

STN	Oceľ na výstuž a predpínanie betónu Skúšobné metódy Časť 3: Predpínacia oceľ (ISO 15630-3: 2019, opravená verzia 2019-10)	STN EN ISO 15630-3 42 1040
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Steel for the reinforcement and prestressing of concrete - Test methods - Part 3: Prestressing steel (ISO 15630-3:2019, Corrected version 2019-10)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/20

Obsahuje: EN ISO 15630-3:2019, ISO 15630-3 Corrected version 2019-10:2019

Oznámením tejto normy sa ruší
STN EN ISO 15630-3 (42 1040) zo septembra 2019

130853

EUROPEAN STANDARD

EN ISO 15630-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 77.140.15

Supersedes EN ISO 15630-3:2010

English Version

**Steel for the reinforcement and prestressing of concrete -
Test methods - Part 3: Prestressing steel (ISO 15630-
3:2019, Corrected version 2019-10)**

Aciers pour l'armature et la précontrainte du béton -
Méthodes d'essai - Partie 3: Aciers de précontrainte
(ISO 15630-3:2019, Version corrigée 2019-10)

Stähle für die Bewehrung und das Vorspannen von
Beton - Prüfverfahren - Teil 3: Spannstähle (ISO 15630-
3:2019, korrigierte Fassung 2019-10)

This European Standard was approved by CEN on 26 November 2018.

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 30 October 2019.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 15630-3:2019 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 15630-3:2019) has been prepared by Technical Committee ISO/TC 17 "Steel" in collaboration with Technical Committee CEN/TC 459/SC 4 "Concrete reinforcing and prestressing steels" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 15630-3:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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Endorsement notice

The text of ISO 15630-3:2019, Corrected version 2019-10 has been approved by CEN as EN ISO 15630-3:2019 without any modification.

INTERNATIONAL STANDARD

ISO 15630-3

Third edition
2019-02

Corrected version
2019-10

Steel for the reinforcement and prestressing of concrete — Test methods —

Part 3: Prestressing steel

*Aciers pour l'armature et la précontrainte du béton — Méthodes
d'essai —*

Partie 3: Aciers de précontrainte



Reference number
ISO 15630-3:2019(E)

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CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
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Published in Switzerland

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and symbols	1
4 General provisions concerning test pieces	3
5 Tensile test	4
5.1 Test piece	4
5.2 Test equipment.....	4
5.3 Test procedure.....	4
5.3.1 General.....	4
5.3.2 Determination of the modulus of elasticity	5
6 Bend test	6
6.1 Test piece	6
6.2 Test equipment.....	6
6.3 Test procedure.....	6
6.4 Interpretation of test results.....	7
7 Reverse bend test	7
7.1 Test piece	7
7.2 Test equipment.....	7
7.3 Test procedure.....	8
8 Wrapping test	8
8.1 Test piece	8
8.2 Test equipment.....	8
8.3 Test procedure.....	8
9 Isothermal stress relaxation test	9
9.1 Principle of test.....	9
9.2 Test piece	9
9.3 Test equipment.....	10
9.3.1 Frame.....	10
9.3.2 Force-measuring device	10
9.3.3 Length-measuring device (extensometer).....	10
9.3.4 Anchoring device.....	10
9.3.5 Loading device.....	10
9.4 Test procedure.....	10
9.4.1 Provisions concerning the test piece.....	10
9.4.2 Application of force	10
9.4.3 Initial force.....	11
9.4.4 Force during the test.....	11
9.4.5 Maintenance of strain.....	11
9.4.6 Temperature	12
9.4.7 Frequency of force recording.....	12
9.4.8 Frequency of strain recording.....	12
9.4.9 Duration of the test.....	12
10 Axial force fatigue test	12
10.1 Principle of test.....	12
10.2 Test piece	13
10.3 Test equipment.....	13
10.4 Test procedure.....	13
10.4.1 Provisions concerning the test piece.....	13

ISO 15630-3:2019(E)

