

Australian/New Zealand Standard™

**Structural steelwork—Fabrication and  
erection**



## **AS/NZS 5131:2016**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-001, Steel Structures. It was approved on behalf of the Council of Standards Australia on 21 November 2016 and by the New Zealand Standards Approval Board on 17 November 2016.

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The following are represented on Committee BD-001:

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Australian Chamber of Commerce and Industry  
Australian Steel Association  
Australian Steel Institute  
Austroads  
Bureau of Steel Manufacturers of Australia  
Engineers Australia  
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*This Standard was issued in draft form for comment as DR2 AS/NZS 5131:2016.*

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# Australian/New Zealand Standard™

## Structural steelwork—Fabrication and erection

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-001, Steel Structures. The objective of this Standard is to provide best practice requirements for fabrication and erection of structural steel members, components and structural assemblies used for load-carrying purposes in buildings, bridges and other structures.

*This Standard incorporates Amendment No. 1 (August 2020). 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.*

This Standard is based on the published joint Australian Steel Institute/Steel Construction New Zealand/Heavy Engineering Research Association (HERA) document ‘*Structural Steelwork Fabrication and Erection Code of Practice*’, 1st edition, 2014. Reference was made to EN 1090-2:2008, *Execution of steel structures and aluminium structures, Part 2: Technical requirements for steel structures* in the development of this Standard.

The Standard introduces the fundamental concept of ‘construction category’ (CC), which is a risk-based fit-for-purpose categorization of a structure or parts thereof. It is expected the CC categorization will be implemented in other related Standards, such as AS 4100, *Steel structures*, in due course.

It is the intention of Committee BD-001 to revise AS 4100 to align with AS/NZS 5131, principally through removal of material that is covered in AS/NZS 5131 and inclusion of guidance on the assessment of the construction category in AS 4100.

In the interim development period for this Standard, the International Standards Organization (ISO) commenced development of ISO 17607, *Steel structures*, which also makes reference to EN 1090-2, *Execution of steel structures and aluminium structures, Part 2: Technical requirements for steel structures*. Committee BD-001 has worked to ensure alignment where possible with ISO/CD 17607.

A1 | Amendment No. 1:2020 includes the following major changes:

- (a) Revisions throughout the document to the wording to reflect Australian Building Codes Board (ABCB) requirements for documents referenced under the National Construction Code (NCC).
- (b) Modifications to the definitions (Section 4) and application (Section 5) of traceability to better align with international practice.
- (c) Normative reference is made to AS/NZS ISO 3834 in Section 7.
- (d) Standard test for evaluation of slip factor, formerly in Appendix G, was moved back to AS 4100 and reference is made to AS 4100.

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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