



## Product Memorandum

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

**DATE:** January 28, 2010

### RedBuilt™ LVL Rim Board

- **Building Code References:**  
RedBuilt™ LVL Rim Board – ICC ESR-2993, ICC ESR-1040, CCMC 12472-R

- **Available Sizes:**  
Width = 1 1/2"  
Depths = 9 1/2", 11 7/8", & 14" – 24" in 2" increments  
Standard Length = 16' - 0"

- **Allowable Vertical Loads:**
- | <b>Depth Range</b> | <b>Allowable Vertical Load (plf)<sup>(1)</sup></b> |
|--------------------|--|
| 9 1/2" – 20"       | 4,000  |
| 22" – 24"          | 3,000  |

(1) Allowable vertical loads shown represent maximum depths. 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.

- **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 2306.3.1 of the IBC are applicable to RedBuilt™ branded LVL 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	Face (Perpendicular to Glue Lines)	Edge (Parallel to Glue Lines)
8d	Box	0.113" x 2 1/2"	2"	3"
	Common	0.131" x 2 1/2"	2"	3"
10d	Box	0.128" x 3"	2"	3"
	Common	0.148" x 3"	3"	4"
12d	Box	0.128" x 3 1/4"	2"	3"
	Common	0.148" x 3 1/4"	3"	4"
16d	Box	0.135" x 3 1/2"	3"	4"
	Sinker	0.148" x 3 1/4"	3"	4"
	Common	0.162" x 3 1/2"	4"	8"

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

		<b>Beam/Joist</b>
Modulus of elasticity	E =	1.4 x 10 <sup>6</sup> psi <sup>(2)</sup>
Flexural stress	F <sub>b</sub> =	1,800 psi <sup>(3)</sup>
Equivalent Specific Gravity	SG =	0.50

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

(2) Apparent modulus of elasticity

(3) For 12-inch depth. For other depths, multiply by the size factor  $C_f = (12/d)^{1/9}$ , where d is the member depth in inches.