BS EN 50110-2:2021

BSI Standards Publication

Operation of electrical installations

Part 2: National annexes

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National foreword

This British Standard is the UK implementation of EN 50110-2:2021. It supersedes BS EN 50110-2:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/99, Erection and operation of power installations.

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

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50110-2

March 2021

ICS 29.240

Supersedes EN 50110-2:2010 and all of its amendments and corrigenda (if any)

English Version

Operation of electrical installations - Part 2: National annexes

Exploitation des installations électriques - Partie 2: Annexes nationales

Betrieb von elektrischen Anlagen - Teil 2: Nationale Anhänge

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

CEN-CENELEC Manag **3, B-1040 Brussels**

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European foreword

This document (EN 50110-2:2021) has been prepared by CLC/BTTF 62-3, “Operation of electrical installations”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2021-09-26
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2022-12-23

This document supersedes EN 50110-2:2010 and all of its amendments and corrigenda (if any).

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Introduction

The European Standard EN 50110 series consists of two parts:

— the first part, EN 50110-1, contains minimum requirements valid for all CENELEC countries and some additional informative annexes dealing with safe working;

— the second part, FprEN 50110-2, is a set of national annexes (one per country) which specify either the additional present safety requirements or give the national supplements to these minimum requirements at the time when this European Standard was prepared.

The national annexes are summarized by the respective member country.

National Committees shall notify CENELEC of any changes needed to their national annex.

For users understanding, it is important to publish this standard in all official CENELEC languages (English, French and German) (see also the footnotes Nr. 1 to 4). In effect, every clause in the following example of structure for each national annex which is marked by index 2 and 4 “Written in all official CENELEC languages…” will be translated accordingly.

To reduce effort, every national Committee is recommended to prepare these clauses in their own national annex in English. The French and German translations will be provided by CENELEC with publishing.

The structure of each national annex shall comply to the structure shown in “Example of the structure”:

Example of the Structure

**Name of Country**[1]

#.1 **Laws and regulations**[2]

#.1.# Title of national law or regulation[3] ➔ void

#.1.#.1 Translation of Title of national law or regulation[2] ➔ void

#.1.#.2 *Explanation of content of national law or regulation*[4] ➔ void

#.2 **Standards**[2]

#.2.# Title of national Standard[3]

#.2.#.1 Translation of Title of national Standard[2]

#.2.#.2 *Explanation of content of national Standard*[4]

#.3 **Other Documents**[2]

#.3.# Title of the national Document[3]

#.3.#.1 Translation of Title of the national Document[2]

#.3.#.2 *Explanation of content of the national Document*[4]

NOTE Each Headline except “Name of Country”, “Laws and Regulations”, “Standards” and “Other documents” is a placeholder. In case of there is no item to mention, the remark “➔ void” is to be added after the placeholder as shown in the first chapter of this example of the structure.

---

[1] Written in all official CENELEC languages.
If there is no item, the following Information has to be added after the name of country “**— No reply —**“

[2] Written in all official CENELEC languages.

[3] Written in national language.

[4] Written in all official CENELEC languages and in *italic*.

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1 Austria (AT)

1.1. Laws and regulations

1.1.1. 13. Verordnung des Bundesministers für Wirtschaft und Arbeit, mit der die Verordnung über den Nachweis der Fachkenntnisse (Fachkenntnisnachweis-Verordnung – FK-V) erlassen wird sowie die Verordnung über den Nachweis der Fachkenntnisse für die Vorbereitung und Organisation von bühnentechnischen und beleuchtungstechnischen Arbeiten, die Verordnung über die Fachausbildung der Sicherheitsfachkräfte und die Besonderheiten im untertägigen Bergbau, die Bauarbeiterschutzverordnung, die Druckluft- und Taucherarbeitenverordnung, die Verordnung über den Schutz der Dienstnehmer und der Nachbarschaft beim Betrieb von Steinbrüchen, Lehm-, Ton-, Sand- und Kiesgruben sowie bei Haldenabtragungen und die Sprengarbeitenverordnung geändert werden (BGBl. II Nr. 13/2007, idgF).

