



DSA Structural Amendments under review are highlighted in GRAY

Template 19-50

**2001 CBC - Chapter 19A
CONCRETE**

Section - 1923A - ANCHORAGE TO CONCRETE

Subsection(s) - 1923A.1 – 1923A.2

1 **1923A.1 Service Load Design.** Bolts and headed stud anchors
2 shall be solidly cast in concrete and the service load shear and ten-
3 sion shall not exceed the values set forth in Table 19A-D. All bolts
4 shall be accurately and securely set prior to placement of con-
5 crete, except as indicated in Section 1916A.4.2.

6
7 For combined tension and shear:

$$(P_s/P_t)^{5/3} + (V_s/V_t)^{5/3} \leq 1$$

8
9
10
11 **WHERE:**

12 P_s = applied service tension load.
13 P_t = Table 19A-D service tension load.
14 V_s = applied service shear load.
15 V_t = Table 19A-D service shear load.

16
17 **1923A.2 Strength Design.** The factored loads on embedded an-
18 chor bolts and headed studs shall not exceed the design strengths
19 determined by Section 1923A.3.

20
21 All bolts shall be accurately and securely set prior to placement
22 of concrete except as indicated in Section 1916A.7.1.

23
24 In addition to the load factors in Section 1909A.2, a multiplier
25 of 1.3 shall be used. * * * When anchors are embedded in the
26 tension zone of a member, the load factors in Section 1909A.2
27 shall have a multiplier of 2.