

AS 5039.2:2024



STANDARDS
Australia



Security door and window screens

Part 2: Installation



AS 5039.2:2024

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- Australian Aluminium Council
- Australian Glass and Window Association — Windows
- Australian Security Industry Association
- Curtin University
- James Cook University
- Master Locksmiths Association of Australasia
- National Association of Testing Authorities Australia
- National Security Screen Association

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Preface

This Standard was prepared by the Standards Australia Committee CS-023, Security Screen Doors and Window Screens to supersede AS 5040:2003, *Installation of security screen doors and window grilles*.

The objective of this document is to specify requirements for the installation of security door and window screens, including hinged, sliding, folding, removable and fixed, that are used in Class 1 to Class 10 buildings.

This document is intended to be read in conjunction with AS 5039.1 and AS 5039.3. This document forms part of the AS 5039 series on security door and window screens. A list of all parts in this series can be found in the Standards Australia online catalogue.

The major changes in this edition are as follows:

- (a) Updated to align with the revision of other documents in the AS 5039 series.
- (b) Addition of new requirements for water penetration and drainage.
- (c) Addition of new requirements for performance.
- (d) Updated to reflect the introduction of SL100 and SL200 product categories.

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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Introduction

Door and window insect screens are a common feature of construction in most parts of Australia, allowing for free circulation of air in hot weather and often excluding insects from the premises; however, insect screens offer little security and are easily broken through. The development of the concept of security doors and window screens, being strong enough to withstand most attempts at forced entry while retaining the advantages of an insect door and window screen has led to a rapid rise in the number of these security doors and window screens being sold and installed.

In setting performance requirements for security doors and window screens, this document acknowledges that such security doors and window screens are not intruder-proof. They are intended primarily to provide a degree of security for residents of occupied premises, and their effectiveness should be considered in relation to their intended usage.

The use of unsuitable fastenings or the installation of a security door or window screen into a weak door or window frame can seriously undermine the ability of a security door or window screen to resist the intentions of an intruder.

Security doors and window screens are currently sold as separate products and are not supplied as part of a door and window suite. Hence, they are fitted to existing exterior door and window frames either as they stand or with the use of proprietary fittings, such as adaptors, frame strengthening members, tamper-resistant fasteners, security hardware and the like. Accordingly, the installer has an obligation to assess the strength and suitability of the existing door or window frame in addition to correctly installing the security door or window screen. Once installed, all these parts need to perform together as a system.

Security depends on the strength and adequacy of —

- (a) the security door and window screen;
- (b) any adaptors, frame strengthening members and the method of fixing;
- (c) locking and operating hardware; and
- (d) the structure and strength of the door and window frame.

Particular attention should be paid to the installation of security screen doors to door frames and security window screens to window frames that have not been designed to accept security door and window screens.

Consideration should also be given to occupant safety in the event of a fire or other emergency when selecting and installing security window screens

Australian Standard®

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Part 2: Installation

Section 1 Scope and general

1.1 Scope

This document specifies requirements for the installation of security door and window screens, including hinged, sliding, folding, removable and fixed, that are used in Class 1 to Class 10 buildings. It is concerned primarily with resistance to forced entry.

NOTE 1 Building types are classified in the National Construction Code (NCC).

NOTE 2 Screens not meeting the performance requirements of this document are considered non-security screens.

1.2 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 referenced for informative purposes are listed in the Bibliography.

AS 1926.1, *Swimming pool safety, Part 1: Safety barriers for swimming pools*

AS 5039.1, *Security door and window screens, Part 1: Classification and performance*

AS 5039.3, *Security door and window screens, Part 3: Methods of test*

1.3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

1.4.1

adaptor frame

build-out frame

section that can be fastened into the body of a door or window frame, or a door or window opening, providing a frame for a security window screen to be installed clear of any window furniture, which would otherwise prevent a security window screen being fitted

1.4.2

closing jamb

vertical side member on the locking side of the door

1.4.3

competent person

person who has acquired, through education, training, qualification or experience or a combination of these, the knowledge and skill enabling that person to perform the task required

1.4.4

door frame

frame that surrounds and supports a hinged or sliding door

Note 1 to entry: The frame is not necessarily the same thickness as the wall.

Note 2 to entry: The frame primarily consists of two jambs, a head and a threshold or a sill.

1.4.5**face fitting**

fitting of a security door or window screen to the edge of a frame or the face of an architrave, with or without a rebate, formed by a planted stop on the edge or face

1.4.6**framing section**

structural member that forms the perimeter of the security door and window screen and supports the infill panel

1.4.7**head**

upper horizontal member of a door or window frame

1.4.8**infill material**

material that provides a physical barrier and allows the passage of light and air

1.4.9**installer**

competent person or organization responsible for the installation, or supply and installation of a security door or window screen

Note 1 to entry: In the case of “do-it-yourself” installations, the householder may be the installer.

1.4.10**interlock**

device that secures the stile of the non-locking edge of a sliding security door or window screen

1.4.11**jamb**

vertical side members of a doorframe or window frame

1.4.12**jamb adaptor****build-out frame**

formed section that can be fastened into the body of a door jamb, providing a rebate for a security door to be installed clear of any main door furniture, which would otherwise prevent a security door being fitted in the jamb

Note 1 to entry: For an example of a jamb adaptor, see [Figure 2.1](#).

1.4.13**may**

indicates the existence of an option

1.4.14**mullion**

vertical frame section of a window frame that divides glazing panels

1.4.15**security screen door**

door that combines a *framing section* ([1.4.5](#)) and *infill material* ([1.4.7](#)) conforming to AS 5039.1

1.4.16**security window screen**

window that combines a *framing section* ([1.4.5](#)) and *infill material* ([1.4.7](#)) conforming to AS 5039.1

1.4.17**shall**

indicates that a statement is mandatory