

Guidance document on the preparation of Annex ZA
in harmonized standards
(CENELEC)

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1 Introduction

When an IEC standard is adopted by CENELEC, an Annex ZA shall be added showing the relationship between the normative references in the Clause 2 of the international document and their European equivalents to be used instead ([Internal Regulations Part 3:2022](#), 15.5.3 and ZB.3).

This document describes how to list the normative references (NR) in the Annex ZA in harmonized standards.

In line with D160/021, CENELEC technical Bodies can request from CCMC to deliver a 'draft Annex ZA' consisting of a template completed with the identified international normative references and their European homologues.

NOTE In line with BT decisions D154/009 and D159/013, since 2018, standards adopting an IEC standard are named "**EN IEC**". Before that, standards adopting an IEC standard were made available as "**EN 6xxxx:YYYY**". Amendments and common modifications to such an EN standard adopted before 2018 will follow the naming of the original standard (the "main"). For example: The A2 and A12 to **EN 60335-2-42:2003** have been named **EN 60335-2-42:2003/A2:2024** and **EN 60335-2-42:2003/A12:2024**

2 Use cases and examples

2.1 The NR is dated in Clause 2

2.1.1 Use case 1 - the EN equivalent has the same publication date

Comment: Please include all references listed in Clause 2 in the Annex ZA even if already dated in Clause 2.

→ Example of Clause 2 reference:

IEC 60068-2-14:2023, *Environmental testing – Part 2-14: Tests – Test N: Change of temperature*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-14	2023	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN IEC 60068-2-14	2023

2.1.2 Use case 2 - the EN equivalent has a different publication date

Comments: Please include all references listed in Clause 2 in the Annex ZA, even if already dated in Clause 2; If the publication year is different for the international standard and its EN equivalent standard, please make sure to include the correct corresponding dates for both.

→ Example of Clause 2 reference:

IEC 60085:2007, *Electrical Insulation – Thermal evaluation and designation*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60085	2007	Electrical Insulation – Thermal evaluation and designation	EN 60085	2008

Special case – The NR in Clause 2 is withdrawn

Comment: Please

a) If your document is an **identical adoption**:

- include the reference as it is listed in Clause 2 in the Annex ZA even though it is withdrawn;
- indicate in the last two columns (EN/HD and Year) which EN edition should be used instead for the claim for conformity, specifying the year.

NOTE Taking into account that the content may have changed between editions, it is the TC's responsibility to verify if it is sufficient to indicate the latest edition of the EN equivalent, or if common modifications are necessary.

→ Example of Clause 2 reference:

IEC 61000-4-3:2006, *Electromagnetic compatibility (EMC) – Part 4-3 : Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-3	2006	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN IEC 61000-4-3	2020

b) If your document consists of **common modifications**:

- add a common modification to change the IEC text, i.e. to update the reference in the text, and complete the Annex ZA accordingly

→ Example of Clause 2 reference:

IEC 61000-4-3:2006, *Electromagnetic compatibility (EMC) – Part 4-3 : Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test*

→ Example of common modification:

1 Modification to Clause X "Title of the clause"

In the Xth paragraph, replace "IEC 61000-4-3:2006" with "IEC 61000-4-3:2020".

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61000-4-3	2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN IEC 61000-4-3	2020

2.1.3 Use case 3 – The NR is dated but there is no EN equivalent

Comments: Please

- include all references listed in Clause 2 in the Annex ZA even if already dated in Clause 2;
- in the last two columns (EN/HD and Year) indicate that no EN equivalent exists by adding dashes.

→ Example of Clause 2 reference:

ISO 14878:2015, *Cycles – Audible warning devices – Technical specification and test methods*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 14878	2015	Cycles – Audible warning devices – Technical specification and test methods	-	-

2.2 The NR is NOT dated in Clause 2

2.2.1 Use case 4 – the NR is not dated in Clause 2 and there is an EN equivalent

Comments: Please

- include the international standard in the first column (Publication) and a dash in the second column (Year);
- indicate in the last two columns (EN/HD and Year) which EN edition should be used for the claim for conformity, specifying the year.

→ Example of Clause 2 reference:

IEC 60068-2-11, *Environmental testing – Part 2-11: Tests – Test Ka: Salt mist*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-11	-	Environmental testing – Part 2-11: Tests – Test Ka: Salt mist	EN IEC 60068-2-11	2021

2.2.2 Use case 5 - the NR is not dated in Clause 2 and there is no EN equivalent

Comments: Please

- include the international standard in the first column (Publication) and indicate in the second column (Year) which edition should be used for the claim for conformity, specifying the year;
- add a footnote to that year stating “Dated as no European equivalent exists.”
- indicate in the last two columns (EN/HD and Year) that no EN equivalent exists by adding dashes.

