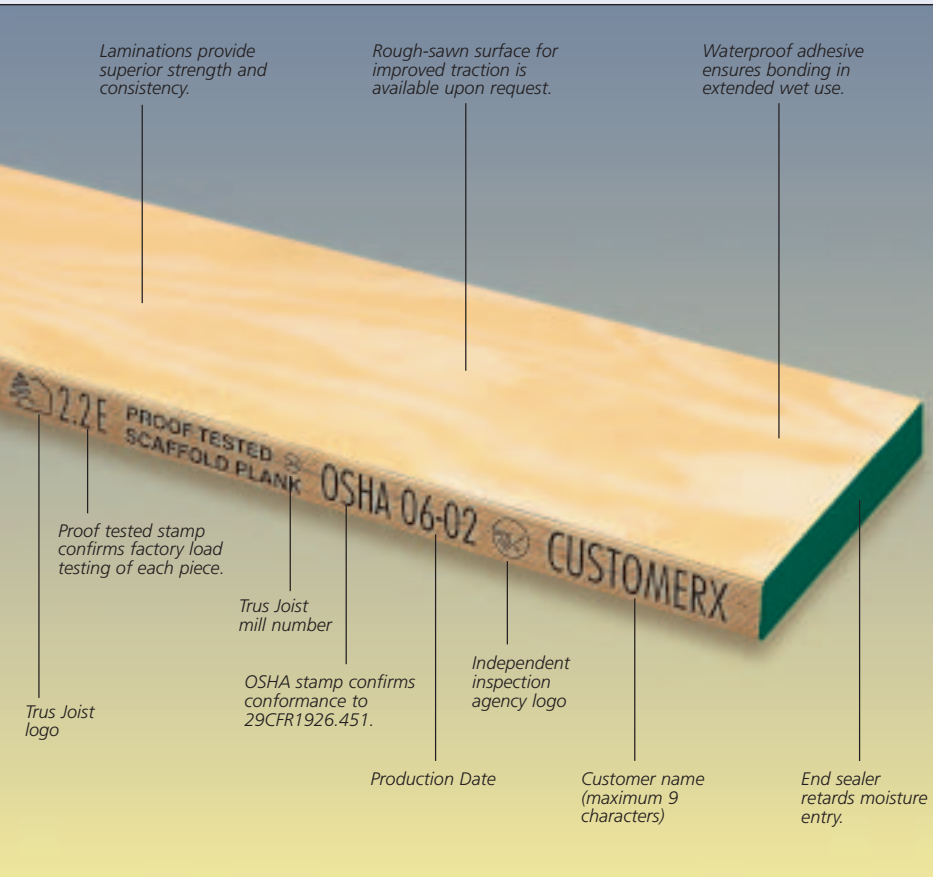




**Trus Joist**<sup>®</sup>  
A Weyerhaeuser Business

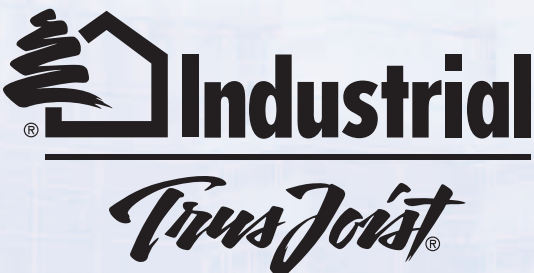


Scaffolding takes a beating. Planks sit on frames and hang from supports. They are subjected to the affronts of rain, snow, heat, cold, heavy loads, and wear from numerous assembly/knock-down cycles. Scaffold companies need planks they can rely on—planks that have minimal twist and bow from that exposure. Trus Joist Industrial has the solution: planks made of Microllam<sup>®</sup> laminated veneer lumber (LVL).

- **SAFE.** A scaffold user's main concern is safety. Microllam<sup>®</sup> LVL scaffold plank is proof-loaded by machine to ensure that the product meets Trus Joist Industrial quality standards and OSHA deflection limits when it leaves the mill.
- **RELIABLE.** Microllam<sup>®</sup> LVL scaffold plank is made from many layers of thin veneer—consistent, so there are no concentrated areas of knots or cross grain to contend with.
- **CUSTOM.** Microllam<sup>®</sup> LVL scaffold plank isn't sold as stock lumber—it's manufactured to scaffold plank specifications.

