

QQ-S-741D  
December 2, 1968  
SUPERSEDING  
Fed. Spec. QQ-S-741C  
March 29, 1967

## FEDERAL SPECIFICATION

### STEEL, CARBON: STRUCTURAL SHAPES; PLATES; AND BARS

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

#### 1. SCOPE

1.1 This specification covers carbon steel shapes, plates, and bars of structural quality.

#### 2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

##### Military Standard:

MIL-STD-163 - Steel Mill Products, Preparation for Shipment and Storage.

(Copies of Military Standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

##### American Society for Testing and Materials (ASTM) Standard:

A36 - Structural Steel.

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pa., 19103.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

#### 3. REQUIREMENTS

3.1 Description. The structural shapes, plates, and bars shall be in accordance with ASTM A36. When specified (see 6.2), copper-bearing steel shall be furnished.

3.2 Dimensions. Dimensions, weights, and cross-sectional designations for the structural shapes, plates, and bars shall be as specified (see 6.2).

3.3 Identification marking. Marking shall be in accordance with ASTM A36.

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#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Classification of inspection. Inspection shall be classified as follows:

- (a) Quality conformance inspection (see 4.3).
- (b) Inspection of preparation for delivery (see 4.5).

#### 4.3 Quality conformance inspection.

4.3.1 Lot. Unless otherwise specified, a lot shall consist of structural shapes, plates, or bars from the same heat or blow submitted for inspection at one time.

#### 4.4 Inspection procedure.

4.4.1 Examination and tests. Examination and tests shall be as specified in ASTM A36. Nonconformance to 3.1 shall constitute failure of the examination and tests.

4.5 Inspection of preparation for delivery. The preservation, packaging, packing, and marking shall be inspected to determine compliance with MIL-STD-163.

#### 5. PREPARATION FOR DELIVERY

5.1 Preservation, packaging, and packing. Preservation, packaging, and packing shall be in accordance with MIL-STD-163, level A or C as specified.

5.2 Marking. In addition to any special marking required in the contract or purchase order, marking for shipment shall be in accordance with MIL-STD-163.

#### 6. NOTES

6.1 Intended use. The structural shapes, plates, and bars are intended for use in riveted, bolted, or welded construction of bridges and buildings and for general structural purposes.

6.2 Ordering data. Purchases should select the preferred options permitted herein and include the following information in procurement documents.

- (a) Title, number, and date of this specification.
- (b) When copper-bearing steel is required (see 3.1).
- (c) Dimensions, weight, and cross-section required (see 3.2).
- (d) Lot if other than as specified (see 4.3.1).
- (e) Level of preservation, packaging, and packing required (see 5.1).

MILITARY INTEREST:

Custodians:

Army - ME

Navy - YD

Air Force - 11

Review activities:

Army - MI, MU, MR, CE

Air Force - 84

User activities:

Army - AT, CE

Navy - SH, MC

Preparing activity:

Army - ME

CIVIL AGENCIES INTEREST:

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Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein. Price 5 cents each.