

IRC 6-1 Notching and boring clarifications

R602.6 Drilling and notching of studs. Drilling and notching of studs shall be in accordance with the following:

1. Notching. ~~Any A~~ stud in an exterior wall or bearing partition shall not be ~~permitted to be cut or notched to a depth not exceeding 25 percent of its depth width.~~ Studs in nonbearing partitions shall not be ~~permitted to be notched to a depth not to exceed exceeding 40 percent of a single stud depth width.~~

2. ~~Boring.~~ Drilling. ~~Any stud shall be permitted to be bored or drilled, provided that the diameter of the resulting hole is not more than~~ The diameter of bored holes in studs shall not exceed 60 percent of the stud depth ~~width~~, the edge of the hole shall be ~~is not more less than 5/8 inch (16 mm) to from the edge of the stud, and the hole is shall not~~ located in the same section as a cut or notch. Where the diameter of a bored hole in a stud located in exterior walls or bearing partitions drilled is over 40 percent, and up to 60 percent such stud shall be doubled with and not more than two successive doubled studs shall be so bored. See Figures R602.6(1) and R602.6(2).

Exception: ~~Use of~~ Where approved stud shoes ~~is permitted where they are~~ installed in accordance with the manufacturer's ~~recommendations~~ instructions.

IRC R602.6 (2) Drilling. Any stud shall be permitted to be bored or drilled, provided that the diameter of the resulting hole is not more than 60 percent of the stud depth ~~width~~, the edge of the hole is not ~~more less than 5/8 inch (16 mm) to from the edge of the stud, and the hole is not~~ located in the same section as a cut or notch.

Reason: IMC 302.3.3, IPC C101.3, IFGC 302.3.4 sections were changed in this manner last cycle. The current text uses the word width, when actually it is the depth that is meant. The depth of a stud is the plane in which a hole is bored. Holes are not bored in the width (1 ½ inches) of a stud. This revision also gets rid of unenforceable permissive language. The current text says that any stud is permitted to be notched to a depth not exceeding 25%. This is stating a permitted limit; not a mandatory limit. A highway speed limit is not permitted to be 55 miles per hour, rather it is an absolute limit of 55. If the stud is permitted to be notched to not exceed 25%, then it also permitted to be notched to not exceed other percentages. Lastly, this proposal corrects a flaw where the text said that the edge of the hole cannot be more than 5/8 inch to the edge of the stud. The intent is exactly the opposite. The edge of the hole must not be less than 5/8 inch to the edge of the stud.

Cost Impact: This proposal will not increase the cost of construction.