Customwood Specifications

JIS and ULEF Accredited Products, Specifications

Table interpretation

JIS in the table header refers to the quality of MDF required according to JIS A 5905:2003.
NR denotes that property is not required for the product type. NA denotes that the property is not tested.
Density unit in JIS A 5905:2003 is [g/cm^3]; 100 [kg/m3] = 0.1 [g/cm^3].
MOR = Bending strength MOE = Bending Young's modulus.
All F★★★★ (4 Star) and F★★★ (3 Star) share the same physical properties.
Formaldehyde emission of Customwood is according to JIS A 5905:2003 limits.
All F★★★★ (4 Star) products are ULEF compliant.

Symbol	Formaldehyde emission quantity	
	Mean	Maximum
F★★★★	0.3 mg/L or under	0.4 mg/L or under
F★★★	0.5 mg/L or under	0.7 mg/L or under
ULEF Thick	Chamber Test Maximum 0.09 ppm	
ULEF Thin	Chamber Test Maximum 0.11 ppm	

Classification		Generic Product Name	Density [kg/m^3] Typical • Low • High • JIS	Moisture [%] Range • JIS	Thickness Swell [%] Typical • High • JIS	Internal Bond [N/mm^2] Typical • Low • JIS	Screw Holding [N] Low • JIS	MOR [N/mm^2] Typical • Low • JIS	MOE [N/mm^2] Typical • Low • JIS
U Type 30	F★★★★ And F★★★	4.0 mm Standard	800 • 750 • 900 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	20 • 24 • NR	1.4 • 1.0 • ≥0.5	NA	45 • 30 • 30	3500 • 1000 • NR
		5.5 mm Standard			16 • 19 • NR	1.4 • 1.0 • ≥0.5			3600 • 1000 • NR
		6.0 mm Standard			14 • 16 • NR	1.3 • 1.0 • ≥0.5			4000 • 1000 • NR
U Type 25	F★★★★ And F★★★	2.5 mm Standard	790 • 735 • 900 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	24 • 30 • NR	1.4 • 1.0 • ≥0.4	NA	36 • 25 • ≥25	3400 • 1000 • NR
		2.7 mm Standard	800 • 735 • 900 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	24 • 30 • NR	1.4 • 1.0 • ≥0.4	NA	36 • 25 • ≥25	3500 • 1000 • NR
		3.0 mm Standard	800 • 745 • 900 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	24 • 30 • NR	1.4 • 1.0 • ≥0.4	NA	36 • 25 • ≥25	3500 • 1000 • NR
		3.5 mm Standard	800 • 745 • 900 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	21 • 26 • NR	1.4 • 1.0 • ≥0.4	NA	36 • 25 • ≥25	3500 • 1000 • NR
		7.0 mm Standard	760 • 710 • 810 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	15 • 18 • NR	0.9 • 0.7 • ≥0.4	NA	30 • 25 • ≥25	3300 • 1000 • NR
		9 mm Standard	725 • 675 • 775 • ≥350	≥5.5 to ≤9.5 • ≥5.0 to ≤13.0	12.5 • 14 • NR	0.9 • 0.7 • ≥0.4	NA	35 • 25 • ≥25	2500 • 1000 • NR
		12 mm Standard	720 • 675 • 775 • ≥350	≥5.5 to ≤9.5 • ≥5.0 to ≤13.0	8 • 12 • NR	0.9 • 0.7 • ≥0.4	NA	35 • 25 • ≥25	3000 • 1000 • NR
		12 mm Light	600 • 550 • 650 • ≥350	≥5.5 to ≤9.5 • ≥5.0 to ≤13.0	10 • 12 • NR	0.9 • 0.6 • ≥0.4	NA	30 • 25 • ≥25	2500 • 1000 • NR
		15 mm Light	600 • 550 • 650 • ≥350	≥5.5 to ≤9.5 • ≥5.0 to ≤13.0	9 • 11 • NR	0.9 • 0.6 • ≥0.4	400 • ≥400	30 • 25 • ≥25	2500 • 1000 • NR

Export & Domestic E1 and Domestic E0 (as per AS/NZS 1859.2:2004)

(E1 product is not JIS accredited.)

Type	Thickness (mm)	Density [kg/m³] Typical • Low • High	Moisture [%] Range	Thickness Swell [%] Typical • High	Internal Bond [N/mm²] Typical • Low	MOR [N/mm²] Typical • Low	MOE [N/mm²] Typical • Low
Light Density (CARB P2)	12	600 • 550 • 650	≥5.0 to ≤10.0	8 • 10	0.8 • 0.6	33 • 24	2500 • 2000
	16			5 • 6.5			
	18			5 • 6.5			
	30			3.5 • 5	0.7 • 0.5	35 • 25	2800 • 2200

Type	Thickness (mm)	Density [kg/m³] Typical • Low • High	Moisture [%] Range	Thickness Swell [%] Typical • High	Internal Bond [N/mm²] Typical • Low	MOR [N/mm²] Typical • Low	MOE [N/mm²] Typical • Low
Ultra Light Density (CARB P2)	6	500 • 500 • 600	≥5.0 to ≤10.0	16.5 • 18.5	0.7 • 0.5	24 • 17	2400 • 1400
	12	520 • 450 • 580		8.5 • 10.5		24 • 20	2400 • 2000
	15			6.5 • 8.5		24 • 17.5	2400 • 1750
	18			5.5 • 7.5		24 • 15	2400 • 1500
	25			4 • 7		24 • 19.5	2400 • 1850
	30	550 • 500 • 660		3.3 • 5		24 • 15	2400 • 2000

Domestic E1 - MUF

(E1 product is not JIS accredited.)

