

**Lightning Protection System Components (LPSC) -
Part 4: Requirements for conductor fasteners**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 62561-4:2011 sisaldab Euroopa standardi EN 62561-4:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.03.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 04.03.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 62561-4:2011 consists of the English text of the European standard EN 62561-4:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 04.03.2011.

The standard is available from Estonian standardisation organisation.

ICS 29.020, 91.120.40

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**Lightning protection system components (LPSC) -
Part 4: Requirements for conductor fasteners**
(IEC 62561-4:2010, modified)

Composants de système de protection
contre la foudre (CSPF) -
Partie 4: Exigences pour les fixations de
conducteur
(CEI 62561-4:2010, modifiée)

Blitzschutzsystembauteile (LPSC) -
Teil 4: Anforderungen an Leitungshalter
(IEC 62561-4:2010, modifiziert)

This European Standard was approved by CENELEC on 2011-02-21. 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.

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, 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

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Foreword

The text of the International Standard IEC 62561-4:2010, prepared by IEC TC 81, Lightning protection, together with common modifications prepared by the Technical Committee CENELEC TC 81X, Lightning protection, was submitted to the formal vote and was approved by CENELEC as EN 62561-4 on 2011-02-21.

This European Standard supersedes EN 50164-4:2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) | 2012-02-21 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2014-02-21 |

Endorsement notice

The text of the International Standard IEC 62561-4:2010 was approved by CENELEC as a European Standard with agreed common modifications as given below.

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

IEC 62305-1:2006 NOTE Harmonized as en 62305-1:2006 (not modified).

COMMON MODIFICATIONS

Through the complete document:

Replace all IEC 62305 references by EN 62305.

Replace all IEC 62561 references by EN 62561.

2 Normative references

Replace the first six references to IEC standards with the following:

EN 60068-2-52:1996, *Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)* (IEC 60068-2-52:1996)

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)

EN 62305-4, *Protection against lightning – Part 4: Electrical and electronic systems within the structure* (IEC 62305-4)

EN ISO 4892-2:2006, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps* (ISO 4892-2:2006)

EN ISO 6988:1994, *Metallic and other non-organic coatings – Sulfur dioxide test with general condensation of moisture* (ISO 6988:1985)

Subclause 6.3.1

Delete at the end of the 1st paragraph the word “fastening” after “... for screwed...”.

Subclause 6.3.2

Delete at the end of the 1st paragraph the word “fastening” after “... for screwed...”.

Subclause 6.3.3

Delete at the end of the 1st paragraph the word “fastening” after “... for screwed...”.

Replace the 3rd paragraph by the paragraph:

“The specimens are deemed to have passed this part of the test if the conductor or metal parts of the conductor fastener do not exhibit any corrosive deterioration and if its plastic parts show no sign of disintegration and no cracks visible to normal or corrected vision.”

Subclause 8.1

Add in the 1st line of the clause after “...general requirements for type test reports issued by the ...”.

Delete “...test reports.” at the end of the sentence.

Annex A

Clause A.1

Replace “ISO 60068-2-52:1996” by “EN 60068-2-52:1996”.

In the NOTE **replace** “ISO 60068-2-52:1996” by “EN 60068-2-52:1996”.

Clause A.2

Replace “ISO 6988:1985” by “EN ISO 6988:1994”.

In the NOTE **replace** “ISO 6988:1985” by “EN ISO 6988:1994”.

Bibliography

Add the following reference:

“EN 60068-2-75:1997, *Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests* (IEC 60068-2-75:1997)”.

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 60068-2-75	1997	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
ISO 4892-3	2006	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps	EN ISO 4892-3	2006
ISO 4892-4	2004	Plastics - Methods of exposure to laboratory light sources - Part 4: Open-flame carbon-arc lamps	-	-
ISO 6957	1988	Copper alloys - Ammonia test for stress corrosion resistance	-	-

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INTRODUCTION

This Part 4 of IEC 62561 deals with the requirements and tests for conductor fasteners as being a lightning protection system component (LPSC) designed and implemented according to the IEC 62305 series of standards.

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LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 4: Requirements for conductor fasteners

1 Scope

This Part 4 of IEC 62561 deals with the requirements and tests for metallic and non-metallic conductor fasteners that are used in conjunction with the air termination, down conductor and earth termination system.

This standard does not cover the fixing of conductor fasteners to the fabric/membrane/gravel roofing of structures due to the vast number and types used in modern day construction.

LPSC may also be suitable for use in hazardous atmospheres. Regard should then be taken of the extra requirements necessary for the components to be installed in such conditions.

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.

IEC 60068-2-52:1996, *Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)*

IEC 60068-2-75:1997, *Environmental testing – Part 2: Tests – Test Eh: Hammer tests*

IEC 62305 (all parts), *Protection against lightning*

IEC 62305-3:2006, *Protection against lightning – Part 3: Physical damage to structures and life hazard¹*

ISO 4892-2:2006, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon – arc lamps*

ISO 4892-3:2006, *Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps*

ISO 4892-4:2004, *Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame, carbon-arc lamps*

ISO 6988:1985, *Metallic and other non-organic coatings – Sulphur dioxide test with general condensation of moisture*

ISO 6957:1988, *Copper alloys – Ammonia test for stress corrosion resistance*

3 Terms and definitions

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

¹ A second edition is in preparation.