

Joint Evaluation Report

ESR-2913

Reissued August 2024

Revised July 2026

This report remains under an active [continuous compliance program](#) through the end of August 2026

This report also contains:

- [City of LA Supplement](#)
- [CA Supplement w/ DSA and OSHPD](#)
- [FL Supplement](#)

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DIVISION: 06 00 00— WOOD, PLASTICS AND COMPOSITES Section: 06 17 13— Laminated Veneer Lumber	REPORT HOLDER: MURPHY ENGINEERED WOOD PRODUCTS DIVISION ADDITIONAL LISTEES: BLUELINX CORPORATION EASTERN ENGINEERED WOOD PRODUCTS TRI-STATE FOREST PRODUCTS, INC. XP-EWP	EVALUATION SUBJECT: MURPHY LAMINATED VENEER LUMBER (LVL)	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2024, 2021, 2018 and 2015, 2012 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018 and 2015, 2012 [International Residential Code® \(IRC\)](#)

Property evaluated:

- Structural

Evaluation to the following green code(s) and/or standards:

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 [National Green Building Standard™](#) (ICC 700-2020, ICC 700-2015, ICC 700-2012, and ICC 700-2008)

Attributes verified:

- See Section 3.1.

2.0 USES

Murphy LVL is an alternative to sawn lumber for structural applications including beams, headers, joists, and rafters. Murphy LVL is also used for components of built-up structural members, such as flanges for I-joists and chords for trusses.

3.0 DESCRIPTION

3.1 General:

Murphy Engineered Wood Products Division manufactures and private labels the LVL products described in

this report. The company names and the associated product trade names for LVL products are provided in [Table 4](#).

Murphy LVL complies with the requirements noted in Section 2303.1.10 of the 2024, 2021, 2018 and 2015 IBC (Section 2303.1.9 of the 2012 IBC) for allowable stress design (Section 2301.2). Chapters 5 and 8 of the IRC are applicable to Murphy LVL.

The wood veneer properties and species, adhesive, manufacturing parameters, and finished product thickness, width and length meet the requirements noted in the quality manual that contains the manufacturing standard.

The attributes of the Murphy LVL have been verified as conforming to the provisions of (i) CALGreen Section A4.404.3 for efficient framing techniques; (ii) ICC 700-2020 Sections 608.1(2), 11.608.1(2) and 13.104.3.1(4); (iii) ICC 700-2015 and ICC 700-2012 Sections 608.1(2), 11.608.1(2) and 12(A).608.1 for resource-efficient materials; and (iv) ICC 700-2008 Section 607.1(2) for resource-efficient materials. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 Material:

Murphy LVL is made with layers of wood veneers laminated together using an exterior-type, heat durable, low-emitting phenol-formaldehyde adhesive conforming to ASTM D2559. Murphy LVL is available in thicknesses from 1¹/₄ inches (32 mm) to 10¹/₂ inches (267 mm), depths from 1¹/₂ inches (38 mm) to 48 inches (1219 mm), and lengths up to 80 feet (24 m).

4.0 DESIGN AND INSTALLATION

4.1 Design:

4.1.1 General: Murphy LVL is designed as structural composite lumber in accordance with the applicable code and the *National Design Specification® for Wood Construction* (NDS). Reference design values are as noted in [Table 1](#).

4.1.2 Fasteners: Reference design values for connections must be determined in accordance with the applicable section of the NDS, using the equivalent specific gravities provided in [Table 2](#). Spacing, edge distance and end distance of fasteners installed in the faces and edges of Murphy LVL members must be in accordance with the NDS and are limited as shown in [Table 3](#).

4.2 Installation:

Murphy LVL must be installed in accordance with this evaluation report, applicable building codes and the specifications of the design professional responsible for the design of the structure. Drawings and/or the manufacturer's published installation instructions must be available on the jobsite during installation.

5.0 CONDITIONS OF USE:

The Murphy LVL described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation, fabrication, identification, and connection details must be in accordance with this report, the manufacturer's published installation instructions and the applicable code. This report must govern if there are conflicts between the manufacturer's published installation instructions and this report.
- 5.2** Calculations and drawings demonstrating compliance with this report must be submitted to the code official. The calculations and drawings must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.3** The material is limited to conditions in which the average equilibrium moisture content of solid-sawn lumber is less than 16 percent.
- 5.4** Connections other than the nailed and bolted connections described in this report are outside of the scope of this report.
- 5.5** Evaluation of the effect of fire-retardant or preservative treatment on LVL is outside the scope of this report.
- 5.6** Murphy LVL is produced in Sutherlin, Oregon, under a quality control program with inspections by ICC-ES and APA—The Engineered Wood Association (AA-649).

