

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.

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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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sleeper plates**

Formulated as AS 1085.13—1990.  
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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	
IEC 17025	Guidelines for third-party certification and accreditation
IEC 1825	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.