

RISSB

RAIL INDUSTRY SAFETY AND STANDARDS BOARD

STANDARDS

AS 1085.10

Railway Track Material

Part 10: Rail Anchors



Australian
STANDARD

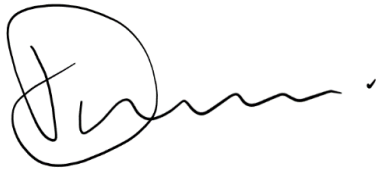
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RISSB wishes to acknowledge the positive contribution of subject matter experts in the development of this Standard. Their efforts ranged from membership of the Development Group through to individuals providing comments on a draft of the Standard during the open review.

I commend this Standard to the Australasian rail industry as it represents industry good practice and has been developed through a rigorous process.



Damien White
Chief Executive Officer
Rail Industry Safety and Standards Board

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Publication Version	Effective Date	Reason for and Extent of Change(s)
2024	10 December 2024	This document has been reviewed to ensure it remains relevant and applicable. The latest review assessed the content, confirming that while updates were made to align with current industry practices, technologies, and regulatory requirements, the original authorship and copyright have been acknowledged as required.

Approval

Name	Date
Rail Industry Safety and Standards Board	25 November 2024

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Preface

This standard was prepared by the Railway Track Material – Part 10: Rail Anchors Development Group, overseen by the RiSSB Infrastructure Standing Committee.

Objective

The objective of this Standard is to provide tests for standard performance requirements which manufacturers' products must satisfy, and to permit flexibility in both product design and material.

Changes to the previous edition are as follows:

- (a) Change of title of the AS 1085 series (previously Railway permanent way material).
- (b) The referenced documents list has been revised.
- (c) Reference to withdrawn Standards AS 1213 and K1 have been removed.
- (d) The most recent version of the informative Appendix B, 'Means of demonstrating compliance with this Standard' has been included.

Compliance

There are four types of provisions contained within Australian Standards developed by RiSSB:

- (a) Requirements.
- (b) Recommendations.
- (c) Permissions.
- (d) Constraints.

Requirements – it is mandatory to follow all requirements to claim full compliance with the Standard. Requirements are identified within the text by the term 'shall'.

Recommendations – do not mention or exclude other possibilities but do offer the one that is preferred.

Recommendations are identified within the text by the term 'should'.

Recommendations recognize that there could be limitations to the universal application of the control, i.e. the identified control is not able to be applied or other controls are more appropriate or better.

Permissions – conveys consent by providing an allowable option. Permissions are identified within the text by the term 'may'.

Constraints – provided by an external source such as legislation. Constraints are identified within the text by the term 'must'.

For compliance purposes, where a recommended control is not applied as written in the standard it could be incumbent on the adopter of the standard to demonstrate their actual method of controlling the risk as part of their WHS or Rail Safety National Law obligations. Similarly, it could also be incumbent on an adopter of the standard to demonstrate their method of controlling the risk to contracting entities or interfacing organisations where the risk may be shared.

Appendices in RiSSB Standards may be designated either "normative" or "informative". A "normative" appendix is an integral part of a Standard and compliance with it is a requirement, whereas an "informative" appendix is only for information and guidance.

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Section 1 Scope and general

1.1 Scope

This Standard sets out the requirements for one-piece rail anchors for application to steel rails rolled in accordance with AS 1085.1. Dimensions and tolerances are not specified.

NOTES:

- a) The specified requirements can also be relevant for rail sizes not currently covered by this Standard.
- b) Dimensional tolerances should be agreed between the purchaser and the manufacturer.
- c) The purchaser shall provide the manufacturer with information as recommended in Appendix A, when enquiring about, or ordering, rail anchors to this Standard.
- d) Alternative means for demonstrating compliance with this Standard are given in Appendix B.

1.2 Normative references

The following documents are referred to in the text in such a way that *some* or all of their content constitutes requirements of this document:

- AS 1085, *Railway Track Material*
- AS 1085.1, *Railway Track Material – Part 1: Steel Rails*
- AS 1199, *Sampling procedures and tables for inspection by attributes*
- AS 1399, *Guide to AS 1199 - Sampling procedures and tables for inspection by attributes*
- AS/NZS 1050, *Methods for the analysis of iron and steel (all Methods)*
- ISO 9001, *Quality management systems – Requirements*
- ISO 9004, *Quality management systems - Guidelines for performance improvements*
- HB 18, *Guidelines for third-party certification and accreditation*
- HB 18.28, *Guidelines for third-party certification and accreditation – Guide 28: General rules for a model third-party certification scheme for products*

NOTE:

Documents for informative purposes are listed in a Bibliography at the back of the Standard.

1.3 Defined terms and abbreviations

For the purposes of this document, the following terms and definitions apply:

1.3.1

bearing area

area of the anchor that bears uniformly on the side of the sleeper

1.3.2

branding

distinct marking on each anchor indicating the nominal rail size

1.3.3

dimensional tolerance

allowable deviation from specified dimensions of the rail anchors