

Weight	Thickness (mm)	Size (mm)	Mass (kg/sheet)*	Density (± 10%)
	6	1220 x 2440	18 kg	1000kg / m ³
	9	1220 x 2440	27 kg	1000kg / m ³
	12	1220 x 2440	36 kg	1000kg / m ³
	15	1220 x 2440	45 kg	1000kg / m ³
	18	1220 x 2440	54 kg	1000kg / m ³
Thickness tolerance	± 0.5mm			
Length	± 1.5mm			
Width	± 1.5mm			
Squareness	≤3mm diagonal difference			
Bonding Agent	PalmEco is odourless and bonding agent is free from formaldehyde			
Fire Rating	Test to BS476 part 4 1970 and non-combustible, Class A1 (GB8624-2006) (similar to US & Canada / US ASTM E136-non combustible), ASTM E119 – 2 hrs			
Water Absorption	4.46% (ASTM C473, Class 20), 23.89% (ASTM C1185 - 08 Class 9)			
Sound Insulation	6mm - Frequency 4200 (Hz), SRI 35 (dBm) 9mm - Frequency 4200 (Hz), SRI 35(dBm) 12mm- Frequency 4200 (Hz), SRI 33 (dBm)			
Dimensional Stability	Thickness swelling after 24 hours immersion		0.2%	
	Thickness after freeze/thaw test		- 0.1%	
	Moisture exposure elongation rate (12mm)		0.12-0.14 (CN14164-1208)	
	Heat exposure deformation rate		≤ 0.2%	
Mechanical & Physical Properties	Density		1000 kg/m ³	
	Flexural strength* (ASTM C473, Clause 11)* 12 mm PalmEco		9.74-10.44 Mpa	
	Flexural strength 6mm – 18mm		≥ 16Mpa - 6Mpa	
	Moisture content		≤ 12%	
	Moisture exposure expansion rate (GB/T 17657-1999)		≤ 0.2%	
	Surface alkalinity		8-9pH	
	Thermal conductivity		0.124w/mk	
Water Endurance Test	No bloating on reverse side	Rate of swelling	≤0.6% (GB / T7019)	
		Rate of shrinkage	≤0.3% (GB / T7019)	
		Occurrence of breakage	Level 0 (GB17657)	
Biological Resistance	Rodent resistance		Highly resistant	
	Termite resistance		No damage	
	Resistance to bacteria		Highly resistant	
	Resistance to mildew growth		No growth	

Remarks

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