



NSAI
Standards

Irish Standard
I.S. EN 50164-7:2008

Lightning Protection Components (LPC) - Part 7: Requirements for earthing enhancing compounds

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I.S. EN 50164-7:2008

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EUROPEAN STANDARD
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EN 50164-7

August 2008

ICS 91.120.40

English version

**Lightning Protection Components (LPC) -
Part 7: Requirements for earthing enhancing compounds**

Composants de protection
contre la foudre (CPF) -
Partie 7: Prescriptions
pour les enrichisseurs de terre

Blitzschutzbauteile -
Teil 7: Anforderungen an Mittel
zur Verbesserung der Erdung

This European Standard was approved by CENELEC on 2008-04-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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

This European Standard was prepared by the Technical Committee CENELEC TC 81X, Lightning protection.

The text of the draft was submitted to the Unique Acceptance procedure and was approved by CENELEC as EN 50164-7 on 2008-04-01.

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) 2009-04-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2011-04-01

EN 50164 is a family standard and consists of the following parts under the generic title “*Lightning Protection Components (LPC)*”:

Part 1	Requirements for connection components
Part 2	Requirements for conductors and earth electrodes
Part 3	Requirements for isolating spark gaps
Part 4	Requirements for conductor fasteners
Part 5 ¹⁾	Requirements for earth electrode inspection housings and earth electrode seals
Part 6 ¹⁾	Requirements for lightning strike counters
Part 7	Requirements for earthing enhancing compounds

¹⁾ In preparation.

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1 Scope

This European Standard specifies the requirements and tests for

- earthing enhancing compounds increasing the contact surface area of the earth electrode.

NOTE Refill products are not within the scope of this European Standard.

2 Normative references

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.

EN 62305-1	Protection against lightning – Part 1: General principles (IEC 62305-1)
EN 62305-3	Protection against lightning – Part 3: Physical damage to structures and life hazard (IEC 62305-3, mod.)
EN 62305-4	Protection against lightning – Part 4: Electrical and electronic systems within structures (IEC 62305-4)
EN 12457-2	Characterization of waste – Leaching – Compliance test for leaching of granular waste materials and sludges – Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)
EN 12506	Characterization of waste – Analysis of eluates – Determination of pH, As, Ba, Cd, Cl ⁻ , Co, Cr, Cr VI, Cu, Mo, Ni, NO ²⁻ , Pb, total S, SO ₄ ²⁻ , V and Zn
ISO 4689-3 2004	Iron ores – Determination of sulfur content – Part 3: Combustion/infrared method

3 Definitions

For the purposes of this document, the following terms and definitions apply.

3.1

earthing enhancing compound

compound improving the contact surface of the earth electrode without damaging the electrodes or polluting the environment

3.2

manufacturer's, supplier's instructions

written instructions provided by the manufacturer or the supplier in his documentation (see 4.1)

3.3

leaching test

test during which is put into contact with a leachant and some constituents of the material are extracted

4 Requirements

Earthing enhancing compounds shall be so designed and constructed that in normal use their performance is reliable and without danger to persons and the surrounding.

The choice of a material depends on its ability to match the particular application requirements.

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