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DR 87235
DR 87234

AS 1204—1980
UDC 669.14.018.29:621.791

Australian Standard 1204—1980

Amend 1 870706

For near BS equivalent see
BS 4360:1986

STRUCTURAL STEELS ORDINARY WELDABLE GRADES

3678—1990 Hot-rolled steel plates, floorplates and
slabs A4 12pp D
(In Update Services 15, 50, 51, 55)
Specifies requirements for the production and supply of hot-
rolled structural steel plates, floorplates and slabs rolled on
a reversing mill for carbon and carbon-manganese mechani-
cally tested steels, fully killed analysis only steels and low
alloy (weathering) mechanically tested.
Committee BD/23 Supersedes AS 1204—1980, AS 1205—1980 and
AS 1227—1980 (in part); Draft for comment DR 87234. Publication date
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THE FOLLOWING INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS AND SAA technical committees were officially represented on the committee entrusted with the preparation of this standard:

Australian Institute of Steel Construction Ltd
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Department of Public Works, N.S.W.
National Association of Australian State Road Authorities
Railways of Australia Committee
Steel Reinforcement Promotion Group
University of New South Wales
University of Sydney
SAA Committee on Concrete Structures
SAA Committee on Prestressed Concrete
SAA Committee on Testing of Metals

This standard, prepared by Committee BD/23, Structural Steel, was approved on behalf of the Council of the Standards Association of Australia on 10 October 1980, and was published on 1 December 1980.

To keep abreast of progress in industry, Australian standards are subject to continuous review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that standards users ensure that their standards are up-to-date. Full details of all SAA publications will be found in the Annual List of Australian Standards; these details are supplemented by listings in the SAA monthly journal 'The Australian Standard'. Information on the Annual List and 'The Australian Standard' may be obtained from any sales office of the Association, where details are also available of the current status of individual standards. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 79170.

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AMENDMENT No 1
to
AS 1204—1980
STRUCTURAL STEELS
ORDINARY WELDABLE GRADES

REVISED TEXT

SUMMARY: This amendment applies to the Preface and new Clause 4.1.

Published on 6 July 1987.

AMDT
No 1
JULY
1987

Page 2. Preface.

Include in the last paragraph under list of reference Australian standards:

AS 1365 Tolerances for Flat-rolled Steel
Products.

AMDT
No 1
JULY
1987

Page 3. Insert new Clause 4.1.

4.1 Manufacturing Tolerances. The variations in nominal dimensions shall not exceed the appropriate limits given in Sections 3 and 4 of AS 1365.

AUSTRALIAN STANDARD

**STRUCTURAL STEELS—
ORDINARY WELDABLE
GRADES**

AS 1204—1980

First published	1972
Second edition	1980

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PREFACE

This standard was prepared by the Association's Committee on Structural Steel to supersede both AS 1204—1972 and AS 1405—1973. The number of grades of steel covered has been reduced to include only those which are readily available. The product range has been extended to cover strip and floorplate, and tensile test requirements of some grades have been increased to take full advantage of the known properties of the steel. Weldable structural steels with enhanced weather-resistance properties are specified in AS 1205.

The grade designation used in the standard is a number which is the minimum yield stress in megapascals (MPa) rounded to 50 MPa, for the majority of the material involved. Where low-temperature impact properties are specified, an L suffix is introduced followed by 0 or 15, depending on the temperature at which the Charpy V-notch tests are to be carried out, i.e. at 0°C or -15°C, as appropriate.

The fact that low temperatures are used for impact tests does not necessarily imply that the relevant steels are guaranteed to be completely satisfactory for use at those temperatures, although in general they can be regarded as progressive improvements in the order shown over steels for which low-temperature impact tests are not prescribed.

The mechanical tests for universal sections are carried out on test pieces taken from the flange. AS 1227, which lays down general requirements for structural steel, defines the location of the test piece. Tapered-flange beams and channel sections will continue to be tested in the web, as this is the only

location from which a parallel-sided test piece can be obtained.

Hollow sections are not included in this standard; these are specified in AS 1163 and AS 1450.

The bend test is not included in the mechanical test requirements but a table giving recommended minimum bending radii for fabrication is given in Appendix B for guidance.

Any heat treatment or hot-forming operation must be controlled to avoid prolonged soaking times or excessively high temperatures which may have adverse effects on any type of steel since many of the grades covered have their properties developed by the use of grain refining and controlled temperatures during rolling.

This standard may require reference to the following Australian standards:

- AS 1000 The International System of Units (SI) and Its Application
- AS 1155 Metric Units for Use in the Construction Industry
- AS 1227 General Requirements for the Supply of Hot-rolled Steel Plates, Sections, Piling and Bars for Structural Purposes
- AS 1391 Methods for Tensile Testing of Metals
- AS 1544 Methods for Impact Tests on Metals Part 2—Charpy V-notch
- AS 1554 SAA Structural Steel Welding Code Part 1—Welding of Steel Structures
- AS 1365 Tolerances for Flat-rolled Steel Products (Amdt 1)

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