

**PLYWOOD TECHNICAL DATA SHEET
(PERFORMANCE CHARACTERISTIC)
MALAYSIAN TROPICAL MEDIUM LIGHT HARDWOOD
MARINE II PLYWOOD TO BS1088:2003**

Thickness/mm (EN 324:1993)	Type	18mm / 9 plies			
	Min	17.06	Veneer Thickness (mm)	Face/ Back	0.75
	Max	18.74		Short Core	3.50
	Lay-up	- - - - - - -		Long Core	0.75

Dimensional Tolerance (EN 324: 1993)				
Length & Width	± 3.5mm			
Squareness	± 1 mm/m			
Straightness	± 1 mm/m			
Bonding Quality/ durability				
	Bonding Class 3			
Bending Strength and Stiffness	F20/F35, E60/100	Result	F = 42.797 / 68.093	
			E = 6052.650 / 10254.750	
Type of Glue	Phenol Formaldehyde HL-4645			
Release of formaldehyde	Class E1 (EN 13986:2004 +A1:2015 Annex B for Phenol formaldehyde adhesives)			
Density	≥ 500kg/m ³	Result	679.214 kg/m ³	
Reaction to fire	D-s2, d0 (EN 13986:2004 +A1:2015 Tab. 8 for density ≥ 400kg/m ³ and thickness ≥ 9mm)			
Water vapour permeability	Interpolated from EN13986:2004 +A1:2015 Tab. 9 for density 500kg/m ³			
	wet cup	70	dry cup	200
Airborne sound insulation	Calculated per EN 13986:2004 +A1:2015 section 5.10 using formula:			
	$R = 13 \times lg (m_A) + 14$			
Sound absorption coefficient	EN 13986:2004 +A1:2015 Tab. 10			
	250 - 500 Hz: 0.10	1000 - 2000 Hz: 0.30		
Thermal conductivity	Interpolated from EN13986:2004 +A1:2015 Tab. 11 for density 500kg/m ³			
	$\lambda = 0.13 \text{ W / (m.K)}$			
Content of pentachlorophenol	EN 13986:2004 +A1:2015 section 5.18			