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BRITISH STANDARD 497: 1945

Cast
Manhole Covers
Road Gully Gratings
and Frames



BRITISH STANDARDS INSTITUTION

BRITISH STANDARD SPECIFICATION

CAST
MANHOLE COVERS
ROAD GULLY GRATINGS
AND FRAMES

B.S. 497 : 1945

Price 3s. 6d., post free

BRITISH STANDARDS INSTITUTION

Incorporated by Royal Charter

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THIS BRITISH STANDARD, having been approved by the Ironmongery and Sanitary Fittings Industry Committee, and endorsed by the chairman of the Building Divisional Council, was published under the authority of the General Council on 17th December, 1945.

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 improvement 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.

This British Standard requires reference to the following :

B.S. 51. Wrought iron for general engineering purposes.
B.S. 592. Carbon steel castings for general engineering purposes.

A complete list of British Standards, numbering over one thousand, indexed and cross-indexed for reference, together with an abstract of each standard, will be found in the Institution's Yearbook, price 2s. 0d. post free.

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

Users wishing to be kept informed of any alteration to this standard should notify Publications Sales Department of the Institution, giving the number and title of the standard.

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CO-OPERATING ORGANISATIONS

The Ironmongery and Sanitary Fittings Industry Committee, under whose supervision this British Standard was prepared, consists of representatives of the following government departments and scientific and industrial organisations:

- Ministry of Health
- *Ministry of Works
- *Department of Scientific and Industrial Research
- *British Ironfounders' Association
- British Plastic Hardware Association
- British Plastics Federation
- Cast Butt Hinge Manufacturers' Association
- *Distributors of Builders' Supplies Joint Council
- *Institution of Municipal and County Engineers
- *London County Council
- Midland Lock and Latch Manufacturers' Association
- National Brassfoundry Association
- National Federation of Building Trades Employers
- National Federation of Ironmongers

The government departments and scientific and industrial organisations marked with an asterisk in the above list, together with the following, were directly represented on the committee entrusted with the preparation of this standard:

- Crown Agents for the Colonies
- Ministry of War Transport
- Post Office Engineering Department
- British Cast Concrete Federation
- British Valve Manufacturers' Association
- British Waterworks Association
- Incorporated Association of Electric Power Companies
- Incorporated Municipal Electrical Association
- Institution of Gas Engineers
- Institution of Sanitary Engineers
- Institution of Water Engineers
- Midland Ironfounders' Association
- Society of British Gas Industries
- Manufacturers of Cast Manhole Covers, Road Gully Gratings and Frames

BRITISH STANDARD SPECIFICATION FOR CAST MANHOLE COVERS ROAD GULLY GRATINGS AND FRAMES FOR DRAINAGE PURPOSES.

FOREWORD

This revised and enlarged specification was prepared primarily for use in connection with the programme of post-war building. In deciding upon the patterns to be included the committee was, therefore, guided by the need to facilitate mass production. At the same time, it was felt that the quality of the articles covered should be controlled by means of an adequate testing procedure in view of the importance of protecting against accidents to vehicular traffic, and other road users. Attention was also directed to the need to limit, as far as possible, the troubles experienced in the past due to rocking.

With the co-operation of the manufacturers represented it has been possible to include a range of non-rock covers for heavy duty applications, and similar covers for medium duty. In doing this the '3-point' system of support has been adopted and the circular type of cover has been omitted so far as heavy duty applications are concerned. It is appreciated that initially the circular cover may provide non-rock features but, as the result of wear, it cannot be guaranteed that this condition will apply for any length of time. Nevertheless, the circular type of cover has been included in the medium duty section as it is felt that the conditions are such as to render its use less open to the introduction of difficulty in such situations. It is pointed out that although the circular cover and frame has been omitted from the heavy duty section the double triangular patterns included are provided with a circular opening under a square cover.

The testing procedure requires a proving test on every cover and grating: this course has been adopted, rather than the inclusion of a type test, because of the unavoidable variations in castings which would not necessarily be revealed by such a test. It is considered that once the arrangements for carrying out the proving tests are made, there will be very little increase in production time.

PART ONE : GENERAL REQUIREMENTS

SCOPE

1. This British Standard provides for manhole covers and frames of the grades and types given in Part Two and for road gully gratings, covers and frames of the grades and types given in Part Three, all of which shall comply in every respect with the requirements laid down herein.