

1309.0602 SECTION R602, WOOD WALL FRAMING.

Subpart 1. **IRC Table R602.3.1.** Table R602.3.1 is amended to read as follows:

TABLE R602.3.1

MAXIMUM ALLOWABLE LENGTH OF WOOD WALL STUDS EXPOSED TO

WIND SPEEDS OF 90 MPH OR LESS^{b,c,d,e,f,g,h,i}

Where conditions are not within the parameters

of footnotes b, c, d, e, f, g, h, and i,

design is required.

ROOF SPANS UP TO 22' SUPPORTING A ROOF ONLY

Maximum Wall Height (feet)	Exposure Category ^{h,i}	On-Center Spacing (inches)			
		24	16	12	8
10	B	2x6	2x4	2x4	2x4
	C	2x6	2x6	2x4	2x4
12	B	2x6	2x6	2x4	2x4
	C	2x6	2x6	2x6	2x4
14	B	2x6	2x6	2x6	2x4
	C	2x6	2x6	2x6	2x6
16	B	2x8	2x6	2x6	2x6
	C	2x8	2x6	2x6	2x6
18	B	2x8	2x8	2x6	2x6
	C	2x8	2x8	2x6	2x6
20	B	2x8	2x8	2x8	2x6
	C	NA ^a	2x8	2x8	2x6
24	B	NA ^a	2x8	2x8	2x8
	C	NA ^a	NA ^a	2x8	2x8

 ROOF SPANS GREATER THAN 22' AND UP TO 26' SUPPORTING A ROOF ONLY

Maximum Wall Height (feet)	Exposure Category ^{h,i}	On-Center Spacing (inches)			
		24	16	12	8
10	B	2x6	2x6	2x4	2x4
	C	2x6	2x6	2x6	2x4
12	B	2x6	2x6	2x6	2x4
	C	2x8	2x6	2x6	2x6
14	B	2x6	2x6	2x6	2x6
	C	2x8	2x8	2x6	2x6
16	B	2x8	2x6	2x6	2x6
	C	2x8	2x8	2x6	2x6
18	B	2x8	2x8	2x6	2x6
	C	NA ^a	2x8	2x8	2x6
20	B	NA ^a	2x8	2x8	2x6
	C	NA ^a	NA ^a	2x8	2x8
24	B	NA ^a	NA ^a	2x8	2x8
	C	NA ^a	NA ^a	NA ^a	2x8

ROOF SPANS GREATER THAN 26' AND UP TO 30' SUPPORTING A ROOF ONLY

Maximum Wall Height (feet)	Exposure Category ^{h,i}	On-Center Spacing (inches)			
		24	16	12	8
10	B	2x6	2x6	2x4	2x4
	C	2x6	2x6	2x6	2x4
12	B	2x6	2x6	2x6	2x4

	C	2x8	2x6	2x6	2x6
14	B	2x8	2x6	2x6	2x6
	C	2x8	2x8	2x6	2x6
16	B	2x8	2x6	2x6	2x6
	C	2x8	2x8	2x8	2x6
18	B	2x8	2x8	2x6	2x6
	C	NA ^a	2x8	2x8	2x8
20	B	NA ^a	2x8	2x8	2x6
	C	NA ^a	NA ^a	2x8	2x8
24	B	NA ^a	NA ^a	2x8	2x8
	C	NA ^a	NA ^a	NA ^a	2x8

ROOF SPANS GREATER THAN 30' AND UP TO 34' SUPPORTING A ROOF ONLY

Maximum

Wall Height
(feet)

Exposure
Category^{h,i}

On-Center Spacing (inches)

24

16

12

8

10	B	2x6	2x6	2x4	2x4
	C	2x6	2x6	2x6	2x4
12	B	2x6	2x6	2x6	2x4
	C	2x8	2x6	2x6	2x6
14	B	2x8	2x6	2x6	2x6
	C	2x8	2x8	2x6	2x6
16	B	2x8	2x8	2x6	2x6
	C	NA ^a	2x8	2x8	2x6
18	B	2x8	2x8	2x6	2x6
	C	NA ^a	NA ^a	2x8	2x8
20	B	NA ^a	2x8	2x8	2x6
	C	NA ^a	NA ^a	2x8	2x8

24	B	NA ^a	NA ^a	2x8	2x8
	C	NA ^a	NA ^a	NA ^a	2x8

- a. Design required.
- b. Applicability of these tables assumes the following: SPF#2 or better, Ground snow = 60 psf, Roof snow = 42 psf, Component and Cladding Zone 4 - 50 square feet (Exposure B = 14.3 psf, Exposure C = 18.4 psf), eaves not greater than 2.0 feet in dimension.
- c. The exterior of the wall shall be continuously sheathed in accordance with one of the materials listed in items 32 to 38 in Table R602.3(1), including the prescribed fastening. All wall bracing requirements shall be in accordance with section R602.10.
- d. Studs shall be continuous full height. Where studs do not extend full height due to a wall opening, full height studs shall be provided on each side of the opening, equal in number to the spacing of the required full height studs multiplied by half the width of the opening, plus one stud. Where multiple openings occur adjacent to one another, framing between openings shall include the total of all full height studs required for both openings combined.
- e. Full depth blocking is required at 10-foot spacing maximum.
- f. Utility, standard, stud, and No. 3 grade lumber of any species are not permitted.
- g. This table is based on a maximum allowable deflection limit of L/120.

Subp. 2. **IRC section R602.10.11.** Section R602.10.11 is amended to read as follows:

R602.10.11 Cripple wall bracing. Cripple walls shall be constructed in accordance with section R602.9 and braced in accordance with this section. Cripple walls shall be braced with the length and method of bracing used for the wall above in accordance with Tables R602.10.3(1) and R602.10.3(3), and the applicable adjustment factors in Table R602.10.3(2) or R602.10.3(4), respectively, except that the length of cripple wall bracing shall be multiplied by a factor of 1.15.

Statutory Authority: *MS s 16B.59; 16B.61; 16B.64; 326B.02; 326B.101; 326B.106; 326B.13*

History: *32 SR 12; L 2007 c 140 art 4 s 61; art 13 s 4; 39 SR 91*

Published Electronically: *January 26, 2015*