

Building Code of Australia
primary referenced Standard

Australian Standard™

**Windows in buildings—
Selection and installation**



S t a n d a r d s Australia

This Australian Standard was prepared by Committee BD/21, Windows. It was approved on behalf of the Council of Standards Australia on 30 April 1999 and published on 5 June 1999.

The following interests are represented on Committee BD/21:

Architectural Aluminium Fabricators Association
Australian Aluminium Council
Australian Building Codes Board
Construction Industry Engineering Services Group
CSIRO Building, Construction and Engineering
Flat Glass and Aluminium Association of Queensland
Flat Glass Council of Australia
Housing Industry Association
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Residential Window Association
University of New South Wales

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD/21, Windows, to supersede, AS 2047.1—1996, *Windows in buildings, Part 1: Specification for materials and performance* and AS 2047.2—1996, *Windows in buildings—Part 2: Construction, installation and maintenance*. After allowing sufficient time for adjustment (nominally 12 months from publication), the superseded documents will be withdrawn.

This Standard incorporates Amendment No. 1 (January 2001) and Amendment No. 2 (June 2001). The changes arising from the Amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure, or part thereof affected.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this Standard is to provide window designers and manufacturers with a generic window code, setting out the performance requirements and specifications in the design and manufacture of all windows, regardless of materials.

This Standard has been revised to make it suitable for reference in the Building Code of Australia (BCA) as a Standard for regulatory reference.

The window rating system is a simplified system and windows specifically designed for corners have been omitted (see Appendix A).

The effects of atmospheric environments (corrosion and weathering) on materials used in window assemblies is currently being considered by the Committee members for improvement and inclusion in the next revision.

In this Standard, statements expressed in mandatory terms in notes to tables are deemed to be an integral part of the Standard.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements, materials, construction, installation and glazing for—

- (a) windows;
- (b) sliding glazed doors;
- A1 (c) adjustable louvres;
- (d) shopfronts; and
- (e) window walls with one-piece framing elements.

NOTE: Window walls do not include curtain walls using stacked or vertically spliced framing systems, manufactured from any material and installed in external walls of all classes of buildings.

Throughout this standard the term ‘window(s)’ means window of any type, including louvre(s) and sliding door(s).

NOTES:

- 1 The window ratings, or classifications, differ from previous glass and window Standards due to the more accurate evaluation of the effect of wind conditions. They are based on either AS 1170.2, or the specific wind loading code developed for housing, i.e. AS 4055.
- 2 See Appendix A for information on wind loads applicable to windows covered by this Standard.
- 3 See Appendix B for alternative means of demonstrating compliance with this Standard.
- 4 Prefabricated bay windows that incorporate sloped glass are classified as windows in external walls.
- 5 Refer to AS/NZS 4284 for performance specification of building facade. Conformance to the requirements of AS/NZS 4284 will be deemed to satisfy the requirements of this Standard. However, sliding window sashes or doors will require the operating force test in accordance with AS 4420.3.
- A1, A2 6 The following are not covered by this Standard:
 - (a) Hinged doors, including French and bi-fold doors.
 - (b) Revolving glazed doors.
 - Fixed louvres.
 - (c) Skylights and roof lights and windows in other than the vertical plane.
 - (d) Windows in greenhouses and agricultural buildings.
 - (e) Sliding doors without frames such as internal doors and shopfront doors.
 - (f) Windows constructed on site and architectural one-off windows, which are not design tested.
 - (g) Second-hand windows, re-used windows, replacement windows, or recycled windows.
 - (h) Heritage windows, for heritage buildings as defined by the relevant State or Territory authority.