

Australian/New Zealand Standard™

Structural steel welding

Part 3: Welding of reinforcing steel

AS/NZS 1554.3:2002

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 28 August 2002 and on behalf of the Council of Standards New Zealand on 2 October 2002. It was published on 25 October 2002.

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(Incorporating Amendment No. 1)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WD-003, Welding of Structures, to supersede AS 1554.3—1983, *SAA Structural steel welding code*, Part 3: *Welding of reinforcing steel*.

This Standard incorporates Amendment No. 1 (February 2003). 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 a code for the welding of reinforcing steel.

This edition is a major revision of the superseded edition.

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.

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

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND**Australian/New Zealand Standard
Structural steel welding****Part 3: Welding of reinforcing steel****SECTION 1 SCOPE AND GENERAL****1.1 SCOPE**

This Standard specifies requirements for the welding of reinforcing steel used in concrete structures that are designed and constructed in accordance with AS 3600 or NZS 3101.1, as well as other Standards that may be appropriate, by the following processes:

- (a) Manual metal-arc welding (MMAW).
- (b) Gas metal-arc welding (GMAW).
- (c) Flux-cored arc welding (FCAW).
- (d) Flash butt welding.
- (e) Flame-pressure welding or other processes approved by the principal.

The Standard applies specifically to the welding of reinforcing steels complying with AS/NZS 4671, but other steels may be used as provided for in Clause 2.1. It also applies to the welding of steel connection devices, inserts, anchors and anchor details, including prefabricated assemblies required in reinforced and precast concrete constructions.

NOTES:

- 1 Specific approval remains the prerogative of the supervising engineer.
- 2 Further information is given in WTIA Technical Note 11.

1.2 INNOVATION

Any alternative materials, welding processes, consumables, methods of construction or testing that give equivalent results to those specified, but do not comply with the specific requirement of this Standard or are not mentioned in it, are not necessarily prohibited.

The Joint Standards Australia/Standards New Zealand Committee on welding of structures can act in an advisory capacity concerning equivalent suitability, but specific approval remains the prerogative of the inspecting authority.

1.3 REFERENCED DOCUMENTS

The documents referred to in this Standard are listed in Appendix A.

1.4 DEFINITIONS

For the purpose of this Standard, the symbols and definitions given in AS 1101.3, AS 2812 and those below apply.

1.4.1 Approved

Except as may be otherwise stated, approved by the principal, the designer or the supervising engineer, as appropriate.