**1 - 8 7 7 - 8 5 6 - 9 6 6 3**

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**Microllam<sup>®</sup> LVL  
Scaffold Plank**

## Design Properties

Plank Thickness	1¾" and Less	Greater than 1¾"
Flexural Stress, $F_b$	2,900 psi	2,400 psi
Modulus of Elasticity, $E$	$2.2 \times 10^6$	$2.2 \times 10^6$
Horizontal Shear Stress, $F_v$	145 psi	145 psi
Coefficient of Variation (MOR)	12%	12%

- Design properties are determined in accordance with ANSI A10.8-1988, Appendix C.
- These values apply only to untreated Microllam® LVL scaffold planks when used in conditions where the moisture content of the plank is not expected to exceed 19%. These values apply only to planks used in the flat orientation.
- $F_b$ ,  $F_v$  and  $E$  shall be adjusted by a factor of 0.80 when conditions of use are such that the moisture content of the plank is expected to exceed 19%.
- Fastener values (nails, bolts, screws) shall be as provided for sawn Douglas fir lumber in the *National Design Specification® for Wood Construction* (NDS®), 2001 edition.
- Values are for new or like-new product.
- $F_b$  and  $F_v$  shall be adjusted by a factor of 0.75 when the plank is fire-retardant treated.
- Adjustments for high moisture content and fire-retardant treatments are cumulative.

## APPLICATION SCAFFOLD PLANKS

### LOCATION

East River Bridges, New York City

### DETAILS

When ironworker crews needed to repair sections of the East River Bridges that were hard to access, the New York City Department of Transportation used

Microllam® LVL planks to create scaffolding that hung from the bridge above the East River.

Microllam® LVL needle beams were suspended from the bridge's framework by rope while the planks for the workers'

deck rested on them. Often the wind causes the decks to sway with subway cars rushing by only two feet below. It's a hostile environment for anything—

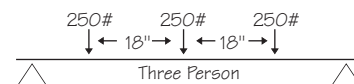
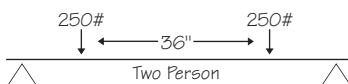


## Maximum Microllam® LVL Scaffold Plank Spans

		Live Loading	1½" x 9¼"	1½" x 9½"	1½" x 11¾"	1¾" x 9"	1¾" x 9½"	1¾" x 11¾"
Dry Use Moisture Content ≤ 19%	Simple Span	50 psf	10'-6"	10'-6"	10'-6"	12'-0"	12'-0"	12'-0"
		75 psf	9'-0"	9'-0"	9'-0"	10'-6"	10'-6"	10'-6"
		One Person	10'-6"	10'-6"	11'-6"	13'-0"	13'-0"	14'-6"
		Two Person	8'-6"	8'-6"	9'-0"	10'-0"	10'-0"	11'-0"
		Three Person	6'-0"	6'-0"	7'-0"	7'-6"	8'-0"	9'-0"
	Two Span <sup>(1)</sup>	50 psf	11'-6"	11'-6"	11'-6"	13'-6"	13'-6"	13'-6"
		75 psf	9'-6"	9'-6"	9'-6"	11'-6"	11'-6"	11'-6"
		One Person	12'-0"	12'-6"	14'-6"	16'-0"	17'-0"	21'-0"
		Two Person	9'-0"	9'-0"	10'-0"	11'-0"	11'-0"	12'-6"
		Three Person	6'-6"	6'-6"	7'-6"	8'-0"	8'-0"	10'-0"
Wet Use Moisture Content < 30%	Simple Span	50 psf	9'-6"	9'-6"	9'-6"	11'-0"	11'-0"	11'-0"
		75 psf	8'-6"	8'-6"	8'-6"	10'-0"	10'-0"	10'-0"
		One Person	9'-6"	9'-6"	10'-6"	11'-6"	12'-0"	13'-0"
		Two Person	7'-6"	7'-6"	8'-6"	9'-0"	9'-0"	10'-0"
		Three Person	5'-0"	5'-6"	6'-0"	6'-6"	6'-6"	7'-6"
	Two Span <sup>(1)</sup>	50 psf	10'-6"	10'-6"	10'-6"	12'-6"	12'-6"	12'-6"
		75 psf	9'-0"	9'-0"	9'-0"	10'-6"	10'-6"	10'-6"
		One Person	10'-6"	11'-0"	12'-6"	14'-0"	14'-6"	18'-0"
		Two Person	7'-6"	8'-0"	9'-0"	9'-6"	10'-0"	11'-0"
		Three Person	5'-6"	5'-6"	6'-6"	6'-6"	7'-0"	8'-0"

(1) Two equal span values assume continuous plank crossing two equal spans of the length shown in the table. Two-span values indicate the most restrictive span lengths considering live loads on one or both spans.

- Design load deflection is limited to  $L/60$ .



For more information about how Trus Joist can help solve your industrial applications needs, call **1-877-856-9663**.