Manufacturing excellence

LightPanel E1

Customwood® LightPanel is a general-purpose panel that weighs 20% less than standard for easy handling.

- **Offering versatility and easy handling**
- **Unique lightweight characteristics**
- **Low formaldehyde E1 emission rating**

With its lighter weight and strength, **Customwood® LightPanel** is typically used for a range of joinery applications, including:

- Interior furniture
- Shelvings
- Kitchen cabinets
- Walls and ceilings
- Game pieces.

With its low emission rating, **Customwood® LightPanel** 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
- ProPanel E1
- SuperFinish MR/SEO

DAIKEN

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Customwood®

Standard specifications

LightPanel E1

	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.

Quality ISO 9001 · Environment ISO 14001

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