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Product Technical Specifications

Technical Specifications

Flakeboard - Particleboard	Meets or exceeds the specifications for M-2 Particleboard as described by ANSI A208.1-1999
Flakeboard – Mende Thin Particleboard	Please refer to Mende Specification Chart for typical mill values.
FIBREX® High Density Thin MDF	Please refer to FIBREX® High Density Thin MDF Specification Chart for typical mill values.
Superior MDF and Superior Plus (Flakeboard, Sault Ste. Marie Operations)	Please refer to Superior MDF Technical Specification Chart for typical mill values.

Mende Thin Particleboard Technical Data

Thickness	3.2mm to 7.8mm
Sanding	Minimum 2.8mm to +/- 0.1mm tolerance
Density	45 lbs./cu.ft.
M.O.R.	2100 psi average
Internal Bond	80 psi average

FIBREX® High Density Thin MDF Technical Data

Physical Properties	Minimum Specifications		FIBREX® Average Values	
	Metric	Imperial	Metric	Imperial
Density	>840 kg/m ³	52 lb./ft. ³	>880 kg/m ³	55 lb./ft. ³
Moisture Content	4% - 9%	4% - 9%	5% - 7%	5% - 7%
Formaldehyde Emissions	<0.3 ppm	<0.3 ppm	<0.2 ppm	<0.2 ppm
Thickness Tolerance (Raw)	+/-0.2mm	+/-0.008 in.	+/-0.2mm	+/-0.008 in.
Thickness Tolerance (Sanded)	+/-0.1mm	+/-0.004 in.	+/-0.1mm	+/-0.004 in.
Width Tolerance	+/-1.0mm/m	+/-1/64 in./ft.	+/-1.0mm/m	+/-1/64 in./ft.
Length Tolerance	+/-1.0mm/m	+/-1/64 in./ft.	+/-1.0mm/m	+/-1/64 in./ft.
Squareness Tolerance	3mm/m	+/-1/32 in./ft.	3mm/m	+/-1/32 in./ft.
Internal Bond (<3mm)	>0.62 N/mm ²	>90 psi	0.90 N/mm ²	130 psi
Internal Bond (>3mm)	>0.76 N/mm ²	>110 psi	1.17 N/mm ²	170 psi
MOR (<3mm)	>31 N/mm ²	>4500 psi	>39 N/mm ²	5700 psi
MOR (>3mm)	>34 N/mm ²	>5000 psi	>41 N/mm ²	6000 psi

Flakeboard – Sault Ste. Marie Operations

SUPERIOR MDF TECHNICAL DATA

Superior MDF	3/8" to 1/2"	9/16" to 7/8"	1" to 1 1/8"
Density (lb./ft. ³)	47	45	44
Internal Bond (psi)	120	115	110
MOR (psi)	3700	3500	3400
MOE (psi)	450,000	430,000	435,000
Face Screw Holding (lbs.)	315	255	280
Edge Screw Holding (lbs.)	N/A	250*	270
Moisture Content (%)	5-7	5-7	5-7
Thickness Swell (%)	As per ANSI Specification	8	8

*N/A for 9/6" thickness

Superior Plus MDF	9/16" to 3/4"	1"
Density (lb./ft. ³)	47.5	46
Internal Bond (psi)	165	155
MOR (psi)	4300	4100
MOE (psi)	475,000	485,000
Face Screw Holding (lbs.)	340	325
Edge Screw Holding (lbs.)	340	325
Moisture Content (%)	5-7	5-7
Thickness Swell (%)	8	8

Superior SW	3/4"
Density (lb./ft. ³)	45.5
Internal Bond (psi)	135
MOR (psi)	4000
MOE (psi)	475,000
Face Screw Holding (lbs.)	300
Edge Screw Holding (lbs.)	275
Moisture Content (%)	5-7
Thickness Swell (%)	8

General Information	
Sanded Finish	150 grit
Thickness Tolerance	+/- .005 In.
Maximum Grit Content	.05%

Note: Physical Property test results represent a 5-panel average per ANSI A208.2-2002.