



## Access covers and grates



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This Australian Standard® was prepared by Committee CE-029, Access Covers and Grates. It was approved on behalf of the Council of Standards Australia on 27 February 2019. This Standard was published on 22 March 2019.

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  - Grates and access Covers Alliance
  - Institute of Public Works Engineering Australasia
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This Standard was issued in draft form for comment as DH2 AS 3996:2018.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard<sup>®</sup>

**Access covers and grates**

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## PREFACE

This Standard was prepared by the Standards Australia Committee CE-029, Access Covers and Grates, to supersede AS 3996—2006.

The objective of this Standard is to provide designers, manufacturers and purchasers of access covers and grates with a specification for design, supply and testing.

This revision has been made to improve performance of trafficable covers and grates, to provide a method of testing uplift and to include specific requirements for composite materials.

The terms 'normative' and 'informative' are used in Standards to define the application of the appendices to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

## CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	4
1.2 PRODUCT CONFORMITY .....	4
1.3 NORMATIVE REFERENCES .....	4
1.4 DEFINITIONS.....	6
1.5 CLASSIFICATION TERMINOLOGY .....	8
1.6 PERMANENT MARKING.....	9
SECTION 2 MATERIAL REQUIREMENTS	
2.1 GENERAL.....	10
2.2 CAST IRON .....	10
2.3 FABRICATED MILD STEEL.....	10
2.4 STAINLESS STEEL.....	10
2.5 ALUMINIUM.....	11
2.6 CONCRETE FOR INFILLS .....	11
2.7 PRECAST CONCRETE .....	11
2.8 BOLTS .....	11
2.9 PROTECTIVE COATINGS .....	12
2.10 POLYMERIC MATERIALS .....	12
SECTION 3 DESIGN REQUIREMENTS	
3.1 LOAD CLASSIFICATION .....	13
3.2 DESIGN FEATURES.....	15
3.3 DIMENSIONS.....	18
SECTION 4 PERFORMANCE REQUIREMENTS	
4.1 GENERAL.....	20
4.2 TESTING.....	20
SECTION 5 INSTALLATION.....	24
APPENDICES	
A DEMONSTRATING CONFORMANCE WITH THIS STANDARD.....	25
B PURCHASING GUIDELINES.....	28
C LOAD TESTS FOR COVERS AND GRATES .....	30
D BICYCLE TYRE PENETRATION RESISTANCE TEST FOR COVERS AND GRATES .....	34
E METHOD OF TESTING COVERS FOR WATERTIGHTNESS .....	38
F METHOD OF TESTING COVERS FOR GAS-TIGHTNESS .....	40
G ELEVATED TEMPERATURE TEST .....	42
H CREEP TEST .....	44
I IMPACT RESISTANCE TEST .....	45
J INVERTED PULL-OUT TEST .....	47
BIBLIOGRAPHY.....	49

## STANDARDS AUSTRALIA

**Australian Standard**  
**Access covers and grates**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for access covers and grates for use in vehicular and pedestrian areas. It applies to single or multi-part access covers and grates, where any single cover does not exceed 1300 mm clear opening. This Standard covers products manufactured from grey and ductile iron, cast and manufactured steel, aluminium, concrete, and polymeric materials.

This Standard does not consider fire resistance.

The basis for the requirements specified in this Standard is a minimum service life of 25 years for covers and grates made from polymeric materials and 50 years for covers and grates made from all other materials.

This Standard does not apply to the following:

- (a) Covers and grates in Classes E, F and G made from polymeric materials.
- (b) Covers/grates with any wooden structural component.
- (c) Covers and grates of Class D, E, F and G made from grey cast iron.
- (d) In-situ structural infill covers.
- (e) The hydraulic design of access covers and grates.
- (f) Multi-part units that require fittings such as removable beams.
- (g) Applications with heavy point design loads greater than those specified are not covered in this Standard.

NOTE: Guidance on the information to be provided by the purchaser is provided in Appendix B.

**1.2 PRODUCT CONFORMITY**

Means for demonstrating conformance with this Standard shall be as specified in Appendix A.

**1.3 NORMATIVE REFERENCES**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE: Documents for informative purposes are listed in the Bibliography.

AS	
1110	ISO metric hexagon bolts and screws—Product grades A and B
1110.1	Part 1: Bolts
1112	ISO metric hexagon nuts
1112.1	Part 1: Style 1—Product grades A and B
1379	Specification and supply of concrete