

AS 4687.1:2022



STANDARDS
Australia



Temporary fencing and hoardings

Part 1: General requirements

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AS 4687.1:2022

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- Australasian Wind Engineering Society
- Australasian Wire Industry Association
- Australian Industry Group
- Australian Institute of Health and Safety
- Australian Security Industry Association
- Bureau of Steel Manufacturers of Australia
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- Galvanizers Association of Australia
- Hire and Rental Industry Association of Australia
- National Association of Testing Authorities Australia
- Swimming Pool and Spa Association of Australia
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Temporary fencing and hoardings

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Preface

This Standard was prepared by the Standards Australia Committee CE-008, Chainlink Fabric Security Fences and Gates, to supersede AS 4687:2007, *Temporary fencing and hoardings*.

The objective of this document is to specify requirements for the design, installation, testing and storage of temporary —

- (a) fencing;
- (b) pedestrian barriers;
- (c) hoarding; and
- (d) pool fencing.

These are collectively referred to as temporary barriers and are intended to limit unauthorized access to restricted areas.

This document also provides alternative ways to achieve conformance, either through design or physical testing.

This revision was initiated following a coronial inquiry, with the goal of creating harmonization across a range of jurisdictions.

The major changes in this edition are as follows:

- (i) Additional guidance has been provided for determination of wind actions.
- (ii) The test methods set out in AS 4687:2007 have been elaborated upon.
- (iii) Where the previous edition was a performance testing standard, this revision provides alternative ways to achieve conformance, adding a design analysis approach.
- (iv) Division of the previous edition of the document into a series of four parts, comprising the following:
 - (A) AS 4687.1: *Temporary fencing and hoardings, Part 1: General requirements*.
 - (B) AS 4687.2: *Temporary fencing and hoardings, Part 2: Temporary fencing and temporary pedestrian barriers*.
 - (C) AS 4687.3: *Temporary fencing and hoardings, Part 3: Temporary hoardings*.
 - (D) AS 4687.4: *Temporary fencing and hoardings, Part 4: Temporary swimming pool fences*.

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

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope	1
1.2 Normative references	1
1.3 Terms and definitions	2
Section 2 General requirements	5
2.1 Pathways to conformance	5
2.2 Re-usability	5
Section 3 Design actions	6
3.1 General	6
3.2 Permanent actions	6
3.3 Imposed actions	6
3.3.1 General	6
3.3.2 Temporary fencing	6
3.3.3 Temporary pedestrian barriers	6
3.3.4 Temporary hoardings	7
3.3.5 Temporary pool fences	7
3.4 Wind actions	8
3.4.1 Forces on temporary barriers	8
3.4.2 Site wind speed	8
3.4.3 Terrain/height multiplier, $M_{z,cat}$	9
3.4.4 Shielding class	10
3.4.5 Topographic multiplier	10
3.4.6 Proximity multiplier	12
3.4.7 Standard V_{des} values	12
3.4.8 Shape factors and reference areas	13
Section 4 Design analysis	16
4.1 Scope	16
4.2 Ultimate limit states	16
4.2.1 Classes of temporary barriers	16
4.2.2 Design event	16
4.3 Combinations of actions	16
4.3.1 General	16
4.3.2 Strength	17
4.3.3 Stability	17
4.4 Confirmatory methods	17
4.5 Methods of analysis	17
4.6 Structural modelling	18
4.7 Design capacity	18
4.7.1 General	18
4.7.2 Acceptance of materials	18
4.8 Design evaluation	18
Section 5 Testing	20
5.1 Testing principles	20
5.2 Test reports	21
Appendix A (informative) Simplification to proximity multiplier (M_p)	22
Appendix B (informative) Examples of the calculation of the test load (R_d) for three tests	23
Bibliography	27

NOTES

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Part 1: General requirements

Section 1 Scope and general

1.1 Scope

This document specifies requirements for the design, installation, testing and storage of temporary —

- (a) fencing;
- (b) pedestrian barriers;
- (c) hoarding; and
- (d) pool fencing.

These are collectively referred to as temporary barriers, and are intended to limit unauthorized access to restricted areas.

This document also provides alternative ways to achieve conformance, through design analysis, physical testing or a combination of both.

This document applies to equipment that is relocatable and reusable, and not permanently fixed to other structures.

This document also provides detailed guidance for the calculation of wind actions on the equipment covered by this document.

This document does not cover equipment that is designed to prevent falls, such as temporary edge protection.

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 for informative purposes are listed in the Bibliography.

AS 1720.1, *Timber structures, Part 1: Design methods*

AS 3566.1, *Self-drilling screws for the building and construction industries, Part 1: General requirements and mechanical properties*

AS 3600, *Concrete structures*

AS 4000, *Steel structures*

AS 5216, *Design of post-installed and cast-in fastenings in concrete*

AS/NZS 1170.0, *Structural design actions, Part 0: General principals*

AS/NZS 1252 (all parts), *High strength steel fastener assemblies for structural engineering—Bolts, nuts and washers*

AS/NZS 1664.1, *Aluminium structures, Part 1: Limit state design*

AS/NZS 4600, *Cold-formed steel structures*