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AS/NZS 4680:1999

Australian/New Zealand Standard™

Hot-dip galvanized (zinc) coatings on fabricated ferrous articles

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MT/9, Metal Finishing. It was approved on behalf of the Council of Standards Australia on 11 December 1998 and on behalf of the Council of Standards New Zealand on 15 January 1999. It was published on 5 April 1999.

The following interests are represented on Committee MT/9:

Australasian Institute of Metal Finishing
Australian Chamber of Commerce and Industry
Department of Defence, Australia
Galvanising Association of New Zealand
Galvanizers Association of Australia
Institute of Materials Engineering Australasia
Metal Trades Industry Association of Australia
New Zealand Abrasive Blasting Association
Royal Australian Chemical Institute
Society of Automotive Engineers, Australasia
Telstra Corporation

Additional interests participating in preparation of Standard:

Galvanizers and metal coaters
Institution of Professional Engineers New Zealand

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Hot-dip galvanized (zinc) coatings on fabricated ferrous articles

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MT/9, Metal Finishing, to supersede in part AS 1650—1989, *Hot-dipped galvanized coatings on ferrous articles.*

The objective of this edition is to upgrade the requirements for hot-dip galvanized (zinc) coatings applied to general fabricated ferrous products.

During the process of revising AS 1650—1989, the Committee agreed that five separate Standards be produced as its replacement to accommodate recent process developments and to provide, where necessary, a broader scope for each product type.

It is intended that this Standard, therefore, will become one of five Standards, that will cover hot-dip galvanized coatings applied to ferrous products. The other Standards are as follows:

AS
1397 Steel sheet and strip—Hot-dipped zinc-coated or aluminium/zinc coated

AS/NZS
4534 Zinc and zinc/aluminium-alloy coatings on steel wire

4791 Hot-dip galvanized (zinc) coatings on ferrous open sections, applied by an in-line process

4792 Hot-dip galvanized (zinc) coatings on ferrous hollow sections, applied by a continuous or a specialized process

During the preparation of this Standard, cognizance was taken of the following International Standards:

ISO 1459:1973 Metallic coatings—Protection against corrosion by hot dip galvanizing—Guiding principles

ISO 1461:1973 Metallic coatings—Hot dip galvanized coatings on fabricated ferrous products—Requirements

Cognizance was also taken of the draft International Standard ISO/DIS 1461, *Hot dip galvanized coatings on fabricated ferrous products—Specifications*, which was circulated for voting during April 1996.

Although this Standard and the ISO draft Standard are both similar in technical content, it has been agreed not to consider endorsing the International draft Standard until it is finally published.

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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