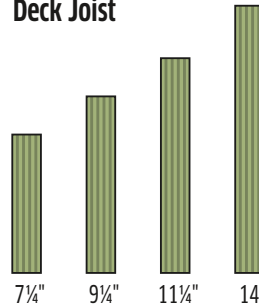


About PWT Treated LVL

PWT Treated LVL is protected against damage caused by fungal rot, decay and wood-destroying insects, including Formosan termites (interior or exterior usage). PWT Treated LVL may be used in exterior construction above-ground applications (UC3B) and for components that are difficult to maintain, repair, or replace and that are critical to the performance and safety of the entire system:

- Deck substructures, exterior columns, sill plates and fascia

1½" PWT Treated LVL Deck Joist



Joist Spans—Improved Performance

DRY USE - 40 PSF LIVE LOAD AND 10 PSF DEAD LOAD - L/480

Product	Nominal Size [in]	Actual Size [in]	With or Without 2' Cantilever		
			Joist Spacing (o.c.)		
			12"	16"	24"
PWT Treated LVL	2 x 6	1½ x 5½	10'- 4"	9'- 4"	8'- 1"
	2 x 8	1½ x 7¼	13'- 7"	12'- 4"	10'- 9"
	2 x 10	1½ x 9¼	17'- 5"	15'- 9"	13'- 7"
	2 x 12	1½ x 11¼	21'- 2"	19'- 2"	16'- 8"
	2 x 14	1½ x 14	26'- 5"	23'- 11"	20'- 9"

DRY USE - 60 PSF LIVE LOAD AND 10 PSF DEAD LOAD - L/480

Product	Nominal Size [in]	Actual Size [in]	With or Without 2' Cantilever		
			Joist Spacing (o.c.)		
			12"	16"	24"
PWT Treated LVL	2 x 6	1½ x 5½	9'- 0"	8'- 1"	7'- 0"
	2 x 8	1½ x 7¼	10'- 6"	9'- 6"	8'- 3"
	2 x 10	1½ x 9¼	13'- 4"	12'- 1"	10'- 7"
	2 x 12	1½ x 11¼	16'- 5"	14'- 10"	12'- 11"
	2 x 14	1½ x 14	20'- 5"	18'- 6"	16'- 0"

Joist Spans—100% Load Duration

DRY USE - 40 PSF LIVE LOAD AND 10 PSF DEAD LOAD - L/360

Product	Nominal Size [in]	Actual Size [in]	With or Without 2' Cantilever		
			Joist Spacing (o.c.)		
			12"	16"	24"
PWT Treated LVL	2 x 6	1½ x 5½	11'- 1"	10'- 1"	8'- 11"
	2 x 8	1½ x 7¼	14'- 10"	13'- 6"	11'- 9"
	2 x 10	1½ x 9¼	18'- 11"	17'- 2"	15'- 0"
	2 x 12	1½ x 11¼	23'- 0"	20'- 11"	18'- 3"
	2 x 14	1½ x 14	28'- 9"	26'- 0"	22'- 9"
Pressure Treated No. 2 Southern pine	2 x 10	1½ x 9¼	15'- 2"	13'- 11"	11'- 7"
	2 x 12	1½ x 11¼	18'- 1"	16'- 4"	13'- 6"
Pressure Treated No. 2 Hem-fir (incised)	2 x 10	1½ x 9¼	14'- 7"	13'- 3"	11'- 3"
	2 x 12	1½ x 11¼	17'- 6"	15'- 7"	12'- 11"

DRY USE - 60 PSF LIVE LOAD AND 10 PSF DEAD LOAD - L/360

Product	Nominal Size [in]	Actual Size [in]	With or Without 2' Cantilever		
			Joist Spacing (o.c.)		
			12"	16"	24"
PWT Treated LVL	2 x 6	1½ x 5½	9'- 10"	8'- 11"	7'- 9"
	2 x 8	1½ x 7¼	12'- 11"	11'- 9"	10'- 3"
	2 x 10	1½ x 9¼	16'- 6"	15'- 0"	13'- 1"
	2 x 12	1½ x 11¼	20'- 2"	18'- 3"	16'- 0"
	2 x 14	1½ x 14	25'- 0"	22'- 9"	19'- 11"
Pressure Treated No. 2 Southern pine	2 x 10	1½ x 9¼	13'- 4"	12'- 0"	10'- 0"
	2 x 12	1½ x 11¼	15'- 10"	14'- 0"	11'- 7"
Pressure Treated No. 2 Hem-fir (incised)	2 x 10	1½ x 9¼	12'- 10"	11'- 7"	9'- 8"
	2 x 12	1½ x 11¼	15'- 2"	13'- 3"	10'- 4"

Notes:

1. End bearing length must be at least 1.5".
2. Minimum bearing at cantilever is 3.5".

3. Maximum cantilever 2' in addition to span shown.
4. Design conditions outside the scope of this guide may be designed using CSD software.

PWT Treated LVL Reference Design Values

True (Shear-Free) Modulus of Elasticity, E = 2,000,000 psi⁽¹⁾⁽⁴⁾

Bending (beam), F_b = 2,800 psi⁽²⁾⁽³⁾

Horizontal Shear (beam), F_v = 285 psi

Compression Perpendicular to Grain (beam), F_{c⊥} = 850 psi⁽⁴⁾

- (1) Do not adjust for load duration.
- (2) Adjust by (12/d)^{0.2}, where d is the depth of the member [inches].
- (3) Adjust by 1.04 for repetitive members as defined in the NDS.
- (4) True (Shear-Free) modulus of elasticity does not account for shear deformation.
- (5) See APA Product Report [PR-L329](#).

PWT Treated LVL Allowable Holes

1. Round holes only. Holes must be drilled with a drill bit or cut with a hole saw.
2. Maximum diameter:
7¼" depth: 1½"
9½" depth and up: 2"
3. Maximum 2 holes per span
4. Minimum clearance from edge of hole to:
edge of adjacent hole: 2 times the diameter of the larger hole
edge of beam: ½ of the beam depth
face of support: 6 inches