

Australian Standard[®]

Railway permanent way material

Part 8: Dogspikes

This Australian Standard was prepared by Committee CE/2, Railway Permanent Way Materials. It was approved on behalf of the Council of Standards Australia on 28 October 1994 and published on 5 April 1995.

The following interests are represented on Committee CE/2:

Bureau of Steel Manufacturers
Cement and Concrete Association of Australia
Rail Track Association of Australia
Railways of Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard[®]

Railway permanent way material

Part 8: Dogspikes

First published as AS E28— 1928.
Second edition 1937.
Third edition 1949.
Fourth edition 1964.
Revised and redesignated AS 1085.8 — 1978.
Second edition 1979.
Third edition 1988.
Fourth edition 1995.

Incorporating:
Amdt 1—1997

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 9421 7

PREFACE

This Standard was prepared by the Standards Australia Committee on Railway Permanent Way Materials to supersede AS 1085.8—1988.

The objective of this Standard is to provide designers and manufacturers with requirements for dogspikes for use with steel rails. The objective of this revision is to accommodate alterations to the previous edition as follows:

- (a) Requirements have been extended to include 22 mm diameter round shank dogspikes.
- (b) Inclusion of a clause on surface roughness.
- (c) Minor editorial amendments.

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.

CONTENTS

	<i>Page</i>
1 SCOPE	3
2 REFERENCED DOCUMENTS	3
3 CHEMICAL COMPOSITION	3
4 METHOD OF MANUFACTURE	3
5 POST-FORGING HEAT TREATMENT	4
6 SHAPE AND DIMENSIONS	4
7 FINISH	4
8 SURFACE ROUGHNESS	4
9 TESTS	4
10 ROUNDING OFF NUMBERS	4

APPENDICES

A PURCHASING GUIDELINES	8
B MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD ..	10
C GUIDANCE ON TYPICAL SAMPLING	12
D EXTRACTION TEST FOR DOGSPIKES	13

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

STANDARDS AUSTRALIA

Australian Standard

Railway permanent way material

Part 8: Dogspikes

1 SCOPE This Standard sets out the requirements for 16 mm and 19 mm steel dogspikes with square shanks and 22 mm diameter round shank steel dogspikes for use with the steel rails specified in AS 1085.1.

NOTE: Purchasing guidelines are given in Appendix A.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- 1050 Methods for the analysis of iron and steel (all Methods)
- 1085 Railway permanent way material
- 1085.1 Part 1: Steel rails
- 1199 Sampling procedures and tables for inspection by attributes
- 1213 Iron and steel—Methods of sampling
- 1399 Guide to AS 1199—Sampling procedures and tables for inspection by attributes
- 1442 Carbon steels and carbon-manganese steels—Hot-rolled bars and semifinished products
- 2536 Surface texture
- 2706 Numerical values—Rounding and interpretation of limiting values
- 3679 Structural steel
- 3679.1 Part 1: Hot-rolled bars and sections
- K1 Methods for the sampling and analysis of iron and steel

AS/NZS

- ISO 9000 Quality management and quality assurance standards
- ISO 9000.1 Part 1: Guidelines for selection and use
- ISO 9004 Quality management and quality system elements
- ISO 9004.1 Part 1: Guidelines

SAA

- HB18 Guidelines for third-party certification and accreditation
- HB18.44 Guide 44—General rules for ISO or IEC international third-party certification schemes for products

3 CHEMICAL COMPOSITION Steel used for the manufacture of dogspikes shall comply with the requirements of AS 1442, Grade U3, or Grade U5, Condition B or F.

4 METHOD OF MANUFACTURE Dogspikes shall be produced by hot or cold forging, with or without a second heat or post-forging heat treatment, and with or without secondary machining.