

Murphy LVL Scaffold Plank
Murphy Engineered Wood Division

PR-L312

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Products: 2650F_b-2.2E and 2350F_b-2.0E Murphy LVL Scaffold Planks
Murphy Engineered Wood Division, 412 West Central, Sutherlin, Oregon 97479
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www.murphyplywood.com/engineered/

1. Basis of the product report:
 - ASTM D5456-18, Standard Specification for Evaluation of Structural Composite Lumber Products
 - ANSI/ASSP A10.8-2019, Scaffolding Safety Requirements
 - APA Reports T2013P-01, T2013P-10, T2014P-50, and T2015P-07A, and other qualification data
2. Product description:

Murphy laminated veneer lumber (LVL) Scaffold Planks are 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. Murphy LVL Scaffold Planks are available in thicknesses of 1-1/2 inches up to 1-3/4 inches, and a range of widths and lengths. Refer to the manufacturer's users guide (https://murphyplywood.com/pdfs/engineered/Murphy_Scaffold_Plank_Technical_Guide.pdf) and a local Murphy LVL distributor for product availability.
3. Design properties:

Table 1 lists the design properties for Murphy LVL Scaffold Planks. Table 2 lists the wet service factors, which shall be applied when the average moisture content of the planks is 16% or more. The allowable loads for Murphy LVL Scaffold Planks shall be in accordance with the recommendations provided by the manufacturer (see link above). Murphy LVL Scaffold Planks shall be used based on information provided in this report and the recommendations provided by the manufacturer.
4. Product installation:

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

The storage and handling of Murphy LVL Scaffold Planks shall be in accordance with the recommendations provided by the manufacturer (see link above). Murphy LVL Scaffold Planks shall be inspected by a qualified person to ensure the products are in good condition prior to use. Products with defects, such as and not limited to end or edge splits, dents or gouges, face breaks, discoloration, odor, or decay, shall be removed from service.
6. Limitations:
 - a) Murphy LVL Scaffold Planks shall be designed in accordance with ANSI/ASSP A10.8 using the design properties specified in this report.
 - b) Murphy LVL Scaffold Planks are intended primarily for use in dry service conditions where the average moisture content of the plank is less than 16%. When Murphy LVL Scaffold Planks are used where the average moisture content of the plank will be 16% or more, design values shall be multiplied by the appropriate wet service factors as shown in Table 2.

- c) Murphy LVL Scaffold Planks shall not be used as a structural member, such as beam or header, in wood framed construction.
- d) Murphy LVL Scaffold Planks are produced at the Murphy Engineered Wood Division facilities in Sutherlin, Oregon under a quality assurance program audited by APA.
- e) This report is subject to re-examination in one year.

7. Identification:

Murphy LVL Scaffold Planks described in this report are identified by a label bearing the manufacturer's name (Murphy Engineered Wood Division) and/or trademark, the APA assigned plant number (1089), the scaffold plank grade (2.2E or 2.0E), the APA logo, and a means of identifying the date of manufacture.

Table 1. Murphy LVL Scaffold Plank Flatwise Design Properties (Allowable Stress Design)^(a)

Scaffold Design Property	Design Stress (psi)	
	2.0E	2.2E
Bending (F_b) in the plank orientation	2,350	2,650
Modulus of Elasticity (E) in the plank orientation	2,000,000	2,200,000
Longitudinal shear (F_v) in the plank orientation	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) The tabulated values are design values for normal duration of load and shall not be increased for other load durations. The design values are limited to conditions where the average moisture content of the plank is less than 16%. When Murphy LVL Scaffold Planks are used where the average moisture content of the plank will be 16% or more, design values shall be multiplied by the appropriate wet service factors listed in Table 2.

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

Bending (F_b)	Modulus of Elasticity (E)	Longitudinal shear (F_v)
0.83	0.92	0.70

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**APA – THE ENGINEERED WOOD ASSOCIATION
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