INTERNATIONAL STANDARD

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Steel for the reinforcement of concrete — Determination of strength of joints in welded fabric

Acier à béton pour armatures passives — Détermination de la résistance des joints des treillis soudés

INTERNATIONAL ISO

Reference number
ISO 10287:1992(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10287 was prepared by Technical Committee ISO/TC 17, *Steel*, Sub-Committee SC 16, *Steels for the reinforcement and prestressing of concrete*.

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Steel for the reinforcement of concrete — Determination of strength of joints in welded fabric

1 Scope

This International Standard specifies a test method for determining the strength of welded joints in welded fabric for the reinforcement of concrete structures.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7500-1:1986, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tensile testing machines.*

3 Apparatus

3.1 Tensile testing machine, verified according to ISO 7500-1, class 1.

3.2 Holder, with support; The width of the slot shall be not more than 1 mm larger than the outer diameter of the pulling wire of the test piece. Figure 1 shows an example of a holder with a test piece. Holders of types other than that shown in figure 1 may be used, for example types preventing rotation of the crossing wire.

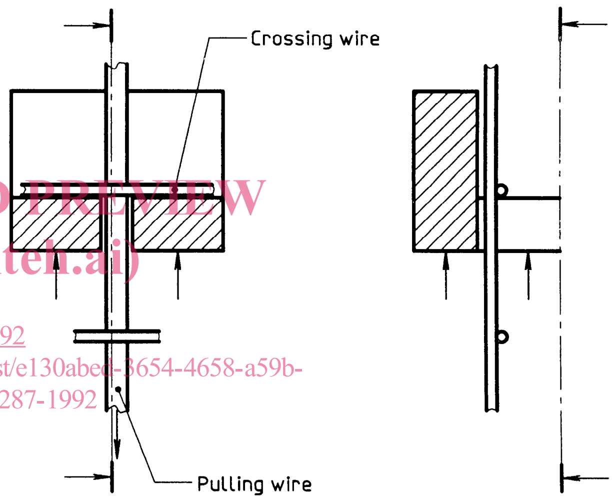

Figure 1 — Example of a holder with a test piece

4 Test piece

The test piece shall be cut from the welded fabric. Each test piece shall contain at least one welded joint. The dimensions and direction of the pulling wire shall be as specified in the product standard, unless otherwise agreed.

5 Procedure

The test piece is placed and centred so that the pulling wire can move freely as shown in figure 1. The free end of the pulling wire shall be supported in such a way that it will not bend during the test. The rate of stress increase in the pulling wire shall not exceed 10 MPa/s. The maximum force, in newtons, during the test and the location of the fracture shall be recorded.

6 Test report

The test report shall include the following information:

a) reference to this International Standard;

b) identification of the test piece;

c) dimensions and orientation of the test piece;

d) date of testing;

e) the maximum force, in newtons, for each test piece;

f) location of the fracture.

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Descriptors: concrete, reinforced concrete, reinforcing steels, steel products, welded wire lattice, joints, welded joints, tests, determination, mechanical strength.

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