

THE TEC PROCESS

HOW MIRATEC® IS MADE



MIRATEC®
by JELD-WEN





NO TRIM IS FRIENDLIER TO THE ENVIRONMENT

MiraTEC trim is made from sustainable material:

- No old growth wood is used.
- The wood that is used has no commercial value and is the byproduct of other operations.

MiraTEC is certified by Scientific Certification Systems – a global leader in independent certification and verification of environmental, sustainability and stewardship claims – to contain no added urea formaldehyde.

In addition, MiraTEC trim is acknowledged by the California Air Resources Board's Airborne Toxic Control Measure 93120 and as well as EPA TSCA Title VI to utilize exempt status, ultra-low emitting formaldehyde resin.

MiraTEC trim also contributes to industry programs such as LEED® and the National Green Building Standard®.



CCMC 14015-L

Building code compliant in the U.S. (ESR-3043 from the ICC-ES and FL Building Code 22271) and in Canada (14015-L from the CCMC).





MiraTEC® treated exterior composite trim combines eye-catching beauty and style with the best in manufacturing technology to produce trim boards that deliver exceptional value and performance:

- Resists moisture, rot and termites.
- Handles like wood; easy to machine, cut and nail.
- Won't check, split or crack.
- TEC™ patented process makes MiraTEC a solid board that has uniform properties throughout.
- Primed 4 sides with an ultra-low VOC, white primer containing a mildewcide.
- Industry-best 50-year limited warranty

MiraTEC trim is made in the USA in Towanda, Pennsylvania. The mill sits on 273 acres of land and was formally recognized for Voluntary Protection Program status by OSHA, recognizing superior performance in the field of health and safety.



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The patented TEC (Treated Exterior Composite) manufacturing process begins by combining sustainable wood fibers, wax, phenolic resins, zinc borate – an EPA-registered biocide (or chemical mined from the earth) and other proprietary ingredients.

Once the ingredients are combined, they are formed into a thick fiber mat.



The mat enters a pre-press cycle which removes air from the fiber mat to make it rigid and allows it to fit in the sealed press

Next, the fiber mat is cut. First, the edge trim saw cuts the fiber mat to width. After being cut to length, the fiber mat is loaded into the press and the press is closed and sealed.

Steam is injected into the mat to disperse the materials evenly resulting in a product with uniform product density throughout the board. By contrast, hardboard and MDF trims are made in an open press which can create an uneven density profiles that makes hardboard and MDF trims variable in density and inconsistent in performance.



Inside the sealed press, a textured plate with a nickel finish produces the wood grain, giving MiraTEC trim a unique reversible finish – textured on one side and smooth on the other. MiraTEC outshines the competition in delivering the look of natural wood due to the artistry invested in creating these plates.





Next, the rough edges are cut from the mat. At this point, the trim is manually inspected at the grading station by carefully trained operators. Due to the precision of the TEC™ process, the yield rate is nearly 100 percent. JELD-WEN is committed to delivering a high quality product – boards are tested

for density, weight and other standards throughout the day, everyday that MiraTEC is made.

Next, the boards are sanded and cut to the finished width, then primed on four sides with two coats of a low VOC primer containing a mildewcide.



After the trim is oven-dried, MiraTEC is held to cool before it is bundled and packaged.



**OUTPERFORMS.
TESTED.
PROVEN.**

5X

MiraTEC absorbed **five times** less water than fiber cement*

9X

MiraTEC performs up to **nine times** better than hardboard trim in weatherability testing**

**50
YEAR**

MiraTEC is backed by an **industry-best 50-year limited warranty**

* Source: Test performed by Stork Twin City Testing Corporation. ** SOURCE: Test performed by Forintek. For details of either test email miratec-testdetails@jeldwen.com

MiraTEC PRODUCT LINE

WIDTH x LENGTH	THICKNESS OPTIONS			
	5/8" ACTUAL	3/4" ACTUAL	1" ACTUAL	1-1/4" ACTUAL
2" x 16'	●	● ●	● ●	
3" x 16'	●	● ●	● ●	
4" x 16'	●	● ●	● ●	●
5" x 16'	●	● ●	● ●	
6" x 16'	●	● ●	● ●	●
8" x 16'	●	● ●	● ●	●
10" x 16'	●	● ●	● ●	●
12" x 16'	●	● ●	● ●	●
16" x 16'	●	● ●	● ●	

● MiraTEC

● MiraTEC SMOOTH SELECT

MiraTEC: Reversible; woodgrain texture on one side and a smooth surface on the other (1-1/4" smooth both sides)

MiraTEC Smooth Select: Ultra-smooth finish with nearly square corners for a sophisticated and contemporary look



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