

Australian Standard[®]

Railway track material

Part 20: Welding of steel rail



This Australian Standard® was prepared by Committee CE-002, Railway Track Materials. It was approved on behalf of the Council of Standards Australia on 29 June 2012. This Standard was published on 29 November 2012.

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
 - Monash University
 - Rail Track Association Australia
 - Railway Technical Society of Australasia
 - The Permanent Way Institute
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This Standard was issued in draft form for comment as DR AS 1085.20.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Part 20: Welding of steel rail

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PREFACE

This Standard was prepared by the Standards Australia Committee CE-002, Railway Track Materials, to supersede AS 1085.20—2006.

The objective of this Standard is to provide owners and maintainers of railway track with specifications for and means of qualification of welding procedures for use with rail steel in railway track.

This Standard does not address the conditions under which the procedures that are described are to be used.

This Standard is not intended to cover welding of worn rails using flash butt or aluminothermic welds. However, the principles and procedures may be adapted for the welding of worn rails.

It is not intended to cover existing welds.

Changes to the 2006 edition include the following:

- (a) Introduction of aluminothermic head repair welding.
- (b) Test methods aligned with current European test methods (where required).
- (c) Revised procedures for non-destructive testing of welds.
- (d) Revised qualification procedures for the fatigue performance of aluminothermic welds.

Any existing welding procedures tested to AS 1085.15—1995 or AS 1085.20—2006 will be accepted as qualified to this Standard and no further testing is required. Any new welding process will need to be tested to the requirements of this Standard.

Statements expressed in mandatory terms in notes to figures are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the Appendix to which they apply. A 'normative' Appendix is an integral part of a Standard, whereas an 'informative' Appendix is only for information and guidance.

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