1.1.1.1. Regulation on Skills for Hazardous Work

1.1.1.2. *This regulation provides instruction to personnel who have to prepare and organize specific live working procedures for voltages exceeding 1 kV (BGBL II Nr. 13/2007).*

1.2. Standards

1.2.1. ÖVE/ÖNORM EN 50110-1 (EN 50110-2-100 eingearbeitet) – Betrieb von elektrischen Anlagen – Teil 1: Allgemeine Anforderungen – Teil 2-100: Nationale Ergänzungen

1.2.1.1. ÖVE/ÖNORM EN 50110-1 (EN 50110-2-100 integrated) – Operation of electrical installations – Part 1: General requirements - Part 2-100: National annexes

1.2.1.2. *The Austrian national annex ÖVE/ÖNORM EN 50110-2-100 was integrated in ÖVE/ÖNORM EN 50110-1 with the aim to achieve a better readability of the standard. Part 2-100 represents the Austrian supplement to EN 50 110-1 and is more detailed than EN 50110-1*

1.2.2. ÖVE/ÖNORM EN 50110-2 – Betrieb von elektrischen Anlagen – Teil 2: Nationale Anhänge

1.2.2.1. ÖVE/ÖNORM EN 50110-2 – Operation of electrical installations – Part 2: National annexes

1.2.2.2. *ÖVE/ÖNORM EN 50110-2 is a set of national annexes to EN 50110-1 including the national supplements and safety requirements of the European National countries*

1.2.3. ÖVE EN 50110-2-700 – Betrieb von elektrischen Anlagen – Teil 2-700: Betrieb elektrischer Anlagen im Bergbau

1.2.3.1. ÖVE/ÖNORM EN 50110-2-700 – Operation of electrical installations – Part 2-700: Operation of electrical installations in mines

1.2.3.2. *This standard covers particular requirements for the operation of electrical installations in mines*

1.2.4. ÖVE/ÖNORM E 8385 – Betrieb von elektrischen Anlagen – Besondere Festlegungen für landwirtschaftliche und gartenbauliche Betriebsstätten

1.2.4.1. ÖVE/ÖNORM E 8385 – Operation of electrical installations – Particular requirements for agricultural and horticultural plants

1.2.4.2. *This standard covers particular requirements for the operation of electrical installations in agricultural and horticultural plants*

1.2.5. OVE E 8555 – Betrieb elektrischer Bahnen und Obusse

1.2.5.1. OVE E 8555 – Operation of electrical railways and trolleys

1.2.5.2. *This standard covers particular requirements for the operation of electrical railways and trolleys*

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1.3. Other Documents

1.3.1. Title of the national Document ➔ void

1.3.1.1. Translation of Title of the national Document ➔ void

1.3.1.2. Explanation of content of national Document ➔ void

2 Belgium (BE)

2.1. Laws and regulations

2.1.1. AREI = Algemeen Reglement op de Elektrische Installaties / RGIE = Règlement Général sur les Installations Electriques

2.1.1.1. Translation of Title of national law or regulation ➔ void

2.1.1.2. *General regulation on electrical installations, published in the official Journal of Belgium on 29 April 1981, modified and supplemented by various Royal and Ministerial Decrees of the Federal Public Service Economy, SMEs, Self-Employed and Energy. (More in particular art. 266).*

2.1.2. ARAB = Algemeen Reglement voor de Arbeidsbescherming / RGPT = Règlement Général pour la Protection du Travail

2.1.2.1. Translation of Title of national law or regulation ➔ void

2.1.2.2. *General regulation for safety at work, based on the National Law concerning the health and safety of the employees, also the salubrity of the work and the workplace, published in the Official Journal of Belgium of 19 June 1952, modified and supplemented by various Royal and Ministerial Decrees of the Federal Public Service Employment, Labour and Social Dialogue.*

