

Australian Standard®

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**Railway permanent way material**

**Part 16: Cast sleeper plates**

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

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The following interests are represented on Committee CE/2:

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

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First published as AS 1085.16—1995.

## PREFACE

This Standard was prepared by the Standards Australia Committee on Railway Permanent Way Materials.

The objective of this Standard is to provide Australian railway authorities with requirements for dimensions, tolerances, composition and testing of clip fastening and double-shoulder sleeper plates in order that a suitable product may be obtained.

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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## FOREWORD

Clip fastening and double shoulder sleeper plates used by the Australian railway industry have typically been manufactured as a rolled steel component. In recent times, the diminishing use of timber sleepers, particular in main line track, has reduced the market for sleeper plates to the point at which the rolled steel component has become uneconomical. This has led to the emergence of the cast sleeper plate usually manufactured in spheroidal graphite iron, the use of which is spreading quite rapidly. This increasing use has generated the need for a relevant Standard.

STANDARDS AUSTRALIA

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**Part 16: Cast sleeper plates**

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**1 SCOPE** This Standard sets out the requirements for clip fastening and double shoulder sleeper plates made from spheroidal graphite iron (hereafter called cast sleeper plates) for use with steel rails rolled in accordance with AS 1085.1.

**NOTES:**

- 1 Guidelines to purchasers on information to be supplied at the time of calling for tenders or quotations are detailed in Appendix A.
- 2 Alternative means for determining compliance with this Standard are given in Appendix B.

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

**AS**

1085	Railway permanent way material
1085.1	Part 1: Steel rails
1100	Technical drawing
1100.201	Part 201: Mechanical engineering drawing
1199	Sampling procedures and tables for inspection by attributes
1399	Guide to AS 1199—Sampling procedures and tables for inspection by attributes
1831	Iron castings—Spheroidal or nodular graphite cast iron
3978	Non-destructive testing—Visual inspection of metal products and components

**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 DEFINITIONS** For the purpose of this Standard, the definitions below apply.

**3.1 Cast sleeper plate**—a cast metal plate placed between a rail and a sleeper that serves to control the position of the rail and distribute a load from the rail to the sleeper. The plate is normally used with timber sleepers and fastened to the sleepers with spikes or screws and bolts.

**3.2 Clip fastening sleeper plate**—a cast sleeper plate that provides for resilient clips to secure the rail to the sleeper plate.