



CITY OF  
GRAND RAPIDS  
IT'S IN MINNESOTA'S NATURE

## NOTCHING AND BORING

City of Grand Rapids  
Building Safety Division

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This handout is intended only as a guide and is based in part on the 2015 Minnesota State Building Code, Grand Rapids City ordinances, and good building practice. While every attempt has been made to insure the correctness of this handout, no guarantees are made to its accuracy or completeness. Responsibility for compliance with applicable codes and ordinances falls on the owner or contractor. For specific questions regarding code requirements, refer to the applicable codes or contact your local Building Safety Division.

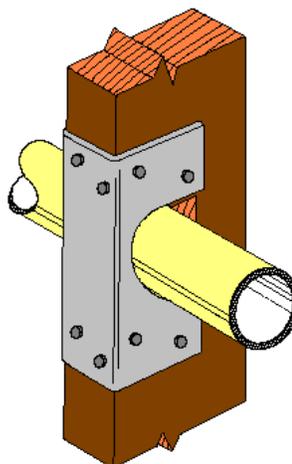
The purpose of this handout is to provide the limitations for notching and boring wood studs, joists, and plates. For cutting, notching and boring trusses and manufactured lumber such as laminated veneer lumber, the manufacturer's installation instructions should be consulted.

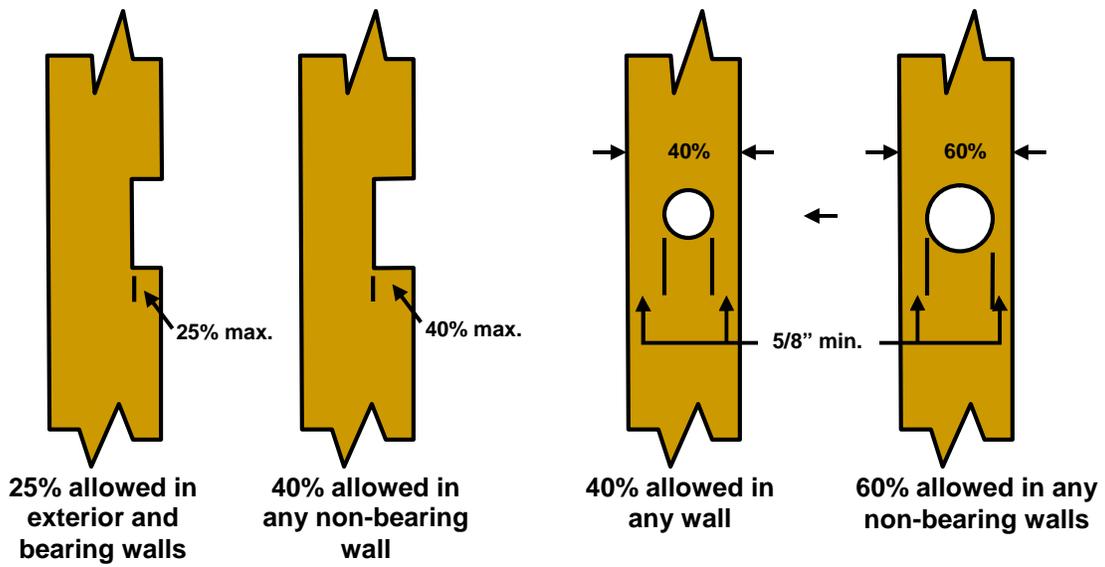
NOTCHING AND BORING WOOD STUDS <sup>2</sup>				
	Maximum Diameter of Hole	Distance From Hole to Edge of Stud	Location	Maximum Depth of Cut or Notch
Bearing/Exterior Studs <sup>1</sup>	40% of Stud Width	5/8" Minimum	Not same section as cut or notch	25% of Width of Stud
Interior Nonbearing Studs	60% of Stud Width	5/8" Minimum	Not same section as cut or notch	40% of Width of Stud

<sup>1</sup> *Exterior or bearing studs* may be bored or drilled provided that the diameter of the resulting hole is not greater than 60 percent of the stud width and provided that the studs are doubled and not more than two successive studs are bored, the edge of the hole is no closer than 5/8 inch to the edge of the stud, and the hole is not located in the same section as a cut or notch.

<sup>2</sup> Approved stud shoes may be used when installed in accordance with the manufacturer's recommendations.

**STUD SHOE USED TO REINFORCE NOTCHED STUD**





### CUTS/BORES IN FLOOR JOISTS

