

# 2.0E LVL

## STANDARD SIZES AVAILABLE (INCHES)

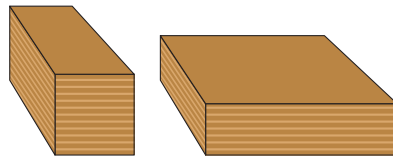
<b>Widths</b>	1½	1¾	2¼	2½	3½
<b>Depths</b>	3½	5½	7¼	9¼	11¼



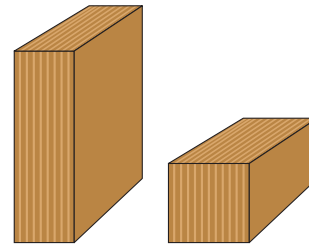
## 2.0E LVL DESIGN VALUES

	Formwork	Reference
Apparent Modulus of Elasticity, E	1800000 psi <sup>(2)</sup>	2000000 psi
Bending (beam), F <sub>b</sub>	3488 psi <sup>(2, 3, 4)</sup>	3100 psi
Bending (plank), F <sub>b</sub>	3488 psi <sup>(2, 3, 5)</sup>	3100 psi
Compression Perpendicular to Grain (beam), F <sub>cL</sub>	765 psi <sup>(2)</sup>	850 psi
Compression Perpendicular to Grain (plank), F <sub>cL</sub>	405 psi <sup>(2)</sup>	450 psi
Compression Parallel to Grain, F <sub>c</sub>	3094 psi <sup>(2, 3)</sup>	2750 psi
Horizontal Shear (beam), F <sub>v</sub>	321 psi <sup>(2, 3)</sup>	285 psi
Horizontal Shear (plank), F <sub>v</sub>	169 psi <sup>(2, 3)</sup>	150 psi
Equivalent specific gravity for lateral fastener design	0.50	0.50

1. See APA PR-L233
2. Adjusted by C<sub>M</sub> = 0.90 for unprotected use
3. Adjusted by C<sub>D</sub> = 1.25 for construction load duration
4. Adjust by (12/d)<sup>1/5</sup>, where d is the depth of the member [inches]
5. Adjust by (1.75/d)<sup>1/3</sup>, where d is the depth of the member [inches]



Plank



Beam

## 2.0E LVL FORMWORK DESIGN VALUES<sup>(1)(2)</sup>

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 <sup>6</sup> lb-in <sup>2</sup> ]	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 <sup>6</sup> lb-in <sup>2</sup> ]	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 <sup>6</sup> lb-in <sup>2</sup> ]	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 <sup>6</sup> lb-in <sup>2</sup> ]	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 <sup>6</sup> lb-in <sup>2</sup> ]	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<sub>M</sub> = 0.90 for unprotected use. Moment and shear have also been adjusted by C<sub>D</sub> = 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.