



PWT™ LVL Scaffold Planks **PWT**

PR-L316

Revised October 3, 2024

Products: PWT™ LVL Scaffold Planks
PWT, 1850 Park Lane, Burlington, WA 98233
(888) 707-2285
www.pwtewp.com

1. Basis of the product report:
 - ASTM D5456-21e1, Standard Specification for Evaluation of Structural Composite Lumber Products
 - ANSI/ASSE A10.8-2019, Scaffolding Safety Requirements
 - CAN/CSA S269.2-16 (R2021), Access Scaffolding for Construction Purposes
 - APA Reports T2007P-18, T2009P-75, T2009P-76, T2015P-12, and T2019P-52, and other qualification data
2. Product description:

PWT™ LVL Scaffold Planks are laminated veneer lumber (LVL) scaffold planks made in accordance with the in-plant manufacturing standard approved by APA. PWT LVL Scaffold Planks are available in thicknesses of at least 1-1/2 inches, and a range of widths and lengths. The P20/P21 grade is available with rough faces. Refer to www.pwtewp.com for additional information.
3. Design properties:

Table 1 lists allowable design values for use in the U.S. in accordance with ANSI/ASSE A10.8 and working stress design values for use in Canada in accordance with CAN/CSA S269.2 for PWT LVL Scaffold Planks. Table 2 lists wet service factors, which shall be applied when the average moisture content of the planks exceeds 16%. Selection of PWT LVL Scaffold Planks shall be based on information provided in this report and the recommendations provided by the manufacturer (see link above).
4. Product installation:

PWT LVL Scaffold Planks shall be installed in accordance with OSHA regulations (www.osha.gov) and the instructions provided by the manufacturer (see link above).
5. Storage, handling, inspection and evaluation:

The storage and handling of PWT LVL Scaffold Planks shall be in accordance with the recommendations provided by the manufacturer (see link above). PWT LVL Scaffold Planks shall be inspected by a qualified person to ensure they are in good condition prior to use. Products showing signs of damage, such as but not limited to splits, dents, gouges, face breaks, discoloration, odor, or decay shall be removed from service.
6. Limitations:
 - a) PWT LVL Scaffold Planks shall be designed in accordance with ANSI/ASSE A10.8 using the allowable design values specified in Table 1 of this report, or CAN/CSA S269.2 using the working stress design values specified in Table 1 of this report.
 - b) The PWT LVL Scaffold Plank allowable design values specified in Table 1 apply in dry service conditions where the average plank moisture content is less than 16%. When PWT LVL Scaffold Planks are used where their average moisture content will be 16% or higher, allowable design values shall be multiplied by the wet service factors specified in Table 2.

- c) PWT LVL Scaffold Planks shall not be used for building components, such as beams or headers.
- d) PWT LVL Scaffold Planks are produced by PWT in Burlington, WA under a quality assurance program audited by APA.
- e) This report is subject to re-examination in one year.

7. Identification:

PWT LVL Scaffold Planks described in this report are identified by a label bearing the manufacturer's name (PWT) and/or trademark, the APA-assigned plant number (1047), the scaffold plank grade (P20/P21 or P22/P23), the APA logo, and a means of identifying the date of manufacture.

Table 1. PWT LVL Scaffold Plank Allowable (ANSI/ASSE A10.8) and Working Stress (CAN/CSA S269.2) Design Values ^(a)

Scaffold Allowable Design Property	Grade		
	P20/P21 – Rough	P20/P21	P22/P23
Plank Bending, $F_b^{(b)}$ (psi)	2,350	2,350	2,900
Plank Apparent Modulus of Elasticity, $E_{\text{apparent}}^{(c)}$ (psi)	2,000,000	2,000,000	2,200,000
Plank True Modulus of Elasticity, $E_{\text{true}}^{(c)}$ (psi)	2,100,000	2,100,000	2,300,000
Plank Longitudinal Shear, F_v (psi)	140	150	150

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbf = 4.448 N, 1 psi = 6.9 kPa.

- (a) These design values shall not be increased for duration of load and shall apply in dry service conditions where the average plank moisture content is less than 16%. When planks are used where the average moisture content is 16% or higher, design values shall be multiplied by the wet service factors specified in Table 2.
- (b) For the reference thickness of 1-3/4 inches. For other thicknesses, multiply by $(1.75/t)^{1/3}$, where t is the thickness in inches. For thicknesses less than 1-3/4 inches, multiply by 1.0.
- (c) Apparent modulus of elasticity (E_{apparent}) is used to calculate the total scaffold plank deflection without considering the shear deflection separately from the bending deflection. True modulus of elasticity (E_{true}) is used to calculate the total scaffold plank deflection by considering the shear deflection separately from the bending deflection.

Table 2. Wet Service Factors (for plank moisture content of 16% or higher)

Bending (F_b)	Modulus of Elasticity (E)	Longitudinal Shear (F_v)
0.65	0.82	0.70

APA – The Engineered Wood Association is an approved national standards developer accredited by American National Standards Institute (ANSI). APA publishes ANSI standards and Voluntary Product Standards for wood structural panels and engineered wood products. APA is an accredited certification body under ISO/IEC 17065 by Standards Council of Canada (SCC), an accredited inspection agency under ISO/IEC 17020 by ANSI National Accreditation Board (ANAB), and an accredited testing organization under ISO/IEC 17025 by ANAB. APA is also an approved Product Certification Agency, Testing Laboratory, Quality Assurance Entity, Validation Entity, and Product Evaluation Entity by the State of Florida, and an approved testing laboratory by City of Los Angeles.

**APA – THE ENGINEERED WOOD ASSOCIATION
HEADQUARTERS**

7011 So. 19th St. ▪ Tacoma, Washington 98466
Phone: (253) 565-6600 ▪ Fax: (253) 565-7265 ▪ Internet Address: www.apawood.org

PRODUCT SUPPORT HELP DESK
(253) 620-7400 ▪ E-mail Address: help@apawood.org

DISCLAIMER

APA Product Report® is a trademark of *APA – The Engineered Wood Association*, Tacoma, Washington. The information contained herein is based on the product evaluation in accordance with the references noted in this report. No warranties, express or implied, including as to fitness for a particular purpose, are made regarding this report. Neither APA nor its members shall be liable, or assume any legal liability or responsibility, for damages, direct or indirect, arising from the use, application of, and/or reference to opinions, findings, conclusions or recommendations included in this report. Consult your local jurisdiction or design professional to assure compliance with code, construction, and performance requirements. Because APA has no control over quality of workmanship or the conditions under which engineered wood products are used, it cannot accept responsibility for product performance or designs as actually constructed.