

Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2605-107



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Performance Characteristics of Evolution Industries' LVL Scaffold Planks for use in the US

Trade Secret Report Holder:

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CSI Designations:

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES

Section: 06 17 00 - Shop-Fabricated Structural Wood

Section: 06 17 13 - Laminated Veneer Lumber

1 Innovative Products Evaluated¹

1.1 Laminated Veneer Lumber (LVL) Scaffold Planks

1.1.1 2.1E LVL

1.1.2 2.3E LVL

2 Product Description and Materials

2.1 The innovative products evaluated in this report are shown in **Figure 1**.



Figure 1. Evolution Industries LVL Scaffold Planks



- 2.2 Evolution Industries LVL Scaffold Planks are manufactured from wood veneers bonded with exterior-type structural adhesive. The grain of the veneers is oriented parallel to the length of the billet.
 - 2.2.1 The adhesive used in the manufacture of Evolution Industries LVL Scaffold Planks complies with ASTM D2559 as specified in ASTM D5456 Section 4.3.1.
- 2.3 LVL Scaffold Planks are available in thicknesses of 1.5 inches and 1.75 inches, widths of 9.25 inches and 11.25 inches, and lengths up to 64 feet.
- 2.4 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.

3 Definitions²

- 3.1 New Materials³ are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.⁴ The design strength and permissible stresses shall be established by tests⁵ and/or engineering analysis.⁶
- 3.2 Duly authenticated reports⁷ and research reports⁸ are test reports and related engineering evaluations that are written by an approved agency⁹ and/or an approved source.¹⁰
 - 3.2.1 These reports utilize intellectual property and/or trade secrets to create public domain material properties for commercial end-use.
 - 3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, 18.U.S.Code.90, also known as Defend Trade Secrets Act of 2016 (DTSA).¹¹
- 3.3 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is accredited and listed in the ANAB directory.
- 3.4 An approved source is “approved” when a professional engineer (i.e., Registered Design Professional, hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹²
- 3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an ISO/IEC 17025 accredited testing laboratory, an ISO/IEC 17020 accredited inspection body, and/or a licensed RDP.
 - 3.5.1 The Center for Building Innovation (CBI) is ANAB¹³ ISO/IEC 17025 and ISO/IEC 17020 accredited.
- 3.6 The regulatory authority shall enforce¹⁴ the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing¹⁵ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.¹⁶
- 3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.¹⁷ Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,¹⁸ and can be used in any country that is an MLA signatory found at this link: <https://iaf.nu/en/recognised-abs/>
- 3.9 Approval equity is a fundamental commercial and legal principle.¹⁹



4 Applicable Local, State, and Federal Approvals; Standards; Regulations²⁰

4.1 Local, State, and Federal

- 4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured local jurisdictions: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, St. Louis County, Texas Department of Insurance, and Wichita.²¹
- 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.²²
- 4.1.3 Approved means complying with the requirements of local, state, or federal legislation.

4.2 Regulations

- 4.2.1 *IBC – 18, 21, 24: International Building Code®*
- 4.2.2 *IRC – 18, 21, 24: International Residential Code®*
- 4.2.3 *OSHA 29 CFR 1926 Subpart L(1926.450–454 and Appendix A): Occupational Safety and Health Administration*

4.3 Standards

- 4.3.1 *ANSI A10.8-2019: Scaffolding Safety Requirements*
- 4.3.2 *ANSI/AWC NDS: National Design Specification (NDS®) for Wood Construction*
- 4.3.3 *ANSI/AWC NDS Supplement*
- 4.3.4 *ASTM D143: Standard Test Method for Small Clear Specimens of Timber*
- 4.3.5 *ASTM D198: Standard Test Method for Static Tests of Lumber in Structural Sizes*
- 4.3.6 *ASTM D2559: Standard Specification for Adhesives for Bonded Structural Wood Products for Use Under Exterior Exposure Conditions*
- 4.3.7 *ASTM D5456: Standard Specification for Evaluation of Structural Composite Lumber Products*

5 Listed²³

- 5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (i.e., CBI), an approved agency (i.e., CBI and DrJ), and/or an approved source (i.e., DrJ), or other organization(s) concerned with product evaluation (i.e., DrJ), that maintains periodic inspection (i.e., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.

