

Australian Standard[®]

**Durability of galvanized and
electrogalvanized zinc coatings for the
protection of steel in structural
applications—Atmospheric**

STANDARDS
Australia



This Australian Standard® was prepared by Committee MT-014, Corrosion of Metals. It was approved on behalf of the Council of Standards Australia on 7 April 2008. This Standard was published on 19 May 2008.

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- Australasian Corrosion Association
 - Australian Chamber of Commerce and Industry
 - Australian Electrolysis Committee
 - Australian Paint Approval Scheme
 - Australian Pipeline Industry Association
 - AUSTROADS
 - Blast Cleaning and Coating Association of Australia
 - Bureau of Steel Manufacturers of Australia
 - Corrosion Prevention Centre
 - CSIRO Manufacturing and Materials Technology
 - Galvanizers Association of Australia
 - Materials Australia
 - Plumbing Products Industry Group
 - Water Services Association of Australia
 - Water Utility Interests
-

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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PREFACE

This Standard has been prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee MT-014, Corrosion of Metals. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to specify a classification for the durability of metallic zinc based coatings on structural steels and to provide a broader understanding of the application of the product.

Currently there is no appropriate International Standard for classification of metallic coatings.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard

Durability of galvanized and electrogalvanized zinc coatings for the protection of steel in structural applications—Atmospheric**1 SCOPE**

This Standard provides classification guidelines for the durability of galvanized and electrogalvanized coatings for structural steel applications in various atmospheric environments.

NOTES:

- 1 Non-atmospheric corrosion environments are not considered in this part of the Standard.
- 2 This Standard does not cover durability of galvanized and electrogalvanized coatings on steel fasteners in detail.
- 3 This Standard excludes other protective systems applied over galvanized or electrogalvanized coatings.
- 4 For guidance on demonstrating compliance with this Standard, refer to appendix B.

This Standard also discusses pre-galvanized steel, surface conditions and preparation, environmental zones and types of structure and associated components.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1199	Sampling procedures for inspection by attributes
1199.0	Part 0: Introduction to the AS 2859 attribute sampling system
1199.1	Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
1214	Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse pitch)
1627	Metal finishing—Preparation and pretreatment of surfaces
1627.1	Part 1: Removal of oil, grease and related contamination
1627.2	Part 2: Power tool cleaning
1627.4	Part 4: Abrasive blast cleaning of steel
1897	Electroplated coatings on threaded components (metric coarse pitch)
2400	Packaging
2400.5	Part 5: Temporary corrosion protection
2505	Self-drilling screws for the building and construction industries
3556.2	Part 2: Corrosion resistance requirements
4112	Atmospheric corrosivity zones in Australia
5056	Metallic coatings—Powder metal (and composites) applied by mechanical means at ambient temperature