

Fasteners building:

According to AISC, the cross sectional area of bolts and threaded parts are designed for specified allowable unit tension and shear stresses. In case of seismic loads and wind loads in combination of gravity loads, we increase the allowable stresses by 1/3. Normally in case of direct tension, rivets are not recommended.

Bearing type connections are the most commonly used connection in building construction. In buildings, the allowable bearing stress  $F_p$ , ksi (MPa), on projected area of fasteners is

$$F_p = 1.2 F_u$$

where

$F_u$  is the tensile strength of the connected part in ksi (MPa).

Points to be remembered

1. The distance in the line of force to the nearest edge of the connected part should be at least  $1.5d$ .
2. The center to center spacing of fasteners should be at least  $3d$ .

where  $d$  is the fastener diameter

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