

Australian Standard™

Railway track material

**Part 13: Spring fastening spikes for
sleeper plates**

This Australian Standard was prepared by Committee CE-002, Railway Track Materials. It was approved on behalf of the Council of Standards Australia on 14 June 2002 and published on 1 August 2002.

The following are represented on Committee CE-002:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Industry Group
Bureau of Steel Manufactures of Australia
Rail Track Association Australia

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**Part 13: Spring fastening spikes for
sleeper plates**

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PREFACE

This Standard was prepared by the Standards Australia Committee CE-002, Railway Track Materials, to supersede AS 1085.13—1998, *Railway permanent way material, Part 13: Spring fastening spikes for sleeper plates*.

The objective of this Standard is to provide manufacturers and purchasers with requirements for spring fastening spikes for use in railway permanent way.

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) The most recent version of the informative Appendix 'Means of demonstrating compliance with this Standard' has been included.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard
Railway track material**Part 13: Spring fastening spikes for sleeper plates****1 SCOPE**

This Standard specifies requirements for steel spring fastening spikes (hereinafter referred to as 'spikes') for use with sleeper plates manufactured in accordance with AS 1085.3 on timber sleepers.

NOTES:

- 1 Failure of these spikes in tracks can remain hidden for some time as the spike can break below the level of the sleeper plate.
- 2 Purchasing guidelines are given in Appendix A.
- 3 Means of demonstrating compliance with this Standard are given in Appendix B.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

| | |
|--------|--|
| 1085 | Railway track material |
| 1085.3 | Part 3: Sleeper plates |
| 1171 | Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1442 | Carbon steels and carbon-manganese steels—Hot-rolled bars and semi-finished products |
| 1815 | Metallic materials—Rockwell hardness test |
| 2003 | Carbon and low alloy steel—Measurement of decarburization |

AS/NZS

| | |
|----------|--|
| ISO 9001 | Quality management systems—Requirements |
| ISO 9004 | Quality management systems—Guidelines for performance improvements |

SAI

| | |
|---------|--|
| HB18 | Guidelines for third-party certification and accreditation |
| HB18.28 | Guide 28—General rules for a model third-party certification system for products |

3 PURPOSE AND CONTEXT OF USE**3.1 Function**

Spring fastening spikes are used to secure sleeper plates to timber sleepers in railway permanent way.

NOTE: Spring fastening spikes are driven through holes in the sleeper plate into the timber sleeper. As the spike penetrates the timber, the points of the spike separate and anchor the spike into the sleeper.