

Australian Standard[®]

**Welded wire reinforcing
fabric for concrete**

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AUSTROADS
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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.