

SAFEBOARD® MODULAR COMPOSITE PANEL (MCP)

TECHNICAL DATA SHEET

SAFEBOARD

THE PROFESSIONAL'S CHOICE™

SAFEBOARD™ MCP (Modular Composite Panel) is the next generation of plywood replacement for the construction industry. MCP is a composite panel developed specifically to replace plywood in any application. MCP has the following benefits over regular forms of plywood:

- Non-rotting and non-molding
- Certified for wet environment installations
- Dimensionally stable (does not deform in normal usage)
- Extreme temperature resistance and fire self-extinguishing
- High density and compressive strength
- Excellent chemical, fire, and thermal resistance
- Can easily handle high mechanical loads

SAFEBOARD™ MCP is easily cut, routed-out, handled, and installed. It has an incredibly strong bond to any surface using SAFEBOND Hybrid Adhesive. MCP supports and bonds to all SAFEBOARD™ Products. MCP has incredible nail-holding strength, meaning it will have a safe and permanent installation once fastened to itself or a substrate.

Specification	Data	Unit
Density	550	kg/m ³
Dimensions	4' x 8' x 5/8"; 4' x 8' x 2"	
Thermal Conductivity	d≤40mm, 40<d≤60mm, d>60mm	at thickness
Nominal Value	0.083, 0.085, 0.088	W/(m*K)
Compressive Strength (10% Comp.)	7.1	MPa
Long-term pressure load <2% comp.	1.8	MPa
Tensile Strength perp. to panel plane	800	kPa
Bending Strength	4.5	MPa
E-Module (Bending Load)	30	MPa
Transverse Strength	1-1.5	MPa
Shear Strength	1-1.5	MPa
Screw Surface Removal Resistance	(Screw = woodscrew 6x60) 11.35	N/mm ²
Screw Narrow Edge Removal Resistance	(Screw = woodscrew 6x60) 8.0	N/mm ²
Screw Head Pull-Through Resistance	(Screw = woodscrew 6x60) 29.0	N/mm ²
Reaction to Fire Class / RtF	E	
Temperature Resistance	-58 to +212, short-term to +482°C	°F
Moisture Absorption	≤3	% by mass
Water Absorption	≤0.5	kg/m ²
Thickness Swelling	≤0.8	%
Water Vapour Diffusion Resistance Factor	8	
Linear Expansion Coefficient	5*10 ⁻⁵	1/K

Thickness	Unit	5/8"	2"
Thermal Resistance	Rd [(m ² *K)/W]	0.2	0.55
Heat Transition Coefficient	Ud [(m ² *K)/W]	2.94	1.45
Vapour Diffusion Resistance	Sd [m]	0.16	0.4