6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 General

- 6.1.1 LVL Scaffold Planks are used as scaffold platform units installed flatwise over scaffold supports in dry, well-ventilated service conditions where the in-service moisture content of the LVL remains at or below 16 percent.
- 6.1.2 The planks are intended for use in temporary scaffold platform applications where support spacing remains within the applicable span limit in **Table 2** and where the scaffold system is designed, erected, inspected, and used in accordance with applicable OSHA requirements and other jobsite safety regulations.

6.2 LVL Scaffold Planks Design Values

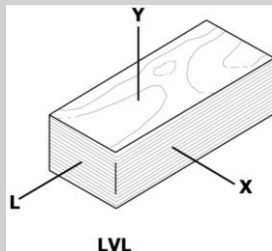
- 6.2.1 **Table 1** lists the flatwise plank-orientation design values used for the preliminary span calculations.
- 6.2.1.1 The apparent modulus of elasticity (E) is used for deflection calculations. No load-duration factor, repetitive-member factor, or other NDS adjustment factor has been applied in the span tables unless specifically noted.

Table 1. Reference Flatwise Design Values (ASD) for LVL Scaffold Planks²

Product / Grade ⁸	Reference Design Values ^{1,6,7,9} (psi)				
	Flatwise Bending, ⁴ F _b	Flatwise Shear, ⁵ F _v	Compression Perpendicular to Grain, ⁵ F _{c⊥}	Apparent Modulus of Elasticity, E _{app} ³	True Modulus of Elasticity, E _{true} ³
3100Fb-2.1E	3,100	200	500	2.0 x 10 ⁶	2.1 x 10 ⁶
3200Fb-2.3E	3,200	200	550	2.2 x 10 ⁶	2.3 x 10 ⁶

SI: 1 in = 25.4 mm, 1 psi = 6.895 kPa

- The reference design values in this table are for normal load duration. Loads of longer or shorter duration shall be adjusted in accordance with the applicable code. The value E is unaffected by duration-of-load adjustments.
- Orientation nomenclature for LVL Scaffold Planks



- The Apparent E can be used directly in traditional beam deflection formulas. Using True E, deflection is calculated as follows for uniformly loaded simple span beams.

$$\Delta = [(270wL^4)/(Ebd^3)] + [(28.8wL^2)/(Ebd)]$$

Where: Δ = deflection in inches (in.)

w = uniform load in pounds/foot (plf)

L = span in feet (ft)

E = true modulus of elasticity in pounds per square inch (psi)

b = width of beam in inches (in.)

d = depth of beam in inches (in.)

- The bending values in these tables are based on a referenced depth of 1 1/2" and 1 3/4".
- Horizontal shear value for L-X plane only
- These design values have been developed in accordance with *ANSI A10.8* Appendix C.
- Values are for new or like-new product.
- The 2.1E and 2.3E designations refer to the modulus of elasticity classification of Evolution Industries' LVL Scaffold Planks. The associated bending design values are provided in **Table 1**.
- For wet conditions, adjust all design values by 0.80.



6.2.2 **Table 2** provides preliminary maximum support spacing based on the calculation assumptions in this report.

