
Specification for industrial rigid laminated sheets based on thermosetting resins for electrical purposes - Part 3: Specifications for individual materials - Sheet 4: Requirements for rigid laminated sheets based on phenolic resins (IEC 60893-3-4:1993)

Specification for industrial rigid laminated sheets based on thermosetting resins for electrical purposes -- Part 3: Specifications for individual materials -- Sheet 4: Requirements for rigid laminated sheets based on phenolic resins

iTeh STANDARD PREVIEW

Bestimmung für Tafeln aus technischen Schichtpressstoffen auf der Basis wärmehärtbarer Harze für elektrotechnische Zwecke -- Teil 3: Bestimmungen für einzelne Werkstoffe -- Blatt 4: Anforderungen für Schichtpressstofftafeltypen auf der Basis von Phenolharz

<https://standards.iteh.ai/catalog/standards/sist/eacfa275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>

Spécification pour les stratifiés industriels rigides en planches à base de résines thermodurcissables à usages électriques -- Partie 3: Spécifications pour matériaux particuliers -- Feuille 4: Prescriptions pour les stratifiés rigides en planches à base de résine phénolique

Ta slovenski standard je istoveten z: EN 60893-3-4:1995

ICS:

29.035.01	Izolacijski materiali na splošno	Insulating materials in general
-----------	----------------------------------	---------------------------------

SIST EN 60893-3-4:1998	en
-------------------------------	-----------

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60893-3-4:1998

<https://standards.iteh.ai/catalog/standards/sist/eaefa275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>

EUROPEAN STANDARD

EN 60893-3-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1995

ICS 29.040.20

Descriptors: Electrical insulating material, solid electrical insulating material, laminates, thermosetting resins, phenoplasts, designation, specification, dimensional tolerances, thickness, characteristics, tables(data)

English version

**Specification for industrial rigid laminated sheets based on
thermosetting resins for electrical purposes
Part 3: Specifications for individual materials
Sheet 4: Requirements for rigid laminated sheets based on
phenolic resins
(IEC 893-3-4:1993)**

Spécification pour les stratifiés
industriels rigides en planches à base de
résines thermodurcissables à usages
électriques

Partie 3: Spécifications pour matériaux
particuliers

Feuille 4: Prescriptions pour les stratifiés
rigides en planches à base de résine
phénolique
(CEI 893-3-4:1993)

Bestimmung für Tafeln aus technischen
Schichtpreßstoffen auf der Basis
wärmehärtbarer Harze für
elektrotechnische Zwecke

Teil 3: Bestimmungen für einzelne
Werkstoffe

Blatt 4: Anforderungen für
Schichtpreßstofftafeltypen auf der Basis
von Phenolharz
(IEC 893-3-4:1993)

This European Standard was approved by CENELEC on 1994-12-06. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, 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 893-3-4:1993, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the formal vote and was approved by CENELEC as EN 60893-3-4 on 1994-12-06 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) 1995-12-15
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1995-12-15

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 893-3-4:1993 was approved by CENELEC as a European Standard without any modification.

(standards.iteh.ai)

SIST EN 60893-3-4:1998

<https://standards.iteh.ai/catalog/standards/sist/eaefa275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>



ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT 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.

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

IEC Publication	Date	Title	EN/HD	Date
249	series	Base materials for printed circuits	EN 60249	series
893-1	1987	Specification for industrial rigid laminated sheets based on thermosetting resins for electrical purposes Part 1: Definitions, designations and general requirements	EN 60893-1	1994
893-2	1992	Part 2: Methods of test	EN 60893-2	1994

SIST EN 60893-3-4:1998

Other publication: <https://standards.iteh.ai/catalog/standards/sist/eaf6a275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>

ISO 1642:1987 - Plastics - Industrial laminated sheets based on thermosetting resins - Specification

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60893-3-4:1998

<https://standards.iteh.ai/catalog/standards/sist/eaefa275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC
893-3-4**

Première édition
First edition
1993-03

**Spécification pour les stratifiés industriels
rigides en planches à base de résines
thermodurcissables à usages électriques**

Partie 3:

**Spécifications pour matériaux particuliers –
Feuille 4: Prescriptions pour les stratifiés rigides
en planches à base de résine phénolique**

<https://standards.iteh.ai/catalog/standards/sist/eacf5a275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>

**Specification for industrial rigid laminated sheets
based on thermosetting resins
for electrical purposes**

Part 3:

**Specifications for individual materials –
Sheet 4: Requirements for rigid laminated sheets
based on phenolic resins**

© CEI 1993 Droits de reproduction réservés — Copyright — all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembe Genève, Suisse



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

L

Pour prix, voir catalogue en vigueur
For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATION FOR INDUSTRIAL RIGID LAMINATED SHEETS
BASED ON THERMOSETTING RESINS
FOR ELECTRICAL PURPOSES**

**Part 3: Specifications for individual materials –
Sheet 4: Requirements for rigid laminated sheets
based on phenolic resins**

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 cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

This International Standard has been prepared by Sub-Committee 15C: Specifications, of IEC Technical Committee No. 15: Insulating materials.

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
15C(CO)266	15C(CO)315

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

INTRODUCTION

This International Standard is one of a series which deals with industrial rigid laminated sheets based on thermosetting resins for electrical purposes.

Insofar as technical considerations permit, this standard repeats (recapitulates) a classification of laminates similar to that of ISO 1642.

The series consists of three parts:

- Part 1: Definitions, designations and general requirements (IEC 893-1).
- Part 2: Methods of test (IEC 893-2).
- Part 3: Specifications for individual materials (IEC 893-3).

This standard contains one of the sheets comprising part 3, as follows:

Sheet 4: Requirements for rigid laminated sheets based on phenolic resins.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60893-3-4:1998

<https://standards.iteh.ai/catalog/standards/sist/eacfa275-99c4-4d23-8ba8-97f8bdb18fa5/sist-en-60893-3-4-1998>