



**SUSTAINABLE
FORESTRY
INITIATIVE**

Good for you. Good for our forests.[®]
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A better alternative than traditional sawn lumber pieces.

1.8E PWLVL

1 1/2" x 1.8E PWLVL REFERENCE DESIGN VALUES

Depth	Maximum Vertical Shear (lb)			Maximum Bending Moment (ft-lb)			EI (x 10 ⁶ lb-in ²)	Weight (plf)
	100%	115%	125%	100%	115%	125%		
3 1/2"	998	1147	1247	898	1033	1122	10	1.4
5 1/2"	1568	1803	1959	2026	2330	2532	37	2.1
7 1/4"	2066	2376	2583	3331	3830	4163	86	2.8
9 1/4"	2636	3032	3295	5164	5939	6455	178	3.6
9 1/2"	2708	3114	3384	5418	6231	6772	193	3.7
11 1/4"	3206	3687	4008	7345	8447	9181	320	4.4
11 1/8"	3384	3892	4230	8096	9310	10120	377	4.6
14"	3990	4589	4988	10888	12521	13610	617	5.5
16"	4560	5244	5700	13847	15924	17308	922	6.2
18"	5130	5900	6413	17117	19684	21396	1312	7.0
20"	5700	6555	7125	20691	23795	25864	1800	7.8
22"	6270	7211	7838	24563	28248	30704	2396	8.6
24"	6804	7825	8505	28459	32728	35574	3062	9.3

1.8E PWLVL Reference Design Values⁽¹⁾

Modulus of Elasticity $E = 1,800,000 \text{ psi}^{(2)}$

Bending (beam) $F_b = 2,750 \text{ psi}^{(3)(4)}$

Horizontal Shear (beam) $F_v = 285 \text{ psi}$

Compression Perpendicular to Grain (beam) $F_{cL} = 850 \text{ psi}^{(2)}$

- Values apply to dry service conditions
- Do not adjust for load duration
- Adjust by $(12/d)^{1/5}$, where d is the depth of the member [inches]
- Adjust by 1.04 for repetitive members as defined in the *ANSI/AWC NDS*

LVL SEALER

Pacific Woodtech's LVL has a wax-based sealer specifically formulated for laminated veneer lumber to help protect it from weather during storage and construction. The sealer helps to reduce the rate of moisture absorption and increases protection from UV rays.

1 3/4" x 1.8E PWLVL REFERENCE DESIGN VALUES

Depth	Maximum Vertical Shear (lb)			Maximum Bending Moment (ft-lb)			EI (x 10 ⁶ lb-in ²)	Weight (plf)
	100%	115%	125%	100%	115%	125%		
3 1/2"	1164	1338	1455	1048	1205	1310	11	1.6
5 1/2"	1829	2103	2286	2363	2718	2954	44	2.5
7 1/4"	2411	2772	3013	3886	4469	4857	100	3.3
9 1/4"	3076	3537	3845	6025	6928	7531	208	4.2
9 1/2"	3159	3633	3948	6321	7269	7901	225	4.3
11 1/4"	3741	4302	4676	8569	9855	10712	374	5.1
11 1/8"	3948	4541	4936	9445	10862	11807	440	5.4
14"	4655	5353	5819	12703	14608	15879	720	6.4
16"	5320	6118	6650	16154	18578	20193	1075	7.3
18"	5985	6883	7481	19969	22965	24962	1531	8.2
20"	6650	7648	8313	24140	27760	30174	2100	9.1
22"	7315	8412	9144	28657	32956	35822	2795	10.0
24"	7938	9129	9923	33203	38183	41503	3572	10.9

EQUIVALENT SPECIFIC GRAVITY FOR FASTENER DESIGN

Nails & Wood Screws	Face	Edge	Lateral	0.50
		Face		
Bolts & Lag Screws	Face	Lateral	0.50	0.50
		Withdrawal		

AVAILABLE SIZES (INCHES)

1 1/2" 1.8E PWLVL												
3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/8"	14	16	18	20	22	24
1 3/4" 1.8E PWLVL												
3 1/2"	5 1/2"	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 1/8"	14	16	18	20	22	24

For information about Pacific Woodtech's LVL products, please scan this code or visit www.pacificwoodtech.com