Table 2. Maximum Allowable Spans for LVL Scaffold Planks^{1,2,3}

OSHA Defined Load Conditions		Max. Span (ft)							
		2.1E				2.3E			
		1.5" x 9.25"	1.5" x 11.25"	1.75" x 9.25"	1.75" x 11.25"	1.5" x 9.25"	1.5" x 11.25"	1.75" x 9.25"	1.75" x 11.25"
Plank Weight (lb/ft)		4.00	4.80	4.60	5.60	4.00	4.80	4.60	5.60
1-Span Dry Use	50 psf	9' 9"	9' 9"	10' 0"	10' 0"	9' 10"	9' 10"	10' 0"	10' 0"
	75 psf	7' 11"	8' 0"	9' 3"	9' 3"	8' 1"	8' 1"	9' 5"	9' 5"
	1-Person	7' 5"	8' 11"	10' 0"	10' 0"	7' 7"	9' 2"	10' 0"	10' 0"
	2-Person	6' 8"	7' 5"	8' 0"	9' 0"	6' 9"	7' 7"	8' 1"	9' 2"
	3-Person	4' 5"	4' 11"	5' 4"	6' 0"	4' 6"	5' 0"	5' 5"	6' 1"
2-Span Dry Use	50 psf	9' 9"	9' 9"	10' 0"	10' 0"	9' 10"	9' 10"	10' 0"	10' 0"
	75 psf	7' 11"	8' 0"	9' 3"	9' 3"	8' 1"	8' 1"	9' 5"	9' 5"
	1-Person	9' 1"	10' 0"	10' 0"	10' 0"	9' 5"	10' 0"	10' 0"	10' 0"
	2-Person	7' 4"	8' 4"	9' 0"	10' 0"	7' 6"	8' 6"	9' 2"	10' 0"
	3-Person	5' 3"	5' 11"	6' 4"	7' 3"	5' 4"	6' 0"	6' 6"	7' 5"
1-Span Wet Use	50 psf	8' 8"	8' 8"	10' 0"	10' 0"	8' 10"	8' 10"	10' 0"	10' 0"
	75 psf	7' 1"	7' 1"	8' 4"	8' 4"	7' 3"	7' 3"	8' 5"	8' 5"
	1-Person	5' 11"	7' 2"	8' 0"	9' 8"	6' 1"	7' 5"	8' 3"	10' 0"
	2-Person	5' 11"	6' 7"	7' 0"	7' 10"	6' 0"	6' 8"	7' 1"	8' 0"
	3-Person	3' 11"	4' 4"	4' 8"	5' 2"	4' 0"	4' 5"	4' 9"	5' 4"
2-Span Wet Use	50 psf	8' 8"	8' 8"	10' 0"	10' 0"	8' 10"	8' 10"	10' 0"	10' 0"
	75 psf	7' 1"	7' 1"	8' 4"	8' 4"	7' 3"	7' 3"	8' 5"	8' 5"
	1-Person	7' 4"	8' 10"	9' 11"	10' 0"	7' 6"	9' 1"	10' 0"	10' 0"
	2-Person	6' 5"	7' 3"	7' 9"	8' 10"	6' 7"	7' 4"	7' 11"	9' 0"
	3-Person	4' 7"	5' 2"	5' 6"	6' 3"	4' 8"	5' 3"	5' 7"	6' 5"

SI: 1 in = 25.4 mm, 1 ft = 0.305 m

- Allowable spans are determined based on bending stress, horizontal shear stress, and deflection limited to L/60 under live load conditions. Member self-weight is included in span calculations. Three-person and two-person load cases are evaluated in accordance with ANSI A10.8, including the specified 250 lb concentrated load placement. A 4:1 safety factor basis is applied for comparison of test ultimate capacity to intended loads.
- Live loads are as defined in ANSI A10.8-2019 Section 5.1.2. Proper LVL Scaffold Plank selection must be based on the most restrictive load case anticipated when planks are in service.
- The completed scaffold platform or walkway shall be at least 18 in. wide except where OSHA permits a specific scaffold-type or narrow-area exception.



- 6.3 Alternative techniques shall be permitted in accordance with accepted engineering practice and experience. These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.

7 Certified Performance²⁴

- 7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.²⁵
- 7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.²⁶

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 LVL Scaffold Planks comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
- 8.1.1 LVL Scaffold Planks were evaluated in accordance with ASTM D5456 to determine their allowable stress design (ASD) properties in the flatwise (plank) orientation.
- 8.1.1.1 Established properties were used to determine the maximum allowable span for each load case specified in OSHA 29 CFR 1926 Subpart L App A and in ANSI A10.8-2019.
- 8.2 Any building code, regulation and/or accepted engineering evaluations (i.e., research reports, duly authenticated reports, etc.) that are conducted for this Listing were performed by DrJ, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified²⁷ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,²⁸ respectively.
- 8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.

