

a. Select MDF

Premium grade and made of 100% softwood, Select MDF is the industry benchmark for routing applications. Features an impeccable surface, excellent machinability and delivers outstanding results for a vast range of applications.

Technical specifications



Properties	ANSI A208.2-2002 Grade 150		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9%		4-6%	
Density	500-1 000 kg/m ³	31-62 lb/ft ³	760 kg/m ³	48 lb/ft ³
Thickness tolerance : Between panels Within panels	± 0.125 mm ± 0.125 mm	± 0.005 in ± 0.005 in	± 0.125 mm ± 0.125 mm	± 0.005 in ± 0.005 in
Modulus of rupture	31.0 N/mm ²	4 496 psi	34.0 N/mm ²	4 950 psi
Modulus of elasticity	3 100 N/mm ²	449 600 psi	3 800 N/mm ²	551 150 psi
Internal bond	0.90 N/mm ²	131 psi	1.0 N/mm ²	145 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding : Face Core	1 400 N 1 200 N	315 lb 270 lb	1 900 N 1 800 N	425 lb 405 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	Max. 10 %	Max. 10 %	5 %	5 %

Panfibre Select MDF panels are available in the following standard dimensions :

Width	Length	Thickness
4 & 5 feet (1.22 & 1.52 m)	8 to 10 feet (2.44 to 3.05 m)	5/8" to 1 1/4" (15.88 to 31.75 mm)

Panfibre Select MDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre Select MDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C

b. Excel+ MDF

Premium grade MDF with outstanding properties for routed door applications.



Properties	ANSI A208.2-2002 Grade 150		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9%		4-6%	
Density	500-1000 kg/m ³	31-62 lb/ft ³	775 kg/m ³	48 lb/ft ³
Thickness tolerance : Between panels Within panels	± 0.125 mm ± 0.125 mm	± 0.005 in ± 0.005 in	± 0.125 mm ± 0.125 mm	± 0.005 in ± 0.005 in
Modulus of rupture	31.0 N/mm ²	4 496 psi	34.0 N/mm ²	4 950 psi
Modulus of elasticity	3 100 N/mm ²	449 600 psi	3 800 N/mm ²	551 150 psi
Internal bond	0.90 N/mm ²	131 psi	1.0 N/mm ²	145 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding : Face Core	1 400 N 1 200 N	315 lb 270 lb	1 900 N 1 800 N	425 lb 405 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	Max. 10 %	Max. 10 %	5 %	5 %

Panfibre Excel+ MDF panels are available in the following standard dimensions :

Width	Length	Thickness
4 & 5 feet (1.22 & 1.52 m)	6 to 12 feet (1.85 to 3.68 m)	1/2" to 1 3/16" (12.7 to 30 mm)

Panfibre Excel+ MDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre Excel+ MDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C

c. Excel MDF

Its light-colored, uniformly dense panel makes it ideal for shaping, machining, laminating, painting or lacquering.

Technical specifications 



Properties	ANSI A208.2-2002 GRADE 140		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9%		4-6%	
Density	500-1 000 kg/m ³	31-62 lb/ft ³	745 kg/m ³	47.3 lb/ft ³
Thickness tolerance :				
Between panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Within panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Modulus of rupture	24.0 N/mm ²	3 481 psi	30.0 N/mm ²	4 350 psi
Modulus of elasticity	2 400 N/mm ²	348 100 psi	3 500 N/mm ²	493 150 psi
Internal bond	0.75 N/mm ²	109 psi	0.80 N/mm ²	115 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding :				
Face	1 325 N	298 lb	1 700 N	380 lb
Core	1 000 N	225 lb	1 500 N	340 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	Max. 10 %	Max. 10 %	6 %	6 %

Panfibre Excel MDF panels are available in the following standard dimensions :

Width	Length	Thickness
4 & 5 feet (1.22 & 1.52 m)	6 to 14 feet (1.85 to 4.29 m)	3/16" to 1 1/4" (4.76 to 31.75 mm)

Panfibre Excel MDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre Excel MDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C

d. Standard MDF

Panels dedicated mainly to the lamination market (high pressure laminates, veneers, etc...) and lighter mechanical applications.

