



DSA Structural Amendments under review are highlighted in GRAY

Template 22-17

2001 CBC - Chapter 22A
STEEL

Section - 2231A - TESTING AND INSPECTION GENERAL PROVISIONS

Subsection(s) - 2231A.5

1 *2231A.5 Inspection of Welding. Inspection of all shop and field*
2 *welding operations, including the installation of automatic*
3 *end-welded stud shear connectors shall be made by a qualified*
4 *welding inspector approved by the enforcement agency. Such in-*
5 *spector shall be a person trained and thoroughly experienced in*
6 *inspecting welding operations. The inspector's ability to distin-*
7 *guish between sound and unsound welding shall be reliably estab-*
8 *lished. The minimum requirements for a qualified welding*
9 *inspector shall be as those for an AWS certified welding inspector*
10 *(CWI), as defined in the provisions of the ANSI/AWS QCI-1-96,*
11 *Standard for AWS Certification of Welding Inspectors published*
12 *by the American Welding Society. All welding inspectors shall be*
13 *as approved by the enforcement agency.*

14
15 *The ability of each welder to produce sound welds of all types*
16 *required by the work shall be established by welder qualification*
17 *satisfactory to the enforcement agency.*

18
19 *Welding inspection of structural welding shall conform to the*
20 *requirements of AWS D1.1 Structural Welding Cod - Steel, 1998*
21 *edition, published by the American Welding Society, except as mo-*
22 *dified by this section.*

23
24 *Welding inspection of cold-formed steel members shall conform*
25 *to the requirements of AWS D1.3.*

26
27 *The welding inspector shall make a systematic record of all*
28 *welds. This record shall include in addition to other required re-*
29 *ords:*

30
31 *1. Identification marks of welders.*
32

33 *2. List of defective welds.*

34
35 *3. Manner of correction of defects.*

36
37 *The welding inspector shall check the material, equipment, de-*
38 *tails of construction and procedure, as well as the welds. The in-*
39 *pector shall also check the ability of the welder. The inspector*
40 *shall verify that the installation procedure for automatic*
41 *end-welded stud shear connectors is in accordance with the re-*
42 *quirements of AWS D1.1, Structural Welding Code - Steel, 1998*
43 *edition, published by the American Welding Society and the ap-*
44 *proved plans and specifications. The inspector shall furnish the*
45 *architect, structural engineer and the enforcement agency with a*
46 *verified report that the welding is proper and has been done in*
47 *conformity with AWS D1.1, Structural Welding Code - Steel, 1998*
48 *edition, published by the American Welding Society, and the ap-*
49 *proved plans and specifications. The inspector shall use all means*
50 *necessary to determine the quality of the weld. The inspector may*
51 *use gamma ray, magnaflux, trepanning, sonics or any other aid to*
52 *visual inspection which the inspector may deem necessary to be*
53 *assured of the adequacy of the welding.*

54
55 **EXCEPTION:** *Plant welding inspection of open-web steel joists*
56 *may be waived with the approval of the enforcement agency where*
57 *welding inspection is provided at the jobsite.*