



DSA Structural Amendments under review are highlighted in GRAY

**Template 17-05**

**2001 CBC - Chapter 17A**

**STRUCTURAL TESTS AND INSPECTIONS**

**Section - 1701A - SPECIAL INSPECTIONS**

**Subsection(s) - 1701A.5: 5. Structural Welding - 6. High Strength Bolting**

1 **1701A.5 Types of Work** *Requiring Constant Presence of the*  
2 *Project or Special Inspector.*

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5 **5. Structural welding.** *Special inspector required.*

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7 **5.1 General.** During the welding of any member or connection that is designed to resist loads and forces required  
8 by this code. *See also Chapter 22A, Division XII, Section 2231A for additional requirements.*

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11 **EXCEPTION:** The special inspector need not be *constantly* present during welding of the following items, provided the materials, qualifications of welding procedures and welders are verified prior to the start of work; *continuous* inspections are made of work in progress; and a visual inspection of all welds is made prior to completion or prior to shipment of shop welding:

- 12 1. Floor and roof deck welding.
- 13 2. Welded studs when used for structural diaphragm or composite systems.
- 14 3. Welded sheet steel for cold-formed steel framing members such as studs and joists *which are not part of a lateral-force-resisting system.*
- 15 4. Welding of stairs and railing systems.

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29 **5.2 Special moment-resisting steel frames.** During the welding of special moment-resisting steel frames. In addition to Item 5.1 requirements, nondestructive testing as required by Section 1703A *and Chapter 22A, Division XII, Section 2231A* of this code.

35           **5.3 Welding of reinforcing steel.** During the welding of  
36           reinforcing steel. *See Chapter 19A, Division IX, Section*  
37           *1929A for additional requirements.*

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39           **6. High-strength bolting.** *Special inspector required.* The  
40           inspection of high-strength A 325 and A 490 bolts shall be in  
41           accordance with *the standards adopted as part of this code,*  
42           approved nationally recognized standards and the requirements of  
43           this section.

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45           While the work is in progress, the special inspector shall deter-  
46           mine that the requirements for bolts, nuts, washers and paint;  
47           bolted parts; and installation and tightening in such standards are  
48           met. \* \* \* The special inspector shall observe the calibration  
49           procedures when such procedures are required by the plans or  
50           specifications and shall monitor the installation of bolts to deter-  
51           mine that all plies of connected materials have been drawn  
52           together and that the selected procedure is properly used to tighten  
53           all bolts.