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Structural Wood-based Products \(AC47\)](#), dated June 2017 (editorially revised January 2025).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2913) along with the name, registered trademark, or registered logo of the report holder must be included in the product stamps.
- 7.2 In addition, the Murphy LVL must be identified with product stamps bearing the Murphy Engineered Wood Division name (or the name of one of the listees noted at the beginning of this report); product trade name; grade; mill number (1089), production shift and date of manufacture; and the name of the inspection agency [APA—The Engineered Wood Association (AA-649)].
- 7.3 The report holder's contact information is the following:

MURPHY ENGINEERED WOOD PRODUCTS DIVISION
412 WEST CENTRAL AVENUE
SUTHERLIN, OREGON 97479
(541) 459-4545
www.murphyplywood.com

- 7.4 The additional listees' contact information is the following:

BLUELINX CORPORATION
1950 SPECTRUM CIRCLE
MARIETTA, GEORGIA 30067

EASTERN ENGINEERED WOOD PRODUCTS
POST OFFICE BOX 5424
BETHLEHEM, PENNSYLVANIA 18015

TRI-STATE FOREST PRODUCTS, INC.
2105 SHERIDAN AVENUE
SPRINGFIELD, OHIO 45505

XP-EWP
14523 S PALO ALTO DRIVE
HERRIMAN, UTAH 84096

TABLE 1—REFERENCE DESIGN PROPERTIES (ALLOWABLE STRESS DESIGN) FOR MURPHY LVL^{1,2,3}

GRADE	JOIST					PLANK					AXIAL	
	E _{True} ⁽⁷⁾ (10 ⁶ psi)	E _{App} ⁽⁶⁾ (10 ⁶ psi)	F _b ⁽⁴⁾ (psi)	F _v (psi)	F _{cL} (psi)	E _{True} ⁽⁷⁾ (10 ⁶ psi)	E _{App} ⁽⁶⁾ (10 ⁶ psi)	F _b (psi)	F _v (psi)	F _{cL} (psi)	F _t ⁽⁵⁾ (psi)	F _c (psi)
1.6E 2250 F _b	1.6	1.5	2,250	285	750	1.5	1.4	2,250	150	450	1,350	2,350
1.8E 2600 F _b	1.8	1.7	2,600	285	750	1.8	1.7	2,600	150	450	1,950	2,350
1.9E 2750 F _b	1.9	1.8	2,750	285	750	1.9	1.8	2,750	150	450	1,950	2,350
2.0E 2850 F _b	2.0	1.9	2,850	285	750	2.0	1.9	2,800	150	550	1,950	2,350
2.1E 2950 F _b	2.1	2.0	2,950	290	750	2.1	2.0	2,950	150	550	2,100	3,200
2.1E 3100 F _b	2.1	2.0	3,100	290	750	2.1	2.0	3,100	150	550	2,100	3,200
2.2E 3100 F _b	2.2	2.1	3,100	290	750	2.2	2.1	3,100	150	550	2,100	3,200
2.3E 3100 F _b	2.3	2.2	3,100	290	750	2.3	2.2	3,100	150	550	2,100	3,200

For SI: 1 psi = 6.9 kPa.

¹The tabulated values are design values for normal duration of load. All values, except for E and F_{cL}, may be adjusted for other load durations as permitted by the code. The design stresses are limited to conditions in which the average equilibrium moisture content of solid-sawn lumber is less than 16 percent.

²Reference design values must be adjusted, as applicable, in accordance with Section 8.3 of the NDS.

³JOIST = load parallel to gluelines. PLANK = load perpendicular to gluelines.

⁴The tabulated values are based on a reference depth of 12 inches (305 mm). For other depths, when loaded edgewise, the allowable bending stress (F_b) shall be modified by (12/d)^{0.18} where d = depth in inches. For depths less than 2 1/2 inches (63 mm), the factor for the 2 1/2-inch (63 mm) depth must be used.

⁵The tabulated values are based on a reference length of 3 feet (914 mm). For other lengths, the allowable tensile stress must be modified by (3/ℓ)^{0.11}, where ℓ = length in feet. For lengths less than 3 feet (914 mm), the unadjusted allowable tension stresses in Table 1 are used.

⁶The tabulated reference E values are the apparent moduli of elasticity, which includes the effects of shear deformation. When calculating total deflection, standard engineering formulae for the pure bending deflection shall be permitted to be used.

⁷The tabulated reference E values are the true moduli of elasticity (MOE), which is shear-free MOE. When calculating deflection, standard engineering formulae that consider both components of deflection (bending and shear) shall be used.