Technical specifications 

StandardMDF^{MC}

Properties	ANSI A208.2-2002 GRADE 130		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9%		4-6%	
Density	500-1 000 kg/m ³	31-62 lb/ft ³	730 kg/m ³	46 lb/ft ³
Thickness tolerance :				
Between panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Within panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Modulus of rupture	24.0 N/mm ²	3 481 psi	28.0 N/mm ²	4 060 psi
Modulus of elasticity	2 400 N/mm ²	348 100 psi	3 500 N/mm ²	493 150 psi
Internal bond	0.60 N/mm ²	87 psi	0.70 N/mm ²	100 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding :				
Face	1 100 N	247 lb	1 700 N	380 lb
Core	875 N	197 lb	1 100 N	247 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	Max. 10%	Max. 10%	6 %	6 %

Panfibre Standard MDF panels are available in the following standard dimensions :

Width	Length	Thickness
4 & 5 feet (1.22 & 1.52 m)	6 to 12 feet (1.85 to 3.68 m)	3/16" to 1 3/16" (4.76 to 30 mm)

Panfibre Standard MDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre Standard MDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C

e. Ultra Lite MDF

Ultra Lite MDF (33 lb) is perfect for applications requiring extremely lightweight material and low to medium machinability.

Technical specifications 

Ultra Lite **MDF**^{MC}

Properties	ANSI A208.2-2002 GRADE 110		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9%		4-6%	
Density	500-1 000 kg/m ³	31-62 lb/ft ³	525 kg/m ³	33 lb/ft ³
Thickness tolerance :				
Between panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Within panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Modulus of rupture	14.0 N/mm ²	2 030 psi	14.0 N/mm ²	2 030 psi
Modulus of elasticity	1 400 N/mm ²	203 100 psi	1 500 N/mm ²	220 000 psi
Internal bond	0.30 N/mm ²	44 psi	0.50 N/mm ²	73 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding :				
Face	780 N	175 lb	900 N	202 lb
Core	670 N	151 lb	750 N	169 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	Max. 10%	Max. 10%	10%	10%

Panfibre Ultra Lite MDF panels are available in the following standard dimensions :

Width	Length	Thickness
4 & 5 feet (1.22 & 1.52 m)	8 to 12 feet (2.44 to 3.68 m)	1/2" to 1" (12.7 to 25.4 mm)

Panfibre Ultra Lite MDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre Ultra Lite MDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C

f. High density (HDF)

A high density, highly durable MDF made for laminate flooring and other demanding laminate applications.

Technical specifications 



Properties	ANSI A208.2-2002 GRADE 240 MR10		Typical values	
	Metric	Imperial	Metric	Imperial
Moisture content	Max. 9 %		4-6%	
Density	800-1 000 kg/m ³	31-62 lb/ft ³	900 kg/m ³	57 lb/ft ³
Thickness tolerance :				
Between panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Within panels	± 0.125 mm	± 0.005 in	± 0.125 mm	± 0.005 in
Modulus of rupture	45.0 N/mm ²	6 527 psi	45.0 N/mm ²	4 350 psi
Modulus of elasticity	n/a	n/a	4 500 N/mm ²	493 150 psi
Internal bond	1.5 N/mm ²	218 psi	1.8 N/mm ²	247 psi
Linear expansion	≤ 0.30%		< 0.30%	
Screw holding :				
Face	n/a	n/a	1 700 N	380 lb
Core	n/a	n/a	1 500 N	340 lb
Formaldehyde emission	≤ 0.30 ppm		< 0.30 ppm	
Length / Width	± 2.0 mm	± 0.08 in	± 2.0 mm	± 0.08 in
Thickness swell	n/a	n/a	2.0 mm	0.08 in

Panfibre HDF panels are available in the following standard dimensions :

Width	Length	Thickness
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4 & 5 feet (1.22 & 1.52 m)	8 to 10 feet (2.44 to 3.05 m)	(5.6 to 9.8 mm)
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Panfibre HDF panels are also available in low formaldehyde E-1 grade and grade MR10 humidity resistant. Contact a Uniboard representative for more information.

Formaldehyde Emission	
E-1 Formaldehyde Emission	< 0.10 PPM

Panfibre HDF panels meet the following flame index :

	Test Method	Class
Raw panels	ASTM-E84	III or C
Laminated (decorative surfaced) panels	ASTM-E84	III or C