

Armorite®

MR50 • EXTERIOR • NAF • MDF

MEDFORD, OR

TECHNICAL DATA

Widths	4 & 5 ft	1.22 & 1.52 m
Lengths	up to 18 ft	up to 5.49 m
Thicknesses*	1/4 – 1-1/4 in	6.35 – 31.80 mm
Density	45 lbs/ft ³	721 kg/m ³
Internal Bond	200 psi	1.38 N/mm ²
Modulus of Rupture/MOR	4,000 psi	27.6 N/mm ²
Modulus of Elasticity/MOE	400,000 psi	2,760 N/mm ²
Hardness/MOH	1,200 lbs	5,338 N
Screw Holding – Face**	325 lbf	1,446 N
Screw Holding – Edge**	280 lbf	1,245 N
Thickness Swell	≤ 5.0% (AC424)	
Linear Expansion	0.25% max	
Moisture Content	4 – 6%	
Water Absorption	≤ 10.0% (AC424)	
Advanced Bond Integrity (strength retention after 6-cycle accelerated aging)	95% (per ANSI MR50) 70% (per AC424)	
Rot Resistance (AWPA E-10 soil block test)	0 – 1.4% weight loss	
Termite Resistance (AWPA E-26 ground proximity termite test)	> 9.0	
Flame Spread Rating	Class C (3)	
Dimensional Tolerances:		
Length/Width	±0.080 in	±2.0 mm
Squareness	±0.036 in/ft	±3.0 mm/m
Thickness – panel average from specified	±0.005 in	±0.125 mm
Thickness – variance from panel average	±0.005 in	±0.125 mm

EXTERIOR MEDIUM DENSITY FIBERBOARD

Exterior grade, no-added formaldehyde MDF panels that resist rot, decay, and insects.

COMMON APPLICATIONS

- For high-humidity climates
- For above-ground exterior applications
- Bathroom cabinetry
- Countertops
- Exterior signage
- Non-structural paint-grade millwork
- Outdoor games and sports
- Outdoor kitchens
- Raised panels
- Shutters

Values represent averages for 3/4" panels. Physical properties may vary by thickness. All mechanical properties are tested in accordance with ASTM D1037.



*Code report (ICC-ES Evaluation Report ESR-4012) covers thickness range of 1/2" – 1.181" (12.7 – 30 mm)

**Note: panels less than 3/8" are not tested for Screw Holding.

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STANDARDS & CERTIFICATIONS

Roseburg Armorite Exterior MDF is tested and certified to meet or exceed the following standards and certifications.

Moisture Resistant

- ✓ Meets grade MR50 moisture resistance
- ✓ Exceeds requirements of ASTM D1037 six cycle accelerated aging test

Formaldehyde Emissions Regulations – Third party certified (TPC-1) to meet the requirements of:

- ✓ EPA Formaldehyde Emission Regulation, TSCA Title VI* and California Air Resources Board (CARB) ATCM 93120*
- ✓ Standards Council of Canada Formaldehyde Emissions Standard for Composite Wood Products – CAN/CSA 0160-16*
- ✓ No Added Formaldehyde (NAF) Exempt

International Code Council Evaluation Service

- ✓ ICC-ES Evaluation Report ESR-4012 (www.icc-es.org)

ISO 21887 Durability of wood use class UC3A

- ✓ Recognized for exterior use in above-ground applications. Resists attack by fungal decay and subterranean termites, including Formosan termites

Recycled Content

- ✓ Third-party certified 90.5% pre-consumer recycled content.

Forest Stewardship Council®

- ✓ Scientific Certification Systems Certified (SCS-COC/CW-00300) – FSC-C017580 FSC® Mix and FSC® Controlled Wood - AVAILABLE OPTION*

Eco-Certified Composite Grademark Program

- ✓ CPA ECC Sustainability Standard*

*Certificates and documentation available at Roseburg.com



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