AS 3996:2019

Australian STANDARD

Access covers and grates

STANDARDS Australia

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- Australian Chamber of Commerce and Industry
- Australian Foundry Institute
- Australian Industry Group
- Australian Institute of Building Surveyors
- Austroads
- Central Queensland University
- Chemistry Australia
- Composites Australia
- Engineers Australia
- Grates and access Covers Alliance
- Institute of Public Works Engineering Australasia
- Water Services Association of Australia

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Australian Standard®

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.

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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	