

Prescriptive Rim Board (1" and 1-1/8") Checklist

Prescriptive rim application allows the use of thin 1" and 1-1/8" rim for lightly loaded structures that do not have to be justified with calculations and fit within the prescriptive limitations of the International Residential Code (IRC). There are many requirements that the structure must meet to use these thin rims correctly. If you do not meet all items, the loads on the structure may exceed the capacity of these thin rims. When an item below is outside the scope of prescriptive applications, it typically will require thicker rim board or a closer nailing pattern that can be accommodated with a 1-1/4" wide or greater SCL rim and may require a professional designer's involvement to confirm adequacy.

Use of thin rims must meet all of the following:

(For all requirements, refer to the 2018 IRC. Specific references noted in brackets)

- Detached one and two-family dwelling and multiple single-family dwellings (townhouses) not more than three stories tall. ^[a]
- Ultimate 3-second gust wind speed of 130 mph or less. ^[a]
- Snow load of 70 psf or less. ^[b]
- Max roof truss span, including overhangs is 40'. ^[c]
- Minimum roof pitch of 3/12 and maximum of 12/12. ^[d]
- Max roof joist, floor joist, and stud spacing is 24" on center. ^[c]
- Maximum load bearing wall stud length is 10'. ^[e]
- Maximum story height shall not exceed 11'-7". ^[f]
- Maximum floor load of 40 psf and maximum dead load of 20 psf. ^[g]
- 3/4" floor sheathing attached to rim using 8d (2.5" x .131") nail at 6" on center. ^[h]
- Wall plate attachment to rim using 16d (3.5" x .135") nails at 16" on center for walls. Nailing quantity changes to (3) nails at braced wall lines. ^[h]
 - Closer on center spacing cannot be accommodated by 1" and 1-1/8" rim boards.

Limits shown are largely based on the IRC; however, where provisions of the code are unclear or incomplete, other resources-such as engineering mechanics, analysis, and the 2018 ANSI: A Wood Frame Construction Manual (WFCM) for One and Two-Family Dwelling may be used.

For more information on conventional construction, please see Weyerhaeuser Technical Resource Sheet #1502 on www.Weyerhaeuser.com.

- [a] IRC R301.2.1.1
- [b] IRC R301.2.3
- [c] Footnote to IRC Table R802.4(1), R802.4(2), R802.5.1(1)-R802.5.1(5)
- [d] IRC R802.2
- [e] IRC R502.4
- [f] IRC R301.3
- [g] IRC Tables R502.3(1), R502.3(2)
- [h] Table R602.3(1)