



SLOVENSKI STANDARD
SIST EN 61061-2:2002

01-oktober-2002

Specification for non-impregnated, densified laminated wood for electrical purposes - Part 2: Methods of test (IEC 61061-2:1992)

Specification for non-impregnated, densified laminated wood for electrical purposes -- Part 2: Methods of test

Nicht-imprägniertes Kunstharzpreßholz für elektrotechnische Zwecke -- Teil 2: Prüfverfahren

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Spécification pour stratifiés de bois densifié, non imprégnés, à usages électriques -- Partie 2: Méthodes d'essai

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Ta slovenski standard je istoveten z: EN 61061-2:2001

ICS:

29.035.99 Drugi izolacijski materiali Other insulating materials

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en

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EUROPEAN STANDARD

EN 61061-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2001

ICS 17.220.99; 29.035.01

English version

**Specification for non-impregnated,
densified laminated wood for electrical purposes
Part 2: Methods of test
(IEC 61061-2:1992)**

Spécification pour stratifiés de bois
densifié, non imprégnés,
à usages électriques
Partie 2: Méthodes d'essai
(CEI 61061-2:1992)

Nicht-imprägniertes Kunstharzpreßholz
für elektrotechnische Zwecke
Teil 2: Prüfverfahren
(IEC 61061-2:1992)

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This European Standard was approved by CENELEC on 2001-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 61061-2:2001, prepared by IEC TC 15, Insulating materials, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 61061-2 on 2001-09-25 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2002-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-09-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61061-2:2001 was approved by CENELEC as a European Standard without any modification.

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SIST EN 61061-2:2002

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60243-1 (mod)	1988	Methods of test for electric strength of solid insulating materials Part 1: Tests at power frequencies	HD 559.1 S1 ¹⁾	1991
IEC 60247	1978	Measurement of relative permittivity, dielectric dissipation factor and d.c. resistivity of insulating liquids	-	-
IEC 60250	1969	Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths	-	-
IEC 60296	1982	Specification for unused mineral insulating oils for transformers and switchgear	-	-
ISO 178	1975 ²⁾	Plastics - Determination of flexural properties of rigid plastics	-	-
ISO 179	1982 ³⁾	Plastics - Determination of Charpy impact strength of rigid materials	-	-

1) HD 559.1 S1:1991 is superseded by EN 60243-1:1998, which is based on IEC 60243-1:1988.

2) ISO 178:1993 is harmonized as EN ISO 178:1996.

3) ISO 179:1993 is harmonized as EN ISO 179:1996.

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61061-2

Edition 1.1

2001-10

Edition 1:1992 consolidée par l'amendement 1:2001
Edition 1:1992 consolidated with amendment 1:2001

**Spécification pour stratifiés de bois densifié,
non imprégnés, à usages électriques –**

**Partie 2:
Méthodes d'essai**

iTeh STANDARD PREVIEW

**(standards.iteh.ai)
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laminated wood for electrical purposes –**

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**Part 2:
Methods of test**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE **CC**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATION FOR NON-IMPREGNATED,
DENSIFIED LAMINATED WOOD FOR ELECTRICAL PURPOSES –**
Part 2: Methods of test

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

This part of International Standard IEC 61061 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

This consolidated version of IEC 61061-2 consists of the first edition (1992) [documents 15C(CO)276 and 15C(CO)302], and its amendment 1 (2001) [documents 15C/1204/FDIS and 15C/1239/RVD].

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 1.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2004. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

INTRODUCTION

This International Standard is one of a series which deals with non-impregnated densified laminated wood for electrical purposes.

The series consists of three parts:

Part 1: Definitions, designation and general requirements (IEC 61061-1).

Part 2: Methods of test (IEC 61061-2).

Part 3: Specifications for individual materials (IEC 61061-3).

This part specifies the method of test.

NOTE The numbering of clauses is the same for non-impregnated densified laminated wood, laminated pressboard and industrial rigid laminated sheets. For this reason, some tests are mentioned but they are not applicable.

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SPECIFICATION FOR NON-IMPREGNATED, DENSIFIED LAMINATED WOOD FOR ELECTRICAL PURPOSES –

Part 2: Methods of test

1 Scope

This International Standard gives methods of test for the materials defined in part 1 (IEC 61061-1).

Not all the following methods of test will be required for inclusion in all the sheets of part 3 (IEC 61061-3).

2 Normative references

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

IEC 60243-1:1988, *Methods of test for electric strength of solid insulating materials – Part 1: Tests at power frequencies*

[SIST EN 61061-2:2002](https://standards.iteh.ai/catalog/standards/sist/7e8a112e-0535-47b0-baba-2022/iec-60243-1-1988)

[https://standards.iteh.ai/catalog/standards/sist/7e8a112e-0535-47b0-baba-](https://standards.iteh.ai/catalog/standards/sist/7e8a112e-0535-47b0-baba-2022/iec-60243-1-1988)

IEC 60247:1978, *Measurement of relative permittivity, dielectric dissipation factor and d.c. resistivity of insulating liquids*

IEC 60250:1969, *Recommended methods for the determination of the permittivity and dielectric dissipation factor of electrical insulating materials at power, audio and radio frequencies including metre wavelengths*

IEC 60296:1982, *Specification for unused mineral insulating oils for transformers and switchgear*

ISO 178:1975, *Plastics – Determination of flexural properties of rigid plastics*

ISO 179:1982, *Plastics – Determination of Charpy impact strength of rigid materials*

3 Conditioning of test specimens

When conditioning in accordance with this clause is specified in the test method, test specimens of the specified form shall be conditioned at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \%$ relative humidity, and then tested either under these conditions or within 3 min of removal from them. The conditioning period shall be not less than seven days. In case of dispute, the conditioning shall be approached from the dry side after drying at $70 ^\circ\text{C}$ for a period sufficient to ensure that the conditioning produces a gain in weight of the test specimens. The subsequent conditioning at $23 ^\circ\text{C} \pm 2 ^\circ\text{C}$ and $(50 \pm 5) \%$ relative humidity shall have a duration of 240 h for all thicknesses.