Manufacturing excellence

SuperEco MR/EO

Customwood® SuperEco is an MDF product specially designed with MR (Moisture Resistance) properties and very low formaldehyde emission.

- **Moisture/humidity resistant**
- **Excellent mechanical properties**
- **Highly machinable**
- **Very low formaldehyde E0 emission rating**

Customwood® SuperEco is typically used for general non-load bearing applications either in dry or humid interior conditions including:

- Kitchen cabinets
- Interior furniture
- Walls and ceilings
- Flooring substrates.

Customwood® SuperEco is a very low formaldehyde emitting MDF product and makes for an exceptional choice for use in any location and for many purposes, including residential houses, offices, schools, hospitals and government buildings.

Customwood®

Customwood® also available...

- ThinPanel E1
- ProPanel E1
- LightPanel E1
- SuperFinish MR/SEO

DAIKEN

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Customwood®

Standard specifications

SuperEco MR/E0

	ThinPanel (E1)	ProPanel (E1)	LightPanel (E1)	SuperEco (MR/E0)	SuperFinish (MR/SE0)
Formaldehyde Emissions	E1 (≤ 1.0mg/litre) AS/NZ Standard test 4266.16			E0 (≤ 0.5mg/litre) AS/NZ Standard test 4266.16	SE0 (< 0.3mg/litre) Comparable to JIS F★★★★, and USA California regulations for ultralow emission panels.
Mechanical Properties	Good, compliant to AS/NZS Standard for STD general purpose MDF			Excellent, very strong panel compliant to AS/NZ Standard for general purpose MR MDF.	Excellent, very strong panel compliant to AS/NZ Standard for general purpose MR MDF.
Face Density	Good			Very good	Excellent
Core Density and Machinability	Good			Very good	Excellent
Surface Finish	Good			Very good	Excellent
Fit-for-purpose	General non-load applications in dry interior conditions			General non-load applications in dry or humid interior conditions. Excellent machinability and strength.	General non-load applications in dry or humid interior conditions. Excellent machinability and strength. Superior paint finish on faces and edges.

Thickness (mm)	3	4	4.75	6	9	12	15	16	18	25	30	16	18	9	16	18	12	18	25	
Sheet Size (mm)	Please see size sheets																			
Density (kg/m³)	735-850				650-750						550-650			675-750					650-730	
Weight Per Area* (kg/m²)	2.3	3.2	3.7	4.8	6.5	8.6	10.7	11.4	12.9	16.5	18	9.6	10.8	6.5	11.6	13.1	8.8	13.1	17.5	
Internal Bond* (MPa)	1.4				0.9					0.8	0.7	0.8		1.40	1.20		1.40	1.30	1.20	
MOR* (MPa)	40	44			40	38		37	36	34	25			35	36	38	35	38	35	
Thickness Swell 24 Hours* (%)	23	20		13	12	10	8		6	4	3.5	6.5	5	10	5	4.5	3.8	4.0	3.8	
MOE* (MPa)	3500	4000		3700	3200	3000			2800	2600	2400	2700		3000	2900	3100	3000	3100	3000	
Wet MOR* (MPa)	NA													7	6		7	6	5	
Thickness Tolerance* (mm)	±0.15																			
Length and Width Tolerance* (mm)	±2.0																			
Diagonals Difference Tolerance** (mm)	±3.0																			
Bow Measurement Tolerance** (mm/m)	N/A				3.0									N/A	3.0		N/A	3.0		
Moisture Content Range**	6-12%				5-11%															
Bracing Ratings	P21 testing report by BRANZ is available. Please contact Daiken Customer Service for details and a copy of the report.																			
Fire Classification NZBC C/VM2	Fire Test Report by BRANZ is available. Please contact Daiken Customer Service for details and a copy of the report.																			

* Typical value of Customwood® measured at DNZ testing facilities. Daiken New Zealand guarantee that Customwood® should meet the minimum specifications on the properties described by AS/NZS 1859.2:2004

** Customwood® specification

Note on dimensional stability: MDF is made of wood and moisture is always present in wood. Furthermore, moisture will enter or leave wood products depending on environmental conditions like air temperature and relative humidity. As moisture enters or leaves, wood product properties and dimensions will change. Appropriate design and storage measures have to be taken to minimise MDF exposure to ambient changes and subsequent changes in dimensions and properties. In general, the impact of moisture changes in panel properties is minimal if the air relative humidity is maintained between 50% and 80%. In general, panels will expand (up to 3mm/m) if exposed to ambient air with more than 65%RH and will shrink (up to 3mm/m) if exposed to ambient air with less than 65% RH.

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