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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/m3	52 lb/ft.3	>880 kg/m3	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/mm2	>90 psi	0.90 N/mm2	130 psi
Internal Bond (>3mm)	>0.76 N/mm2	>110 psi	1.17 N/mm2	170 psi
MOR (<3mm)	>31 N/mm2	>4500 psi	>39 N/mm2	5700 psi
MOR (>3mm)	>34 N/mm2	>5000 psi	>41 N/mm2	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 (%)	10	5	5
Water Absorption (%)	14	10	10

*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 (%)	5	5
Water Absorption (%)	10	10

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 (%)	5
Water Absorption (%)	10

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.