



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60832:1999

ICS 13.260
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**INSULATING POLES (INSULATING STICKS)
AND UNIVERSAL TOOL ATTACHMENTS
(FITTINGS) FOR LIVE WORKING
(IEC 832:1988, MODIFIED)**

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60832

June 1996

ICS 13.340.20

Supersedes HD 542 S1:1990

Descriptors: Live working, electrical equipment, insulating tube, tool, characteristic, test, interchangeability

English version

**Insulating poles (insulating sticks) and universal tool attachments
(fittings) for live working
(IEC 832:1988, modified)**

Perches isolantes et outils adaptables
pour travaux sous tension
(CEI 832:1988, modifiée)

Isolierende Arbeitsstangen und
zugehörige Arbeitsköpfe zum Arbeiten
unter Spannung
(IEC 832:1988, modifiziert)

This European Standard was approved by CENELEC on 1996-03-05. 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 832:1988, prepared by IEC TC 78, Tools for live working, was approved by CENELEC as HD 542 S1 on 1989-11-01.

This Harmonization Document, together with common modifications prepared by the Technical Committee CENELEC TC 78, was submitted to the formal vote and was approved by CENELEC as EN 60832 on 1996-03-05.

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) 1997-03-01
- latest date by which national standards
conflicting with the EN have to be withdrawn (dow) 1997-03-01

For products which have complied with HD 542 S1:1990 before 1997-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2002-03-01.

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given only for information.

In this standard, annex A is informative, annexes B to E and annex ZA are normative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 832:1988 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

CONTENTS

Replace "Section Three - Sampling and routine tests" by:

Section Three - Routine tests, Quality assurance plan and Acceptance tests

Replace "24 Sampling tests" by:

24 Quality assurance plan and acceptance tests

Replace "Section Six - Sampling and routine tests" by:

Section Six - Routine tests, Quality assurance plan and Acceptance tests

Replace "62 Sampling tests" by:

62 Quality assurance plan and acceptance tests

Replace "Appendix" by "Annex"

Add (informative) after Annex A.

Add (normative) after Annex B, Annex C, Annex D and Annex E.

24 Sampling tests

Replace the entire clause by:

24 Quality Assurance plan and acceptance tests

24.1 *General*

In order to assure the delivery of products that meet this standard, the manufacturer shall employ an approved quality assurance plan that complies with the provisions of the ISO 9000 series.

The quality assurance plan shall ascertain that the products meet the requirements contained in this standard.

In the absence of an accepted quality assurance plan as specified above the sampling tests contained in 24.2 shall be carried out.

24.2 Sampling tests

After agreement between the manufacturer and the customer all the type tests described above, or only some of them, shall be carried out again as sampling tests. They shall be made under the responsibility of the manufacturer who shall make the results available to the customer.

Sampling tests shall be carried out only for lots made of more than 90 tools. For lots made of 90 tools or less, sampling tests shall be replaced by acceptance tests (see annex A) at the request of the customer.

The sampling plan and the acceptable quality level shall be as in table IX.

Table IX - Sampling plan

Lot or batch size	Sample size	Acceptance number	Rejection number
91 to 150	8	0	1
151 to 500	13	1	2
501 to 1 200	20	1	2
1 201 to 10 000	32	2	3

The tools tested at more than 125 % of a rated value given by the manufacturer shall not be re-used.

24.3 Acceptance tests

If the customer requests from the manufacturer additional requirements and tests, the manufacturer shall keep all additional test results for inspection by the customer (see annex A).

62 Sampling tests

Replace the entire clause by:

62 Quality assurance plan and acceptance tests

62.1 General

In order to assure the delivery of products that meet this standard, the manufacturer shall employ an approved quality assurance plan that complies with the provisions of the ISO 9000 series.

The quality assurance plan shall ascertain that the products meet the requirements contained in this standard.

In the absence of an accepted quality assurance plan as specified above the sampling tests contained in 62.2 shall be carried out.

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