

Structural Welding Code— Reinforcing Steel

1. General Provisions

1.1 Scope

The code shall apply to the welding of:

- (1) Reinforcing steel to reinforcing steel, and
- (2) Reinforcing steel to carbon or low-alloy structural steel.

When the code is stipulated in contract documents, conformance with all provisions shall be required, except for those provisions that the Engineer or contract documents specifically modifies or exempts.

1.2 Application

1.2.1 This code shall be used in conjunction with the prescribed general building code requirements and is applicable to all welding of reinforcing steel, using the processes listed in 1.4, and performed as a part of reinforced concrete construction.

1.2.2 The weldments specified in this code shall not be used where impact properties are a requirement of the general specification. Impact testing requirements of welded reinforcing bars are not included in this code.

1.2.3 All references to the need for approval shall be interpreted to mean approval by the Engineer.

1.3 Reinforcing Steel Base Metal

1.3.1 Reinforcing steel base metal in this code shall conform to the requirements of the latest edition of one of the ASTM specifications listed within this paragraph. Combinations of any of these reinforcing steel base metals, when welded, shall use a WPS (welding procedure specification) qualified in conformance with Section 6.

- (1) ASTM A 82/A 82M
- (2) ASTM A 496/A 496M
- (3) ASTM A 615/A 615M
- (4) ASTM A 706/A 706M
- (5) ASTM A 767/A 767M
- (6) ASTM A 775/A 775M
- (7) ASTM A 934/A 934M

Manufacturing and testing requirements for mats and fabric are covered by the respective ASTM specification. For joining the ASTM A 82/A 82M and A 496/A 496M to other reinforcing wires, reinforcing bars, or structural steels, the Engineer shall specify filler metal and the provisions of this code shall apply.

1.3.2 When a reinforcing steel not listed in 1.3.1 is approved under the provisions of the general building code or by the Engineer, its chemical composition and carbon equivalent shall be provided and its weldability established by qualification in accordance with the requirements of 6.2 and all other requirements prescribed by the Engineer.

1.3.3 Base metal, other than those previously listed, shall be one of the structural steels listed in the latest edition of AWS D1.1, *Structural Welding Code—Steel*, or any steel stipulated in the contract documents or approved by the Engineer.

1.3.4 The carbon equivalent of reinforcing steel bars shall be calculated as shown in 1.3.4.1 or 1.3.4.2, as applicable.

1.3.4.1 For all steel bars, except those designated as ASTM A 706, the carbon equivalent shall be calculated using the chemical composition, as shown in the mill test report, by the following formula:

$$C.E. = \%C + \%Mn/6 \quad (\text{Eq. 1})$$

1990 Structural Welding Code Steel

**Alan Blanc, Michael McEvoy, Roger
Plank**



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Architecture and Construction in Steel Alan Blanc, Michael McEvoy, Roger Plank, 2003-09-02 This book provides a comprehensive guide to the successful use of steel in building and will form a unique source of inspiration and reference for all those concerned with architecture in steel **Index of Specifications and Standards**, *General Design Standards* United States. Bureau of Reclamation, 1992 **Tubular Structures IX** Puthli, 2001-01-01 A reference for architects and engineers this work covers themes on architecture case studies and the application and strengths of tubular beams

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of Structural Welding J. F. Lancaster, 1997-08-07 This handbook provides a comprehensive analysis of the current state of welding technology as applied to large structures and process plant The author takes account of the increasing necessity for engineers at all levels to be aware of problems such as fatigue failure and provides advice Design of Hydraulic Steel Structures United States. Army. Corps of Engineers, 1997 U S Army Corps of Engineers Technical Engineering and Design Guide No 22 prescribes guidance for designing hydraulic steel structures by load and resistance factor design LRFD and fracture control *Recent Library Additions* ,1992 **Handbook for Blast Resistant Design of Buildings** Donald O. Dusenberry, 2010-01-26 Unique single reference supports functional and cost efficient designs of blast resistant buildings Now there s a single reference to which architects designers and engineers can turn for guidance on all the key elements of the design of blast resistant buildings that satisfy the new ASCE Standard for Blast Protection of Buildings as well as other ASCE ACI and AISC codes The Handbook for Blast Resistant Design of Buildings features contributions from some of the most knowledgeable and experienced consultants and researchers in blast resistant design This handbook is organized into four parts Part 1 Design Considerations sets forth basic principles examining general considerations in the design process risk analysis and reduction criteria for acceptable performance materials performance under the extraordinary blast environment and performance verification for technologies and solution methodologies Part 2 Blast Phenomena and Loading describes the explosion environment loading functions needed for blast response analysis and fragmentation and associated methods for effects analysis Part 3 System Analysis and Design explains the analysis and design considerations for structural building envelope component space site perimeter and building system designs Part 4 Blast Resistant Detailing addresses the use of concrete steel and masonry in new designs as well as retrofitting existing structures As the demand for blast resistant buildings continues to grow readers can turn to the Handbook for Blast Resistant Design of Buildings a unique single source of information to support competent functional and cost efficient designs **Frattura ed Integrità Strutturale: Annals** 2009 Aa.vv., 2010-01-01 Annals of the Italian Group of Fracture journal Frattura ed Integrit Strutturale issues 7 10 2009

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referenced so that the user will be able to locate data on a specific product or compare properties easily The book is designed to complement the existing publications on high performance materials **Handbook of Steel Construction** Canadian Institute of Steel Construction,1992 **Closure Gates** ,1993 *Innovative Bridge Design Handbook* Alessio Pipinato,2021-09-08 Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance Second Edition brings together the essentials of bridge engineering across design assessment research and construction Written by an international group of experts each chapter is divided into two parts the first covers design issues while the second presents current research into the innovative design approaches used across the world This new edition includes new topics such as foot bridges new materials in bridge engineering and soil foundation structure interaction All chapters have been updated to include the latest concepts in design construction and maintenance to reduce project cost increase structural safety and maximize durability Code and standard references have been updated Completely revised and updated with the latest in bridge engineering and design Provides detailed design procedures for specific bridges with solved examples Presents structural analysis including numerical methods FEM dynamics risk and reliability and innovative structural typologies
Federal Register ,1998-02

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