

Manufacturing excellence



ProPanel

E1

Customwood® ProPanel is a general purpose, multi-application panel.



- **Versatile, multi-purpose MDF**
- **Ideal for joiners, builders and renovators**
- **Low formaldehyde E1 emission rating**

Manufactured for strength, machinability and durability, **Customwood® ProPanel** is typically used for a range of joinery applications, including:

- Interior furniture
- Kitchen cabinets
- Speaker boxes
- Walls and ceilings
- Flooring substrates
- Stairs
- Game pieces.

With its low emission rating, **Customwood® ProPanel** 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...

ThinPanel

E1

SuperEco

MR/EO

LightPanel

E1

SuperFinish

MR/SEO

DAIKEN

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Customwood®

Standard specifications

ProPanel

E1

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