APA PRODUCT REPORT®

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PWT™ LVL Scaffold Planks
PWT

PR-L316
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Products: PWT™ LVL Scaffold Planks
PWT, 1850 Park Lane, Burlington, WA 98233
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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
   - 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 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 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.

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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 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, $E_{apparent}$ [c] (psi)	2,000,000	2,000,000	2,200,000
Plank True Modulus of Elasticity, E_{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 will be 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

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