

Laminated Veneer Lumber Scaffold Plank
Sound Wood Products, Inc.

PR-L308

Revised June 21, 2016

Products: PROPLANK™ 2.25E DF and A PLANK
Sound Wood Products Inc., 195 Ribelin Road, Chehalis, Washington 98532
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1. Basis of the product report:
 - ASTM D5456-14b, Standard Specification for Evaluation of Structural Composite Lumber Products
 - ANSI/ASSE A10.8-2011, Scaffolding Safety Requirements
 - APA Reports T2007P-18, T2007P-100, T2009P-75, and T2009P-76, and other qualification data
2. Product description:

Sound Wood Products laminated veneer lumber (LVL) scaffold plank is sourced from flat-use LVL stock of an approved LVL manufacturer. The LVL stock is made with wood veneers laminated with grain parallel to the length of the member in accordance with the in-plant manufacturing standard approved by APA. Sound Wood Products LVL scaffold plank is manufactured and proof-loaded in accordance with the in-plant manufacturing standard approved by APA. Sound Wood Products LVL scaffold plank is available in two grades, and thicknesses ranging from 1-1/2 and 2-1/2 inches, widths ranging from 9-1/4 to 11-7/8 inches, and lengths up to 24 feet (see Table 3 of this report for allowable spans).
3. Design properties:

Table 1 lists the design values for Sound Wood Products LVL scaffold planks. Table 2 lists the wet service factors, which shall be applied when the average moisture content of the plank exceeds 16%. The allowable spans for Sound Wood Products LVL scaffold planks are listed in Table 3 for the dry use and wet use. Sound Wood Products LVL scaffold plank use shall be based on information provided in this report and the recommendations provided by the manufacturer.
4. Product installation:

Sound Wood Products LVL scaffold plank shall be installed in accordance with OSHA regulations (www.osha.gov) and the instructions provided by the manufacturer.
5. Storage, handling, inspection and evaluation:

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

- c) Sound Wood Products LVL scaffold plank shall not be used for building components, such as beam or header.
- d) Sound Wood Products LVL scaffold plank is proof-loaded at the Sound Wood Products, Inc. facilities in Chehalis, Washington under a quality assurance program audited by APA. The candidate LVL stock shall be manufactured by an approved LVL manufacturer under a quality assurance program audited by APA.
- e) This report is subject to re-examination in one year.

7. Identification:

Sound Wood Products LVL scaffold plank described in this report are identified by a label bearing the manufacturer's name (Sound Wood Products, Inc.) and/or trademark, the APA assigned plant number (1103), referenced standards (ASTM D5456 and ANSI/ASSE A10.8), the scaffold plank grade (PROPLANK or A PLANK), the APA logo, the report number PR-L308, and a means of identifying the date of manufacture. The PROPLANK and A PLANK product names shall be permitted to be labelled as "SURE-LAM™ 2.25E DF LVL" and "SURE-LAM™ 2.0E DF LVL", respectively.

Table 1. Flat-wise Design Values (Allowable Stress Design) for Sound Wood Products LVL Scaffold Plank ^(a,b)

Scaffold Design Property	Design Stress (psi)	
	PROPLANK™ ^(c)	A PLANK ^(d)
Bending (F_b)	2,900	2,350
Modulus of Elasticity, E	2,250,000	2,000,000
Longitudinal shear (F_v)	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 percent. When planks are used where the average moisture content will be 16% or higher, design values shall be multiplied by the wet service factors 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 scaffold plank thickness in inches. For thicknesses less than 1-3/4 inches, multiply by 1.0.
- (c) The PROPLANK product name shall be permitted to be labelled as "SURE-LAM™ 2.25E DF LVL".
- (d) The A PLANK product name shall be permitted to be labelled as "SURE-LAM™ 2.0E DF LVL".

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	0.80

Table 3. Allowable Spans for Sound Wood Products LVL Scaffold Plank

Loading Condition	PROPLANK™ (a)									A PLANK (b)
	1½" x 9¼"	1½" x 9½"	1½" x 11¼"	1½" x 11 ⁷ / ₈ "	1¾" x 9½"	1¾" x 11¼"	1¾" x 11 ⁷ / ₈ "	2" x 11¼"	2½" x 11¼"	1½" x 9¼"
Simple Span – DRY USE ONLY										
50 psf	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
75 psf	9'	9'	9'	9'	10'	10'	10'	10'	10'	9'
1-Person	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
2-Person	8'	8'	9'	9'	10'	10'	10'	10'	10'	8'
3-Person	6'	6'	7'	7'	8'	9'	9'	10'	10'	5'
Simple Span – WET USE (exceeding 16% Moisture Content)										
50 psf	10'	10'	10'	10'	10'	10'	10'	10'	10'	9'
75 psf	8'	8'	8'	8'	9'	9'	9'	10'	10'	7'
1-Person	8'	8'	9'	10'	10'	10'	10'	10'	10'	6'
2-Person	7'	7'	8'	8'	8'	9'	10'	10'	10'	6'
3-Person	4'	4'	5'	5'	5'	6'	6'	7'	10'	4'

(a) The PROPLANK product name shall be permitted to be labelled as "SURE-LAM™ 2.25E DF LVL".

(b) The A PLANK product name shall be permitted to be labelled as "SURE-LAM™ 2.0E DF LVL".

Notes:

1. Spans are from center-to-center of scaffold plank supports.
2. The weight of the plank (37 pcf) has been included in all calculations, and is included as a "Dead Load".
3. Deflections are limited to L/60 in accordance with OSHA requirements.
4. The "Person" load is defined in ANSI/ASSE A10.8 as a person weighing 200 pounds, carrying 50 pounds of equipment.
 - The "1-Person" load is applied at mid-span.
 - The "2-Person" load is applied with each "Person" load placed 18 inches to either side of mid-span.
 - The "3-Person" load is applied with a "Person" loaded at mid-span, and a "Person" loaded at 18 inches to either side of the mid-span.

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