

Australian Standard™

**Building elements—Testing and rating  
for intruder resistance**

**Part 1: Intruder-resistant panels**

This Australian Standard was prepared by Committee MS-047, Intruder Resistance. It was approved on behalf of the Council of Standards Australia on 13 December 2002 and published on 14 February 2003.

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## PREFACE

This Standard was prepared by the Standards Australia Committee MS-047, Intruder Resistance Building Panels, following a request from the Department of Housing and Construction on behalf of the interdepartmental Security Hardware and Construction Working Committee, to supersede AS 3555—1988, *Building elements—Testing and rating for intruder resistance*.

The objective of this Standard is to provide a method for testing and rating the resistance of an element of a building to forcible attack.

The method described is a destructive test using personnel and equipment to simulate an actual attack. It relies heavily on the competence and experience of the personnel in performing such an attack. The ratings determined may not necessarily be reproducible and should, therefore, be considered as comparative rather than as an absolute indication of the minimum time to breach the building element.

The selection of tools to be used for the simulated attack are based on an attack that can be carried out without regard to noise, smoke, vibration, etc., generated during the attack.

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## STANDARDS AUSTRALIA

## Australian Standard

## Building elements—Testing and rating for intruder resistance

## Part 1: Intruder-resistant panels

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out a method for assessing the resistance of a building element to forcible attack.

The resistance to attack is assessed by categorizing the type of attack and rating the time taken to breach the building element.

NOTE: Resistance to attack by firearms is specified in AS 2343.

**1.2 APPLICATION**

This Standard is intended for use in the determination of the level of resistance to forcible attack afforded by various elements of construction used in domestic dwellings, commercial premises, public buildings, institutions, and other types of buildings that may be at risk of forcible attack.

**1.3 REFERENCED DOCUMENTS**

The following document is referred to in this Standard:

AS

2343 Bullet-resistant panels and elements

**1.4 DEFINITIONS**

For the purpose of this Standard, the definitions below apply.

**1.4.1 Building element**

An area of the walls, floors, ceilings or roof of a building, which may include doors, windows, skylights, vents or other features.

**1.4.2 Common hand tools**

Chisels, punches, wedges, screwdrivers, pliers, bolt cutters, hammers, axes, sledges, pry bars and ripping tools, none of which exceeds 1.5 m in length, nor 3.6 kg in mass.

**1.4.3 Power tools**

Portable impact hammers and hammer drills not exceeding 25 mm (nominal) chuck size, portable power saws and abrasive disc tools not exceeding 200 mm (nominal) diameter, and chainsaws and sabre saws.

**1.4.4 Hydraulic tools**

Portable hydraulic jacks, wedges and similar pressure-applying tools not exceeding 2.5 tonnes of applied force.

**1.4.5 Cutting torch**

Oxygen-gas cutting equipment.