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Australian Standard 1085, Part 7—1978

RAILWAY PERMANENT WAY MATERIAL PART 7—SPRING WASHERS



STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter

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 7

SPRING WASHERS

AS 1085, Part 7—1978

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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 E27—1964, Steel Spring Washers, which it accordingly supersedes.

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

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification
for
RAILWAY PERMANENT WAY MATERIAL

PART 7—SPRING WASHERS

1 SCOPE. This specification applies to steel spring washers for use with steel fishbolts specified in AS 1085, Parts 4 and 5.*

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

2 STEELMAKING PROCESS. The steel used for the manufacture of the washers 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.

3 CHEMICAL COMPOSITION. The steel shall comply with the following requirements for chemical composition:

- (a) Phosphorus shall be not more than 0.05 percent.
- (b) Sulphur shall be not more than 0.05 percent.

4 HEAT TREATMENT. The washers shall be heat treated under uniform conditions by hardening and tempering to obtain the required properties.

5 DIMENSIONS AND TOLERANCES. The washers shall conform to the dimensions and tolerances set out in Table 1.

TABLE 1
WASHER DIMENSIONS AND TOLERANCES

Dimension*	Nominal size of washer			Tolerance
	20	22	24	
Inside diameter <i>A</i>	21	24	27	+ 1 0
Section width <i>B</i>	10	10	10	± 0.25
Section thickness <i>C</i>	6	6	10	± 0.25
Pitch <i>D</i> : min.	6	6	10	± 1
max.	8	8	14	

*Letters refer to dimensions on drawing in Appendix A.

*AS 1085, Railway Permanent Way Material. Part 4—Non-heat-treated Fishbolts (Interference Fit); Part 5—Heat-treated Fishbolts.