

Australian Standard[®]

**Cathodic protection—Installation of
galvanic sacrificial anodes in soil**



This Australian Standard® was prepared by Committee MT-014, Corrosion of Metals. It was approved on behalf of the Council of Standards Australia on 10 May 2007. This Standard was published on 12 September 2007.

The following are represented on Committee MT-014:

- Australasian Corrosion Association
 - Australian Chamber of Commerce and Industry
 - Australian Electrolysis Committee
 - Australian Paint Approval Scheme
 - Australian Pipeline Industry Association
 - AUSTAP
 - AUSTROADS
 - Blast Cleaning and Coating Association of Australia
 - Bureau of Steel Manufacturers of Australia
 - Corrosion Consultants
 - CSIRO Manufacturing and Materials Technology
 - Galvanizers Association of Australia
 - Materials Australia
 - United Water International
 - Water Services Association of Australia (WSAA)
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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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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4832—2007

Cathodic protection—Installation of galvanic sacrificial anodes in soil

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Technical Committee MT-014 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Australian Paint Manufacturers Federation
Australian Pipelines and Gas Association
AUSTROADS
Bureau of Steel Manufacturers of Australia
CSIRO
Energy Safe Victoria
Galvanizers Association of Australia
Galvanizing Association of New Zealand
New Zealand Heavy Engineering Research Association
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NOTES

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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 method for the installation of galvanic sacrificial anodes in soil.

The Committee decided that there were no International Standards (ISO) which were suitable to be used as an Australian Standard.

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

Australian Standard

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1 SCOPE

This Standard specifies requirements for the installation of galvanic anodes in soils.

The method for installing anodes in soil for each designation code is specified in Appendix A.

NOTES:

- 1 This Standard does not specify any purchasing requirements for galvanic anodes. Refer to AS 2239.
- 2 This Standard does not apply to installation of galvanic anodes in liquids.

Galvanic anodes are selected according to the nature of the environment, the ferrous structure to be protected and the output current required. Anodes complying with AS 2239 will meet the requirements of this Standard.

NOTES:

- 1 For underground metallic structures, anodes that are typically used, are composed of zinc or magnesium alloys.
- 2 Anodes may be supplied pre-packaged, in a gypsum bentonite backfill, which is contained in a calico bag and usually wrapped in plastic, or in simple unpackaged form.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|--------|---|
| 2239 | Galvanic (sacrificial) anodes for cathodic protection |
| 2832 | Cathodic protection of metals |
| 2832.2 | Part 2: Compact buried structures |

3 DEFINITIONS

For the purpose of this Standard the definitions in AS 2832.2 apply.

4 REGISTRATION OF GALVANIC ANODE INSTALLATIONS

In some Australian states or territories registration of galvanic anode cathodic protection systems is mandatory.

NOTE: Further information can be obtained from the relevant State Electrolysis Committee as listed in Appendix B.

5 INFORMATION TO BE PROVIDED TO THE INSTALLER

The following information shall be provided:

- (a) Drawing or description of the location where the anodes are to be installed.
- (b) Number and type of anodes to be installed.
- (c) Mass and dimensions of anodes to be installed, (refer to AS 2239 for anode designations).