Product Memorandum

SUBJECT: **RedBuilt™ LVL and LSL Rim Board Product Offering (U.S. - Allowable Stress Design)**
DATE: **September 22, 2016**

RedBuilt™ LVL and LSL Rim Board

- **Building Code References:**
  RedBuilt™ LVL and LSL Rim Board – ICC ESR-2993, ICC ESR-1040, ICC ESR-1387, CCMC 13485-R
- **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)**(1)
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 (SDPWS-2008) 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(1):	**Beam/Joist**		
Modulus of elasticity	E	=	1.3×10^6 psi(2)
Flexural stress	F_b	=	1,700 psi(3)
Equivalent Specific Gravity	SG	=	0.50 (for lateral connection design only)

(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 $C_f = (12/d)^{0.092}$, 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 to find your technical representative.**