

Australian/New Zealand Standard™

**Built-in components for masonry
construction**

**Part 3: Lintels and shelf angles
(durability requirements)**



S t a n d a r d s Australia



STANDARDS
NEW ZEALAND
Pūnaha Aotearoa

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The following interests are represented on Committee BD/28:

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Australian Paint Manufacturers Federation
Australian Stainless Steel Development Association
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Australian/New Zealand Standard™

Built-in components for masonry construction

Part 3: Lintels and shelf angles (durability requirements)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD/28, Masonry Wall Ties and Accessories.

This Standard is the third of a three-part series on masonry wall ties, connectors and accessories, and lintels and shelf angles. The series comprises the following:

AS/NZS

2699 Built-in components for masonry construction

2699.1 Part 1: Wall ties

2699.2 Part 2: Connectors and accessories

2699.3 Part 3: Lintels and shelf angles (durability requirements)

The durability requirements of lintels and shelf angles are specified in AS 3700, *Masonry structures* and NZS 4210, *Code of practice for masonry construction: materials and workmanship*, and NZS 4230, *Code of practice for the design of masonry structures*.

The objective of this Standard is to provide manufacturers of lintels and shelf angles with specifications to achieve these durability requirements, and with methods for testing their corrosion resistance.

The terms 'normative' and 'informative' have been used in this Standard 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.

Notes to clauses in this Standard are for information and guidance only and compliance with them is not a requirement of the Standard.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Built-in components for masonry construction****Part 3: Lintels and shelf angles (durability requirements)**

SECTION 1 GENERAL

1.1 SCOPE AND APPLICATION This Standard specifies the requirements and methods of test for durability performance of steel lintels and shelf angles to be built into masonry.

NOTES:

- 1 This Standard does not cover requirements for structural design or the method of its determination. Details for these are given by NZS 3404, AS 3700, AS 4100, NZS 4210 or AS/NZS 4600.
- 2 The design and installation requirements for lintels and shelf angles are specified in AS 3700 and NZS 4203.
- 3 Throughout this Standard, lintel signifies lintel or shelf angle, unless stated otherwise.
- 4 Lintels with a high durability classification may be used for less severe corrosion conditions.
- 5 The durability performance categories employed in this Standard are compatible with the environments specified in AS 3700, NZS 3604 and AS/NZS 2312.

This Standard applies to lintels and shelf angles used in masonry construction as described in AS 3700 and NZS 4210.

1.2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

| | |
|---------------|----------------------------------------------------------------------------------------|
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1449 | Wrought alloy steels—Stainless and heat-resisting steel plate, sheet and strip. |
| 1580 | Paints and related materials—Methods of test |
| 1580.481 | Coatings |
| 1580.481.1.9 | Method 481.1.9: Exposed to weathering—Degree of blistering |
| 1580.481.1.10 | Method 481.1.10: Exposed to weathering—Degree of flaking and peeling |
| 1580.481.3 | Method 481.3: Exposed to weathering—Degree of corrosion of coated metal substrates |
| 1627 | Metal finishing—Preparation and pretreatment of surfaces |
| 1627.4 | Part 4: Abrasive blast cleaning |
| 2331 | Methods of test for metallic and related coatings |
| 2331.2.1 | Method 2.1: Average thickness test—Dissolution methods—Strip and weigh, and analytical |
| 2331.3.1 | Method 3.1: Corrosion and related property tests—Neutral salt spray (NSS) test |