

USE EXTIRA PANELS FOR A VARIETY OF EXTERIOR APPLICATIONS

EXTIRA[®]

by JELD-WEN



MANUFACTURING PROCESS BINDS NATURAL WOOD FIBERS WITH PHENOLIC RESINS AND ZINC BORATE.

- Extira is sold in panel dimensions, unprimed and is smooth on both sides; meets caliper requirements of +/- 0.005".
- Easy to work with; can be carved, routed and machined.
- Resists moisture, rot, and termites. Twice as strong as MDF. Extira is made to be used outside.
- No added urea formaldehyde; made from sustainable materials.
- Can be used for any non-structural paint-grade application, including exterior millwork, door and window parts, signage, garage doors and architectural components. While designed for exterior use, Extira panels also work well in high moisture interior applications such as bathrooms, medical installations, laboratories, countertop underlayment and casework.
- Made from the same proprietary process that creates MiraTEC[®] Trim. Extira has the same performance properties.
- Class C fire rating; Flame spread 120; Smoke developed 95.
- Extira has a 10-year warranty that far exceeds competitive panel products.

ENVIRONMENTAL
CLAIMS
VALIDATION
by SCS Global Services

NO ADDED UREA
FORMALDEHYDE



JELD-WEN
WINDOWS & DOORS

EXTIRA IS A REVOLUTIONARY PRODUCT FOR EXTERIOR APPLICATIONS THAT PERFORMS BETTER THAN WOOD OR MDF

	EXTIRA PANELS	TYPICAL MDF
APPLICATION	Exterior	Interior
COMPOSITION	Wood, phenolic resins, zinc borate, wax and other ingredients. No added urea formaldehyde.	Wood, urea formaldehyde resin. May emit formaldehyde.
MANUFACTURING PROCESS	Proprietary, patented steam injection technology using TEC™ manufacturing process.	Pressed between hot platens in an open press without steam injection.
BENEFITS	Consistent density. Resists moisture, rot and termite. Made for exterior performance.	Not uniformly dense throughout. No termite or rot protection MR MDF (moisture resistant MDF) offers moisture resistance for interior use only.
WARRANTY	10 years	30 days

EXTIRA IS STRONGER AND PERFORMS LONGER

	EXTIRA 3/4"	MEDEX 3/4"	MR 50 GRADE 110 PER ANSI 208.2-2002	WOOD
THICKNESS SWELL (TS)	2.3%	3% ²	5% max	NA
ADVANCED BOND INTEGRITY (% strength retention)	90%	Passes ² ASTM D1037-96	50% min	NA
TERMITE RESISTANCE (10 is the highest score)	7.9 out of 10 (3 year exposure) ¹	None	None	None, 0.0 ¹
ROT RESISTANCE (0 is the highest score)	1.0 out of 5 (3 year exposure) ¹	None	None	None, 5.0 ¹

¹ Independent testing per AWPA E-7 and AWPA E-16

² Published material by Medex



Moisture resistant: As measured by ASTM D1037 for Water Absorption and Thickness Swelling.

Rot resistant: As measured by AWPA E-16 Field Test for Evaluation of Wood Preservatives to be Used Out of Ground Contact: Horizontal Lap-Joint Method.

Termite resistant: As measured by AWPA E-7 Standard Method of Evaluating Wood Preservatives by Field Tests with Stakes.



ENVIRONMENTALLY FRIENDLY PANEL PRODUCT

✓ Sustainable Materials

- No old growth wood is used in the manufacture of Extira panels. They are 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 200 mile radius of the Towanda, PA production facility.
 - 100% northern hardwoods are used, which includes maple, beech, oak and other species.
- Extira panels are 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

- Extira panels have no added urea formaldehyde. This is certified by Scientific Certification Systems under certificate number SCS-MC-01802. They are manufactured with environmentally preferable phenolic resins.
- Through repeated testing by the Composite Panel Association (CPA), Extira panels have demonstrated formaldehyde emissions equivalent to background levels found in the environment.



✓ CARB Compliant

- Extira panels are 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.

✓ Contributes to Green Building Programs

- Extira panels contribute to industry green building programs such as LEED and the National Green Building Standard.



EXTIRA IS THE BEST ALTERNATIVE

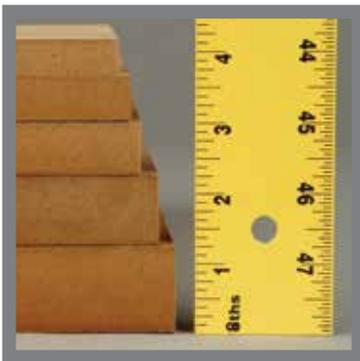
		Extira	MDF	Plywood	MDO	PVC
Price	\$	\$\$	\$	\$	\$\$	\$\$\$\$
Moisture Resistance		Good	Poor	Poor	Good	Best
Rot Resistance		Best	None	None	None	Best
Weathering ³		Good	Poor	Poor	Good	Good
UV Resistance ³		Good	Good	Best	Good	Poor ²
Warranty		10-year	30 Days	None	Varies	5-year to Lifetime ¹
Machineability		Good	Good	Poor	Poor	Varies
Paintability ³		Best	Best	Good	Best	Poor

¹ Non-transferrable

² PVC may have UV-related issues when painted a dark color

³ Ratings reflect uncoated material ranking. Extira must be field finished before use

WITH FIVE THICKNESSES AND THREE PANEL SIZES, EXTIRA MEASURES UP TO ANY PROJECT



FINISHING RECOMMENDATIONS

Extira is a wood based composite panel that must be primed and painted before being exposed to the outdoors. Adhesives or laminates may be used to affix other materials to Extira. JELD-WEN, inc. manufacturers Extira and cannot guarantee the performance or compatibility of products used with Extira. Regular testing is done with popular primers

and adhesives at the JELD-WEN research and development labs and at the manufacturing site. For more information, visit www.extira.com and click on the Signmakers link for the technical bulletin "Using Extira to Make Signs". Qualification of all materials and their end use are the responsibility of the end user. JELD-WEN, inc. has no liability for primers, paints, adhesives or any other treatment of Extira.



Choose from a variety of sizes and thicknesses

Size (nominal)	Thickness (+/-0.005")						
	7/16**	1/2"	5/8"	11/16**	3/4"	1"	1-1/4"
4' x 8' (49" x 97')	●	●	●	●	●	●	●
4' x 16' (49" x 194')	●	●	●	●	●	●	●
2' x 16' (25" x 194')	●	●	●	●	●	●	●

*Available by special order.

Typical Properties of 3/4" Extira

Termite Resistance (10 is the highest score)	7.9 out of 10 (3 year exposure)	
Rot Resistance (0 is the highest score)	1.0 (3 year exposure)	
Advanced Bond Integrity (% strength retention)	90%	
Density	47 lb/ft ³	0.753 g/cm ³
MOR	2752 psi	19.0 N/mm ²
MOE	268 kpsi	1848 N/mm ²
Internal Bond	82.6 psi	.57 N/mm ²
Direct Screw Withdrawal		
Face	364 lbs	1619 N
Edge	305 lbs	1356 N
24-Hour Soak		
% Thickness Swell	2.6%	

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