

313003 - Plycem Allowable Load Table
Allowable Uniformly Distributed Loads (psf) on Plycem Boards

Plycem Board Thickness	Load Condition	Load Governed by:	SPAN: Center-to-center of supports (inches)					
			Short Direction (CD) of Plycem Board Across Supports.			Long Direction (MD) of Plycem Board Across Supports.		
			12"	16"	24"	12"	16"	24"
11 mm (7/16")	LL	$\Delta = L/360$	59	25	7	65	27	8
	DL + LL	$\Delta = L/240$	89	37	11	98	41	12
		Strength	102	57	25	149	84	37
		Control for DL+LL	89	37	11	98	41	12
14 mm (9/16")	LL	$\Delta = L/360$	102	43	12	112	47	14
	DL + LL	$\Delta = L/240$	153	64	19	169	71	21
		Strength	150	84	37	220	124	55
		Control for DL+LL	150	64	19	169	71	21
17 mm (11/16")	LL	$\Delta = L/360$	190	80	23	208	88	26
	DL + LL	$\Delta = L/240$	285	120	35	313	132	39
		Strength	232	130	58	340	191	85
		Control for DL+LL	232	120	35	313	132	39
20 mm (13/16")	LL	$\Delta = L/360$	311	131	38	342	144	42
	DL + LL	$\Delta = L/240$	467	197	58	513	216	64
		Strength	326	183	81	478	268	119
		Control for DL+LL	326	183	58	478	216	64
22 mm (7/8")	LL	$\Delta = L/360$	378	159	47	415	175	51
	DL + LL	$\Delta = L/240$	567	239	70	623	262	77
		Strength	377	212	94	553	311	138
		Control for DL+LL	377	212	70	553	262	77
25 mm (1")	LL	$\Delta = L/360$	525	221	65	577	243	72
	DL + LL	$\Delta = L/240$	788	332	98	865	365	108
		Strength	518	291	129	760	427	190
		Control for DL+LL	518	291	98	760	365	108
30 mm (19/16")	LL	$\Delta = L/360$	803	338	100	881	371	110
	DL + LL	$\Delta = L/240$	1205	508	150	1322	557	165
		Strength	724	407	181	1062	597	265
		Control for DL+LL	724	407	150	1062	557	165

Notes:

1. Supports shall be a minimum of 1.5" wide.
2. Material shall be stored and used in a dry condition - less than or equal to 4% moisture content.
3. Material shall be manufactured under a quality control program which is monitored 4 times a year by Ramtech Laboratories.
4. Material produced under the Quality Control program shall have the same structural properties as the material used for testing to substantiate allowable loads.
5. All surfaces of each board shall be sealed to prevent penetration of moisture into the material.
6. $= 144 * 8 * MOR_{Allow} * S / (b * Spacing^2)$ - Rounded Down
7. $= 144 * \Delta_{Limit} * 384 * E * I / (5 * b * Spacing^4)$ - Rounded Down
8. User must consider both Live Load (LL) and Dead Load (DL) + LL combinations. The controlling value for these two Load combinations shall be used for design.
9. MD = Machine Direction. CD = Cross Machine Direction.

