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Steel for the reinforcement of concrete — Part 3: Welded fabric

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documentsdocument should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directiveswww.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 17, Steel, Subcommittee SC 16, Steels for the reinforcement and prestressing of concrete.

This second edition cancels and replaces the first edition (ISO 6935-3:1992), which has been technically revised. It also incorporates the Technical Corrigendum ISO 6935-3:1992/Cor 1:2000.

The main changes are as follows:

-__Clause_1, 2, 3, 4 have been revised;-

—__Figure_1 havehas been newly addedreplaced with a new figure.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <u>www.iso.org/members.html</u>.

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Steel for the reinforcement of concrete — Part 3: Welded fabric

1 Scope

This document specifies technical requirements for factory made sheets or rolls of welded fabric, manufactured from steel wires or bars with diameters from 4 mm to 18 mm and designed for the reinforcement of concrete structures and the ordinary reinforcement of prestressed concrete structures.

For the purpose of this document the term "wire" also includes bars.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6935-1, Steel for the reinforcement of concrete – Part 1: Plain bars

ISO 6935-2, Steel for the reinforcement of concrete - Part 2: Ribbed bars

ISO 15630-2, Steel for the reinforcement and prestressing of concrete — Test methods — Part 2: Welded fabric and lattice girders

ISO 10544, Cold-reduced steel wire for the reinforcement of concrete and the manufacture of welded fabric

ISO 11082, Certification scheme for welded fabric for the reinforcement of concrete structures

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp

IEC Electropedia: available at <u>https://www.electropedia.org/</u>

3.1

conformity assessment scheme

conformity assessment system related to specific objects of conformity assessment, to which the sam specified requirements, specific rules and procedures apply

Note 1 to entry: Conformity assessment schemes may be operated at an international, national or sub-national leve

Note 2 to entry: Certification, i.e. third-party attestation related to products, processes, systems or persons, i applicable to all objects of conformity assessment except for conformity assessment bodies themselves, to whic accreditation is applicable.

3.2

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characteristic value

value having a prescribed probability of not being attained in a hypothetical unlimited test series

Note 1 to entry: Equivalent to "fractile", which is defined in ISO 3534-1:2006.

Note 2 to entry: A nominal value is used as the characteristic value in some circumstances.

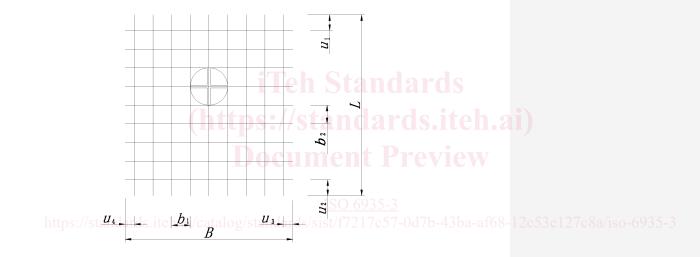
[SOURCE: ISO 16020:2005, 2.4.10, modified —Note 2 to entry has been added.]

3.<mark>32</mark> fabric

1

geometrical arrangement of longitudinal and transverse wires that are arranged substantially at right angles to each other and welded together at all points of intersection

Note 1 to entry: See Figure 1.



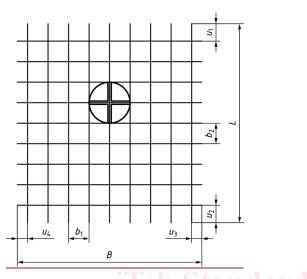


Figure 1 — Geometric characteristics of fabric

3.4<u>3</u>

inspection

activities such as measuring, examining, testing, gauging one or more characteristics of a product or service and comparing these with specified requirements to determine conformity

[SOURCE: ISO 9000:2015, 3.11.7, modified]

3.5 <u>3.4</u>

ISO 6935-3

1

length of fabric iteh.ai/catalog/standards/sist/f7217c57-0d7b-43ba-af08-12c53e127c8a/iso-6935-3 longest side of the fabric, irrespective of the manufacturing direction

3.6<u>5</u>

longitudinal wire wire in the manufacturing direction of the fabric

3.<mark>76</mark>

nominal cross-sectional area

cross-sectional area equivalent to the area of a circular plain bar of the same nominal diameter

[SOURCE: ISO 16020:2005, 2.2.15, modified — "wire" has been removed from the definition.]

3.<mark>8</mark>7

overhang

length of longitudinal or transverse wires beyond the centre of the outer crossing wire in a fabric

Note 1 to entry: For twin wire fabric, the overhang is measured from the tangent line of the adjacent wires, see Figure 2.

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3.<mark>98</mark> spacing

I

centre-to-centre distance of wires in a fabric

Note 1 to entry: For twin wire fabric, the spacing is measured between the tangents of the adjacent wires, see Figure 2.

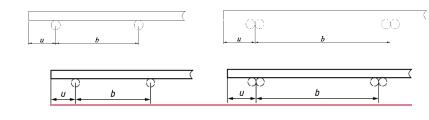


Figure 2 — Wire spacing, b, and overhang, u

3.109

transverse wire wire perpendicular to the manufacturing direction of the fabric

3.11<u>10</u>

L

twin wires type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and size placed adjacently and in contact with each other as a pair and the same type and the same type and size placed adjacently and in contact with each other as a pair and the same type and the same type

3.12<u>11</u>

width of fabric

shortest side of the fabric, irrespective of the manufacturing direction

3.<mark>13<u>12</u> wire</mark>

<u>SO 6935-3</u>

material from which the fabric is welded u/catalog/standards/sist/f7217c57-0d7b-43ba-af68-12c53e127c8a/iso-6935-3

Note 1 to entry: For the purposes of this document, the term "wire" also includes bars within the size range specified in 4.1.1.

4 Form and dimensions

4.1 General requirements

4.1.1 The fabric shall be made of either

- cold-reduced wires with nominal diameters in the range from 4 mm to 18 mm and with mass and geometry complyingin accordance with ISO 10544,
- plain bars with nominal diameters of 6 mm to 18 mm (recommended: 6 mm, 8 mm, 10 mm and 12 mm, 18 mm plain bars may be used by agreement between the manufacturer and purchaser) and with mass <u>complyingin accordance</u> with ISO 6935-1, or

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