

Australian/New Zealand Standard™

**Built-in components for masonry
construction**

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

AS/NZS 2699.3:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-028, Masonry Wall Ties and Accessories. It was approved on behalf of the Council of Standards Australia on 10 October 2002 and on behalf of the Council of Standards New Zealand on 17 September 2002. It was published on 7 November 2002.

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Australian/New Zealand Standard™

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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, to supersede AS/NZS 2699.3:2000.

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.

This Standard is the third part of a 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)

Durability requirements for 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*, which also includes specification and testing for impact resistance during storage, handling, transport and installation of organic and inorganic zinc-silicate coatings.

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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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE AND APPLICATION**1.1.1 Scope**

This Standard specifies 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.

1.1.2 Application

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
1580	Paints and related materials—Methods of test
1580.406.1	Method 406.1: Resistance to impact—Falling weight test (Gardner-type 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 pre-treatment of surfaces
1627.4	Part 4: Abrasive blast cleaning
2331	Methods of test for metallic and related coatings