



QB RIM

APA-EWS Evaluated Rim Board



A zero-camber, cost-effective rim board that provides rapid installation and satisfies:

- building closure needs;
- fire systems and assemblies;
- lateral and vertical load transfer.

PRODUCT SIZES AND FEATURES:

- 1½" thickness in depths of 9¼", 9½", 11¼", 11⅞" and 14"
- 3½" and 5½" thickness in depths up to 20"
- Additional thicknesses available
- Square cut in 20' lengths for easy handling (other lengths may be special ordered)
- Manufactured to a +³/₃₂", -0 tolerance and a consistent, low moisture content of 12% for increased dimensional stability

QB RIM ALLOWABLE DESIGN PROPERTIES⁽⁴⁾

Thickness (in.)	Horizontal Load Transfer Capacity (lbf/ft) ⁽¹⁾⁽²⁾	Vertical Load ⁽⁶⁾						Lateral Resistance for ½" diameter lag screws (lbf) ⁽⁸⁾
		Uniform (lbf/ft)			Concentrated (lbf) ⁽⁷⁾			
		Depths ⁽⁵⁾			Depths ⁽⁵⁾			
6" o.c. Nail Spacing	≤ 11¼"	11¼" to ≤ 14"	>14" to ≤ 20"	≤ 11¼"	11¼" to ≤ 14"	>14" to ≤ 20"		
1½" < 3½"	220 ⁽³⁾	2,700	2,600	NA	2,800	2,800	NA	425
3½" ≥ 5½"	220 ⁽³⁾	7,400	7,100	7,100	7,200	7,200	7,200	475

For SI: 1" = 25.4mm; 1lbf = 0.454 kg, 1 psi = 6.9 kPa

(1) QB RIM may be substituted for solid-sawn framing in horizontal wood diaphragms as shown in Table 4.2A of the 2015 SDPWS (2018 and 2015 IBC) and 2008 SDPWS (2012 IBC), provided the maximum shear values for the diaphragms are limited to the allowable lateral capacity noted in this table. Contact your design professional for suitability with other systems or use in extremely arid regions.

(2) Nailing Requirements for Horizontal Load Transfer:

Location	Nail Type
Floor sheathing to QB RIM	8d (0.131" x 2½") common
QB RIM to sill plate	8d (0.131" x 2½") common, toe-nail
Floor joist to sill plate	Two 8d (0.113" x 2½") box or
1½" QB RIM to end of floor joist	Two 8d (0.131" x 2½") common
End of floor joist to 3½" or 5½" QB RIM	Slant nails

(3) The horizontal load transfer capacity may be increased by a factor of 1.4 when subjected to wind loads. Toe-nailed connections are not limited by the 150 lbf/ft lateral load capacity noted for Seismic Design Categories D, E and F in Section 4.1.7 of the *Special Design Provisions for Wind and Seismic* (SDPWS).

(4) All table design values are applicable to the normal load duration (10 years) for wood products, except for the horizontal load transfer capacity, which is based on the short-term load duration (10 minutes). Design values shall be adjusted for other load durations in accordance with the applicable building code except that uniform and concentrated vertical load capacities may not be increased for any load durations shorter than the normal load duration (10 years).

(5) Rim board depth shall not exceed 14" for 1½"-thick product and 20" for 3½"- and 5½"-thick product. Rim board must be continuously supported for the full length and thickness of the product.

(6) Compression perpendicular-to-grain capacities of the sill plate and floor sheathing must be checked and must not be exceeded.

(7) Concentrated vertical load capacity is based on a 4" bearing length.

(8) Capacity of lag screw connections between rim board and deck ledgers per ½" diameter lag screw when installed into the face of QB RIM, 2x spruce-pine-fir side member, and ½"-thick sheathing. Lag screw must fully penetrate the QB RIM and a 4" minimum end distance is required.