

TECHNICAL PROPERTIES

Masterboard^{fi}

PROPERTIES	DESCRIPTIONS	UNITS	VALUES
The Board	Thickness	mm	6 / 9 / 12 / 15 / 20
	Width*	mm	610 / 1220
	Length*	mm	610 / 1220 / 1830 / 2440
	Weight (approx.)	kg/m ²	6 for 6mm board 9 for 9mm board 11 for 12mm board 14 for 15mm board 19 for 20mm board
Density	Normal dry density	kg/m ³	910 (± 10%)
Strength	Flexural strength, across grain	MN/m ²	9
	Flexural strength, along grain	MN/m ²	6
	Maximum allowable compressive load	MN/m ²	17
	Flexural Modulus of Elasticity, dry	GN/m ²	5.5
	Sag when suspended at 600mm span	mm	1.5 for 6mm board 1 for 9mm board 1 for 12mm board
Bending Radius	Minimum bending radius for board at ambient:		
	Along grain	mm	4800 for 6mm board 7200 for 9mm board 9600 for 12mm board
	Across grain	mm	5400 for 6mm board 8200 for 9mm board 10900 for 12mm board
Effect of Moisture	Moisture movement (ambient to saturated)	%	0.40
	Nominal moisture content:		
	Ex work	%	10 to 15
	In situ at EMC	%	3 to 5
Thermal Performance	Thermal conductivity	W/m·K	0.210
	Thermal movements (100-25°C)	m/m·C	2.4 x 10 ⁻⁶
	Thermal shrinkage (4 hr/300°C)	%	14
Fire Performance	Surface spread of flame (BS476: Part 7)		Class 1
	Building Regulations Classification (BS476: Part 6)		Class 0
Tolerances	Manufacturing tolerances:		
	Length	mm	± 5
	Width	mm	± 5
	Thickness	mm	± 0.5 for 6mm board ± 0.5 for 9mm board ± 0.5 for 12mm board
	Difference of diagonals	mm	Max. 3

*Equivalent metric sizes are available and a maximum length of 3050mm and width of 1250mm can be produced to special order.