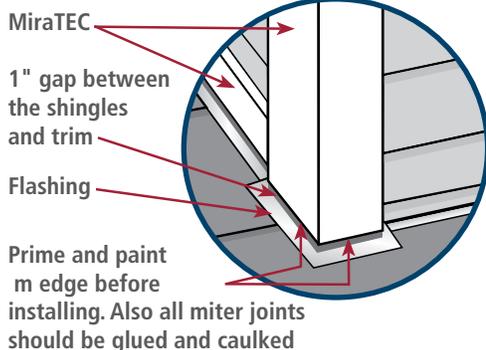
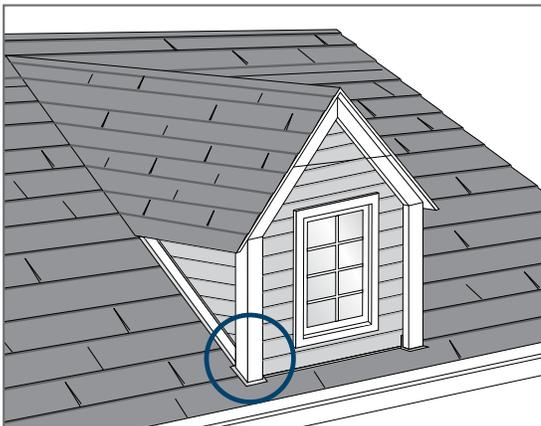
Glues or adhesives can be used on MiraTEC trim, such as on mitered joints for outside corners or column wraps. JELD-WEN, Inc. recommends a high quality exterior grade yellow carpenters glue or a high quality polyurethane adhesive. For a full listing of recommended adhesives go to miratecextira.com.

SEALANT:

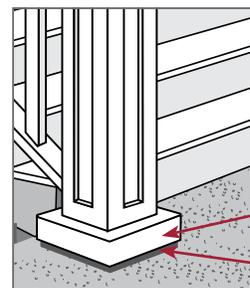
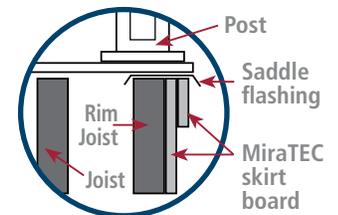
Sealant is required at all joints and where MiraTEC trim abuts siding, windows, doors, other materials or other MiraTEC product. Use only exterior quality sealant that remains flexible over time. Do not use hard-setting caulk. Apply caulk according to the manufacturer's written instructions. JELD-WEN, Inc. recommends caulks and sealants that meet ASTM C920. Do not use Bondo® or similar hard setting fillers or putties on MiraTEC trim. They will crack over time due to the natural expansion and contraction of the trim. The purchaser, general contractor, installer and others who are using or installing this product are responsible for insuring that a proper caulk joint is installed that is compliant with the local building code, industry standards and to insure that it coats the full depth of any joints. For a full listing of recommended sealants go to miratecextira.com.

OTHER APPLICATIONS:

For applications near rooflines, such as dormer and chimneys, the trim should be installed with a minimum of 1" clearance between the roofing and the bottom edge of MiraTEC trim. At the junction of the roofing material and vertical surfaces, flashing is required per the roofing manufacturers' application requirements and local building codes.



When facing the skirt boards on deck, properly flash the top edge to prevent water from getting behind the trim. As a substitute for flashing, use 1/2" standoffs to provide a space behind the backside of the trim and the deck joint.



Properly flash and space at least 1/2" from any flatwork (such as porches, patios, decks, or driveways) or horizontal brick ledge. Prime and paint bottom edge before installing. Also all miter joints should be glued and caulked.



MiraTEC trim can be used to make decorative shutters. The shutter must be fastened to the home a minimum of 24" on center around the perimeter of the shutter as shown in the illustration. Working shutters will not be covered by the MiraTEC limited warranty based on the inability of providing adequate fastening on the non-hinge side of the shutter.

INTERIOR USE:

Any MiraTEC used for interior applications must first be “climatized” prior to installation. “Climatization” involves stacking the MiraTEC in the room environment which they are going to be installed for at least 48 hours prior to installation. Ideally, it should be separated to allow air to circulate.

SURFACE PREPARATION:

The surface to be painted must be free of dust, dirt, mildew and other foreign materials before painting. Wash with water and a mild detergent to remove dust and dirt. Allow the surface to dry before painting. If mildew is present, contact a paint supply store for recommended methods of removing and controlling mildew.

