



ARMOROC PANEL | Cement Bonded Particle Board (CBPB)

SINGLE SPAN LOADING CONDITION				
(FOR PANELS SPANNING ONE SPAN)				
Uniformly Distributed Loads - Lbs per square foot				
Span: Center-to-center of supports (inches)				
ARMOROC PANEL THICKNESS	LOAD GOVERNED BY *	12"	16"	24"
8mm (5/16")	L/360 ▲ limit between supports	30*	12*	3*
	L/240 ▲ limit between supports	43	19*	5*
10mm (3/8")	L/360 ▲ limit between supports	59*	24*	7*
	L/240 ▲ limit between supports	67	37*	11*
12mm (1/2")	L/360 ▲ limit between supports	97	43*	12*
	L/240 ▲ limit between supports	97	54	19*
16mm (5/8")	L/360 ▲ limit between supports	172	97	30*
	L/240 ▲ limit between supports	172	97	43
19mm (3/4")	L/360 ▲ limit between supports	243	136	50*
	L/240 ▲ limit between supports	243	136	60
22mm (7/8")	L/360 ▲ limit between supports	326	183	78*
	L/240 ▲ limit between supports	326	183	81
25mm (1")	L/360 ▲ limit between supports	421	237	105
	L/240 ▲ limit between supports	421	237	105
28mm (1-1/8")	L/360 ▲ limit between supports	528	297	132
	L/240 ▲ limit between supports	528	297	132
32mm (1-1/4")	L/360 ▲ limit between supports	690	388	172
	L/240 ▲ limit between supports	690	388	172
38mm (1-1/2")	L/360 ▲ limit between supports	973	547	243
	L/240 ▲ limit between supports	973	547	243

* Values marked with an asterisk (*) are governed by the corresponding deflection ratio. All other load values are governed by a bending strength value of 9 N/mm² (1,305 psi), which is the minimum allowable performance requirement of the EN 634-2 European Standard for CBPB. ARMOROC[®] performance against the EN 632-2 shall be considered superior.

¹ If ARMOROC[®] panels are allowed to become saturated, reduce live load working capacity by approximately 30% until panels have re-dried. All load data remains valid for re-dried panels.

² A safety factor of 4 was applied during the preparation of the data presented in this table.

³ Weight of panel and flooring must be subtracted from table values to calculate live load capacity.

⁴ Values in this table generated by Progressive Engineering Inc., PEI Project No. 2007-1708-1, using an average shear strength of 1,308 psi from Bodycote test report No. 06-06-M0351 Revision 3, Table 24.

⁵ 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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