



DSA Structural Amendments under review are highlighted in GRAY

Template 19-62

2001 CBC - Chapter 19A
CONCRETE

Section - **1929A - TESTING AND INSPECTION**

Subsection(s) - **1929A.3**

1 1929A.3 Tests for Prestressing Steel and Anchorage. All wires
2 or bars of each size from each mill heat and all strands from each
3 manufactured reel to be shipped to the site shall be assigned an
4 individual lot number and shall be tagged in such a manner that
5 each lot can be accurately identified at the jobsite. Each lot of ten-
6 don and anchorage assemblies and bar couplers to be installed
7 shall be likewise identified.

8
9 The following samples of materials and tendons selected by the
10 engineer or the designated testing laboratory from the prestress-
11 ing steel at the plant or jobsite shall be furnished by the contractor
12 and tested by an approved independent testing agency:

13
14 1. For wire, strand or bars, 7-foot-long (2134 mm) samples
15 shall be taken of the coil of wire or strand reel or rods. A minimum
16 of one random sample per 5,000 pounds (2270 kg) of each heat or
17 lot used on the job shall be selected.

18
19 2. For prefabricated prestressing tendons other than bars, one
20 completely fabricated tendon 10 feet (3048 mm) in length between
21 grips with anchorage assembly at one end shall be furnished for
22 each size and type of tendon and anchorage assembly.

23
24 Variations of the bearing plate size need not be considered.

25
26 The anchorages of unbonded tendons shall develop at least 95
27 percent of the minimum specified ultimate strength of the pre-
28 stressing steel. The total elongation of the tendon under ultimate
29 load shall not be less than 2 percent measured in a minimum gage
30 length of 10 feet (3048 mm).

31
32 Anchorage of bonded tendons shall develop at least 90 percent
33 of the minimum specified strength of the prestressing steel tested in

34 an unbonded state. All couplings shall develop at least 95 percent
35 of the minimum specified strength of the prestressing steel and
36 shall not reduce the elongation at rupture below the requirements
37 of the tendon itself.

38
39 3. If the prestressing tendon is a bar, one 7-foot (2134 mm)
40 length complete with one end anchorage shall be furnished and, in
41 addition, if couplers are to be used with the bar, two 4-foot (1219
42 mm) lengths of bar fabricated to fit and equipped with one coupler
43 shall be furnished.

44
45 4. Mill tests of materials used for end anchorages shall be fur-
46 nished. In addition, at least one Brinnell hardness test shall be
47 made of each thickness of bearing plate.