

# ULTRASTOCK®

## MDF Panels

All Panels Produced With 100% NAF Resin  
AND At Least MR10 Moisture Resistance



## Versatile, Machinable, and Offering an NAF Designation

Whether you need an MDF panel that provides exceptional machinability, improved freight efficiency or a range of specialty application characteristics, specify UltraStock® medium density fiberboard products for outstanding performance and value.

In addition, UltraStock panels are manufactured using NAF resins. All product grades are CARB and TSCA Title VI compliant.

### SELECT, PREMIUM, AND LITE GRADE CHOICES

Smooth and consistent, UltraStock Select and UltraStock Premium medium density fiberboard (MDF) panels are designed for outstanding machining and finishing. UltraStock Lite offers the additional benefit of reduced product weight to the mix.

### ULTRASTOCK® MR AND ULTRASTOCK® FR

Engineered to meet the thickness swell and bond integrity criteria required for an MR50<sup>1</sup> designation, UltraStock MR also provides premium workability for applications subject to moisture exposure. When a UL-classified<sup>2</sup> fire-resistant panel with low flame spread and smoke developed characteristics is required, choose UltraStock FR.

### ULTRASTOCK® EMBOSSING, ULTRASTOCK® MOULDING

Produced with an optimized light weight and surface smoothness, UltraStock Embossing works especially well for heated, die-press applications and UltraStock Moulding provides excellent high-volume results for machining and shaping.

1. ANSI A208.2 - 2016 section 3.6 2. Refer to UL file R121867

### DIMENSIONS

#### UltraStock Select:

THICKNESSES: 1/4" - 1 1/8"  
WIDTHS: To 5' LENGTHS: To 16'

#### UltraStock Premium:

THICKNESSES: 1/4" - 1 1/2"  
WIDTHS: To 5' LENGTHS: To 16'

#### UltraStock Lite, UltraStock Embossing, UltraStock Moulding:

THICKNESSES: 3/8" - 3/4"  
WIDTHS: To 5' LENGTHS: To 16'

#### UltraStock MR, UltraStock FR:

THICKNESSES: 1/4" - 1 1/2"  
WIDTHS: To 5' LENGTHS: To 16'

### APPLICATIONS

- Moulding and millwork
- Cabinets and fixtures
- Home and office furniture
- Laminate flooring
- Architectural wall panels

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PHYSICAL PROPERTIES	ULTRASTOCK® SELECT		ULTRASTOCK® PREMIUM			
	1/4" to < 1/2"	1/2" to 1 1/8"	< 3/8"	3/8" to < 1/2"	1/2" to 3/4"	> 3/4"
Min Panel Averages <sup>1</sup>						
MOR-Modulus of Rupture (psi)	4500	4050	4050	3130	3130	3130
MOE-Modulus of Elasticity (kpsi)	450	405	405	313	313	313
IB-Internal Bond (psi)	120	120	110	100	90	85
Face Screw Holding Capacity (lbs)	270	270	235	235	235	235
Edge Screw Holding Capacity <sup>2</sup> (lbs)	NA	250	NA	NA	215	205
Formaldehyde Emissions CARB II Compliant	✓	✓	✓	✓	✓	✓
24-Hour Thickness Swell	≤ 0.0325"	≤ 5.5%	≤ 0.0325"	≤ 0.0325"	≤ 5.5%	≤ 5.5%

1. One-panel minimum average per ANSI 208.2 2. Not applicable for thinner than 5/8"

PHYSICAL PROPERTIES	ULTRASTOCK® LITE		ULTRASTOCK® MR (MR50)		
	3/8" to < 1/2"	1/2" to 3/4"	1/4" to < 1/2"	1/2" to 3/4"	> 3/4"
Min Panel Averages <sup>1</sup>					
MOR-Modulus of Rupture (psi)	2800	2800	4050	4050	4050
MOE-Modulus of Elasticity (kpsi)	280	280	405	405	405
IB-Internal Bond (psi)	100	90	130	120	110
Face Screw Holding Capacity (lbs)	222	222	250	270	270
Edge Screw Holding Capacity <sup>2</sup> (lbs)	NA	215	NA	250	250
Formaldehyde Emissions CARB II Compliant	✓	✓	✓	✓	✓
24-Hour Thickness Swell	≤ 0.0325"	≤ 5.5%	≤ 0.0325"	≤ 5.5%	≤ 5.5%

