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No Amendments
SEE REVISED SPECIFICATION N
No. 15—1930.

British Standards Institution
Incorporated by Royal Charter
FORMERLY
British Engineering Standards Association
FORMED IN 1901 AS THE ENGINEERING STANDARDS COMMITTEE.

BRITISH
STANDARD SPECIFICATION
FOR
STRUCTURAL STEEL
FOR
BRIDGES, ETC., AND GENERAL BUILDING CONSTRUCTION.

(REVISED MAY, 1930.)

LONDON:
PUBLISHED BY THE BRITISH STANDARDS INSTITUTION,
PUBLICATIONS DEPARTMENT,
28, VICTORIA STREET, LONDON, S.W. 1.
Telegrams: Standards, Sowest, London.

May, 1930.

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The following Government Departments and Scientific and Industrial Organisations were officially represented upon the Committees entrusted with the preparation of this Specification :—

Admiralty.
War Office.
Air Ministry.
India Office.
H.M. Office of Works.
Home Office.
Ministry of Transport.
Crown Agents for the Colonies.
London County Council.
Railway Companies of Great Britain.
Royal Institute of British Architects.
Institution of Municipal and County Engineers.
Institution of Structural Engineers.
Iron and Steel Trades Employers' Association.
Iron and Steel Wire Manufacturers' Association.
National Association of Iron and Steel Stockholders.
National Federation of Iron and Steel Manufacturers.
Bridge and Constructional Ironwork Association.

This Specification was adopted by the Technical Committee on Bridges and Steel Frame Building Construction in March, 1930, and published by authority of the Council of the Association as a British Standard on 12th May, 1930.

NOTE.

In order to keep abreast of progress in the Industries concerned, the British Standard Specifications are subjected to periodical review.

Suggestions for improvements, addressed to the Director, British Engineering Standards Association, 28, Victoria Street, London, S.W.1, will be welcomed at all times. They will be recorded, and in due course brought to the notice of the Committees charged with the revision of the Specifications to which they refer.

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FOREWORD.

The British Standard Specification for Structural Steel for Bridges and General Building Construction (B.S.S. No. 15) was first issued in 1906 and a revised edition appeared in 1912.

The following are the principal alterations which have been made in the present edition of the Specification:—

- (i) All reference to the Basic Bessemer process is now omitted.
- (ii) Drawn steel wire from 0.5 to 0.125 inches in diameter which has subsequently been suitably heat treated to enable it to conform with the requirements of this Specification is now included. Hard drawn Steel wire for concrete re-inforcement, not so treated, is dealt with under Specification No. 165.
- (iii) A tensile test in addition to a bend test is required for bars for concrete re-inforcement.
- (iv) Temper bend tests are not now specified.
- (v) The radius of the bend in the cold bend test has been made smaller for bars of 1 inch diameter and under.
- (vi) Tolerances on the specified depth of beams and channels have been inserted.

(5)

NOTE.—The Association desires to call attention to the fact that this Specification is intended to include the technical provisions necessary for the supply of the material herein referred to, but does not purport to include all the necessary provisions of a contract.

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(REVISED MAY, 1930.)

The figures in British measures are to be regarded as the Standard. Approximate metric equivalents are given for the convenience of users in countries in which the metric system has been generally adopted.

NOTE.—This Specification shall apply to Drawn Steel Wire from 0.5 to 0.125 inches (12.70 to 3.18 mm.) in diameter which has subsequently been suitably heat treated and when so applied the words "bar" or "bars," where they occur, shall be deemed to include such wire and shall be read as "wire" or "wires," "coil of wire" or "coils of wire" as the context may require.

Process of Manufacture.

1. **A** steel shall be made by the Open Hearth Process (Acid or Basic), unless either process is required or specified, and shall not show on analysis more than 0.06 per cent of Sulphur or of Phosphorus.

B steel may be made either by the Open Hearth Process (Acid or Basic), or by the Acid Bessemer Process, and shall not show on analysis more than 0.08 per cent of Phosphorus, and not more than 0.06 per cent of Sulphur.

NOTE.—**B** steel is not intended for Bridges, Plates $\frac{1}{4}$ inch in thickness and over, Rivet Bars, or for Heat Treated Wire.

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