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**Izolacijski materiali - Industrijske toge laminirane plošče iz smol s toplotnim utrjevanjem za električne namene - 3-1. del: Specifikacije za posamezne materiale - Zahteve za tipe industrijskih togih laminiranih plošč (IEC 60893-3-1:2003)**

Insulating materials - Industrial rigid laminated sheets based on thermosetting resins for electrical purposes - Part 3-1: Specifications for individual materials - Requirements for types of industrial rigid laminated sheets (IEC 60893-3-1:2003)

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English version

**Insulating materials –  
Industrial rigid laminated sheets  
based on thermosetting resins for electrical purposes  
Part 3-1: Specifications for individual materials –  
Requirements for types of industrial rigid laminated sheets  
(IEC 60893-3-1:2003)**

Matériaux isolants –  
Stratifiés industriels rigides en planches  
à base de résines thermodurcissables  
à usages électriques  
Partie 3-1: Spécifications pour matériaux  
particuliers –  
Prescriptions pour types de stratifiés  
industriels en planches  
(CEI 60893-3-1:2003)

Isolierstoffe –  
Tafeln aus technischen Schichtpress-  
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Harze für elektrotechnische Zwecke  
Teil 3-1: Bestimmungen für einzelne  
Werkstoffe –  
Anforderungen für Typen von Tafeln  
aus technischen Schichtpressstoffen  
(IEC 60893-3-1:2003)

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## 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 document 15C/1521/FDIS, future edition 2 of IEC 60893-3-1, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60893-3-1 on 2003-12-01.

This European Standard supersedes EN 60893-3-1:1994 + A1:1997.

In this revision of the EN 60893 series of specifications, new material types have been included, changes have been made to the property requirements of some existing types, a new method for testing permittivity and dissipation factor has been added, and all non-specification data for each type has been moved to a new Part 4 document – IEC/TR 60893-4: Typical values.

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) 2004-09-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2006-12-01

Annex ZA has been added by CENELEC.

## iTeh STANDARD PREVIEW (standards.iteh.ai) Endorsement notice

[SIST EN 60893-3-1:2004](#)

The text of the International Standard IEC 60893-3-1:2003 was approved by CENELEC as a European Standard without any modification. [http://standards.iteh.ai/catalog/standards/sist-en-60893-3-1-2004](#)

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60893-3 NOTE Harmonized in EN 60893-3 series (not modified).

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

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 60893-1	- <sup>1)</sup>	Insulating materials - Industrial rigid laminated sheets based on thermosetting resins for electrical purposes Part 1: Definitions, designations and general requirements	EN 60893-1	- <sup>1)</sup>
IEC 60893-2	- <sup>2)</sup>	Part 2: Methods of test	EN 60893-2	- <sup>1)</sup>

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1) To be published.

2) Undated reference.

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC

60893-3-1

Deuxième édition  
Second edition  
2003-11

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**Matériaux isolants –  
Stratifiés industriels rigides en planches  
à base de résines thermodurcissables  
à usages électriques –**

**Partie 3-1:  
Spécifications pour matériaux particuliers –  
Prescriptions pour types de stratifiés  
industriels en planches**

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**Insulating materials –  
Industrial rigid laminated sheets based on  
thermosetting resins for electrical purposes –**

**Part 3-1:  
Specifications for individual materials –  
Requirements for types of industrial  
rigid laminated sheets**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INSULATING MATERIALS –  
INDUSTRIAL RIGID LAMINATED SHEETS  
BASED ON THERMOSETTING RESINS FOR ELECTRICAL PURPOSES –****Part 3-1: Specifications for individual materials –  
Requirements for types of industrial rigid laminated sheets**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60893-3-1 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

This second edition cancels and replaces the first edition, published in 1992, and its amendment 1 (1996) and constitutes a technical revision.

In this revision of the IEC 60893 series of specifications, new material types have been included, changes have been made to the property requirements of some existing types, a new method for testing permittivity and dissipation factor has been added, and all non-specification data for each type has been moved to a new Part 4 document – IEC 60893-4: Typical values.