



# Master Plank® Spruce LVL Scaffold Boards

Light Weight • Predictable Strength • Proven Performance

Recognized as the premier scaffold plank for more than 35 years



**USA** Span Tables

## Master Plank Laminated Veneer Lumber Scaffold Boards

Master Plank is engineered specifically for flat use as scaffold staging walk boards. The unique manufacturing process by which Master Plank is produced disperses the inherent defects typically found in solid-sawn lumber, resulting in a stronger plank product with predictable and proven structural properties.

- **Certified Quality:** Manufactured under the ISO 9001 Quality Certification System.
- **Proven Strength:** All boards mechanically proof-load tested to ensure span and load performance.
- **Lightest Weight:** Manufactured with Norwegian Spruce wood veneer, so lighter than other planks offered.
- **Verified Performance:** Quality control regularly audited by third party, independent inspection agency.
- **Recognized:** Exceeds compliance with OSHA, CSA, and ANSI Standards.
- **Military Approved:** Conforms to MIL-L-19140E and UL Listed for Exterior Fire X Treatment.
- **Ecologically Friendly:** Raw material from PEFC Certified Forest. Managed according to ISO 14001 Environmental Standard.

## Span Tables\* USA

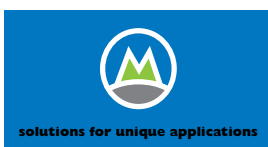
Plank Size		1-1/2" x 9-1/4"	1-1/2" x 11-3/4"	1-3/4" x 9-1/2"	1-3/4" x 11-3/4"
<b>Plank Weight (Lb/Ln. Ft.)</b>		3.15	3.96	3.73	4.61
<b>Load Condition (Dry Use)</b>		<b>Allowable Span (Feet)</b>			
50psf	Single Span	10	10	10	10
75psf	Single Span	9	9	10	10
1 Person	Single Span	10	10	10	10
2 Persons	Single Span	8	8	10	10
3 Persons	Single Span	6	7	8	8
50psf	Two Equal Span	10	10	10	10
75psf	Two Equal Span	9	9	10	10
1 Person	Two Equal Span	10	10	10	10
2 Persons	Two Equal Span	9	10	10	10
3 Persons	Two Equal Span	7	8	9	9

\* The above span tables to be used as a guideline. For system scaffold with adjustable spans exceeding those noted above, contact McCausey for technical support.

\* Allowable spans are for new planks with moisture content less than 19% (**Dry Use**) and based upon deflection limited to L/60.

\* Conditions which cause moisture content of planks to exceed 19% will reduce plank performance. Design properties must be reduced by minimum of 20%, thereby reducing the permissible load capacity and allowable spans. For "wet use" circumstances, contact McCausey for assistance.

\* Regardless of plank age, appearance, or moisture content, **DO NOT** exceed the OSHA deflection limit of L/60.  
Length of Span (Inches)/60 = Permissible Amount of Deflection (Inches)



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## Design Properties

Modulus of Elasticity (E): 2,000,000 psi • Flexural Stress ( $F_b$ ): 3,200 psi • Horizontal Shear ( $F_v$ ): 200 psi

- Master Plank design properties determined in accordance with ANSI A10.8-2001 Appendix C.
- When moisture content of planks exceeds 19%, the structural design properties must be reduced by 20% and allowable span and load capacity lowered respectively. Contact a McCausey representative to discuss circumstances.
- Master Plank is proof-tested during manufacturing to confirm boards meet or exceed these design properties.

## Storage Recommendations

- Bundle planks together in like lengths.
- Stack planks uniformly with stickers between each layer to prevent moisture accumulation.
- Store bundles elevated off the ground to minimize moisture absorption.
- Store planks indoors or cover with a tarp, leaving bundle ends open to allow air circulation.

## Proper Handling to prevent plank damage

- DO NOT exceed allowable spans (see span chart).
- DO NOT over-load plank beyond L/60 deflection limit.
- DO NOT use plank as mud-sills beneath scaffold frames.
- DO NOT jump or aggressively bounce on plank.
- DO NOT drop boards on end or toss planks on the ground.
- DO NOT dump planks from truck.
- DO NOT spear planks with fork tines of lift truck.
- DO NOT store heavy objects on plank for long periods of time.
- DO NOT use planks as ramp or walkway through mud.
- DO NOT drive equipment or vehicles over planks.
- DO NOT drill holes or notch planks.

## Visual Inspection to ensure planks are safe to use

**Plank performance is compromised when following conditions are evident:**

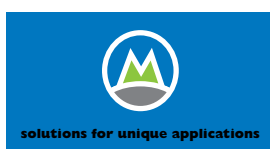
- End splits through plank thickness (exceeding twice the plank width) could be an indication plank was dropped.
- Separation of veneer layers could be an indication plank was speared with forklift.
- Face splits across face of plank could be an indication of plank having been overloaded.
- Discoloration could be an indication of decay or fungal attack.
- Soft wood fiber could indicate chemical contamination or insect damage.
- Dents or gouges on face of plank could indicate an impact force that overstressed the plank.
- Saw kerfs through plank thickness will definitely compromise plank performance.
- Drilled holes and cut notches will definitely compromise plank performance.

**Inspect planks for damage after each use and be sure to evaluate each side of each plank.**

**Establish a method to mark each plank after visual inspection and maintain inspection records.**

The above recommendations are guidelines only and not considered all inclusive. For specific questions pertaining to storage and handling, contact a McCausey representative at 800-365-9663. More comprehensive details can also be obtained by visiting [www.saiaonline.org](http://www.saiaonline.org) (Scaffold & Access Industry Association). Request the Laminated Veneer Lumber Handbook or the CD of Plank and Platform Inspection Guidelines.

Distributed By:



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