9 Installation

- 9.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.
- 9.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.
- 9.3 *General*
- 9.3.1 The evaluated LVL Scaffold Planks shall be installed only as scaffold platform units within a scaffold system designed by a qualified person and constructed and loaded in accordance with that design.
- 9.3.2 The evaluated LVL Scaffold Planks are fabricated wood planking/platform units (29 CFR 1926.450(b)). OSHA defines fabricated decking and planking to include manufactured platforms made of wood, including laminated wood, and defines maximum intended load as the total load of persons, equipment, tools, materials, transmitted loads, and other reasonably anticipated loads applied to a scaffold or scaffold component at one time.
- 9.4 *Installation*
- 9.4.1 Planks shall be installed flatwise, with the wide face horizontal, spanning between scaffold supports. The plank grade, report identification, and other traceability markings shall remain visible for inspection where practicable.



9.4.2 Each plank shall be supported at spacing that remains within the applicable allowable support spacing in **Table 2**. The allowable support spacing is measured between support reaction lines unless the approved scaffold design specifies a more restrictive basis.

9.4.3 Scaffolds and scaffold components shall be loaded within their maximum intended loads or rated capacities, whichever is less.

9.5 Platform Construction, Gaps, and Full Planking

9.5.1 Each platform on working levels shall be fully planked or decked between the front uprights and guardrail supports, except where OSHA permits a specific exception for platforms used solely as walkways or solely by employees performing scaffold erection or dismantling.

9.5.2 Each platform unit shall be installed so that the space between adjacent platform units and between the platform and uprights is not more than 1" wide, except where the employer demonstrates that a wider space is necessary. Where a wider space is necessary, the platform shall be planked or decked as fully as possible and the remaining open space shall be 9 $\frac{1}{2}$ " or less.

9.5.3 Adjacent planks shall be placed to provide stable bearing and to avoid unsupported edges, rocking, differential uplift, or displacement under the intended use condition.

9.6 Platform Width and Work-Face Clearance

9.6.1 The completed scaffold platform or walkway shall be at least 18" wide except where OSHA permits a specific scaffold-type or narrow-area exception. Ladder jack scaffolds, top-plate bracket scaffolds, roof-bracket scaffolds, and pump-jack scaffolds are subject to OSHA minimum-width provisions applicable to those scaffold types; boatswains' chairs have no minimum-width requirement under OSHA 29 CFR 1926.451(b)(2)(i).

9.6.2 Where a scaffold must be used in an area so narrow that an 18" platform or walkway cannot be provided, the platform or walkway shall be as wide as feasible and employees shall be protected from fall hazards by guardrails and/or personal fall-arrest systems in accordance with OSHA.

9.6.3 The front edge of the platform shall be within 14" from the face of the work unless guardrail systems and/or personal fall-arrest systems are used. The OSHA exceptions for outrigger scaffolds and plastering/lathing operations shall be applied where applicable.

9.7 End Bearing, Overhang, Abutting Planks, and Overlapped Planks

9.7.1 Each end of a platform unit shall extend over the centerline of its support by at least 6 in. unless the plank is cleated or otherwise restrained by hooks or equivalent means.

9.7.2 For platform units 10 ft or shorter in length, each end shall extend over its support 12" maximum, unless the cantilevered portion is designed and installed to support employees and/or materials without tipping, or guardrails block employee access to the cantilevered end.

9.7.3 For platform units greater than 10 ft in length, each end shall not extend over its support more than 18", unless the cantilevered portion is designed and installed to support employees without tipping, or guardrails block employee access to the cantilevered end.

9.7.4 Where planks are abutted to create a longer platform, each abutted end shall rest on a separate support surface. Common support members, such as T-sections, may be used only where the support member and scaffold arrangement are designed for that condition.

9.7.5 Where planks are overlapped to create a longer platform, the overlap shall occur only over supports and shall be at least 12 in. unless the planks are nailed together or otherwise restrained to prevent movement.

9.7.6 At points where the platform changes direction, such as at a corner, any platform resting on a bearer at an angle other than a right angle shall be laid first; platforms resting at right angles over the same bearer shall be laid second, on top of the first platform.