→ Example of Clause 2 reference:

IEC 60245-6, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 6: Arc welding electrode cables*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60245-6	1994 ¹	Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 6: Arc welding electrode cables	-	-

¹ Dated as no European equivalent exists.

2.3 The NR is not yet published

2.3.1 General

The European Commission can reject the citation in the OJEU because of draft standards included in Clause 2 / Annex ZA. When the draft standard referenced is being developed at the same time and stage as the hEN, it is possible to refer to drafts in Clause 2 / Annex ZA during the development process. However, draft references should no longer be included in the text for publication. (See the [Guidance on normative references in harmonized standards](#).)

2.3.2 Use case 6 - the NR in Clause 2 is not yet published and not dated

2.3.2.1 Use case 6a – there is an EN equivalent

Comments: Please:

- add a footnote in the first column (Publication) stating “Under preparation ...”;
- add a long dash in the last column (Year) + a footnote stating “Under preparation ...”.

NOTE The long dash is a placeholder for the date to be added by the time the hEN reaches publication stage.

→ Example of Clause 2 reference:

IEC 63474¹, *Electrical and electronic household and office equipment – Measurement of networked standby power consumption of edge equipment*

¹ Under preparation. Stage at the time of publication: IEC CDV 63474:2022.

→ Example on how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 63474 ¹	-	Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment	EN IEC 63474	— ²

¹ Under preparation. Stage at the time of publication: IEC CDV 63474:2022.

² Under preparation. Stage at the time of publication: prEN IEC 63474:2022.

2.3.2.2 Use case 6b – there is no EN equivalent

Comments: Please

- include the international standard in the first column (Publication);
- add a long dash in the second column (Year) and 2 footnotes:
 - one stating “Under preparation ...”;
 - another stating “Dated as no European equivalent exists.”
- indicate in the last two columns (EN/HD and Year) that no EN equivalent exists by adding dashes.

NOTE The long dash is a placeholder for the date to be added by the time the hEN reaches publication stage.

→ Example of Clause 2 reference:

IEC 60335-2-114¹, *Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters*

¹ Under preparation. Stage at the time of publication: IEC CDV 60335-2-114:2022.

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60335-2-114	— ^{1 2}	Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters	-	-

¹ Under preparation. Stage at the time of publication: IEC CDV 60335-2-114:2022.

² Dated as no European equivalent exists.

2.3.3 Use case 7 – the NR in Clause 2 is not yet published and dated

2.3.3.1 Use case 7a – there is an EN equivalent

Comments: Please

- include the international standard in the first column (Publication);
- add a long dash in the second column (Year) and a footnote stating “Under preparation ...”;
- add a long dash in the last column (Year) + a footnote stating “Under preparation ...”.

NOTE The long dash is a placeholder for the date to be added by the time the hEN reaches publication stage.

→ Example of Clause 2 reference:

IEC 63474:—¹, *Electrical and electronic household and office equipment – Measurement of networked standby power consumption of edge equipment*

¹ Under preparation. Stage at the time of publication: IEC CDV 63474:2022.

→ Example on how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 63474	— ¹	Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment	EN IEC 63474	— ²

¹ Under preparation. Stage at the time of publication: IEC CDV 63474:2022.

² Under preparation. Stage at the time of publication: prEN IEC 63474:2022.

2.3.3.2 Use case 7b – there is no EN equivalent

Comments: Please

- include the international standard in the first column (Publication);
- add a long dash in the second column (Year) + a footnote stating “Under preparation ...”.
- indicate in the last two columns (EN/HD and Year) that no EN equivalent exists by adding dashes.

NOTE The long dash is a placeholder for the date to be added by the time the hEN reaches publication stage.

→ Example of Clause 2 reference:

IEC 60335-2-114:—¹, *Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters*

¹ Under preparation. Stage at the time of publication: IEC CDV 60335-2-114:2022.

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60335-2-114	— ¹	Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters	-	-

¹ Under preparation. Stage at the time of publication: IEC CDV 60335-2-114:2022.

