

# HOOVER TREATED WOOD PRODUCTS, INC.

## TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: [www.frtw.com](http://www.frtw.com) or 1-800-TEC-WOOD (832-9663)

### PYRO-GUARD® FIRE RETARDANT TREATED VERSA-LAM® AND VERSA-RIM® ALLOWABLE RIM BOARD DESIGN CAPACITIES<sup>1,2</sup>

ESR-1040 Table 2 Reductions

MODULUS OF ELASTICITY, E (x10 <sup>6</sup> psi)	MINIMUM THICKNESS (inches)	ALLOWABLE VERTICAL LOAD <sup>3</sup>				LATERAL CAPACITY <sup>6,7,8</sup> (lb/ft)	CONTAINS CROSS-PLY VENEER
		Distributed Load (lb/ft)		Concentrated Load (3½ in. Min. Width) (lb)			
		d ≤ 16	16 < d ≤ 20	d ≤ 16	16 < d ≤ 20		
1.3 – 1.6	1 <sup>5</sup> / <sub>16</sub>	2100	n/a	2440	n/a	See Note 4 (apply 0.80 reduction factor)	Yes
1.7 – 2.2	1 <sup>1</sup> / <sub>4</sub>	1480	n/a	2030	n/a	See Note 4 (apply 0.80 reduction factor)	No
2.0 – 2.2	1 <sup>1</sup> / <sub>2</sub>	1900	n/a	2360	n/a	See Note 4 (apply 0.80 reduction factor)	No
	1 <sup>3</sup> / <sub>4</sub>	1990	n/a	2360	n/a	See Note 4 (apply 0.80 reduction factor)	No

For SI: 1 inch = 25.4 mm, 1 lb = 4.4 N, 1 lb/ft = 47.8 Pa.

- <sup>1</sup> The rim board must be used as a continuously supported member and installed in accordance with Section 4.4 of ESR-1040.
- <sup>2</sup> Allowable loads given in this table are not permitted to be increased by the load duration factor, C<sub>D</sub>.
- <sup>3</sup> d = member depth (inches).
- <sup>4</sup> The lateral capacity (in-plane shear) is as permitted in the applicable code for solid-sawn lumber framing in horizontal wood diaphragms with nominally 2-inch-thick framing and with a **0.80** reduction factor applied.
- <sup>5</sup> The lateral capacity (in-plane shear) is as permitted in the applicable code for solid-sawn lumber framing in horizontal wood diaphragms with nominally 3-inch-thick framing and with a **0.80** reduction factor applied.
- <sup>6</sup> **VERSA-LAM®** and **VERSA-RIM®** treated with **PYRO-GUARD®** fire retardant chemical, used as rim joist, may be substituted for solid-sawn framing in horizontal wood diaphragms as shown in 2009 IBC Table 2306.2.1(1) and 2006 IBC Table 2306.3.1 (maximum horizontal shear values must be limited as noted).
- <sup>7</sup> Toe-nailed connections are not limited by the 150 plf lateral load capacity noted for Seismic Design Categories D, E, and F, in Section 4.1.7 of the ANSI/AF&PA SDPWS and Section 2305.1.4 of the 2006 IBC.
- <sup>8</sup> See ESR-1040 Table 3 for the minimum nail spacing requirements.

General Note: Treated product may exhibit cupping and increased dimension change.

DISCLAIMER OF LIABILITY FOR RELIANCE ON INFORMATION PROVIDED BY HOOVER TREATED WOOD PRODUCTS, INC.: The information contained herein is true and accurate to the best of our knowledge, but is provided without warranty or guarantee. Since the conditions of use are beyond our control, Hoover Treated Wood Products, Inc. ("Hoover") disclaims all liability and assumes no legal responsibility for damages resulting from use of or reliance upon the information contained herein.