

AS/NZS 1554.5:2004

AS/NZS 1554.5

Australian/New Zealand Standard™

## **Structural steel welding**

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

#### **AS/NZS 1554.5:2004**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WD-003, Welding of Steel Structures. It was approved on behalf of the Council of Standards Australia on 22 December 2003 and on behalf of the Council of Standards New Zealand on 5 March 2004. It was published on 24 March 2004.

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The following are represented on Committee WD-003:

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Australian Industry Group  
AUSTROADS  
Bureau of Steel Manufacturers of Australia  
Electricity Supply Association of Australia  
Institution of Engineers Australia  
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## PREFACE

This Standard was prepared by the Joint Australian/New Zealand Committee WD-003, Welding of Structures, to supersede AS/NZS 1554.5:1995.

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 Standard specifically applies to welds subject to fatigue loading in excess of the range covered by AS/NZS 1554.1, *Structural steel welding*, Part 1: *Welding of steel structures* and hence, it should not be specified where AS/NZS 1554.1 is acceptable.

It is expected that welds covered by this Standard will not normally occur with structures such as buildings, tanks or silos, but only in certain classes of machinery and transport equipment.

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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