bsi.

...making excellence a habit.™

Please be aware that this PDF has been created from the original hardcopy document, which might not be in good condition and so the PDF might reflect this.

BSI Group
389 Chiswick High Road
London, W4 4AL
United Kingdom

T: +44 20 845 086 9001
F: +44 20 8996 7400
cservices@bsigroup.com
bsigroup.com

British Standards Limited
Registered in England no: 07864997
Registered address: 389 Chiswick High Road
London, W4 4AL, United Kingdom

AVA Documents
INVESTORS IN PEOPLE
Document Sharing Hub

Full document details: BS 1449-3B:1964

S/S by Pt. L 1972 © AVA

BRITISH STANDARD 1449 : Part 3B : 1964

UDC 669.14-41

SPECIFICATION FOR STEEL PLATE SHEET & STRIP

Part 3B. Cold rolled mild and carbon steel strip

BRITISH STANDARDS INSTITUTION

AVA Documents
Document Sharing Hub

SPECIFICATION FOR

STEEL PLATE, SHEET & STRIP

Part 3B. Cold rolled mild and carbon steel strip

B.S. 1449 : Part 3B : 1964

Price 10/- net

BRITISH STANDARDS INSTITUTION

INCORPORATED BY ROYAL CHARTER

BRITISH STANDARDS HOUSE, 2 PARK ST., LONDON, W.1

TELEGRAMS: STANDARDS AUDLEY LONDON TELEPHONE: MAYFAIR 9000

Full document details: BS 1449-3B:1964

Documents

Document Sharing Hub

THIS BRITISH STANDARD, having been approved by the Iron and Steel Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 28th February, 1964.

First published, August 1948.
First revision, January, 1956.
Second revision, February, 1964.

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 4000, indexed and cross-indexed for reference, together with an abstract of each standard, will be found in the Institution's Yearbook, price 15s.

This standard makes reference to the following British Standards:

B.S. 18. Tensile testing of metals.
B.S. 240. Method for Brinell hardness test. Part 1. Testing of metals.
B.S. 427. Vickers hardness test. Part 1. Testing of metals.
B.S. 891. Method for Rockwell hardness test. Part 1. Testing of metals.

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 B.S.I. references relate to the work on this standard:
Committee reference ISE/10 and ISE/10/4
Draft for comment D63/2415.

CONTENTS

	Page
Co-operating organizations	4
Foreword	5
SPECIFICATION	
SECTION ONE : GENERAL REQUIREMENTS	
1. Scope	6
2. General	6
3. Recommended uses of material	6
4. Steelmaking process	6
5. Tempers	6
6. Surface finishes	7
7. Edges	7
8. Cut lengths	8
9. Freedom from defects	8
10. Chemical composition	8
11. Testing	8
12. Number of tests	10
13. Retests	10
14. Inspection	10
15. Testing facilities	10
16. Tolerances—general	11
17. Tolerances on dimensions	11
SECTION TWO : SPECIFIC REQUIREMENTS	
18. Mild steel up to and including 0·25 per cent carbon	17
19. Medium carbon steels	20
20. High carbon steels	21
APPENDICES	
A. Dimensions of rectangular section test piece	23
B. Weight per linear foot of steel strip	24

AVA Documents
Document Sharing Hub

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:

Admiralty
*Alloy Steels Association
British Bolt, Nut, Screw and Rivet Federation
British Cast Iron Research Association
British Constructional Steelwork Association
British Electrical and Allied Manufacturer's Association
*British Iron & Steel Federation
British Ironfounders' Association
British Mechanical Engineering Federation
*British Railways Board
British Steel Castings Research Association
Council of Ironfoundry Associations
Council of Iron Producers
Crown Agents for Oversea Governments and Administrations
Engineering Equipment Users' Association
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 Structural Engineers
Iron and Steel Board
Iron and Steel Institute
Joint Iron Council
Lloyd's Register of Shipping
Ministry of Aviation
Ministry of Labour (H.M. Factory Inspectorate)
Ministry of Transport
National Association of Drop Forgers and Stampers
National Ironfounding Employers' Federation
National Physical Laboratory (D.S.I.R.)
Oil Companies Materials Association
Royal Institute of British Architects
Shipbuilding Employers' Federation
Society of British Aircraft Constructors
*Society of Motor Manufacturers and Traders Ltd.
*War Office

The Government departments 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:

Bright Bolt and Nut Manufacturers' Association
Cold Rolled Sections Association
Federation of Manufacturers of Construction Equipment
Institute of Sheet Metal Engineering
Institution of Engineering Inspection
Institution of Production Engineers
London Transport Board
Ministry of Public Building and Works
Stainless Steel Fabricators Association of Great Britain

BRITISH STANDARD SPECIFICATION FOR

STEEL PLATE, SHEET AND STRIP

Part 3B. Cold rolled mild and carbon steel strip

FOREWORD

This revised British Standard has been prepared under the authority of the Iron and Steel Industry Standards Committee.

Previous editions of this standard have been issued as one comprehensive document covering all forms of material including stainless and heat resisting steels, and all methods of production.

To provide for changes in the methods of production and to introduce more detailed information, particularly concerning methods of manufacture and the tolerances to be expected from each of the types of plate sheet and strip in common production, it has been decided to issue this revision in the following separate parts:

Part 1A. Carbon steel plate and coil rolled by the continuous process.
Part 1B. Carbon steel sheet and coil rolled by the continuous process.
Part 2A. Carbon steel plate rolled by the non-continuous process.
Part 2B. Carbon steel sheet rolled by the non-continuous process.
Part 3A. Hot-rolled mild and carbon steel strip.
Part 3B. Cold-rolled mild and carbon steel strip.
Part 4. Stainless and heat-resisting plate, sheet and strip.

Cold rolled strip is required in a variety of chemical compositions and with a view to quicker reference and greater detailing of requirements this part of B.S. 1449 has been divided into two sections namely:

Section One: General requirements.

Section Two: Specific requirements, covering

a. Mild steels, (i.e. steels containing not more than 0·25 per cent carbon).

b. Medium carbon steels, (i.e. steels containing over 0·25 per cent up to and including 0·45 per cent carbon).

c. High carbon steels. (i.e. steels containing over 0·45 per cent carbon).

This standard does not cover Tensional Steel Strapping, for which see B.S. . . . . (in course of preparation).

NOTE 1. Where metric equivalents are stated the figures in British units are to be regarded as the standard. The metric conversions are approximate. More accurate conversions should be based on the Tables in B.S. 350 ' Conversion factors and tables '.

NOTE 2. In place of the customary, but incorrect use of the ton and kilogramme as units of force, the units called ton-force (abbreviation tonf) and kilogramme-force (abbreviation kgf) have been used in this standard. These are the forces which, when acting on a body of mass one ton or one kilogramme respectively, give it an acceleration equal to that of standard gravity.

AVA Documents
Document Sharing Hub