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Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars —

Part 3: Conformity assessment scheme

Aciers pour l'armature du béton — Couplers d'armature destines aux raboutages mécanique de barre —

Partie 3: Système particulier d'évaluation de la conformité

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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.

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 documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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*.

A list of all the parts in the ISO 15835 series can be found on the ISO website.

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 www.iso.org/members.html.

Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars —

Part 3:
Conformity assessment scheme

1 Scope

This document specifies rules for the certification and for the self-evaluation of couplers to be used for the mechanical splicing of steel reinforcing bars.

It includes requirements for the control of the manufacturing process of the couplers and for the verification of their conformity in the form of mechanical splices.

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 2859-1:1999, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 15835-1:—[1)], *Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars — Part 1: Requirements*

ISO 16020, *Steel for the reinforcement and prestressing of concrete — Vocabulary*

ISO/IEC 17000, *Conformity assessment — Vocabulary and general principles*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

ISO/IEC 17050, *Conformity assessment — Supplier's declaration of conformity*

ISO/IEC 17065, *Conformity assessment — Requirements for bodies certifying products, processes and services*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15835-1, ISO 16020, ISO/IEC 17000 and the following apply.

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

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

— IEC Electropedia: available at http://www.electropedia.org/

1) Under preparation.

3.1
splice system
mechanical splice using a specific technology and made by the same manufacturer

Note 1 to entry: A splice system may include several *splice types* (3.2).

3.2
splice type
mechanical splices from the same *splice system* (3.1), of the same generic design, designed for the same purpose and existing in different sizes suitable for specific bar diameters

4 Evaluation of conformity

Evaluation of the compliance of the products to the requirements of ISO 15835-1 may be done by one of the following methods.

— Product certification, described in Clause 5, is made by a certification body who inspects the manufacturing facility and collects test samples at regular periods.

— Verification of lots, described in Clause 6, is made by agreement between the supplier and the purchaser, and involves only testing of the exact lot that is going to be delivered to the purchaser.

5 System for certification

5.1 General

The purpose of this clause is to provide rules for the product certification of couplers in accordance with ISO/IEC 17065.

The certification is based on qualification testing and surveillance by the certification body, and on factory production control by the manufacturer. Qualification and surveillance audits shall be performed by the certification body at each manufacturing location listed in the certificate.

The manufacturer of the couplers shall implement a quality management system certified by a certification body; for example, ISO 9001.

Qualification testing shall be conducted whenever there is a change in material properties, geometry or manufacturing technology.

5.2 Documentation and user information

For each type of coupler, the manufacturer shall maintain a file of data sheets with which the coupler shall comply. If various types are very similar and use identical components, the certification body may decide not to test all of them.

The supplier shall present detailed information to the purchaser on how to prepare the ends of the reinforcing bars to be spliced, the tools and equipment to be used, and the instructions to be followed.

Written instructions for the final installation of the mechanical splice at the construction site shall be made available to the purchaser and to the testing laboratory.

5.3 Qualification testing

To assess that the couplers conform to the requirements of ISO 15835-1:—, Clause 5, qualification testing shall be performed on samples which reflect the scope of the products to be certified.

For each splice system, samples shall be randomly taken from the production line or from the manufacturer's inventory in accordance with Table 1.