

2.0E LVL

STANDARD SIZES AVAILABLE (INCHES)

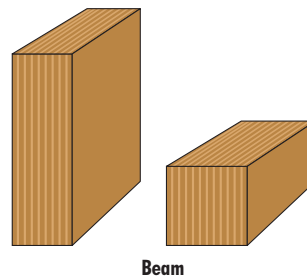
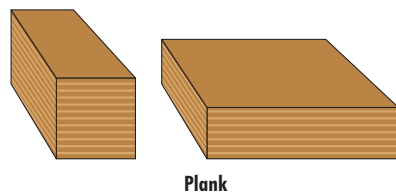
Widths	1½	1¾	2¼	2½	3½
Depths	3½	5½	7¼	9¼	11¼



2.0E LVL DESIGN VALUES

	FORMWORK	REFERENCE
Apparent Modulus of Elasticity, E	1800000 psi ⁽²⁾	2000000 psi
Bending (beam), F _b	3488 psi ^(2, 3, 4)	3100 psi
Bending (plank), F _b	3488 psi ^(2, 3, 5)	3100 psi
Compression Perpendicular to Grain (beam), F _{c⊥}	765 psi ⁽²⁾	850 psi
Compression Perpendicular to Grain (plank), F _{c⊥}	405 psi ⁽²⁾	450 psi
Compression Parallel to Grain, F _c	3094 psi ^(2, 3)	2750 psi
Horizontal Shear (beam), F _v	321 psi ^(2, 3)	285 psi
Horizontal Shear (plank), F _v	169 psi ^(2, 3)	150 psi
Equivalent specific gravity for lateral fastener design	0.50	0.50

1. See APA PR-L233
2. Adjusted by C_M = 0.90 for unprotected use
3. Adjusted by C_D = 1.25 for construction load duration
4. Adjust by (12/d)^{1/5}, where d is the depth of the member [inches]
5. Adjust by (1.75/d)^{1/3}, where d is the depth of the member [inches]



2.0E LVL FORMWORK DESIGN VALUES⁽¹⁾⁽²⁾

Width	Design Property	Depth				
		3½"	5½"	7¼"	9¼"	11¼"
1½"	Moment [ft-lb]	1139	2569	4224	6549	9315
	Shear [lb]	1122	1763	2325	2966	3607
	EI [x 10 ⁶ lb-in ²]	10	37	86	178	320
	Weight [plf]	1.4	2.1	2.8	3.6	4.4
1¾"	Moment [ft-lb]	1329	2997	4928	7640	10868
	Shear [lb]	1309	2057	2712	3460	4208
	EI [x 10 ⁶ lb-in ²]	11	44	100	208	374
	Weight [plf]	1.6	2.5	3.3	4.2	5.1
2¼"	Moment [ft-lb]	1708	3853	6336	9823	13973
	Shear [lb]	1683	2645	3487	4449	5411
	EI [x 10 ⁶ lb-in ²]	14	56	129	267	481
	Weight [plf]	2.0	3.2	4.2	5.4	6.6
2½"	Moment [ft-lb]	1898	4282	7040	10915	15525
	Shear [lb]	1870	2939	3874	4943	6012
	EI [x 10 ⁶ lb-in ²]	16	62	143	297	534
	Weight [plf]	2.3	3.6	4.7	6.0	7.3
3½"	Moment [ft-lb]	1648	5994	9856	15281	21735
	Shear [lb]	1378	4115	5424	6920	8416
	EI [x 10 ⁶ lb-in ²]	23	87	200	416	748
	Weight [plf]	3.2	5.0	6.6	8.4	10.2

Notes:

(1) Moment, shear and EI have been adjusted by C_M = 0.90 for unprotected use. Moment and shear have also been adjusted by C_D = 1.25 for construction load duration.

(2) Values are for beam orientation except in shaded cells.

■ Values in shaded cells are for either plank or beam orientation.