

Australian/New Zealand Standard™

**Hot-dip galvanized (zinc) coatings on
ferrous hollow sections, applied by a
continuous or a specialized process**



AS/NZS 4792:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MT-009, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 8 June 2006 and on behalf of the Council of Standards New Zealand on 16 June 2006.

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The following are represented on Committee MT-009:

Australian Institute of Metal Finishing
Australian Aluminium Council
Australian Industry Group
Australian Paint Manufacturers' Federation
Department of Defence
Galvanizers Association of Australia
Powder Coaters Association
The Royal Australian Chemical Institute
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This Standard was issued in draft form for comment as DR 05559.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 4792:2006

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Australian Chamber of Commerce and Industry
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Galvanizers Association of Australia
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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australian/Standards New Zealand Committee MT-009, Metal Finishing, to supersede AS/NZS 4792:1999, *Hot-dip galvanized (zinc) coatings on ferrous hollow sections, applied by a continuous or a specialized process*.

The objective of this revision is to revise the hot-dip galvanized coating specifications.

There are no International (ISO) Standards covering these specialized processes.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix 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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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the mass, quality and testing of hot-dip galvanized coatings applied to—

- (a) hollow sections galvanized on both surfaces in a specialized plant;
- (b) hollow sections produced by welding pre-galvanized steel strip; and
- (c) hollow sections galvanized on external surfaces only, using a continuous (in-line) process.

Matters relating to the quality, properties, or dimensional requirements of the steel hollow sections are outside the scope of this Standard.

NOTES:

- 1 Advice and recommendations on information to be supplied by the purchaser to the hot-dip galvanizer at the time of enquiry or order are contained in the purchasing guidelines set out in Appendix A.
- 2 Alternative means for determining compliance with this Standard are given in Appendix B.
- 3 For details of testing requirements for painted steel hollow sections see relevant product Standards, e.g. AS 1074 and AS 1163.
- 4 General information on factors that affect the corrosion of galvanized steel is given in Appendix C.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|----------|--|
| 1074 | Steel tubes and tubulars for ordinary service |
| 1163 | Structural steel hollow sections |
| 1199 | Sampling procedures for inspection by attributes |
| 1199.0 | Part 0: Introduction to the ISO 2859 attribute sampling system |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection |
| 1527 | Steel sheet and strip—Hot-dipped zinc-coated or aluminium/zinc-coated |
| 1627 | Metal finishing—Preparation and pretreatment of surfaces |
| 1627.4 | Part 4: Abrasive blast cleaning of steel |
| 2331 | Methods of test for metallic and related coatings |
| 2331.1.1 | Method 1.1: Local thickness tests—Micrographic examination of cross-sections |
| 2331.1.3 | Method 1.3: Local thickness tests—Magnetic method |
| 2331.1.4 | Method 1.4: Local thickness tests—Magnetic induction and eddy current methods |