

Structural Welding Code—Steel

1. General Requirements

1.1 Scope

This code contains the requirements for fabricating and erecting welded steel structures. When this code is stipulated in contract documents, conformance with all provisions of the code shall be required, except for those provisions that the Engineer (see 1.4.1) or contract documents specifically modifies or exempts.

The following is a summary of the code clauses:

1. General Requirements. This clause contains basic information on the scope and limitations of the code, key definitions, and the major responsibilities of the parties involved with steel fabrication.

2. Design of Welded Connections. This clause contains requirements for the design of welded connections composed of tubular, or nontubular, product form members.

3. Prequalification. This clause contains the requirements for exempting a WPS (Welding Procedure Specification) from the WPS qualification requirements of this code.

4. Qualification. This clause contains the requirements for WPS qualification and the qualification tests required to be passed by all welding personnel (welders, welding operators, and tack welders) to perform welding in accordance with this code.

5. Fabrication. This clause contains general fabrication and erection requirements applicable to welded steel structures governed by this code, including the requirements for base metals, welding consumables, welding technique, welded details, material preparation and assembly, workmanship, weld repair, and other requirements.

6. Inspection. This clause contains criteria for the qualifications and responsibilities of inspectors, acceptance criteria for production welds, and standard procedures for performing visual inspection and NDT (nondestructive testing).

7. Stud Welding. This clause contains the requirement for the welding of studs to structural steel.

8. Strengthening and Repair of Existing Structures. This clause contains basic information pertinent to the welded modification or repair of existing steel structures.

1.2 Limitations

The code was specifically developed for welded steel structures that utilize carbon or low alloy steels that are 1/8 in [3 mm] or thicker with a minimum specified yield strength of 100 ksi [690 MPa] or less. The code may be suitable to govern structural fabrications outside the scope of the intended purpose. However, the Engineer should evaluate such suitability, and based upon such evaluations, incorporate into contract documents any necessary changes to code requirements to address the specific requirements of the application that is outside the scope of the code. The Structural Welding Committee encourages the Engineer to consider the applicability of other AWS D1 codes for applications involving aluminum (AWS D1.2), sheet steel equal to or less than 3/16 in thick [5 mm] (AWS D1.3), reinforcing steel (AWS D1.4), and stainless steel (AWS D1.6). The AASHTO/AWS D1.5 *Bridge Welding Code* was specifically developed for welding highway bridge components and is recommended for those applications.

1.3 Definitions

The welding terms used in this code shall be interpreted in conformance with the definitions given in the latest edition of AWS A3.0, *Standard Welding Terms and Definitions*, supplemented by Annex K of this code and the following definitions:

1.3.1 Engineer. "Engineer" shall be defined as a duly designated individual who acts for, and in behalf of, the Owner on all matters within the scope of the code.



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AWS D1. 1 CCRM- 2008, Code Clinic - Structural Welding Code Steel American Welding Society. Education Department,2008-01-01 AWS D1. 1/D1. 1M-2010, Structural Welding Code -- Steel [RUSSIAN EDITION] ,2013-03-21

Structural Welding Code--Steel AWS Structural Welding Committee Staff,1978-11 **Structural Welding Code - Sheet Steel** ,2008 *Structural Welding Code--steel* American Welding Society. Structural Welding Committee,American Welding Society,1994 Structural Welding Code--Steel AWS (American Welding Society),2000 Structural Welding Code-- Steel American Welding Society. Structural Welding Committee,2004 Structural welding code ,1989

ANSI/AWS D1.1-92 : Structural Welding Code : Steel ANSI.,American Society of Mechanical Engineers,1992

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