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BRITISH STANDARD 4449 : 1969

SPECIFICATION FOR
HOT ROLLED STEEL BARS
FOR THE REINFORCEMENT
OF CONCRETE

BRITISH STANDARDS INSTITUTION
Gr 4

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HOT ROLLED STEEL BARS
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BS 4449 : 1969

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UDC 666.982.2 : 669.14-422

This British Standard, having been approved by the Iron and Steel Industry Standards Committee, was published under the authority of the Executive Board on 25 April, 1969.

SBN: 580 05408 X

The Institution desires to call attention to the fact that this British Standard does not purport to include all the necessary provisions of a contract.

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 6000, fully indexed and with a note of the contents of each, will be found in the British Standards Yearbook. The B.S. Yearbook may be consulted in many public libraries and similar institutions.

This standard makes reference to the following British Standards:

BS 18. Methods for tensile testing of metals.

BS 1121. Methods for the analysis of iron and steel.

Part 1. Sulphur in iron and steel; Gravimetric.

Part 11. Carbon (total, graphitic and combined) in iron, steel and ferro-chromium; Gravimetric.

Part 45. Phosphorus in iron and steel; Photometric.

BS 1837. Methods for the sampling of iron, steel, permanent magnet alloys and ferro-alloys.

CP 114. Structural use of reinforced concrete in buildings.

British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.

The following BSI references relate to the work on this standard:
Committee reference ISE/9/-/1 Draft for comment 68/20164

CO-OPERATING ORGANIZATIONS

The Iron and Steel Industry Standards Committee under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Alloy Steels Association
 - Board of Trade
 - British Cast Iron Research Association
 - British Constructional Steelwork Association
 - British Electrical and Allied Manufacturers' Association
 - British Ironfounders Association
 - British Mechanical Engineering Federation
 - British Railways Board
 - British Steel Castings Research Association
 - British Steel Industry
 - Council of Iron Producers
 - Council of Ironfoundry Associations
 - Crown Agents for Oversea Governments and Administrations
 - Department of Employment and Productivity (H.M. Factory Inspectorate)
 - Engineering Equipment Users Associations
 - Federation of Civil Engineering Contractors
 - Institute of British Foundrymen
 - Institute of Iron and Steel Wire Manufacturers
 - Institute of Marine Engineers
 - Institution of Civil Engineers
 - Institution of Mechanical Engineers (Automobile Division)
 - Institution of Production Engineers
 - Institution of Structural Engineers
 - Iron and Steel Institute
 - Joint Iron Council
 - Lloyds Register of Shipping
 - Ministry of Defence—Army Department
 - Ministry of Defence—Navy Department
 - National Association of Drop Forgers and Stampers
 - National Physical Laboratory—Ministry of Technology
 - Oil Companies Materials Association
 - Royal Institute of British Architects
 - Shipbuilders and Repairers National Federation
 - Society of British Aerospace Companies Limited
 - Society of Motor Manufacturers and Traders Limited
 - Stainless Steel Development Association.
- The Government department and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this British Standard:
- Cement and Concrete Association
 - Federation of Associations of Specialists and Sub-Contractors
 - Institute of Iron and Steel Wire Manufacturers
 - Institution of Municipal Engineers
 - Greater London Council
 - Ministry of Transport
 - Ministry of Public Building and Works—Building Research Station
 - Ministry of Public Building and Works
 - National Federation of Building Trades Employers
 - Concrete Reinforcement Steel Association
 - Concrete Society Limited
 - Reinforcement Manufacturers Association
 - Welding Institute