



ARMOROC PANEL | Cement Bonded Particle Board (CBPB)

PHYSICAL & MECHANICAL PROPERTIES		
PROPERTY	VALUE	STANDARD / REFERENCE
Modulus of Elasticity, psi (machine direction, dry)	652,000*	EN 634.2*
Modulus of Rupture, psi	2,611	ASTM C120
Shear Strength, psi	1,308.27	ASTM D732
Bending Strength, psi	1,305*	EN 634.2*
Tensile Strength, psi (machine direction, dry)	963.39	ASTM D1037
Compressive Strength, psi (machine direction, dry)	2,937.96	ASTM D1037
Concentrated Static Load	PASS	ASTM E661
Impact Load Test	PASS	ASTM E661
Thermal Conductivity 7/8" (22mm)	'K' value = 1.511 Btu / hr.ft ² .°F	ASTM C518
	'R' value = 0.669 °F.ft ² .h / Btu	
Linear Variation With Change In Moisture (from 50% to 90% relative humidity)	Length = 0.05% Weight = 2.04%	ASTM D1037
Saturated Thickness Swelling (24-hour water immersion)	Thickness = 0.3% Volume = 0.27% Weight = 9.41%	ASTM D1037
Lateral Nail Resistance Max Load, lbf	491.39	ASTM D1761
Nail Head Pull Through, lbf (dry)	804.04	ASTM D1037
PH Value	11 - 12*	EN 634.2*
Density – Oven Dry	78 lbs/ft ³ *	EN 634.2*
Moisture Content (at 65% RH)	6% - 12% *	EN 634.2*
Frost Resistance	50 cycles, zero damage*	EN 634.2*
Formaldehyde Content	Zero	MSDS
Asbestos Content	Zero	MSDS
Rot & Termite Resistance	Resistant to destruction	Resistant / No Food Value
Surface Burning Characteristics	CLASS A (0 Flame / 0 Smoke)	ASTM E84 - ANSI / UL 723
UL Listed	File # R25825	UL 723
Non-Combustibility	Passed 10 Minute Duration	ASTM E136

* Values marked with an asterik (*) are the minimum allowable performance requirements of the EN 634.2 European Standard for CBPB. ARMOROC® is in compliance with the EN 634.2 and performance against this standard shall be considered superior where applicable.

¹ All ARMOROC® installations must be designed and reviewed by a qualified architect or engineer. Panels perpendicular to supports. Refer to installation specifications for additional information.

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