

Specifications for New Zealand/Australian Standards

Density range: 650-850 kg/m ³ • Moisture content range: 5-0% od								
Formaldehyde emissions (desiccator method)					E1 panel ≤ 1.0 mg/litre			
Thickness (mm)	Internal Bond (MPa)		MOR (MPa)		Thickness Swell 24 hr(%)		MOE (MPa)	
	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum
3	1.00	0.6	36	34	25.0	37.5	3500	2800
4	1.00	0.6	45	34	20.0	37.5	3500	2800
4.75	1.00	0.6	45	34	20.0	37.5	3500	2800
6	1.00	0.6	45	30	14.0	28.0	4000	2600
9	0.9	0.5	35	28	10.0	15	2600	2400
12	0.9	0.5	35	28	10.0	15.0	3000	2400
15	0.9	0.45	35	26	8.0	12.0	3200	2000
16	0.9	0.45	35	26	8.0	12.0	3200	2000
18	0.9	0.45	35	26	6.0	12.0	3200	2000
25	0.8	0.4	35	23	5.0	10	3400	1800

Density range: 550-650 kg/m ³ • Moisture content range: 5-10% od								
Formaldehyde emissions (desiccator method)					E1 panel ≤ 1.0 mg/litre – E0 panel ≤ 0.5 mg/litre			
Thickness (mm)	Internal Bond (MPa)		MOR (MPa)		Thickness Swell 24 hr (%)		MOE (MPa)	
	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum
12	0.8	0.5	30	16	10	NA	3000	NA
16	0.8	0.45	30	24	9.0	NA	2500	NA
18	0.80	0.45	30	24	8.0	NA	2800	NA
30	0.65	0.4	25	21	4.5	NA	2400	NA

Density range: 550-650 kg/m ³ • Moisture content range: 5-10% od											
Formaldehyde emissions (desiccator method)						SEO panels ≤0.3mg/litre					
Thickness (mm)	Density Range (kg/m ³)	Internal Bond (MPa)		MOR (MPa)		Thickness Swell 24hr(%)		MOE (MPa)		Wet MOR (MPa)	
		Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum
12	675-750	1.4	0.6	35	28	8.0	12.0	3000	2400	7.0	6.0
18		1.3	0.5	38	26	4.0	9.0	3100	2000	6.0	5.0
25	650-750	1.2	0.45	35	23	3.8	9.0	3000	1800	5.0	4.0

Moisture content range: 5-10% od											
Formaldehyde emissions (desiccator method)						SEO panels ≤0.5mg/litre					
Thickness (mm)	Density Range (kg/m ³)	Internal Bond (MPa)		MOR (MPa)		Thickness Swell 24hr(%)		MOE (MPa)		Wet MOR (MPa)	
		Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum	Customwood Typical	AS/NZA 1859.2:2004 minimum
9	675-750	1.4	0.6	35	28	10.0	12.0	3000	2400	7.0	6.0
16		1.2	0.5	36	26	5.0	9.0	2900	2000	6.0	5.0
18		1.2	0.5	38	26	4.5	9.0	3100	2000	6.0	5.0
30	560-650	1.0	0.45	32	23	3.8	9.0	2600	1800	5.0	4.0

Dimension	Customwood Typical	AS/NZA 1859.2:2004 tolerances
Thickness (mm)	+/- 0.15	+/- 0.2
Length and Width (mm)	+/- 2.0	+/- 5.0
Diagonal Difference (mm)	≤ 3.0	NA

Density range: 550-650 kg/m ³ • Moisture content range: 5-10% otd							
Formaldehyde emissions (desiccator method)					E1 panel ≤1.0 mg/litre		
Thickness (mm)	Density Target (kg/m ³)	Thickness Tolerance	Length and Width (mm)	Diagonal Difference (mm)	Internal Bond (MPa)	MOR (MPa)	Specific Weight (kg/m ²)
9	350	+/- 0.5	+/- 0.2	3.0	≥ 0.10	≥ 2	3.2
28.5		+/- 0.3	+/- 0.2	3.0	≥ 0.10	≥ 2	10.0
12	400	+/- 0.3	+/- 0.2	3.0	≥ 0.15	≥ 8	4.8
18		+/- 0.3	+/- 0.2	3.0	≥ 0.15	≥ 8	7.2
30		+/- 0.3	+/- 0.2	3.0	≥ 0.15	≥ 8	12.0
18	520	+/- 0.2	+/- 0.2	3.0	≥ 0.50	≥ 15	9.4
30		+/- 0.3	+/- 0.2	3.0	≥ 0.50	≥ 15	15.6

We guarantee that Customwood will meet the minimum specifications on the properties described above according to AS/NZS 1859.2:2004

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 products properties and dimensions will change. Appropriate design and storage measures have to be taken to minimize 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 3 mm/m) if exposed to ambient air with more than 65%RH and will shrink (up to 3 mm/m) if exposed to ambient air with less than 65%RH.



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