10 Substantiating Data

- 10.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
- 10.1.1 Flatwise bending strength and stiffness testing in accordance with ASTM D198
 - 10.1.2 Horizontal shear in the L-X plane testing in accordance with ASTM D143
- 10.2 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.
- 10.3 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.
- 10.4 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.
- 10.5 *Testing and Engineering Analysis*
- 10.5.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.²⁹
- 10.6 Where additional conditions of use and/or regulatory compliance information is required, please search for LVL Scaffold Planks on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, LVL Scaffold Planks have performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to their specified purpose.
- 11.2 Manufacturer installation instructions shall be provided by Evolution Industries and shall be followed for installation of LVL Scaffold Planks.
- 11.3 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, LVL Scaffold Planks shall be approved for the following applications:
- 11.3.1 Use as scaffold planks.
- 11.4 Unless exempt by state statute, when LVL Scaffold Planks are to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.
- 11.5 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Evolution Industries®.
- 11.6 IBC Section 104.2.3 (IRC Section R104.2.2 and IFC Section 104.2.3³⁰ are similar) in pertinent part state:

104.2.3 Alternative Materials, Design and Methods of Construction and Equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative is not specifically prohibited by this code and has been approved.



- 11.7 **Approved:**³¹ Building regulations require that the building official shall accept duly authenticated reports.³²
- 11.7.1 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited.
- 11.7.2 An approved source is “approved” when an RDP is properly licensed to transact engineering commerce.
- 11.7.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.
- 11.8 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.
- 11.9 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.³³

12 Conditions of Use

- 12.1 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the applied load shall remain within the resistance provided by the defined properties using the principles of accepted engineering practice.
- 12.2 This report establishes plank material properties and allowable scaffold plank support spacing only.
- 12.3 As listed herein, LVL Scaffold Planks shall be subjected to the following conditions:
- 12.3.1 The planks shall be limited to dry, well-ventilated service conditions where in-service moisture content remains at or below 16 percent, unless additional data supports another service condition.
- 12.3.2 Wood platform units shall remain free of opaque finishes except that platform edges may be covered or marked for identification. Preservative, fire-retardant, or slip-resistant coatings may be used only where they do not obscure the top or bottom wood surfaces and only where the coating or treatment is within the product scope evaluated by this report.
- 12.3.2.1 Opaque coatings, field-applied chemical treatments, fire-retardant treatments, or slip-resistant overlays that obscure inspection or alter the LVL properties are outside the scope of this report unless separately evaluated.
- 12.3.3 Planks shall remain in their original manufactured condition unless the modification is specifically evaluated and approved by the manufacturer and the authority having jurisdiction or the responsible qualified person.
- 12.3.4 Scaffolds and scaffold components shall be inspected for visible defects by a competent person before each work shift and after any occurrence that could affect structural integrity.
- 12.3.5 Any plank or scaffold component that is damaged or weakened such that its strength is less than required by OSHA shall be immediately repaired, replaced, braced to meet the required capacity, or removed from service until repaired.
- 12.3.5.1 For the LVL Scaffold Planks, removal from service is required when damage includes delamination, splits, excessive checking, crushing, impact damage, decay, chemical degradation, excessive wear, unauthorized field modification, fire damage, or other visible defects that could reduce capacity.
- 12.3.6 Planks used as work platforms shall be free of snow, ice, and other slippery materials except where removal of such material is necessary to perform the work. Debris shall be kept clear of platform surfaces.
- 12.3.7 Platforms shall maintain a deflection of L/60 or less under load.



- 12.3.8 Employees who perform work while on scaffolds shall be trained by a person qualified in the subject matter to recognize scaffold hazards and to understand procedures to control or minimize those hazards. Training shall include, as applicable, proper scaffold use, proper handling of materials on the scaffold, maximum intended load, and the load-carrying capacities of the scaffolds used.
- 12.3.9 Employees involved in erecting, disassembling, moving, operating, repairing, maintaining, or inspecting scaffolds shall be trained by a competent person in the hazards associated with that work and in the correct procedures for the type of scaffold in question.
- 12.3.10 The manufacturer installation instructions, this report, the span tables, and product markings shall communicate the maximum support spacing and rated load condition so that the employer, competent person, and scaffold user can identify the applicable maximum intended load and load-carrying capacity.
- 12.4 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:
 - 12.4.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.
 - 12.4.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.4.3 At a minimum, these innovative products shall be installed per **Section 9**.
 - 12.4.4 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.
 - 12.4.5 These innovative products have an internal quality control program and a third-party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.
 - 12.4.6 The application of these innovative products in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.
- 12.5 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *"the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3", all of IBC Section 104, and IBC Section 105.3.*
- 12.6 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).
- 12.7 The actual design, suitability, and use of this report for any particular building is the responsibility of the owner or the authorized agent of the owner.