10.4.2	Stability of force and frequency.....	13
10.4.3	Counting of force cycles.....	14
10.4.4	Frequency.....	14
10.4.5	Temperature.....	14
10.4.6	Validity of the test.....	14
11	Stress corrosion test in a solution of thiocyanate.....	14
11.1	Principle of test.....	14
11.2	Sample and test piece.....	14
11.3	Test equipment.....	14
11.3.1	Frame.....	14
11.3.2	Force-measuring device.....	14
11.3.3	Time-measuring device.....	15
11.3.4	Test cell containing the test solution.....	15
11.3.5	Test solution.....	15
11.4	Test procedure.....	16
11.4.1	Provisions concerning the test pieces.....	16
11.4.2	Application and maintenance of force.....	16
11.4.3	Filling of the test cell.....	16
11.4.4	Temperature during the test.....	16
11.4.5	Termination of the test.....	16
11.4.6	Determination of median lifetime to fracture.....	16
12	Deflected tensile test.....	17
12.1	Principle of test.....	17
12.2	Sample and test pieces.....	17
12.3	Test equipment.....	17
12.3.1	General description.....	17
12.3.2	Dimensions.....	17
12.3.3	Anchorage.....	18
12.3.4	Mandrel.....	18
12.3.5	Loading device.....	20
12.4	Test procedure.....	20
13	Chemical analysis.....	20
14	Measurement of the geometrical characteristics.....	20
14.1	Test piece.....	20
14.2	Test equipment.....	21
14.3	Test procedures.....	21
14.3.1	Rib measurements.....	21
14.3.2	Indentation measurements.....	22
14.3.3	Lay length of strand (<i>P</i>).....	22
14.3.4	Straightness.....	22
15	Determination of the relative rib area (f_R).....	23
15.1	General.....	23
15.2	Calculation of f_R	23
15.2.1	Relative rib area.....	23
15.2.2	Simplified formulae.....	23
15.2.3	Formula used for the calculation of f_R	25
16	Determination of deviation from nominal mass per metre.....	25
16.1	Test piece.....	25
16.2	Accuracy of measurement.....	25
16.3	Test procedure.....	26
17	Test report.....	26
Annex A (informative) Options for agreement between the parties involved.....		27
Bibliography.....		28

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).

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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 ISO/TC 17, *Steel*, Subcommittee SC 16, *Steels for the reinforcement and prestressing of concrete*.

This third edition cancels and replaces the second edition (ISO 15630-3:2010), which has been technically revised. Changes have been introduced in the Introduction, [Clauses 1](#) and [2](#), [5.3.1](#), [5.3.2](#), 9.3, 9.4.4, 10.4.3, 11.4 (now [10.3](#), [10.4.4](#), [11.4.3](#), [12.4](#)) and [Figure 8](#). The Bibliography has been updated and the dated references have been replaced by undated references. A new [Clause 8](#) on the wrapping test has been added.

A list of all parts in the ISO 15360 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.

This corrected version of ISO 15630-3:2019 incorporates the following corrections:

- in [Figure 8](#), $60^\circ \pm 12^\circ$ has been corrected to $60^\circ \pm 12'$.

ISO 15630-3:2019(E)**Introduction**

The aim of ISO 15630 (all parts) is to provide all relevant test methods for reinforcing and prestressing steels in one standard series.

This document covers standard test methods, as well as specialized test methods that are not commonly used in routine testing and that should only be considered where relevant (or specified) in the applicable product standard.

Reference is made to International Standards on the testing of metals, in general, as they are applicable. Complementary provisions have been given if needed.

Steel for the reinforcement and prestressing of concrete — Test methods —

Part 3: Prestressing steel

1 Scope

This document specifies test methods applicable to prestressing steel (bar, wire or strand) for concrete.

This document does not cover the sampling conditions that are dealt with in the product standards.

A list of options for agreement between the parties involved is provided in [Annex A](#).

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 4957, *Tool steels*

ISO 4965-1, *Metallic materials — Dynamic force calibration for uniaxial fatigue testing — Part 1: Testing systems*

ISO 4965-2, *Metallic materials — Dynamic force calibration for uniaxial fatigue testing — Part 2: Dynamic calibration device (DCD) instrumentation*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

ISO 7801, *Metallic materials — Wire — Reverse bend test*

ISO 7802, *Metallic materials — Wire — Wrapping test*

ISO 9513, *Metallic materials — Calibration of extensometer systems used in uniaxial testing*

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

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