



## Product Memorandum

**SUBJECT:** RedBuilt™ LVL and LSL Rim Board Product Offering  
(U.S. - Allowable Stress Design)

**DATE:** March 7, 2018

### RedBuilt™ LVL and LSL Rim Board

- **Building Code References:**

RedBuilt™ LVL and LSL Rim Board – ICC ESR-2993, ICC ESR-1040, ICC ESR-1387

- **Available Sizes:**

**RedBuilt™ LVL and LSL Rim Board**

Width = 1 ¼", 1 ½"

Depths = 9 ½", 11 ⅞", & 14" – 24" in 2" increments

Standard Length = 16' - 0"

- **Allowable Vertical Loads:**

**RedBuilt™ LVL and LSL Rim Board**

**Depth Range**

**Allowable Vertical Load (plf)<sup>(1)</sup>**

9 ½" – 20"

1.5" = 4,000 (1.25" = 3,700)

22" – 24"

1.5" = 3,000 (1.25" = 2,700)

(1) Allowable vertical loads shown represent maximum depths.

- **Allowable Shear:**

The allowable shear values in pounds-per-foot for horizontal wood structural diaphragms with framing of nominally 2-inch-thick Douglas fir-larch or Southern pine noted in Table 4.2C of NDS Special Design Provisions for Wind and Seismic are applicable to RedBuilt™ branded LVL and LSL rim board for unblocked diaphragms when complying with the nail spacing limitations shown below.

- **Nailing Information:**

Minimum on-center nail spacing:

Nail Type	Nail Size	Edge Nail		
		1.5" Rim	1.25" Rim	
8d	Box	0.113"x 2 1/2"	3"	4"
	Common	0.131"x 2 1/2"	3"	4"
10d	Box	0.128"x 3"	3"	4"
	Common	0.148"x 3"	4"	4"
12d	Box	0.128"x 3 1/4"	3"	4"
	Common	0.148"x 3 1/4"	4"	4"
16d	Box	0.135"x 3 1/2"	4"	4"
	Sinker	0.148"x 3 1/2"	4"	4"
	Common	0.162"x 3 1/2"	8"	6"

**Properties<sup>(1)</sup>:**

**Beam/Joist**

Modulus of elasticity

E = 1.3 x 10<sup>6</sup> psi

Flexural stress

F<sub>b</sub> = 1,700 psi<sup>(2)</sup>

Equivalent Specific Gravity

SG = 0.50 (for lateral connection design only)

(1) For detailed product properties consult the code evaluation reports

(2) For 12-inch depth. For other depths, multiply by the size factor  $C_f = (12/d)^{0.92}$ , where d is the member depth in inches.

- **For situations where higher allowable loads are required, consult your local RedBuilt™ technical representative. Go to [www.redbuilt.com](http://www.redbuilt.com) to find your technical representative.**