

AS/NZS 2312:2002  
(Incorporating Amendment No. 1)

AS/NZS 2312

Australian/New Zealand Standard™

**Guide to the protection of structural  
steel against atmospheric corrosion by  
the use of protective coatings**



## **AS/NZS 2312:2002**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MT-014, Corrosion of Metals. It was approved on behalf of the Council of Standards Australia on 14 October 2002 and on behalf of the Council of Standards New Zealand on 12 November 2002. It was published on 28 November 2002.

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The following are represented on Committee MT-014:

Australasian Corrosion Association  
Australian Aluminium Council  
Australian Chamber of Commerce and Industry  
Australian Electrolysis Committee  
Australian Gas Association  
Australian Institute of Steel Construction  
Australian Pipeline Industry Association  
AUSTROADS  
Bureau of Steel Manufacturers of Australia  
Corrosion Prevention Centre  
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Galvanizers Association of Australia  
Hunter Water Australia  
Ministry of Economic Development (New Zealand)  
New Zealand Abrasive Blasting Association  
United Water International  
Water Corporation Western Australia

Additional interests participating in the preparation of this Standard:

The Australian Paint Approval Scheme  
Australian Paint Manufacturer's Federation  
Building Research Association of New Zealand  
Corrosion engineers and consultants  
Metal spray suppliers  
Paint manufacturers and suppliers  
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## Australian/New Zealand Standard™

# **Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings**

Originated as part of MA 1.5—1967.  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MT-014, Corrosion of Metals, to supersede AS/NZS 2312:1994, *Guide to the protection of iron and steel against exterior atmospheric corrosion*.

*This Standard incorporates Amendment 1 (August 2004). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure, or part thereof affected.*

The objective of this Standard is to provide guidance for architects, engineers, builders, the surface coating industry and users of protective services in general, on coating systems for the protection of steel work against corrosion. The designer can choose from a selection of systems based on expected service life to first maintenance for various environments. The systems recommended herein are based on good industrial practice and usage; however, local knowledge of any corrosion problem should influence the decisions taken.

Many of the system options will provide equal performance in the field. The system chosen will depend on many factors including location, material supply, available equipment, labour and cost.

It is necessary to refer to each Section of this Standard when a specification for an appropriate system is being prepared.

This edition of the Standard has been expanded to cover non-atmospheric environments in addition to exterior atmospheric environments.

In providing recommendations on up-to-date protection systems, the Committee is aware of the large number of systems used commercially, but, to avoid confusion, has included only a limited range of systems for each type of environment.

The Committee acknowledges the developments which are taking place in the protection of structural steel work and will continue to monitor these in order to make changes to future editions of this Standard as may become necessary.

In preparing this revision, cognizance was taken of the International Standard ISO 9223:1992, *Corrosion of metals and alloys—Corrosivity of atmospheres—Classification*. Cognizance was also taken of a number of the draft International Standards being prepared to become part of the ISO 12944 series of Standards, *Paints and varnishes—Corrosion protection of steel structures by protective paint systems*. These Standards were not adopted as most of the paint systems they specify are not used in Australia and New Zealand.

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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