PUBLIC CODE CHANGE PROPOSAL FORM

FOR PUBLIC PROPOSALS TO THE INTERNATIONAL CODES
2012/2013 CODE DEVELOPMENT CYCLE

CLOSING DATES: Group B Codes: January 3, 2013

R602.3.1 Tall studs

1)

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X **2012/2013 Cycle copyright release on file**

3) **Code:** Indicate appropriate International Code(s) associated with this Public Proposal – Please use Acronym: **IRC**

If you have also submitted a separate coordination change to another I-Code, please indicate the code: _____
(See section below for list of names and acronyms for the International Codes).

NOTE: Sections of the International Codes that have a letter designation in brackets in front of them are the responsibility of a different committee than the committee normally responsible for that code. For instance, Section 301.1.4 of the IEBC has a [B] in front of it, meaning that this section is the responsibility of one of the IBC Code Development Committees (in this case, IBC-S). Any proposed changes to Section 301.1.4 will be heard by the IBC-Structural committee.

Therefore, some code change proposals to Group B code text may be due in order to be heard by Group A code development committees, and vice versa. Please go to www.iccsafe.org/responsibilites for detailed information on Group A and Group B Code Development Committee responsibilities.

4) **E-mail address:** Your email address will be published with your code change proposal unless you check here: _____

Please make the following changes to Section R602.3.1

R602.3.1 Stud size, height and spacing. The size, height and spacing of studs shall be in accordance with Table R602.3(5).

Exceptions:

1. Utility grade studs…no change

2. ~~Studs more than 10 feet in height which are in accordance with Table R602.3.1.~~Walls over 12 feet tall, two-story gable end walls and two-story walls supporting a roof with not more than 6' of tributary length, shall be permitted. The studs shall be 2x6 at 16 inches on center with a maximum height of 20 feet. The wall shall be sheathed with wood structural panels on the exterior and gypsum board or equivalent on the interior. Window and door penetrations shall be permitted with jack studs supporting the header in accordance with Section R602.7 and double king studs outboard of the jacks on each side of the opening.

   Exception: If any portion of the two-story wall is required to be a qualified braced wall panel to achieve compliance with Section R602.10.2 for either floor, then it shall be designed by a registered design professional.

Please delete Table R602.3.1 including its related drawing.

TABLE R602.3.1
MAXIMUM ALLOWABLE LENGTH OF WOOD STUDS EXPOSE TO WIND SPEEDS OF 100 MPH OR LESS IN SEISMIC DESIGN CATEGORIES a,B,C,D_0,D_1, AND D_2

TABLE R602.3.1
MAXIMUM ALLOWABLE LENGTH OF WOOD WALL STUDS EXPOSED TO WIND SPEEDS OF 100 mph OR LESS IN SEISMIC DESIGN CATEGORIES A, B, C, D_0, D_1 and D_2[a, b, c]

HEIGHT (feet)	ON-CENTER SPACING (inches)			
	24	16	12	8
Supporting a roof only				
>10	2 × 4	2 × 4	2 × 4	2 × 4
12	2 × 6	2 × 4	2 × 4	2 × 4
14	2 × 6	2 × 6	2 × 6	2 × 4
16	2 × 6	2 × 6	2 × 6	2 × 4
18	NA*	2 × 6	2 × 6	2 × 6
20	NA*	NA*	2 × 6	2 × 6
24	NA*	NA*	NA*	2 × 6
Supporting one floor and a roof				
>10	2 × 6	2 × 4	2 × 4	2 × 4
12	2 × 6	2 × 6	2 × 6	2 × 4
14	2 × 6	2 × 6	2 × 6	2 × 6
16	NA*	2 × 6	2 × 6	2 × 6
18	NA*	2 × 6	2 × 6	2 × 6
20	NA*	NA*	2 × 6	2 × 6
24	NA*	NA*	NA*	2 × 6
Supporting two floors and a roof				
>10	2 × 6	2 × 6	2 × 4	2 × 4
12	2 × 6	2 × 6	2 × 6	2 × 6
14	2 × 6	2 × 6	2 × 6	2 × 6
16	NA*	NA*	2 × 6	2 × 6
18	NA*	NA*	2 × 6	2 × 6
20	NA*	NA*	NA*	2 × 6
22	NA*	NA*	NA*	NA*
24	NA*	NA*	NA*	NA*

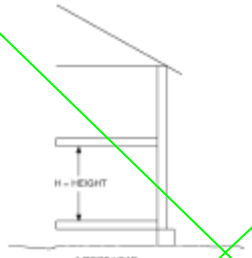
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0478 kPa, 1 pound per square inch = 6.895 kPa, 1 mile per hour = 0.447 m/s.

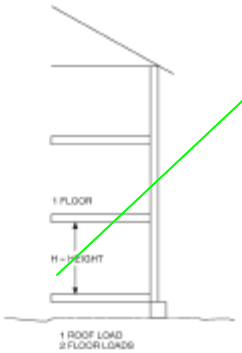
a. Design required.

b. Applicability of this table assumes the following: Snow load not exceeding 25 psf; f_b not less than 1310 psi determined by multiplying the AF&PA NDS tabular base design value by the repetitive use factor, and by the size factor for all species except southern pine; E_{min} not less than 1.6×10^6 psi; in-lumber dimensions for floors and roof not exceeding 6 feet, maximum span for floors and roof not exceeding 12 feet, eaves not over 2 feet in dimension and attic not sheathing. Where the conditions are not within these parameters, design is required.

c. Utility, standard, stud and No. 3 grade lumber of any species are not permitted.

TABLE R602.3.1—continued
MAXIMUM ALLOWABLE LENGTH OF WOOD WALL STUDS EXPOSED TO WIND SPEEDS OF 100 mph OR LESS IN SEISMIC DESIGN CATEGORIES A, B, C, D_0, D_1 and D_2



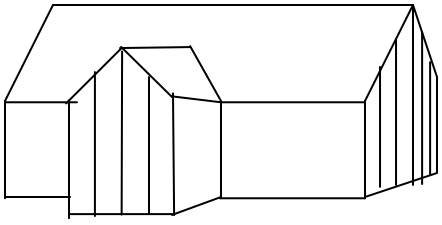


Reason statement:

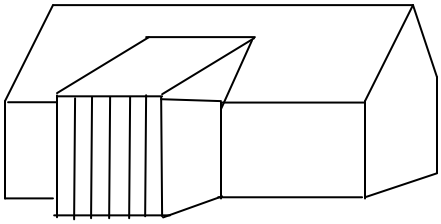
Table R602.3.1 has been the source of a lot of confusion. The footnote b is seldom read or understood. This change is submitted to:

1. Eliminate the table - the source of the confusion
2. Provide clarification as to where it can be applied (see the three options below)
3. Write in prose the requirements using a 2x6 wall.
4. To say that you cannot use these tall studs where the wall is an integral part of the wall bracing system.

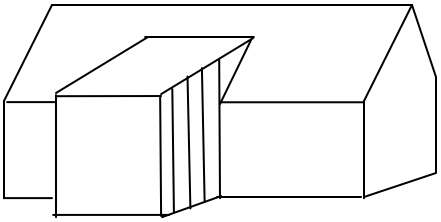
1. It could be used for a tall wall or a two-story gable ended wall supporting nothing more than self weight.



2. It could be used for a two-story projection where the roof framing runs perpendicular to the wall so long as the overbuilt roof has a trib length of 6' or less



3. It could be used for a two-story projection where the roof framing runs parallel to the wall supporting nothing more than self weight



Cost Impact: None.

Public Hearing: Committee: AS AM D DF

Assembly: ASF AMF