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AS/NZS 1554.5:2014
(Incorporating Amendment Nos 1 and 2)

AS/NZS 1554.5:2014

Australian/New Zealand Standard™

Structural steel welding

**Part 5: Welding of steel structures
subject to high levels of fatigue loading**



AS/NZS 1554.5:2014

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WD-003, Welding of Structures. It was approved on behalf of the Council of Standards Australia on 24 September 2014 and on behalf of the Council of Standards New Zealand on 12 September 2014. This Standard was published on 25 November 2014.

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Australian Industry Group
Australian Steel Institute
Austroads
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Originated in Australia as AS 1554.5—1989.
Originated in New Zealand as AS/NZS 1554.5:1995.
Previous edition 2011.
Fifth edition 2014.
Reissued incorporating Amendment No. 1 (September 2015).
Reissued incorporating Amendment No. 2 (September 2017).

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Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, PO Box 1473, Wellington 6140.

ISBN 978 1 74342 894 8

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WD-003, Welding of Structures, to supersede AS/NZS 1554.5:2011.

This Standard incorporates Amendment No. 1 (September 2015) and Amendment No. 2 (September 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide rules for the welding of steel structures subject to high levels of fatigue loading.

The objective of this edition is to update the Standard and bring it in line with the latest edition of AS/NZS 1554.1, *Structural steel welding, Part 1: Welding of steel structures*.

This edition incorporates the following major changes to the 2011 edition:

(a) *Revision of the following Clauses:*

1.1 (new Note), 1.6 (new), 2.3.1, 2.3.3, 3.1.2.2, 3.1.3, 4.1.1 (Note 2 revised), 4.1.2(d) (correction), 4.2(b) (including Note 1), 4.3.2 (new), 4.6.1.1(e)(iii), 4.6.1.2 (new Note), 4.7.7, 4.8, 4.12.1, 4.12.2.2, 4.12.2.3, 5.2.2, 5.3.4, 5.3.5 (title), 6.1.2, 6.2.3 (Note added), 6.3.3 (Note added), 6.5 (Note 2), 6.6 (new Note), 7.2(e) (new), 7.3, 7.4, F2.1, F2.2, F4, Appendix G (new).

(b) *Revision of the following Tables:*

4.6.1(A), 4.6.1(B), 4.6.1(C), 4.6.2, 4.7.1 (Notes 1, 2 and 4 revised), 4.11(A) (Item (u) deleted, Item (i) revised), 4.12.2(B) (Note 1), 5.3.4(A), 6.1.1 (Title revised), 6.1.2 (Title revised), 7.4 (Title revised).

(c) *Revision of the following Figures:*

5.2.2 (new), 6.1.2.

The Standard requires that weld preparations, welding consumables and welding procedures be qualified before commencement of welding. Prequalified joint preparations, welding consumables and welding procedures are also given in the Standard.

Statements expressed in mandatory terms in notes to Tables and Figures are deemed to be requirements to 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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