



CITY OF CORONADO

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HANDOUT

213

APRIL 2013

CUTTING, NOTCHING & BORING OF STUDS

PURPOSE: To provide contractors and owner/builders guidance regarding cutting, notching and boring wood studs.

AUTHORITY: 2010 California Building Code, Sections 2308.9.10, 2308.9.11 and 2308.10.4.2

2308.9.10 Cutting and Notching. *"In exterior walls and bearing partitions, any wood stud is permitted to be cut or notched to a depth not exceeding 25 percent of its width. Cutting or notching of studs to a depth not greater than 40 percent of the width of the stud is permitted in nonbearing partitions supporting no loads other than the weight of the partition."*

2308.9-11 Bored holes. *"A hole not greater in diameter than 40 percent of the stud width is permitted to be bored in any wood stud. Bored holes not greater than 60 percent of the width of the stud are permitted in nonbearing partitions or in any wall where each bored stud is doubled, provided not more than two such successive doubled studs are so bored."*

2308.10.4.2 Notches and holes. *"Notching at the ends of rafters or ceiling joists shall not exceed one-fourth the depth. Notches in the top or bottom of the rafter or ceiling joist shall not exceed one-sixth the depth and shall not be located in the middle one-third of the span, except that a notch not exceeding one-third of the depth is permitted in the top of the rafter or ceiling joist not further from the face of the support than the depth of the member."*

Holes bored in rafters or ceiling joists shall not be within 2 inches (51mm) of the top and bottom and their diameter shall not exceed one-third the depth of the member."

NOTES:

1. Cutting, Notching and Boring – Engineered Wood Products:

Prefabricated wood I-joists, structural glued-laminated timber and structural composite lumber shall not be notched or drilled except where permitted by the manufacturer's recommendations or where the effects of such alterations are specifically considered in the design of the member by a registered design professional. (2010 CBC 2308.10.7)

2. Questions regarding cutting, notching and boring of structural members shall be addressed first to the registered design professional (structural engineer) of record for the project.

DATA: Diagrams

Cutting and Notching

Cutting and Notching (con't)

Boring