

AS 3996—1992

Australian Standard[®]

**Metal access covers, road grates
and frames**

This Australian Standard was prepared by Committee CE/29, Access Covers and Road Grates. It was approved on behalf of the Council of Standards Australia on 25 November 1991 and published on 16 March 1992.

The following interests are represented on Committee CE/29:

Association of Consulting Engineers, Australia
Australian Foundry Institute
Australian Local Government Engineers Association
Australian Precast Concrete Manufacturers Association
AUSTROADS
Board of Works, Melbourne
Confederation of Australian Industry
Metal Trades Industry Association of Australia
Water Authority of Western Australia
Water Board, Sydney—Illawarra—Blue Mountains

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PREFACE

This Standard was prepared by the Standards Australia Committee on Access Covers and Road Grates. Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard

Metal access covers, road grates and frames

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out the requirements for access covers, inspection covers, road grates, and frames which are intended for use in drainage structures for the conveyance of sewage and stormwater, and for utilities.

It applies to components manufactured from iron castings and fabricated mild steel.

This Standard excludes inspection covers and grates with clear openings of less than 450 mm × 450 mm or 450 mm diameter, or greater than 1.3 m × 1.3 m or 1.3 m diameter.

NOTES:

- 1 Guidelines to purchasers on information needing to be supplied at the time of calling for tenders or quotations are detailed in Appendix A.
- 2 Alternative means for determining compliance with this Standard are given in Appendix B.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

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| 1111 | ISO metric hexagon commercial bolts and screws |
| 1112 | ISO metric hexagon nuts, including thin nuts, slotted nuts and castle nuts |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1275 | Metric screw threads for fasteners |
| 1379 | Ready-mixed concrete |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1554 | Structural steel welding |
| 1554.1 | Part 1: Welding of steel structures |
| 1627 | Metal finishing—Preparation and pretreatment of surfaces |
| 1627.4 | Part 4: Abrasive blast cleaning |
| 1627.5 | Part 5: Pickling steel surfaces |
| 1650 | Hot-dipped galvanized coatings on ferrous articles |
| 1830 | Iron castings—Grey cast iron |
| 1831 | Iron castings—Spheroidal or nodular graphite cast iron |
| 2193 | Methods for calibration and grading of force-measuring systems of testing machines |
| 2837 | Wrought alloy steels—Stainless steel bars and semi-finished products |
| 3678 | Hot-rolled structural steel plates, floorplates and slabs |
| 3679 | Structural steel |
| 3679.1 | Part 1: Hot-rolled bars and sections |
| 3900 | Quality systems—Guide to selection and use |
| 3904 | Quality management and quality system elements |

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| HB18 | Guidelines for third-party certification and accreditation |
| HB18.44 | Guide 44—General rules for ISO or IEC international third-party certification schemes for products |

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| 3416 | Specification for bitumen-based coatings for cold application, suitable for use in contact with potable water |
| 4147 | Specification for bitumen-based hot-applied coating materials for protecting iron and steel, including suitable primers where required |

AUSTROADS Bridge design specification

1.3 USE OF ALTERNATIVE MATERIALS

1.3.1 General Provided that the requirements of Clause 2.7 and Sections 3 and 4 are met, this Standard shall not be interpreted so as to prevent the use of materials or methods of manufacture not specifically referred to herein.

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