2.4 Other

2.4.1 Use case 8 - the NR is dated and has been amended

Comments: Please

- for the international standard: include all amendments that are listed in Clause 2 in the Annex ZA below their parent standard in columns 1 and 2 (Publication and Year);
- for the EN equivalent: include *all* amendments (both equivalent amendments and CEN/CENELEC only amendments) and corrigenda

→ Example of Clause 2 reference

CISPR 32:2015, *Electromagnetic compatibility of multimedia equipment – Emission requirements*
CISPR 32:2015/AMD1:2019

→ Example of how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 32	2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	EN 55032	2015
+ A1	2019		+ A1	2020
-	-		+ A11	2020

Special case – The EN equivalent is not up to date (not all IEC projects are adopted in CENELEC)

→ Example of Clause 2 reference:

IEC 60364-4-44:2007, *Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances*
IEC 60364-4-44:2007/AMD1:2015
IEC 60364-4-44:2007/AMD2:2018

An EN equivalent exists, but not for all amendments. The latest edition of the EN equivalent is HD 60364-4-443:2016, which adopted the AMD1, but the HD has since then not been updated. It is therefore more appropriate to apply the IEC standard and not the HD.

In such cases, please:

- include the international standard and its year in the first 2 columns (Publication and Year);
- leave the last two columns (EN/HD and Year) empty; do not add dashes, since this would indicate that no equivalent exists.

→ Example of how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60364-4-44	2007	Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances		
+ A1	2015			
+ A2	2018			

2.4.2 Use case 9 - the NR is a series of standards (“all parts”)

The referencing of series of standards in Clause 2 / Annex ZA can lead to a non-compliant HAS assessment or rejection of the citation in the OJEU. Therefore, it is recommended to refer to specific parts of the standard. (See the [Guidance on normative references in harmonized standards](#).)

Comments: Please:

- in the first column (Publication) include the international standard, and in the second column (Year) add the word “series”;
- in the last two columns (EN/HD and Year) list the EN equivalent standard’s specific parts that should be used for the claim for conformity, specifying the year.

→ Example of Clause 2 reference:

IEC 62326 (all parts), *Printed boards*

→ Example on how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62326	series	Printed boards	EN 62326-1	2002
			EN 62326-4	1997
			EN 62326-41	1997
			EN 62326-20	2016

2.4.3 Use case 10 – the NR is a database

Comments: Please:

- in the first column (Publication) include the international standard, and in the second column (Year) add the word “Database”;
- Indicate in the last two columns (EN/HD and Year) that no EN equivalent exists by adding dashes.

NOTE This reference can exceptionally be left undated.

→ Example of Clause 2 reference:

IEC 60417, *Graphical symbols for use on equipment*

→ Example on how to include in Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60417	Database	Graphical symbols for use on equipment	-	-

2.4.4 Use case 11 – the TC does not want to use the IEC NR

This use case refers to a scenario where the IEC normative reference should not be used in Europe. In this case, the alternative is to introduce a technical change to the content of the document/Annex ZA and this can only be done through a common modification.

Comment: Please

- a) If your document already consists of common modifications, introduce the necessary change to modify this IEC normative reference.
- b) In case you don't have common modifications yet, you should create them to modify this IEC normative reference.

→ Example of Clause 2 reference:

IEC 61108-5:2020, *Maritime navigation and radiocommunication equipment and systems - Global navigation satellite systems (GNSS) - Part 5: BeiDou navigation satellite system (BDS) - Receiver equipment - Performance requirements, methods of testing and required test results*

→ Example of common modification:

1 Modification to Clause X, "Title of the clause"

In the Xth paragraph, replace "IEC 61108-5:2020" with "EN 12345:YYYY".

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
EN 12345	YYYY	Title of the standard		

2.4.5 Use case 12 – the NR is from a third-party organization

The referencing of third-party organization standards in Clause 2 / Annex ZA can lead to a non-compliant HAS assessment or rejection of the citation in the OJEU. Therefore, it is strongly recommended to avoid this (See the [Guidance on normative references in harmonized standards](#)).

Comment: Please

- include the reference listed in Clause 2 in the Annex ZA (if not dated in Clause 2, please date the reference in the Annex ZA as explained in Use case 5);
- in the last two columns (EN/HD and Year) indicate that no EN equivalent exists by adding dashes.

→ Example of Clause 2 reference:

ASTM D4728-06:2012, *Standard Test Method for Random Vibration Testing of Shipping Containers*

→ Example of how to include in the Annex ZA:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ASTM D4728-06	2012	Standard Test Method for Random Vibration Testing of Shipping Containers	-	-