PAINTING/FINISHING REQUIREMENTS:

MiraTEC trim is manufactured from wood and must be painted with an exterior coating system in accordance with the following specifications to fulfill the limited warranty requirements.

Use a high quality exterior grade acrylic latex paint or oil/alkyd solvent based paint system recommended by the paint manufacturer for application over composite wood substrates. Always follow the paint manufacturer’s recommendations for the application and maintenance of field applied paints. The following topcoats are not recommended by JELD-WEN, Inc. nor most paint manufacturers because of short service life, poor protection against UV light, and higher potential for performance problems:

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

Paint performance is dependent upon the quality and quantity of paint applied, and the conditions under which it is applied. Low quality paint and/or thinly applied paint tends to last for a relatively short time, resulting in discoloration, premature fading, inadequate substrate protection, and frequent repainting (sometimes as often as annually or once every two years). Top quality paint, applied in sufficient quantity, will provide the best performance with minimum maintenance. **Follow the coating manufacturer’s recommendations when selecting and applying a paint. Refer to the MiraTEC trim limited warranty for long term care and maintenance guidelines of MiraTEC trim.**

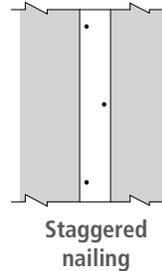
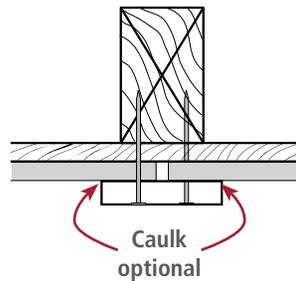
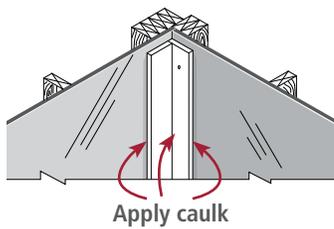
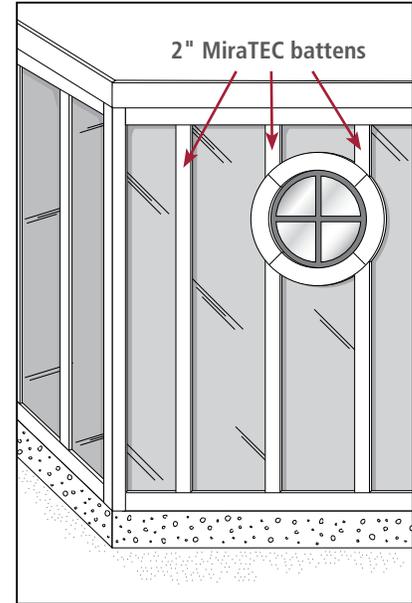
APPLICATION INSTRUCTIONS



BOARD AND BATTEN APPLICATION:

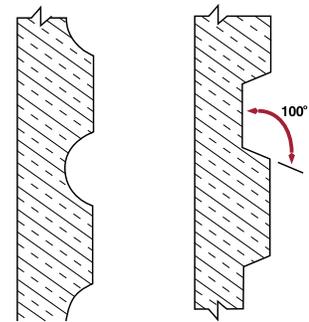
MiraTEC trim is not approved for use as a cladding or siding product. However, the 2" MiraTEC batten product is acceptable for use in a board and batten application. 2" MiraTEC batten can be applied directly on top of the board material, including but not limited to: fiber cement products, composite wood, and other wood products.

- Battens should fall over framing members. The required nailing pattern is single nails 12" on center, staggered pattern. Nails should be of sufficient length to have 1 1/4" penetration into the framing member.
- Vertical battens do not need to be caulked. The board butt joint behind the batten should be treated per the siding manufacturers' recommendations.
- Battens can also be screwed into boards and sheathing over framing members. Screw type should be a minimum of a 6 mm head with full thread penetration into the board or minimum of 3/4" into the framing member. The required screw pattern is single screws 12" on center, staggered pattern.
- A combination of nails and glue can also be used to fasten 2" MiraTEC batten.
- Treat all other applications per the full MiraTEC Application Instructions, such as inside and outside corners, butt joints and horizontal applications.