2.1.3. Wet betreffende het welzijn van de werknemers bij de uitvoering van hun werk en de codex over het welzijn op het werk (namelijk Boek III titel 2) / Loi relative au bien-être des travailleurs lors de l'exécution de leur travail et le code du bien-être au travail (notamment le Livre III titre 2)

2.1.3.1. Translation of Title of national law or regulation ➔ void

2.1.3.2. National law on the well-being of employees at work., published in the Official Journal of Belgium of 18 September 1996, modified and supplemented by laws and Royal decrees of the Federal Public Service Employment, Labour and Social Dialogue and Royal decree on the code of well-being at work published in the Official Journal of Belgium of 2 June 2017, modified and supplemented by laws and Royal decrees of the Federal Public Service Employment, Labour and Social Dialogue

2.2. Standards

2.2.1. Title of national Standard ➔ void

2.2.1.1. Translation of Title of national Standard ➔ void

2.2.1.2. Explanation of content of national standard ➔ void

2.3. Other Documents

2.3.1. Regels van Goed Vakmanschap en Technische Voorschriften / Règles de l'Art et Prescriptions Techniques

2.3.1.1. Translation of Title of national law or regulation ➔ void

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2.3.1.2. *Rules of good professional skills and technical prescriptions edited by Synergrid, the federation of system operators in Belgium (former BFE-FPE = Belgian Association of Producers and Distributors of Electricity / CETS — Comité voor Technische Studie der Produktie en Distributie van Elektriciteit in België/Comité d'Etudes Techniques de la Production et de la Distribution d'Electricité en Belgique)*

3 Bulgaria (BG) — No reply —

3.1. Laws and regulations

3.1.1. Title of national law or regulation ➔ void

3.1.1.1. Translation of Title of national law or regulation ➔ void

3.1.1.2. Explanation of content of law or regulation ➔ void

3.2. Standards

3.2.1. Title of national Standard ➔ void

3.2.1.1. Translation of Title of national Standard ➔ void

3.2.1.2. Explanation of content of national standard ➔ void

3.3. Other Documents

3.3.1. Title of the national Document ➔ void

3.3.1.1. Translation of Title of the national Document ➔ void

3.3.1.2. Explanation of content of national Document ➔ void

4 Croatia (HR) — No reply —

4.1. Laws and regulations

4.1.1. Title of national law or regulation ➔ void

4.1.1.1. Translation of Title of national law or regulation ➔ void

4.1.1.2. Explanation of content of law or regulation ➔ void

4.2. Standards

4.2.1. Title of national Standard ➔ void

4.2.1.1. Translation of Title of national Standard ➔ void

4.2.1.2. Explanation of content of national standard ➔ void

4.3. Other Documents

4.3.1. Title of the national Document ➔ void

4.3.1.1. Translation of Title of the national Document ➔ void

4.3.1.2. Explanation of content of national Document ➔ void

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5 Cyprus (CY) — No reply —

5.1. Laws and regulations

5.1.1. Title of national law or regulation ➔ void

5.1.1.1. Translation of Title of national law or regulation ➔ void

5.1.1.2. Explanation of content of law or regulation ➔ void

5.2. Standards

5.2.1. Title of national Standard ➔ void

5.2.1.1. Translation of Title of national Standard ➔ void

5.2.1.2. Explanation of content of national standard ➔ void

5.3. Other Documents

5.3.1. Title of the national Document ➔ void

5.3.1.1. Translation of Title of the national Document ➔ void

5.3.1.2. Explanation of content of national Document ➔ void

6 Czech Republic (CZ)

6.1. Laws and regulations

6.1.1. Zákon č. 262/2006 Sb., zákoník práce, Část pátá, paragrafy 101 – 108

6.1.1.1. Act No. 262/2006 Coll., Labour Code, Part five, Sections 101 – 108

6.1.1.2. Explanation of content of law or regulation ➔ void

6.1.2. Zákon č. 458/2000 Sb., o podmínkách podnikání a o výkonu státní správy v energetických odvětvích a o změně některých zákonů (energetický zákon), ve znění pozdějších předpisů

