EVERYTHING PWT QUICK GUIDE

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TECHNICAL DATA

For Joists, Headers, Beams, and PWT Treated

PWT FOCUSED ON EWP

PWT™

BUILD SOMETHING STRONGER



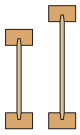
Not all items are available from all mills. Other depths may be available. Contact sales@pacificwoodtech.com for more information.

PWT I-Joist Dimensions

SOLID SAWN FLANGE

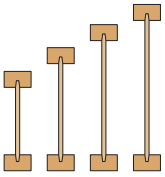
PWI 18S

3/8" OSB Web
2-1/2" x 1-1/2" Flange



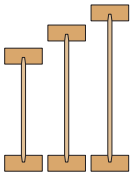
PWI 20S & PWI 32S

3/8" OSB Web
2-1/2" x 1-1/2" Flange



PWI 42S

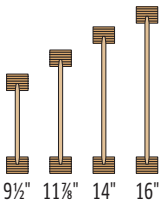
3/8" OSB Web
3-1/2" x 1-1/2" Flange



LVL FLANGE

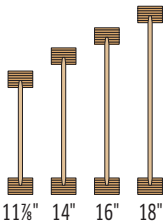
PWI 53L

3/8" OSB Web
2-1/16" x 1-5/16" Flange



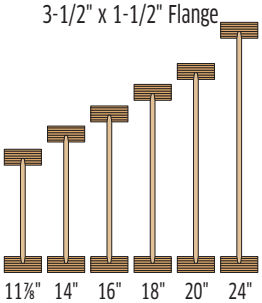
PWI 36L

3/8" OSB Web
2-1/4" x 1-1/2" Flange



PWI 56L

7/16" OSB Web
3-1/2" x 1-1/2" Flange



For more information about our complete line of products, visit pwtewp.com.



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PWT LVL Reference Design Values

1.6E 2250F_b[1][8] (PSI)	
Modulus of Elasticity[2][6], E (x 10^6)	1.6
Bending (beam)[4][5], F_b	2,250
Horizontal Shear (beam), F_v	230
Compression Perpendicular to Grain (beam)[2], F_c	750

	3-1/2"	5-1/2"	7-1/4"	9-1/4"	9-1/2"	11-1/4"	11-7/8"	14"	16"	18"
JOISTS, STUDS, PLATES, TRUSS CHORDS										
1-1/2" x	x	x	x	x	x	x	x	x	x	x
1-3/4" x	x	x	x	x	x	x	x	x	x	x
RIM BOARD										
1-1/4" x					x		x	x	x	
1-1/2" x					x		x	x	x	
1-3/4" x					x	x	x	x	x	

Depths up to 24" are available on special order

2.0E 2900F_b[1][7] (PSI)	
Modulus of Elasticity[2][6], E (x 10^6)	2.0
Bending (beam)[3][5], F_b	2,900
Horizontal Shear (beam), F_v	285
Compression Perpendicular to Grain (beam)[2], F_c	750

	3-1/2"	5-1/2"	7-1/4"	9-1/4"	9-1/2"	11-1/4"	11-7/8"	14"	16"	18"
JOISTS, STUDS, PLATES, TRUSS CHORDS										
1-1/2" x	x	x	x	x	x	x	x	x	x	x
BEAM AND HEADER SIZES										
1-3/4" x	x	x	x	x	x	x	x	x	x	x

Depths up to 24" are available on special order

2.1E 3100F_b[1][8] (PSI)	
Modulus of Elasticity[2][6], E (x 10^6)	2.1
Bending (beam)[4][5], F_b	3,100
Horizontal Shear (beam), F_v	285
Compression Perpendicular to Grain (beam)[2], F_c	850

	3-1/2"	5-1/2"	7-1/4"	9-1/4"	9-1/2"	11-1/4"	11-7/8"	14"	16"	18"
BEAM AND HEADER SIZES										
3-1/2" x	x	x	x		x		x	x	x	x
5-1/4" x		x	x	x	x	x	x	x	x	x
7" x			x	x	x		x	x	x	

