

HOOVER TREATED WOOD PRODUCTS, INC

TECHNICAL NOTE

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

VERSA-LAM[®] AND VERSA-RIM[®] ALLOWABLE RIM BOARD DESIGN CAPACITIES^{1, 2} **PYRO-GUARD[®] Fire-Retardant-Treated Wood**

ESR-1040 Table 2 Reductions

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

- ¹ The rim board must be used as a continuously supported member and installed in accordance with Section 4.4 of ESR-1040.
- ² Allowable loads given in this table are not permitted to be increased by the load duration factor, C_D.
- ³ d = member depth (inches).
- ⁴ 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.
- ⁵ 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.
- ⁶ **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).
- ⁷ 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.
- ⁸ See ESR-1040 Table 3 for the minimum nail spacing requirements.

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