MACHINING:

MiraTEC trim can be grooved or machined to produce a variety of decorative applications. The machined profile should not compromise the physical integrity of the board or induce cracking or splitting of the product. Routed or grooved MiraTEC trim should not have any flat surfaces where water can accumulate. Maintain an angle of at least 100 degrees from the vertical to provide positive drainage and to prevent moisture from standing on the surface. Re-prime and paint all machined areas with a high quality exterior oil or acrylic latex primer formulated for composite wood and paint that meets the requirements set forth under the Painting/Finishing requirements section of these instructions.

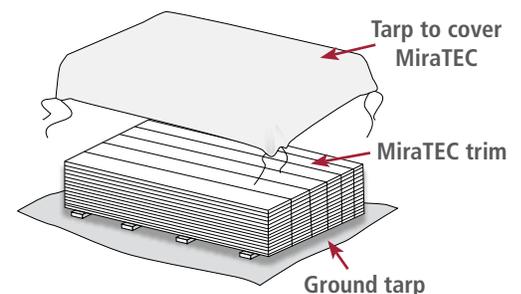


Examples of machining

STORAGE:

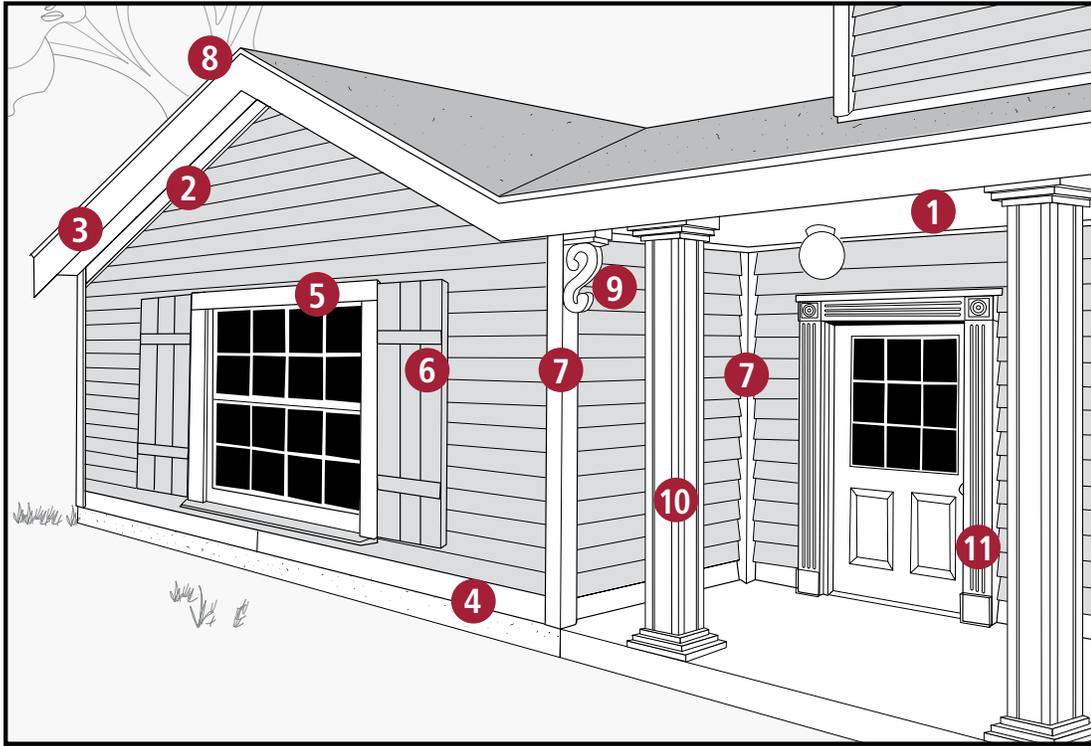
Cover when stored outside. Keep MiraTEC trim off the ground and dry. Excessive moisture pickup from improper storage may affect the performance of MiraTEC trim. Do not stack material in excess of 3 units high.

For job site storage, the material should be placed on stringers and covered, preferably on concrete, asphalt, or a similar surface. For all other instances, a tarp should be placed over the ground cover under the stringers, with the material still under cover.



TYPICAL TRIM USES:

MiraTEC trim can be used in a variety of applications as noted below.



