

Australian Standard[®]

**Welded wire reinforcing
fabric for concrete**

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PREFACE

This Standard was prepared by the Standards Australia Committee on Structural Steel, to supersede AS 1304—1984, *Welded wire reinforcing fabric for concrete*.

The following significant changes have been made to the previous edition of the Standard:

- (a) A revised Table 1 (now Table 7) has been introduced to give the specification of standard fabrics most commonly made throughout Australia.
- (b) Appendix A 'Purchasing guidelines' has been amended.
- (c) A new Appendix B 'Means for demonstrating compliance with this Standard' has been included.
- (d) In Appendix C, the use of 'suitable' has been deleted.

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STANDARDS AUSTRALIA

Australian Standard

Welded wire reinforcing fabric for concrete

1 SCOPE This Standard specifies requirements for welded steel wire fabric intended for use as reinforcement for concrete. The fabric consists of longitudinal wires with cross wires welded to them.

NOTES:

1. For 'Purchasing guidelines', see Appendix A.
2. For 'Means for demonstrating compliance with this Standard', see Appendix B.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- | | |
|------|------------------------------------------------------------------------------|
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1303 | Steel reinforcing wire for concrete |
| 1391 | Methods for tensile testing of metals |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 3600 | Concrete structures |
| 3900 | Quality systems—Guide to selection and use |
| 3904 | Quality systems—Guide to quality management and quality system elements |

ISO

Guide 44—1985 General Rules for ISO or IEC International Third Party Certification Scheme for Products

3 DEFINITIONS For the purposes of this Standard, the definitions below apply.

3.1 Fabric – a mesh of wires at right angles welded together by an electrical process.

3.1.1 Standard fabric – fabric, the specification of which is in accordance with Table 7.

NOTE: For the arrangement of longitudinal wires for fabrics F102 to F52, see Figure 7.

3.1.2 Non-standard fabric – fabric, the dimensions and mass of which are other than the values given in Table 7.

NOTE: Non-standard fabrics may be specified in accordance with Appendix A, Figure A1.

3.2 Mass – the mass of fabric per unit area calculated on the basis of density of steel being 7850 kg/m³ (0.00785 kg/m.mm²).

3.3 Mesh size – the pitch of the longitudinal wires by the pitch of the cross wires.

3.4 Parcel – any portion of production run of finished fabric presented for examination and test at any one time.

3.5 Pitch – the distance between centres of adjacent parallel wires.

3.6 Wire size – the nominal diameter of a plain or deformed wire (see AS 1303).

4 MATERIAL REQUIREMENTS The fabric shall be made from steel wire complying with AS 1303.

5 PROCESS OF MANUFACTURE The fabric shall be manufactured to comply with the following requirements:

- (a) Longitudinal and cross wires shall be securely connected at every intersection by a process of electric resistance welding that employs the application of pressure.
- (b) Joints in the wires of the fabric shall be electrical resistance butt welds. Joints in adjacent wires shall be staggered by at least one pitch.

6 FABRIC SIZE The dimensions of standard sheets and rolls of fabric are as follows:

(a) Length:

- | | |
|-------------|---------------------------------------------------------|
| Sheets..... | 6 m |
| Rolls..... | 30 m or 60 m measured end-to-end of longitudinal wires. |