6.1.2.1. Act No. 458/2000 Coll., on the conditions for entrepreneurial activities and the performance of state administration in energy industries and on an amendment to certain acts (“Energy Act”), as amended by later legislative acts and regulations

6.1.2.2. Explanation of content of national Document ➔ void

6.1.3. Zákon č. 251/2005 Sb., o inspekci práce, ve znění pozdějších předpisů”

6.1.3.1. Act No. 251/2005 Coll., on labour inspection, as amended by later legislative acts and regulations

6.1.3.2. Explanation of content of national Document ➔ void

6.1.4. Zákon č. 174/1968 Sb., o státním odborném dozoru nad bezpečností práce, ve znění pozdějších předpisů

6.1.4.1. Act No. 174/1968 Coll., on state professional supervision of the labour safety as amended by later legislative acts and regulations

6.1.4.2. Explanation of content of national Document ➔ void

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6.1.5. Zákon č. 309/2006 Sb., kterým se upravují další požadavky bezpečnosti a ochrany zdraví při práci v pracovně právních vztazích a o zajištění bezpečnosti a ochrany zdraví při činnosti nebo poskytování služeb mimo pracovně právní vztahy (zákon o zajištění dalších podmínek bezpečnosti a ochrany zdraví při práci), ve znění pozdějších předpisů.

6.1.5.1. Act No. 309/2006 Coll., concerning additional requirements for safety and health protection at employment relations and for safety and health protection at work or service trades out of employment relations, as amended by later legislative acts and regulations

6.1.5.2. Explanation of content of national Document ➔ void

6.1.6. Zákon č. 179/2006 Sb., o ověřování a uznávání výsledků dalšího vzdělávání a o změně některých zákonů (zákon o uznávání výsledků dalšího vzdělávání), ve znění pozdějších předpisů

6.1.6.1. Act No. 179/2006 Coll., on the recognition of results of further education as amended by later legislative acts and regulations

6.1.6.2. Explanation of content of national Document ➔ void

6.1.7. Nařízení vlády č. 378/2001 Sb., kterým se stanoví bližší požadavky na bezpečný provoz a používání strojů, technických zařízení, přístrojů a nářadí

6.1.7.1. Governmental Order No. 378/2001 Coll. specifies the detailed requirements for the safe operation and use of machines, technical equipment, devices and tools

6.1.7.2. Explanation of content of national Document ➔ void

6.1.8. Nařízení vlády č. 101/2005 Sb., o podrobnějších požadavcích na pracoviště a pracovní prostředí

6.1.8.1. Governmental Order No. 101/2005 Coll. includes detailed requirements for workplaces and working environments.

6.1.8.2. Explanation of content of national Document ➔ void

6.1.9. Nařízení vlády č. 362/2005 Sb., o bližších požadavcích na bezpečnost a ochranu zdraví při práci na pracovištích s nebezpečím pádu z výšky nebo do hloubky

6.1.9.1. Governmental Order No. 362/2005 Coll. includes the requirements for safety and health protection at work or workplaces where there is a danger of falls from height

6.1.9.2. Explanation of content of national Document ➔ void

6.1.10. Nařízení vlády č. 591/2006 Sb., o bližších minimálních požadavcích na bezpečnost a ochranu zdraví při práci na staveništích, ve znění pozdějších předpisů”

6.1.10.1. Governmental Order No. 591/2006 Coll. includes the minimum requirements for safety and health protection at work on construction sites, as amended by later legislative acts and regulations

6.1.10.2. Explanation of content of national Document ➔ void

6.1.11. Vyhláška č. 50/1978 Sb., o odborné způsobilosti v elektrotechnice

6.1.11.1. Decree No. 50/1978 Coll. specifies the professional qualifications in electrical engineering

6.1.11.2. Explanation of content of national Document ➔ void

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6.1.12. Vyhláška č. 73/2010 Sb., o stanovení vyhrazených elektrických technických zařízení, jejich zařazení do tříd a skupin a o bližších podmínkách jejich bezpečnosti (vyhláška o vyhrazených elektrických technických zařízeních)

