

Australian Standard™

Railway track material

Part 4: Fishbolts and nuts

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 Manufacturers of Australia
Rail Track Association of Australia

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Part 4: Fishbolts and nuts

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PREFACE

This Standard was prepared by the Standards Australia Committee CE-002, Railway Track Materials, to supersede AS 1085.4—1999, *Railway permanent way material, Part 4: Fishbolts and nuts*.

The objective of this Standard is to provide manufacturers and purchasers with manufacturing and performance requirements for oval-necked fishbolts and nuts for use with fishplates and spring washers in railway track in accordance with the AS 1085 series of Standards.

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 only for information and guidance.

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STANDARDS AUSTRALIA**Australian Standard
Railway track material****Part 4: Fishbolts and nuts****1 SCOPE**

This Standard specifies requirements for steel heat-treated oval-necked fishbolts and nuts for use in conjunction with steel rails manufactured in accordance with AS 1085.1, and fishplates manufactured in accordance with AS 1085.2.

NOTES:

- 1 See Appendix A for means of demonstrating compliance with this Standard.
- 2 See Appendix B for information to be supplied at time of order.

2 PURPOSE AND CONTEXT OF USE**2.1 Function**

Fishbolts and nuts are intended for use with fishplates to connect together lengths of rail that are laid in railway tracks.

NOTE: The effectiveness of the connection relies on the bolts remaining tight and holding the fishplates firmly against the rails. The assembly ensures that the running surfaces of the rails remain properly aligned with an allowance for a small gap between the rail ends. Fishplated joints are designed to allow a degree of longitudinal expansion and contraction of the rail.

2.2 Action

Fishbolts and nuts are tightened so that the fishplates are held firmly against the rails. The assembly is subjected to forces due to thermal expansion and contraction of the rail, passage of rolling stock at speed (including vibration effects) and maintenance operations.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1085	Railway track material
1085.1	Part 1: Steel rails
1085.2	Part 2: Fishplates
1085.7	Part 7: Spring washers
1199	Sampling procedures and tables for inspection by attributes
1275	Metric screw threads for fasteners
1391	Methods for tensile testing of metals
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
2706	Numerical values—Rounding and interpretation of limiting values

AS