1. One-panel minimum average per ANSI 208.2 2. Not applicable for thinner than 5/8"

PHYSICAL PROPERTIES	ULTRASTOCK® FR*				*UL CLASSIFICATION
	< 3/8"	3/8" to < 1/2"	1/2" to 3/4"	> 3/4"	
Min Panel Averages <sup>1</sup>					
MOR-Modulus of Rupture (psi)	4050	3130	3000	2900	Georgia-Pacific's Mt. Jewett MDF facility in Kane, Pennsylvania, is an authorized manufacturing location to produce UL-rated UltraStock FR MDF with the following Surface Burning Characteristics (UL 273-Class 1 or ASTM E84 Class A):  <b>FLAME SPREAD 20</b> <b>SMOKE DEVELOPED 35</b>   Refer to UL file R121867
MOE-Modulus of Elasticity (kpsi)	450	420	420	420	
IB-Internal Bond (psi)	110	100	90	85	
Face Screw Holding Capacity (lbs)	235	235	235	235	
Edge Screw Holding Capacity <sup>2</sup> (lbs)	NA	NA	215	205	
Formaldehyde Emissions CARB II Compliant	✓	✓	✓	✓	
24-Hour Thickness Swell	≤ 0.0325"	≤ 0.0325"	≤ 5.5%	≤ 5.5%	

1. One-panel minimum average per ANSI 208.2 2. Not applicable for thinner than 5/8"

PHYSICAL PROPERTIES	ULTRASTOCK® EMBOSSEING		ULTRASTOCK® MOULDING		
	3/8" to < 1/2"	1/2" to 3/4"	< 3/8"	3/8" to < 1/2"	1/2" to 3/4"
Min Panel Averages <sup>1</sup>					
MOR-Modulus of Rupture (psi)	3000	3000	4050	3130	3130
MOE-Modulus of Elasticity (kpsi)	250	250	405	313	313
IB-Internal Bond (psi)	130	125	115	115	115
Face Screw Holding Capacity (lbs)	225	225	235	235	235
Edge Screw Holding Capacity <sup>2</sup> (lbs)	NA	175	NA	NA	215
Formaldehyde Emissions CARB II Compliant	✓	✓	✓	✓	✓
24-Hour Thickness Swell	≤ 0.0325"	≤ 5.5%	≤ 0.0325"	≤ 0.0325"	≤ 5.5%

1. One-panel minimum average per ANSI 208.2 2. Not applicable for thinner than 5/8"

### TOLERANCES

- Length & Width:** ± 1/16" per panel
- Squareness:** ± 1/64" per ft. of length
- Straightness:** ± 1/64" per ft. of length
- Thickness:** ± 0.005" (within panel)
- Thickness:** ± 0.005" (panel to panel)

### EPA TSCA, TITLE VI

All UltraStock MDF is CARB and EPA TSCA Title VI compliant. This Product contains no Added Formaldehyde.

### ECC CERTIFICATION

UltraStock MDF products produced in the Georgia-Pacific facility in Mt. Jewett, Pennsylvania, have been awarded the Composite Panel Association (CPA) Eco-Certified Composite (ECC) grademark which verifies compliance with the CPA 4-11 ECC Sustainability Standard, the California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) 93120 and the EPA TSCA Title VI rule.

### FSC® CERTIFICATION

UltraStock MDF that is certified to conform to the requirements of Forest Stewardship Council® standards for FSC Mix Chain of Custody and Controlled Wood manufacturing is available by special order.

### ENVIRONMENTAL CREDITS

Refer to our website for current information regarding environmental credits and green rating system contributions.

### MR10 AND MR50

Based on ANSI A208.2-2016 section 3.6, a summary of criteria for the MR10 and MR50 board designations are:

- MR10:** Meets the 24-hour thickness swell test value of 5.5% or less.
- MR50:** Meets the 24-hour thickness swell test value of 5.5% or less AND the advanced bond value of 50% of original MOR after accelerated aging.



The mark of responsible forestry