



SILL PLATES & WALL FRAMING



PWT Treated™ Sill Plate

- **PWT Treated™ LVL** is Structural Composite Lumber (SCL) that is treated for protection against damage caused by decay, fungal rot, and wood-destroying insects including Formosan termites
- **PWT Treated LVL** may be used in interior or 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 including deck substructures, exterior columns, sill plates and fascia
- **PWT Treated LVL** and its chemical additive do not corrode or damage hardware
- Uniquely protected from the inside out; since there is no treatment gradient there is no need to field treat after cutting or drilling
- Limited 25-year transferable product warranty
- Available in:
1½x3½, 1½x5½, 1½x7¼, 1½x9¼, 1½x11¼



Reference Design Values

DRY USE – 100% LOAD DURATION

	Beam Orientation	Plank Orientation
Modulus of Elasticity, $E^{(1)(4)}$ =	2,000,000 psi	2,000,000 psi
Adjusted Modulus of Elasticity, $E_{min}^{(1)(5)}$ =	985,000 psi	985,000 psi
Bending Stress, $F_b^{(2)(3)}$ =	2,800 psi	2,800 psi
Compression Perpendicular to Grain, $F_{c\perp}^{(1)}$ =	850 psi	650 psi
Compression Parallel to Grain, $F_{c\parallel}$ =	2,500 psi	2,500 psi
Horizontal Shear, F_v =	285 psi	150 psi

- (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) Reference modulus of elasticity for beam and column stability calculations in accordance with the NDS.
- (6) See APA Product Report [PR-L329](#).

EQUIVALENT SPECIFIC GRAVITY FOR CONNECTION DESIGN

Connection Type	Face ⁽¹⁾	Edge ⁽²⁾
Nail - Withdrawal	0.50	0.47
Nail - Lateral	0.50	0.50
Bolt - Lateral	0.50	N/A

- (1) Face: member faces showing the face of one veneer, typically the wide face of the member.
- (2) Edge: member faces showing the narrow edge of all veneers, typically the narrow face of the member.

DRY USE – PLATE BEARING STRESSES

Plate Material	Beam Orientation		Plank Orientation	
	MOE (x 10 ⁶ psi)	$F_{c\perp}$ (psi)	MOE (x 10 ⁶ psi)	$F_{c\perp}$ (psi)
PWT Treated LVL	2.0	850	2.0	650
LP SolidGuard LSL	1.35	750	1.35	685
TJ StrandGuard / TimberStrand LSL	1.3	710	1.3	670
#2 DF (treated-incised)	1.5	625	1.5	625
#2 SYP (treated)	1.4	565	1.4	565
#2 Hem-Fir (treated incised)	1.2	405	1.2	405