TABLE 2—FASTENER DESIGN FOR MURPHY LVL: EQUIVALENT SPECIFIC GRAVITY¹

NAILS				BOLTS	
Withdrawal Load		Lateral Load		Lateral Load	
Installed in Edge	Installed in Face	Installed in Edge	Installed in Face	Installed in Face	
				Parallel to Grain	Perpendicular to Grain
0.49	0.50	0.50	0.50	0.50	0.50

¹Fastener values based on the equivalent specific gravities in the above table are for normal load duration and may be adjusted using the load duration factors in accordance with the code.

TABLE 3—MINIMUM ALLOWABLE NAIL SPACINGS FOR MURPHY LVL¹

THICKNESS (IN.)	ORIENTATION	NAIL SIZE ^{2,3} (COMMON OR BOX)	MINIMUM END DISTANCE (IN.)	MINIMUM NAIL SPACING (IN.)	
				Single Row	Multiple Rows ^{4,5}
1 1/4 ≤ thickness < 1 1/2	Edge ⁶	8d and smaller	2 1/2	4	NR ⁸
		10d and 12d	2 1/2	4	
		16d	3 1/2	5	
	Face ⁷	8d and smaller	1 1/2	3	3
		10d and 12d	1 1/2	3	3
		16d	1 1/2	5	5
≥ 1 1/2	Edge ⁶	8d and smaller	2 1/2	3	4
		10d and 12d	3 1/2 ⁹	4	5
		16d	3 1/2	5	6 ¹⁰
	Face ⁷	8d and smaller	1 1/2	3	3
		10d and 12d	1 1/2	3	3
		16d	1 1/2	5	5

For SI: 1 inch = 25.4 mm.

¹Edge distance must be sufficient to prevent splitting.

²16d sinkers (0.148 inch x 3 1/4 inches) may be spaced the same as a 12d common wire nail (0.148 inch x 3 1/4 inches).

³Fastener sizes and closest on-center spacing not specifically described above are beyond the scope of this report.

⁴Multiple rows in the edge orientation must be spaced 1/2 inch or more from each other and offset one-half of the tabulated minimum nail spacing, as shown in Figure 1.

⁵Multiple rows must be equally spaced from the centerline of the narrow face axis.

⁶Nail penetration for edge nailing must not exceed 2 inches for 16d nails (common or box) or 2 1/2 inches for 10d and 12d nails (common or box).

⁷Tabulated closest on-center spacing for face orientation is applicable to nails that are installed in rows parallel to the grain (length) of the LVL. For nails installed in rows perpendicular to the direction of grain (width/depth) of the LVL, the closest on-center spacing for face orientation must be sufficient to prevent splitting of the LVL.

⁸Not recommended.

⁹Minimum end distance may be reduced to 2 1/2 inches for single row nailing.

¹⁰Minimum nail spacing may be reduced to 5 inches when the LVL is 1 3/4 inches or thicker.

TABLE 4—COMPANY AND PRODUCT TRADE NAME

COMPANY	PRODUCT TRADE NAME
Murphy Engineered Wood Products Division	Murphy LVL
BlueLinx Corporation	onCENTER
Eastern Engineered Wood Products	StructurePRO LVL
Tri-State Forest Products	Gorilla Lam
XP-EWP	Murphy LVL

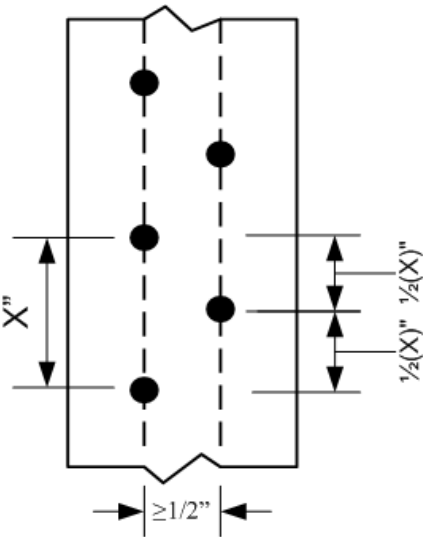


FIGURE 1

DISCLAIMER

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 17 13—Laminated Veneer Lumber

REPORT HOLDER:

MURPHY ENGINEERED WOOD PRODUCTS DIVISION

EVALUATION SUBJECT:

MURPHY LAMINATED VENEER LUMBER (LVL)

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Murphy LVL, described in ICC-ES evaluation report [ESR-2913](#), has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 *City of Los Angeles Building Code* ([LABC](#))
- 2023 *City of Los Angeles Residential Code* ([LARC](#))

2.0 CONCLUSIONS

The Murphy LVL, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2913](#), complies with the LABC Chapter 23, and the LARC, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Murphy LVL, described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-2913](#).
- The design, installation, conditions of use and identification are in accordance with the 2021 *International Building Code*® (IBC) or 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-2913](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report ESR-2913, reissued August 2024 and revised July 2026.

