

Australian/New Zealand Standard™

Scaffolding

Part 2: Couplers and accessories



AS/NZS 1576.2:2009

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-036, Scaffolding. It was approved on behalf of the Council of Standards Australia on 7 July 2009 and on behalf of the Council of Standards New Zealand on 17 July 2009.

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Part 2: Couplers and accessories

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PREFACE

This Standard was prepared by the Standards Australia Committee BD-036, Scaffolding, to supersede AS 1576.2—1991, *Tubes, couplers and accessories used in metal scaffolding*.

The objective of this Standard is to provide manufacturers and suppliers of couplers and accessories with the requirements that will ensure the proper operation of couplers and accessories for light, medium, heavy and special duty scaffolding.

Tubes, couplers and accessories that have been tested to AS 1575—1974, *Tubes, couplers and accessories used in metal scaffolding*, AS 1576.2—1991, *Scaffolding Part 2: Couplers and accessories*, are deemed to be compliant provided they have been tested and documented in accordance with the relevant Standard.

This edition incorporates the following major changes to the 1991 edition:

- (a) Wedge-tightened couplers are now allowed. This is to align this Standard with BS EN 74-1:2005, *Couplers, spigot pins as baseplates for use in falsework and scaffolds*, Part 1: *Couplers for tubes—Requirements and test procedures*.
- (b) Couplers that meet the performance requirements of BS EN 74-1 for similar type couplers are deemed to comply with this Standard without the need for type testing.
- (c) End-to-end couplers are not to be used to resist direct tensile forces between the joined tubes.
- (d) Slip performance for end-to-end couplers has been deleted and replaced by a bending load capacity for these couplers.
- (e) The testing appendices generally have been revised and new tests have been included for—
 - (i) bending load capacity for end-to-end couplers;
 - (ii) determination of slip resistance using a check coupler;
 - (iii) horizontal load test on castors; and
 - (iv) a test for a check coupler combination with a load-bearing coupler.
- (f) Suppliers documentation that includes servicing procedures.

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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Scaffolding**Part 2: Couplers and accessories**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for couplers and accessories for scaffolding complying with AS/NZS 1576.3 and AS/NZS 1576.6.

NOTE: Guidance on means for demonstrating compliance with this Standard is given in Appendix P.

1.2 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

- 1112 ISO metric hexagon nuts (all parts)
- 1163 Structural steel hollow sections
- 1237 Plain washers for metric bolts, screws and nuts for general purposes (all parts)
- 1444 Wrought alloy steels—Standard, hardenability (H) series and hardened and tempered to designated mechanical properties
- 1450 Steel tubes for mechanical purposes
- 1874 Aluminium and aluminium alloys—Ingots and castings

AS/NZS

- 1111 ISO metric hexagon bolts and screws
- 1554 Structural steel welding
- 1554.1 Part 1: Welding of steel structures
- 1576 Scaffolding
- 1576.1 Part 1: General requirements
- 1576.3 Part 3: Prefabricated and tube-and-coupler scaffolding
- 1576.6 Part 6: Metal tube-and-coupler scaffolding—Deemed to comply with AS/NZS 1576.3
- 1594 Hot-rolled steel flat products
- 1665 Welding of aluminium structures
- 1734 Aluminium and aluminium alloys—Flat sheet, coiled sheet and plate
- 1866 Aluminium and aluminium alloys—Extruded rod, bar, solid and hollow shapes
- 2451 Bolts, screws and nuts with British Standard Whitworth threads (rationalized series)