

Manufacturing excellence



ThinPanel

E1

Customwood® ThinPanel is a highly versatile and machinable MDF product.



- **Excellent bonding properties for lamination**
- **Perfect for forming shaped components with outstanding strength**
- **Low formaldehyde E1 emission rating**

Customwood® ThinPanel is typically used for a range of joinery applications, including:

- Door skins
- Cabinetry
- Exhibition panelling
- Counter and bar fronts
- Desk surfaces and office screens
- Floor underlays
- Drawer bottoms
- Furniture backs.

With its low emission rating, **Customwood® ThinPanel** makes an excellent choice for use in any location and for many purposes, including residential houses, offices, schools, hospitals and government buildings.


Customwood®

 **Customwood®** also available...

LightPanel

E1

SuperEco

MR/E0

ProPanel

E1

SuperFinish

MR/SE0

DAIKEN

0800 369 633
info@customwood.co.nz
www.customwood.co.nz

Customwood®

Standard specifications

ThinPanel

E1

	ThinPanel (E1)				ProPanel (E1)								LightPanel (E1)			SuperEco (MR/E0)			SuperFinish (MR/SEO)			
Formaldehyde Emissions					E1 (≤ 1.0mg/litre) AS/NZ Standard test 4266.16								E0 (≤ 0.5mg/litre) AS/NZ Standard test 4266.16			SEO (< 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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