



Employee breakroom

Medex is a no-added formaldehyde, moisture resistant MDF panel engineered for interior high moisture areas. Used in place of sanded plywood and solid wood in non-structural applications, Medex gives you the versatility of a composite panel with the emissions of solid wood.

For LEED projects or other buildings where indoor air quality (IAQ) is a concern, no-added formaldehyde Medex is the ideal choice as product emissions meet and exceed international standards.

#### Environmental Certification

Medex is SCS and EPP Certified for no-added formaldehyde and 100% recovered and recycled wood fiber.

#### Features & Benefits

- Medex is especially suitable in interior applications where moisture is a concern
- Standard wood product finishing processes apply to Medex
- Finishing – can be painted, laminated, veneered
- Exceptional machining and low toolwear
- Fastening – Medex readily accepts and holds staples, screws, and other wood fastening hardware

#### Technical Data – Moisture Resistant\* Medex (Typical data when tested to ASTM D 1037-96a Part A)

Property	Thicknesses		Units
	3/8" – 3/4"	1 3/16" – 1 1/4"	
<b>Imperial Units</b>			
Density	49 – 48	47 – 44	Lb/ft <sup>3</sup>
Internal Bond	200	165	Lb/in <sup>2</sup>
Modulus of Rupture	6,000	4,500	Lb/in <sup>2</sup>
Modulus of Elasticity	600,000	500,000	Lb/in <sup>2</sup>
Hardness	1,200	1,000	Lbs, Janka ball
Screw Holding, Face	350	300	Lbs req'd to pull 1" #10 sheet metal screw
Screw Holding, Edge	275	225	Lbs req'd to pull 1" #10 sheet metal screw
<b>Metric Units</b>	<b>9.5 – 19.1mm</b>	<b>20.6 – 31.8mm</b>	
Density	785 – 769	752 – 700	Kg/m <sup>3</sup>
Internal Bond	1.38	.69	N/mm <sup>2</sup>
Modulus of Rupture	41.4	32	N/mm <sup>2</sup>
Modulus of Elasticity	4137	3447	N/mm <sup>2</sup>
Hardness	544	454	Kg Janka ball
Screw Holding, Face	159	136	Kg req'd to pull 25mm #10 sheet metal screw
Screw Holding, Edge	125	102	Kg req'd to pull 25mm #10 sheet metal screw
<b>Other Data</b>			
Water Absorption	14 – 5	6 – 5	24-hour soak, Ave. %
Thickness Swell	8 – 3	3 – 2	24-hour soak, Ave. %
Linear Expansion	.32 – .27	.26 – .20	% dimensional change in length & width due to humidity change from 50% – 80% RH
Moisture Content	4 – 6	4 – 6	Avg. %, oven-dry basis
Thickness Tolerance	± .005" or ± .005" or	± .005" or ± .005" or	Average from nominal Deviation from average

\* The term "moisture resistant" as used in this context indicates compliance with ASTM D1037-96A six-cycle accelerated aging test.

#### Storage & Conditioning

- Storage – Store indoors on flat, level surface with adequate support to prevent sagging.
- Conditioning – For best results, Medex should be conditioned to the environment for 48 – 72 hours prior to installation.
- For more details on working with MDF, consult "MDF From Start to Finish," published by the Composite Panel Association, [www.pbmdf.com](http://www.pbmdf.com).



#### LEED Credits Supported

Contributes to achieving Credits for:

- Material & Resources – 4.1 & 4.2 and 5.1 & 5.2
- Indoor Environmental Quality – 4.4

#### Applications

- Countertops
- Window sills
- Bathroom cabinets and woodwork
- Bow & bay window head and seat boards
- Display cases
- Raised panel door inserts

#### How to Specify

Industrial Grade Medium Density Fiberboard (MDF), manufactured with a formaldehyde-free binder and which meets the requirements of ANSI A208.2-2002.

#### Limitations

Medex is not suitable for structural applications, exterior siding or exterior trim.

#### Finishing Instructions

Medex Finishing Guidelines for commercial signage are available through SierraPine, either by calling (800) 676-3339 or via our website at [www.sierrapine.com](http://www.sierrapine.com). Click on MDF, then Medex for a downloadable PDF.

#### Warranty

SierraPine Limited Warranty is available upon request.