



DSA Structural Amendments under review are highlighted in GRAY

Template 21-30

2001 CBC - Chapter 21A
MASONRY

Section - 2107A - WORKING STRESS DESIGN OF
MASONRY

Subsection(s) - 2107A.1.5.3

1 2107A.1 General.

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4 2107A.1.5.3 Shear. Allowable loads in shear shall be the value
5 selected from Table 21A-F or shall be determined from the lesser
6 of Formula (7A-5) or Formula (7A-6).

7

$$8 \quad B_v = 350 \sqrt[4]{f'_m A_b} \quad (7A-5)$$

9

10 For SI:

$$11 \quad B_v = 1070 \sqrt[4]{f'_m A_b}$$
$$12 \quad B_v = 0.12 A_b f_y \quad (7A-6)$$

13

14 Where the anchor bolt edge distance l_{be} in the direction of load
15 is less than 12 bolt diameters, the value of B_v in Formula (7A-5)
16 shall be reduced by linear interpolation to zero at an l_{be} distance of
17 1-1/2 inches (38 mm) *and confining reinforcement consisting of not*
18 *less than No. 3 hairpins, hooks or stirrups for end bolts and be-*
19 *tween horizontal reinforcing for other bolts shall be provided.*

20 Where adjacent anchors are spaced closer than $8d_b$, the allowable
21 shear of the adjacent anchors determined by Formula (7A-5) shall
22 be reduced by linear interpolation to 0.75 times the allowable
23 shear value at a center-to-center spacing of four bolt diameters.

24 *For bolts in tops of columns, see Section 2106A.3.7.*