



BSI Standards Publication

Protection against lightning

Part 1: General principles

This is a preview of BS EN IEC 62305-1:2024. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN IEC 62305-1:2024. It is identical to IEC 62305-1:2024. It supersedes BS EN 62305-1:2011, which will be withdrawn on 31 October 2027.

BSI, as a member of CEN, is obliged to publish EN IEC 62305-1:2024 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee voted against its approval.

The UK committee points out to users that 'Internal' in definition 3.34 also applies to other external equipment with internal connections, as well as equipment on the roof.

The UK committee also believes that in applying the definition in 3.39, users should also consider including surges arising from direct strikes to service lines, and that in applying the definition in 3.54, users should include screening as an important aspect of relevant protection measures.

The UK committee points out that in applying 8.4.1 paragraph 4, separation distances should also be observed between lightning conductors and significant external conductive elements on the outside of a structure or in very close proximity to the structure. In all cases where adequate separation distances cannot be achieved, then such items should be bonded to the near point of the lightning conductor.

The UK committee advises users that the BS EN IEC 62305 third edition series should be implemented in full as it would not be safe to implement Parts 1, 3 and 4 of the third edition without having done a risk assessment in accordance with BS EN IEC 62305-2:2024.

The UK participation in its preparation was entrusted to Technical Committee GEL/81, Protection against lightning.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 February 2025.

Amendments/corrigenda issued since publication

Date	Text affected

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October 2024

ICS 29.020; 91.120.40

Supersedes EN 62305-1:2011;
EN 62305-1:2011/AC:2016-11

English Version

Protection against lightning - Part 1: General principles (IEC 62305-1:2024)

Protection contre la foudre - Partie 1: Principes généraux
(IEC 62305-1:2024)Blitzschutz - Teil 1: Allgemeine Grundsätze
(IEC 62305-1:2024)

This European Standard was approved by CENELEC on 2024-10-17. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document 81/737/FDIS, future edition 3 of IEC 62305-1, prepared by TC 81 "Lightning protection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62305-1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-10-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-10-31 document have to be withdrawn

This document supersedes EN 62305-1:2011 and all of its amendments and corrigenda (if any).

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

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62305-1:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62561 series	NOTE	Approved as EN IEC 62561 series
IEC 62305-2:2024	NOTE	Approved as EN IEC 62305-2:2024 (not modified)
IEC 62793	NOTE	Approved as EN IEC 62793
IEC 61400-24	NOTE	Approved as EN IEC 61400-24
IEC 61000-4-5	NOTE	Approved as EN 61000-4-5
IEC 61643-31	NOTE	Approved as EN 61643-31
IEC 62475	NOTE	Approved as EN 62475
IEC 60071-2:2023	NOTE	Approved as EN IEC 60071-2:2023 (not modified)
IEC 61643-21	NOTE	Approved as EN 61643-21

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(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62305-3	2024	Protection against lightning - Part 3: Physical damage to structures and life hazard	EN IEC 62305-3	2024
IEC 62305-4	2024	Protection against lightning - Part 4: Electrical and electronic systems within structures	EN IEC 62305-4	2024

CONTENTS

FOREWORD.....	6
INTRODUCTION.....	8
1 Scope.....	10
2 Normative references	10
3 Terms and definitions	10
4 Lightning current parameters	17
5 Damage due to lightning.....	18
5.1 Damage to a structure	18
5.1.1 General	18
5.1.2 Effects of lightning on a structure	18
5.1.3 Sources and causes of damage to a structure	19
5.2 Types of loss	20
6 Need for lightning protection.....	21
6.1 Risk and frequency	21
6.2 Need for lightning protection for reduction of risk R	22
6.3 Need for lightning protection for reduction of frequency of damage F	22
7 Protection measures.....	23
7.1 General.....	23
7.2 Protection measures to reduce injury to human beings by electric shock.....	23
7.3 Protection measures to reduce physical damage.....	24
7.4 Protection measures to reduce failure of internal systems.....	24
7.5 Protection measures selection	24
8 Basic criteria for protection of structures.....	24
8.1 General.....	24
8.2 Lightning protection levels (LPLs)	25
8.3 Lightning protection zones (LPZs).....	27
8.4 Protection of structures	29
8.4.1 Protection to reduce physical damage and life hazard	29
8.4.2 Protection to reduce the failure of internal systems	30
Annex A (informative) Parameters of lightning current	31
A.1 Lightning flashes to earth.....	31
A.2 Lightning current parameters	34
A.3 Fixing the maximum lightning current parameters for LPL I	39
A.3.1 General	39
A.3.2 First positive stroke and long stroke	39
A.3.3 First negative stroke	40
A.3.4 Subsequent stroke.....	40
A.4 Fixing the minimum lightning current parameters	40
Annex B (informative) Time functions of the lightning current for analysis purposes.....	42
Annex C (informative) Simulation of the lightning current for test purposes	47
C.1 General.....	47
C.2 Simulation of the specific energy of the first positive stroke and the charge of the long stroke	47
C.3 Simulation of the front current steepness of the impulses.....	48