6.1.12.1. Decree No. 73/2010 Coll. on the designation of dedicated electrical technical equipment, their classification into classes and groups and on the more detailed conditions of their safety (Decree on dedicated electrical technical equipment)

6.1.12.2. Explanation of content of national Document ➔ void

6.1.13. Vyhláška č. 48/1982 Sb., kterou se stanoví základní požadavky k zajištění bezpečnosti práce a technických zařízení

6.1.13.1. Decree No. 48/1982 Coll., essential requirements to ensure safety at work and safety of technical equipment

6.1.13.2. Explanation of content of national Document ➔ void

6.1.14. Vyhláška Českého báňského úřadu č. 22/1989 Sb. ze dne 29. prosince 1988, o bezpečnosti a ochraně zdraví při práci a bezpečnosti provozu při hornické činnosti a při dobývání nevyhrazených nerostů v podzemí, Část osmá: Elektrická a strojní zařízení, Díl druhý: Elektrická zařízení

6.1.14.1. Decree of the Czech Mining Authority No. 22/1989 Coll. on safety and protection of health and operational safety in mining activities and in activities carried out by mining methods underground

6.1.14.2. Explanation of content of national Document ➔ void

6.1.15. Vyhláška Českého báňského úřadu č. 26/1989 Sb. ze dne 29. prosince 1988, o bezpečnosti a ochraně zdraví při práci a bezpečnosti provozu při hornické činnosti a při činnosti prováděné hornickým způsobem na povrchu Část šestá: Elektrická a strojní zařízení, Díl druhý: Elektrická zařízení

6.1.15.1. Decree of the Czech Mining Authority No. 26/1989 Coll., on health and safety at work and safety of operations in mining and surface mining operations Part 6: Electrical and mechanical equipment, Part two: Electrical equipment

6.1.15.2. Explanation of content of national Document ➔ void

6.1.16. Vyhláška Českého báňského úřadu č. 51/1989 Sb., ze dne 29. prosince 1988, o bezpečnosti a ochraně zdraví při práci a bezpečnosti provozu při úpravě a zušlechťování nerostů, Část čtvrtá Elektrická a strojní zařízení, Díl druhý Elektrická zařízení

6.1.16.1. Decree of the Czech Mining Authority No. 51/1989 Coll., specifies the requirements for the protection of health and operational safety in dressing and enrichment of minerals, Section four, Electrical and machinery, Part two Electrical equipment

6.1.16.2. Explanation of content of national Document ➔ void

6.1.17. Vyhláška Českého báňského úřadu č. 202/1995 Sb. ze dne 11. srpna 1995, o požadavcích k zajištění bezpečnosti a ochrany zdraví při obsluze a práci na elektrických zařízeních při hornické činnosti a při činnosti prováděné hornickým způsobem

6.1.17.1. Decree of the Czech Mining Authority No. 202/1995 Coll. specifies the requirements to ensure the safety and protection of health in the operation of electrical installations during mining activities

6.1.17.2. Explanation of content of national Document ➔ void

6.1.18. Vyhláška Českého báňského úřadu č. 74/2002 Sb. ze dne 22. ledna 2002, o vyhrazených elektrických zařízeních

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6.1.18.1. Decree of the Czech Mining Authority No. 74/2002 Coll. on dedicated electrical equipment

6.1.18.2. Explanation of content of national Document ➔ void

6.1.19. Vyhláška Českého báňského úřadu č. 75/2002 Sb. ze dne 22. ledna 2002, o bezpečnosti provozu elektrických technických zařízení používaných při hornické činnosti a činnosti prováděné hornickým způsobem

6.1.19.1. Decree of the Czech Mining Authority No. 75/2002 Coll. specifies the requirements to ensure the safe operation of electrical equipment employed in mining activities.