Depths up to 24" are available on special order

1. Values apply to dry service conditions
2. Do not adjust for load duration
3. For depths > 12" adjust by $(12/d)^{1/5}$, for depths < 12" adjust by $(12/d)^{0.111}$ where d is the depth of the member [inches]
4. Adjust by $(12/d)^{1/5}$, where d is the depth of the member [inches]
5. Adjust by 1.04 for repetitive members as defined in the ANSI/AWC NDS
6. True or shear-free modulus of elasticity and does not account for shear deformation
7. See APA Product Report *PR-L233*

For more information about our complete line of products, visit pwtewp.com.



PWT Treated LVL Treated Laminated Veneer Lumber

Product Highlights

- PWT Treated LVL is the only manufacturer-treated LVL, and it is covered by a 25-year limited, transferable warranty.
- PWT Treated LVL is protected against damage caused by fungal rot, decay, and wood-destroying insects, including Formosan termites (interior or exterior usage).
- We use a proprietary and CODE APPROVED treatment system and process, utilizing TRU-CORE® technology.

The Product

- 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, sill plates, and fascia
- Treatment is added during the LVL manufacturing process, which fully penetrates throughout each veneer layer, offering complete protection from the inside out.
- No treatment gradient – and double (2X) the preservative retention required in various standards around the world
- Additionally, envelope treated for best surface properties

Features and Benefits

- **Non-corrosive!**
  - **PWT Treated LVL and its chemical additive do not corrode or damage hardware.**
  - **Choose appropriate coating on connectors for the project conditions.**
- Interior use
- Stainable and paintable
- No added VOCs
- Code Reports *ESR-2909*, *ESR-3834*, *PR-L329*, and *FL 39762*

DRY USE – 100% LOAD DURATION

2.0E 2800F_b (PSI)	Beam Orientation	Plank Orientation
Modulus of Elasticity[1][4], E (x 10^6)	2.0	2.0
Adjusted Modulus of Elasticity, E_{min}[1][5]	985,000	985,000
Bending (beam), F_b[2][3]	2,800	2,800
Compression perpendicular to grain, $F_{c\perp}$[1]	850	650
Compression Parallel to Grain, Fc||	2,500	2,500
Horizontal Shear (beam), F_v	285	150

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 & column stability calculations in accordance with the NDS.
6. PWT Treated used as sill plate requires gasket seal
7. See Product Reports APA *PR-L329* and ICC-ES *ESR-2909* for additional design criteria.

BEAM SIZES

Width	Depth				
1-3/4" x	9-1/2"	11-7/8"	14"	16"	18"
3-1/2" x	9-1/2"	11-7/8"	14"	16"	-
***5-1/4" x**	9-1/2"	11-7/8"	14"	16"	-

*5-1/4" members are industrial grade only; the product must be kept wrapped prior to installation, be flashed on-site, and should be clad when an architectural- or appearance-grade finish is required.

JOISTS (DIMENSION SIZES)

Width	Depth		
1-1/2" x	7-1/4"	9-1/4"	11-1/4"

PWT Treated LVL Sill Plate

- All the features and benefits of PWT Treated LVL
- Long, straight, and true for quick installation and minimal waste
- Non-corrosive–does not require special galvanized hardware

PLATES (DIMENSION SIZES)

1-1/2" x	3-1/2"	5-1/2"	7-1/4"

PWT™
BUILD SOMETHING STRONGER

For product catalog and complete warranty details or for more information on the full line of PWT products or the nearest distributor, visit pwtewp.com.

PWT products are manufactured at different locations in the United States and Canada.

CAL. PROP 65 WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov.wood.

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NOTE: PWT periodically updates and revises its product information. To verify that this version is current, contact the nearest sales office, visit pwtewp.com, or call 888.707.2285.