- 1 Soffit
- 2 Frieze board
- 3 Fascia
- 4 Belly band or band board
- 5 Window trim
- 6 Shutter
- 7 Corner board
- 8 Rake board or shingle mold
- 9 Architectural porch detail
- 10 Column wrap
- 11 Fluted door casing

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. JELD-WEN, Inc. is a manufacturer of building materials. It does not practice architecture or engineering. The recommendations provided in this bulletin represent JELD-WEN, Inc.'s best judgement based on its 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 JELD-WEN, Inc., PO Box 311, Towanda, PA 18848, any deviation from these recommended procedures shall be at the risk of the installers and may cause damage to the product itself.

These application instructions are the minimum requirements for the storage, application, and finishing of the trim products manufactured by JELD-WEN, Inc. If any surface is inadequately primed and painted or otherwise failed to be properly flashed, caulked or otherwise protected from continual moisture exposure, as set forth in the guidelines, it may lead to water intrusion and potential early deterioration or compromise of the product. JELD-WEN cannot anticipate the myriad of building conditions upon which its product may be installed. Where building code requirements or standards require additional care, steps, protection or procedures, the applicable regulations must be followed. If there is a discrepancy between these guidelines and any applicable building code requirements or standards or you encounter conditions not covered by this bulletin, you must consult with a building construction professional and may also contact the Customer Care Department of JELD-WEN. 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.



WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.



MIRATEC[®]
by JELD-WEN
SMOOTH SELECT[™]



RAISING THE BAR FOR ULTRA SMOOTH TRIM

Of course, MiraTEC[®] Smooth Select[™] feels smooth to the touch. But what sets it apart are the clean, refined lines it brings to any exterior coupled with the beauty of unmatched performance.

Yes, it still takes on and crushes challenges like moisture, rot, termites, checking, splitting and cracking. And it continues to be the first wood composite trim to earn an evaluation report (ESR-3043) from ICC-ES. MiraTEC Smooth Select simply delivers all this rugged durability with an elevated level of style and refinement. Proving conclusively that one does not need to look tough to be tough.

MiraTEC Smooth Select blends proprietary technology and an innovative process to achieve a spectacular standard in aesthetics.

- Resists moisture, rot and termites
- 50-Year Limited Warranty
- Building code listed; ESR-3043 from ICC; FL Building Code 22271 and in Canada (14015-L from the CCMC).
- Ultra smooth surface, both sides with nearly square edge
- Available in 16' lengths, 2 thicknesses and 9 widths

3/4" ACTUAL THICKNESS (4/4 Nominal)

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
2" x 192"	2"	12	336
3" x 192"	2 3/4"	8	320
4" x 192"	3 1/2"	8	240
5" x 192"	4 1/2"	8	200
6" x 192"	5 1/2"	4	160
8" x 192"	7 1/4"	4	120
10" x 192"	9 1/4"	4	100
12" x 192"	11 1/4"	4	80
16" x 192"	15 1/2"	2	60

2" MIRATEC BATTEN

1" ACTUAL THICKNESS (5/4 Nominal)

Compare to 540 Series and other similar products

SIZE		16' PIECES	
NOMINAL	ACTUAL	BUNDLE	UNIT
2" x 192"	2"	9	252
3" x 192"	2 3/4"	6	240
4" x 192"	3 1/2"	6	180
5" x 192"	4 1/2"	6	150
6" x 192"	5 1/2"	3	120
8" x 192"	7 1/4"	3	90
10" x 192"	9 1/4"	3	75
12" x 192"	11 1/4"	3	60
16" x 192"	15 1/2"	2	42

2" MIRATEC BATTEN



NOTHING'S GREENER

- Unlike wood and PVC, MiraTEC is made from sustainable materials.
- Unlike fiber cement, MiraTEC is silica-free. Silica is a known carcinogen.
- MiraTEC has no added urea formaldehyde; complies with CARB.
- Contributes to LEED.

 CCMC 14015-L	BUILDING CODE LISTED
	U.S.: ESR-3043 from the ICC-ES and FL Building Code 22271
	Canada: 14015-L from the CCMC



BEYOND ITS SMOOTH APPEARANCE, MIRATEC HAS A TOUGH SIDE

HAMMERS PVC... MiraTEC is kind to the environment, performs great in any color and is a better value.

SLAMS Primed Wood... MiraTEC outlasts and outperforms wood, with a 50-year limited warranty to prove it.

CRUSHES Fiber Cement... MiraTEC resists moisture better, handles like wood, is offered in 16' lengths and is a greater value.

PULVERIZES Hardboard/Fiber and OSB... MiraTEC is 9 times more durable!

Third party test details available upon request at miratec-testdetails@jeldwren.com.



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