DSA Structural Amendments under review are highlighted in GRAY

Template 22-04

2001 CBC - Chapter 22A
STEEL

Section - 2209A - AMENDMENTS
Subsection(s) - 4. - 5.

4. Sec. J1, 10. *Delete entirely and replace with:*

Bolts in Combination with Welds. *In new work, A307 bolts or high-strength bolts used in bearing-type connections shall not be considered as sharing the stress in combinations with welds. The welds shall be made before the bolts are tensioned. Welds, if used, shall be provided to carry the entire stress in the connection. High-strength bolts proportioned for slip-critical connections may be considered as sharing the stress with the welds.*

In making welding alterations to structures, existing rivets and high-strength bolts tightened to the requirements for slip-critical connections are permitted for carrying stresses resulting from loads present at the time of alteration, and the welding need be adequate to carry only the additional stress.

5. Sec. J3, 7. *Delete entirely and replace with:*

Allowable Bearing at Bolt Holes. *On the projected area of bolts and rivets in shear connections with the end distance in the line of force not less than 1-1/2d and the distance center-to-center of bolts not less than 3d:*

1. In standard- or short-slotted holes with two or more bolts in the line of force,

$$F_p = 1.2\,F_u \qquad \text{(J3-1)}$$

2. In oversized-, short- or long-slotted holes with the axis of the slot perpendicular to the direction of load and with two or more bolts in the line of force,

$$F_p = 0.9\,F_u \qquad \text{(J3-2)}$$

On the projected area of the bolt or rivet closest to the edge in standard- or short-slotted holes with the edge distance less than 11/2d and in all connections with a single bolt in the line of force:

$$F_p = L_c\,F_u/2d = < 1.2\,F_u \qquad \text{(J3-3)}$$

WHERE:

L_c = *distance from the free edge to center of the bolt, in.*

d = bolt diameter, in.

If deformation around the hole is not a design consideration and adequate spacing and edge distance is as required by Section J3.8 and J3.9, the following equation is permitted in lieu of Equation (J3-1):

$$F_p = 1.5\,F_u \qquad \text{(J3-4)}$$

and the limit in Equation (J3-3) shall be increased to $1.5\,F_u$.