



AWS D1.4 Interpretation

Subject: Filler metal requirements
Code Edition: D1.4-98
Code Provision: Section 5.1
AWS Log: D1.4-98-I1 (INQ-51)

Inquiry: When welding an ASTM A615 Grade 60 rebar or an ASTM A706 Grade 60 rebar to an A36 plate, what GMAW electrode specification must we use?

Response: In accordance with Paragraph 5.1.2, GMAW electrode ER70S-X should be selected from Table 5.1 based on the lower tensile base metal in the joint, the ASTM A36 plate.

AWS D1.4, Structural Welding Code—Reinforcing Steel, is prepared by the AWS Structural Welding Committee. Because the Code is written in the form of a specification, it cannot present background material or discuss the committee's intent.

Since the publication of the first edition of the Code, the nature of inquiries directed to the American Welding Society and the Structural Welding Committee has indicated that there are some requirements in the Code that are either difficult to understand or not sufficiently specific, and other that appear to be overly conservative.

It should be recognized that the fundamental premise of the Code is to provide general stipulations applicable to any situation and to leave sufficient latitude for the exercise of engineering judgment. Another point to be recognized is that the Code represents the collective experience of the committee; and, while some provisions may seem overly conservative, they have been based on sound engineering practice.