ICC-ES Evaluation Report

ESR-2913 CA Supplement

w/ DSA and OSHPD

Reissued August 2024

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 17 13—Laminated Veneer Lumber

REPORT HOLDER:

MURPHY ENGINEERED WOOD PRODUCTS DIVISION

EVALUATION SUBJECT:

MURPHY LAMINATED VENEER LUMBER (LVL)

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Murphy LVL, described in ICC-ES evaluation report [ESR-2913](#), has also been evaluated for compliance with the code(s) noted below.

Applicable code editions:

- 2022 California Building Code (CBC)
- 2022 California Residential Code (CRC)

For evaluation of applicable chapters adopted by [California Office of Statewide Health Planning and Development \(OSHPD\)](#) AKA: [California Department of Health Care Access and Information \(HCAI\)](#) and the [Division of State Architects \(DSA\)](#), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS

2.1 CBC:

The Murphy LVL, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2913](#), complies with CBC Chapter 23, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report, [ESR-2913](#), and the additional requirements of CBC Chapters 16 and 17, as applicable.

2.1.1 OSHPD:

The Murphy LVL, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2913](#), complies with CBC amended Chapters 16, 17 and 23, and Chapters 16A and 17A provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report, and the additional requirements in Section 2.1.1.1 and 2.1.1.2 of this supplement:

2.1.1.1 Conditions of Use:

1. All loads applied shall be determined by the registered design professional and shall comply with applicable loads and load combinations from CBC Chapter 16 and amendments [OSHPD 1R, 2, 3 and 5] and 16A [OSHPD 1 and 4].
2. Conventional light-frame construction under Section 2308 is permitted in accordance with the additional requirements of CBC Section 2308.2.7 [OSHPD 1R, 2 & 5].
3. Seismic Design Category shall be in accordance with CBC amended Section 1613.1 Exception 6 [OSHPD 1R, 2 & 5].
4. Construction documents shall include detailing and limitations for notches and bored holes in accordance with CBC amended Section 2304.4.1 [OSHPD 1, 1R, 2, 4 and 5].
5. When the product is used as chords for trusses, the additional requirements of Section 2303.4.1.4.1 and Section 2303.4.3.1 [OSHPD 1, 1R, 2, 4 & 5] for construction documents shall apply.

2.1.1.2 Special Inspection Requirement: Special inspection of wood structural elements are required in accordance with CBC amended Section 1705A.5.3 [OSHDP 1 & 4].

2.1.2 DSA:

The Murphy LVL, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2913](#), complies with CBC amended Chapters 16 and 23, and Chapters 16A and 17A provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report, and the additional requirements in Section 2.1.2.1 and 2.1.2.2 of this supplement:

2.1.2.1 Conditions of Use:

1. All loads applied shall be determined by the registered design professional and shall comply with applicable loads and load combinations from CBC amended sections in Chapter 16 [DSA-SS/CC] and 16A [DSA/SS].
2. Conventional light-frame construction under Section 2308, if applicable, shall comply with the additional requirements of CBC Section 2308.2.7 [DSA-SS and DSA-SS/CC].
3. Construction documents shall include detailing and limitations for notches and bored holes in accordance with CBC amended Section 2304.4.1 [DSA-SS and DSA-SS/CC].
4. When the product is used as chords for trusses, the additional requirements of Section 2303.4.1.4.1 and Section 2303.4.3.1 [DSA-SS and DSA-SS/CC] for construction documents shall apply.

2.1.2.2 Special Inspection Requirement: Special inspection of wood structural elements are required in accordance with CBC amended Section 1705A.5.3 [DSA-SS and DSA-SS/CC].

2.2 CRC:

The Murphy LVL described in Sections 2.0 through 7.0 of the evaluation report [ESR-2913](#), complies with CRC Chapters 5 and 8, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report, [ESR-2913](#).

This supplement expires concurrently with the evaluation report ESR-2913, reissued August 2024 and revised July 2026.

ICC-ES Evaluation Report

ESR-2913 FL Supplement

Reissued August 2024

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 17 13—Laminated Veneer Lumber

REPORT HOLDER:

MURPHY ENGINEERED WOOD PRODUCTS DIVISION

EVALUATION SUBJECT:

MURPHY LAMINATED VENEER LUMBER (LVL)

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Murphy Laminated Veneer Lumber (LVL), described in ICC-ES evaluation report [ESR-2913](#), has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 *Florida Building Code—Building*
- 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Murphy LVL, described in Sections 2.0 through 7.0 of ICC-ES evaluation report [ESR-2913](#), complies with the *Florida Building Code—Building* or the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report [ESR-2913](#) for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Murphy LVL for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated and is outside the scope of this evaluation report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

This supplement expires concurrently with the evaluation report [ESR-2913](#), reissued August 2024 and revised July 2026.