

# MDF

## Low Formaldehyde



## Low emissions to meet a variety of standards

We use renewable pine plantation forests from Southland, New Zealand to ensure MDF (Medium Density Fibreboard) encompasses quality and sustainability. We are committed to ensuring the properties of our panel meet stringent environmental and utility guidelines. By using MDF, you also support sustainable management of the world's resources.

Available on request as FSC® certified, we also make products which meet ULEF, CARB Phase2, EPA TSCA Title VI and LEED formaldehyde emission criteria. For the USA market our products meet CWSS standards for environmentally responsible manufacturing.

### MDF - Low Formaldehyde

All of our standard products are available with Low Formaldehyde emissions, to meet the F★★★ (F-Three Star) and F★★★★ (F-Four Star) Japanese Industrial Standard (JIS). JIS applies stringent criteria to resin inputs and formaldehyde emissions resulting in a tangible standard for consumer security.

The F-Three Star standard is below 0.5 milligrams per litre (mg/l) of formaldehyde emission and the lower F-Four Star standard is below 0.3 mg/l formaldehyde emission. Simply request your preferred emission standard when you place your order.



This symbol appears on every JIS pack and illustrates our compliance with the JIS A 5905 standard. The RS designates the panel as "Base Board Polished", or sanded panel. The 30 relates to the minimum bending strength (Modulus of Rupture) of the panel, and is a conservative minimum for the full range of panels we make.

The U is the classification according to the adhesive or resin used, and signifies that Urea based resin is the main component.

To meet USA market emission standards request products that meet ULEF, EPA TSCA Title VI, and CARB Phase 2 emission levels. As with all our products, you can also request 100% FSC® (Forestry Standards Certification) wood resource be used to make your low formaldehyde emission panel.



**DAIKEN**  
SOUTHLAND LIMITED

# MDF – Low Formaldehyde Aim Properties when tested to JIS A 5905

# MDF

## Low Formaldehyde

For further specifications  
and production information  
please visit

[www.daiken-nz.com](http://www.daiken-nz.com)

PROPERTY	METRIC	F3S				F4S			
		2.5mm	12mm	18mm	25mm	2.5mm	12mm	18mm	25mm
Density	kg/m <sup>3</sup>	790	730	730	730	790	730	730	730
Weight	Kg/m <sup>2</sup>	2.0	8.8	13.1	18.3	2.0	8.8	13.1	18.3
Panels	Per Pack	340	70	47	34	340	70	47	34
Internal Bond	MPa	1.2	0.8	0.7	0.7	1.2	0.8	0.7	0.7
Moisture Content	%	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Thickness Swell	%	36	12	7	7	36	10	7	7
MOE	MPa	3700	3500	3500	3500	3700	3500	3500	3500
MOR	MPa	30	30	30	30	30	30	30	30

PROPERTY	IMPERIAL	.098"	.472"	.709"	.984"	.098"	.472"	.709"	.984"
Density	lb/ft <sup>3</sup>	49	46	46	46	49	46	46	46
Weight	lb/ft <sup>2</sup>	0.4	1.8	2.7	3.7	0.4	1.8	2.7	3.7
Panels	Per Pack	340	70	47	34	340	70	47	34
Internal Bond	lb/in <sup>2</sup>	203	131	131	131	203	131	131	131
Moisture Content	%	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Thickness Swell	%	30	12	7	6	30	10	7	6
MOE	lb/in <sup>2</sup>	536500	507500	507500	507500	536500	507500	507500	507500
MOR	lb/in <sup>2</sup>	5800	6525	6525	5365	6525	6525	6525	5365

GENERAL TOLERANCES	
Length/Width	+/- 2 mm (+/- 0.079 in)
Thickness Tolerance	+/- 0.15 mm (0.006 in)
Straightness	1.125 mm/m (0.015 in/ft)
Squareness	<1.5 mm/m (<0.018 in/ft)
Sanding grit	180

**NOTE:** These values represent typical values and are guidelines only. Please note that Daiken Southland Limited reserve the right to change product specifications without notice. For the most recent specifications, please visit our website: [www.daiken-nz.com](http://www.daiken-nz.com)

All Daiken Southland Limited production meets ISO9001 international standard, and the Daiken Southland Limited environment is managed according to ISO14001 international environmental management systems standard. This embodies our commitment to pursuing a path of continual improvement in environmental management.



Quality  
ISO 9001



Environment  
ISO 14001



Health & Safety  
ISO 45001



The mark of  
responsible forestry



**DAIKEN**  
SOUTHLAND LIMITED

**Daiken Southland Limited**

PO Box 189  
Gore, New Zealand

Email [salesdsl@daiken-nz.com](mailto:salesdsl@daiken-nz.com)

**Mataura plant** +64 3 209 3100  
**Auckland branch** +64 9 278 8150