6.1.19.2. Explanation of content of national Document ➔ void

6.2. Standards

6.2.1. ČSN 33 1310 ed. 2 Bezpečnostní předpisy pro elektrická zařízení určená k užívání osobami bez elektrotechnické kvalifikace

6.2.1.1. ČSN 33 1310 ed. 2 Safety regulations for electrical equipment intended to be used by persons without any electrotechnical skills

6.2.1.2. *This standard specifies the safety regulations for electrical equipment intended to be used by persons without any electrotechnical skills*

6.2.2. ČSN 33 1326 Bezpečnostní předpisy pro obsluhu zařízení trakčního vedení a pro práci na trakčním vedení metra

6.2.2.1. ČSN 33 1326 Safety regulations for attendance and operation of electric underground traction systems

6.2.2.2. *This standard specifies the safety regulations for work activities and electrical operations involving underground electric traction systems.*

6.2.3. ČSN 33 1500, Elektrotechnické předpisy – Revize elektrických zařízení

6.2.3.1. ČSN 33 1500, Electrotechnical and engineering regulations - Inspection and testing of electrical installations

6.2.3.2. *This standard specifies the Inspection and testing requirements for electrical installations*

6.2.4. ČSN 33 2000-6 Elektrické instalace nízkého napětí. Část 6: Revize

6.2.4.1. ČSN 33 2000-6 Low voltage electrical installations. Part 6: Verification

6.2.4.2. *This standard is the Czech version of HD 60364-6:2007.*

6.2.5. ČSN 33 2000-6 ed.2, Elektrické instalace nízkého napětí - Část 6: Revize

6.2.5.1. ČSN 33 2000-6 ed.2, Low-voltage electrical installations - Part 6: Verification

6.2.5.2. *This standard is the Czech version of HD 60364-6:2016*

6.2.6. ČSN 33 1600 ed. 2 Revize elektrických spotřebičů a nářadí

6.2.6.1. ČSN 33 1600 ed. 2 Revision of electrical appliances and tools

6.2.6.2. *This standard specifies the Inspection and testing requirements for electrical appliance and tools*

6.3. Other Documents

Documents
Document Sharing Hub

Full document details: BS EN 50110-2:2021

6.3.1. Title of the national Document written in national language ➔ void

6.3.1.1. Translation of Title of the national Document ➔void

6.3.1.2. Explanation of content of national Document ➔ void

7 Denmark (DK)

7.1. Laws and regulations

7.1.1. Bekendtgørelse af lov om sikkerhed ved elektriske anlæg, elektriske installationer og elektrisk materiel (elsikkerhedsloven)
LBK nr. 26 af 10/01/2019

7.1.1.1. Consolidated Act on the Safety of Electrical Plants, Electrical Installations and Electrical Equipment Consolidated Act No.26 from 10 January 2019

7.1.1.2. *The Electrical Safety Act*

7.1.2. Bekendtgørelse om sikkerhed for udførelse og drift af elektriske installationer Bekendtgørelse nr. 1082 af 12/07/2016

7.1.2.1. Executive Order on Safety in connection with the Construction and Operation of Electrical Installations.
Executive Order no. 1082 from 12 July 2016

7.1.2.2. *Part 7 in these regulations specify the requirements for the operations of low-voltage electrical installations.*

7.1.3. Bekendtgørelse om sikkerhed for drift af elektriske anlæg
Bekendtgørelse nr. 1608 af 20/12/2017

7.1.3.1. Executive Order on Safety in connection with the Operation of Electrical Plants
Executive Order no. 1608 from 20 December 2017.

7.1.3.2. *Regulations for inspection, operation, maintenance and work on or near low-voltage and high-voltage electrical plants.*

7.2. Standards

7.2.1. Title of national Standard ➔ void

7.2.1.1. Translation of Title of national Standard ➔ void

7.2.1.2. Explanation of content of national standard ➔ void

7.3. Other Documents

7.3.1. Title of the national Document ➔ void

7.3.1.1. Translation of Title of the national Document ➔ void

7.3.1.2. Explanation of content of national Document ➔ void

8 Estonia (EE)

8.1. Laws and regulations

AVA Documents
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Full document details: BS EN 50110-2:2021