13 Identification

13.1 LVL Scaffold Planks, as listed in **Section 1.1**, are identified by a label on the board bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.

13.1.1 See **Figure 2** below.

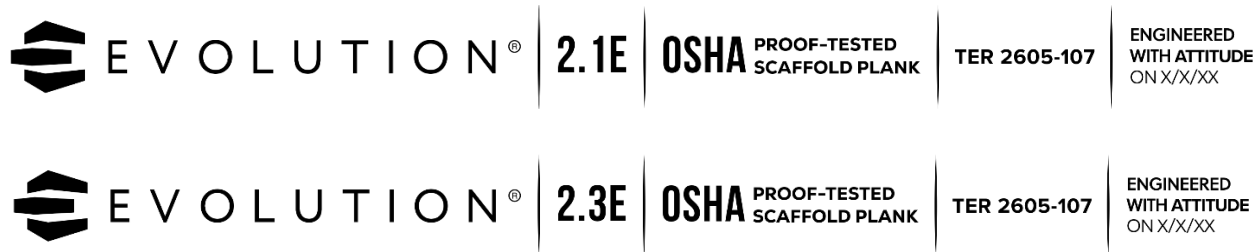


Figure 2. Product Labels for Evolution Industries' LVL Scaffold Planks

13.2 Additional technical information can be found at www.evolution.ltd.

14 Review Schedule

14.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.

14.2 For information on the status of this report, please contact [DrJ Certification](http://www.drjcertification.org).



For more information, visit [dricertification.org](https://www.justice.gov/crt/deprivation-rights-under-color-law) or call us at 608-310-6748.

Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the NDS, AISI S202, US professional engineering law, Canadian building code, Canada professional engineering law, Qualtim External Appendix A: Definitions/Commentary, Qualtim External Appendix B: Project/Deliverables, Qualtim External Appendix C: Intellectual Property and Trade Secrets, definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702>

Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review <https://www.justice.gov/atr/mission> and <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2.~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests>

The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1.~:text=Conformance%20to%20Standards-.The%20design%20strengths%20and%20permissible%20stresses.-of%20any%20structural>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1.~:text=the%20building%20official%20shall%20make%20C%20or%20cause%20to%20be%20made%20C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2>

https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency

https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source

<https://www.law.cornell.edu/uscode/text/18/1832> (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of \$5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: [Intellectual Property and Trade Secrets](https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional). <https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional> AND <https://apassociation.org/list-of-engineering-boards-in-each-state-archive/>

<https://www.cbiteest.com/accreditation/>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1.~:text=directed%20to%20enforce%20the%20provisions%20of%20this%20code>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>

<https://iaf.nu/en/about-iaf-mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope>

True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

<https://www.justice.gov/crt/deprivation-rights-under-color-law> AND <https://www.justice.gov/atr/mission>

Unless otherwise noted, the links referenced herein use un-amended versions of the [2024 International Code Council \(ICC\) 2024 International Code Council \(ICC\) model codes](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2) as foundation references. Mississippi versions of the [IBC 2024](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2) and the [IRC 2024](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2) are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or Dr.J staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

See [Adoptions by Publisher](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2) for the latest adoption of a non-amended or amended model code by the local jurisdiction. <https://up.codes/codes/general>

See [Adoptions by Publisher](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2) for the latest adoption of a non-amended or amended model code by state. <https://up.codes/codes/general>

<https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2>(Listed%20or%20certified); <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled>

<https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4>

<https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2.~:text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades>

[https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3](https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2.~:text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur)



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- ²⁹ See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>
- ³⁰ 2018: <https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9> AND 2021: <https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11>
- ³¹ Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (<https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4>) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.
- ³² <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- ³³ Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.