Type	Thickness (mm)	Density [kg/m³] Typical • Low • High	Moisture [%] Range	Thickness Swell [%] Typical • High	Internal Bond [N/mm²] Typical • Low	MOR [N/mm²] Typical • Low	MOE [N/mm²] Typical • Low
MUF (E1)	12	725 • 675 • 800	≥5.0 to ≤10.0	8 • 10	1.6 • 0.9	24 • 20	2400 • 2000
	16			7 • 9	1.6 • 0.9	24 • 17.5	2400 • 1750
	18			5 • 7		24 • 15	2400 • 1500
	25			4 • 5.5		24 • 19.5	2400 • 1850

JIS Accredited Products, Specifications

Classification		Generic Product Name	Density [kg/m^3] Typical • Low • High • JIS	Moisture [%] Range • JIS	Thickness Swell [%] Typical • High • JIS	Internal Bond [N/mm^2] Typical • Low • JIS	Screw Holding [N] Low • JIS	MOR [N/mm^2] Typical • Low • JIS	MOE [N/mm^2] Typical • Low • JIS
U Type 25	F★★★★ And F★★★	15 mm Standard	720 • 675 • 775 • ≥350	7 • 10 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3300 • 1000 • NR	
		18 mm Light	600 • 550 • 650 • ≥350	7 • 10 • NR	0.9 • 0.6 • ≥0.4	400 • ≥400	30 • 25 • ≥25	2800 • 1000 • NR	
		18 mm Standard	720 • 675 • 775 • ≥350	6 • 10 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3200 • 1000 • NR	
		20 mm Standard	720 • 675 • 775 • ≥350	6 • 8 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3200 • 1000 • NR	
		21 mm Light	600 • 550 • 650 • ≥350	6 • 8 • NR	0.9 • 0.6 • ≥0.4	400 • ≥400	30 • 25 • ≥25	2800 • 1000 • NR	
		21 mm Standard	720 • 675 • 775 • ≥350	6 • 8 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3200 • 1000 • NR	
		24 mm Light	600 • 550 • 650 • ≥350	5 • 7 • NR	0.9 • 0.6 • ≥0.4	400 • ≥400	28 • 25 • ≥25	3000 • 1000 • NR	
		24 mm Standard	675 • 625 • 725 • ≥350	5 • 7 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3000 • 1000 • NR	
		25 mm Standard	675 • 625 • 725 • ≥350	5 • 7 • NR	0.9 • 0.7 • ≥0.4	400 • ≥400	35 • 25 • ≥25	3400 • 1000 • NR	
	F★★★★	30 mm Light (630)	630 • 580 • 730 • ≥350	≥6.0 to ≤10.0 • ≥5.0 to ≤13.0	4.5 • 6 • NR	0.65 • 0.45 • ≥0.4	400 • ≥400	30 • 25 • ≥25	3000 • 1000 • NR
U Type 15	F★★★★ And F★★★	7.0 mm Light	650 • 600 • 700 • ≥350	≥6.0 to ≤11.0 • ≥5.0 to ≤13.0	15 • 18 • NR	0.9 • 0.6 • ≥0.3	NA	30 • 15 • ≥15	3000 • 1000 • NR
	F★★★	30 mm Light (550)	550 • 500 • 600 • ≥350	≥6.0 to ≤10.0 • ≥5.0 to ≤13.0	4.5 • 6 • NR	0.65 • 0.45 • ≥0.3	350 • ≥350	25 • 15 • ≥15	2400 • 1000 • NR

Export & Domestic E1 and Domestic E0 (as per AS/NZS 1859.2:2004)

(E1 product is not JIS accredited.)

Type	Thickness (mm)	Density [kg/m³] Typical • Low • High	Moisture [%] Range	Thickness Swell [%] Typical	Internal Bond [N/mm²] Typical • Low	MOR [N/mm²] Typical • Low	MOE [N/mm²] Typical • Low
Medium Density Standard (CARB P2)	2.5	790 • 735 • 900	≥5.0 to ≤10.0	25	1.4 • 1.0	37 • 27	3500 • 2800
	2.6, 2.7, 2.8	800 • 750 • 900		25			
	3, 3.2, 3.6, 3.7	800 • 750 • 900		20		45 • 35	
	4, 4.2, 4.5			20			
	4.75			14			
	5.5, 6			10			4000 • 3000
	8.5, 9	725 • 675 • 775		10	0.9 • 0.7	40 • 30	3200 • 1000
	12			8			3200 • 1000
	15			8			
	16			8			
	17			7			
	18			6			
	20			6			
	21			6			
	22			6			
	24, 25	675 • 625 • 725		5		35 • 25	2800 • 2200

DAIKEN
NEW ZEALAND LIMITED

Daiken New Zealand Limited

Upper Sefton Road, Ashley
Rangiora 7472, New Zealand
Private Bag 1001, Rangiora 7440
Tel +64 3 313 6819
Fax +64 3 313 6830
info@daiken-nz.com