

Superseded by
AS 1085 Pt 2 - 1979

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Australian Standard 1085, Part 2—1978

RAILWAY PERMANENT WAY MATERIAL PART 2—FISHPLATES

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THE FOLLOWING INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Bureau of Steel Manufacturers of Australia
Railways of Australia Committee

This standard, prepared by Committee CE/2, Railway Permanent Way Materials, was approved on behalf of the Council of the Standards Association of Australia on 27 February 1978, and was published on 1 June 1978.

The specification is intended to include the technical provisions necessary for the supply of the materials herein referred to, but does not purport to comprise all the necessary provisions to a contract.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

AUSTRALIAN STANDARD SPECIFICATION

**RAILWAY PERMANENT
WAY MATERIAL
Part 2
FISHPLATES**

AS 1085, Part 2—1978

First published (as AS E23).....	1928
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PREFACE

This part of AS 1085 was prepared by the Association's Committee on Railway Permanent Way Materials, as the revision and metrication of AS E23—1964, Steel Fishplates, which it accordingly supersedes.

In addition to metric conversion, the opportunity was taken to add specification details for two further fishplates and to bring the standard into line editorially with recently published steel specifications.

This standard does not preclude the adoption, by agreement between the purchaser and the manufacturer, of requirements other than those specified herein.

This standard may require reference to the following standards:

- AS 1050 Methods for the Analysis of Iron and Steel (Metric Units)
- AS 1213 Methods for the Sampling of Iron, Steel, Permanent Magnet Alloys and Ferro-alloys
- AS 1391 Methods for Tensile Testing of Metals
- AS K1 Methods for the Sampling and Analysis of Iron and Steel.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for RAILWAY PERMANENT WAY MATERIAL

PART 2—FISHPLATES

1 SCOPE. This specification applies to bar-type steel fishplates for use in conjunction with steel rails rolled in accordance with AS 1085, Part 1.*

NOTE: It is essential that the purchaser supply the manufacturer with certain information when enquiring about or ordering fishplates to this specification. Purchasing guidelines are given in Appendix B.

2 DESIGNATION. Fishplates shall be designated by the number of this Australian standard and the nominal rail size, e.g.—

Fishplate to AS 1085, Part 2 for 53 kg rail.

3 STEELMAKING PROCESS. The steel used for the manufacture of the fishplates shall be made by an open hearth, a basic oxygen, or an electric process. For the purpose of this specification, a basic oxygen process means the process of making steel in a basic converter blown with commercially pure oxygen.

4 ROLLED-IN BRANDS. Each fishplate shall be distinctly branded with figures denoting the mass per metre of rails for which the fishplates are intended, a mark to identify the manufacturer and the year in which they were rolled, e.g. 53 XXX 77.

The letters and figures shall be rolled on the outside surface of the fishplate, and shall be raised not less than 0.5 mm from the plane surface of the fishplate.

5 CHEMICAL COMPOSITION.

5.1 Ladle Analysis. The manufacturer shall make a chemical analysis of the steel from each ladle to determine the proportion of the specified elements. This analysis shall be made of a sample taken during the pouring of the ladle, and shall comply with the limits set out in Table 1.

TABLE 1
CHEMICAL COMPOSITION (LADLE ANALYSIS)
percent

Carbon	Silicon	Manganese	Phosphorus	Sulphur
0.35-0.55	0.35 max.	0.55-1.00	0.05 max.	0.05 max.

*AS 1085, Railway Permanent Way Material, Part 1—Steel Rails.