Irish Standard
I.S. EN 50341-2-15:2019

Overhead electrical lines exceeding AC 1 kV - Part 2-15: National Normative Aspects (NNAs) for the Netherlands (based on EN 50341-1:2012)

I.S. EN 50341-2-15:2019

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National Foreword

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50341-2-15

May 2019

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English Version

Overhead electrical lines exceeding AC 1 kV - Part 2-15: National Normative Aspects (NNAs) for the Netherlands (based on EN 50341-1:2012)

This European Standard was approved by CENELEC on 2019-05-22.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

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European foreword

1 The Netherlands National Committee (NC) is identified by the following address:

Koninklijk Nederlands Elektrotechnisch Comité (NEC)
Vlinderweg 6,
PO Box 5059
2600 GB DELFT
the Netherlands
Tel.: +31 15 2690 390
Email: nec@nen.nl
Relevant standards committee: NEC 11/36 “Hoogspanningslijnen en isolatoren” (Overhead high-voltage lines and insulators)

2 The Netherlands NC has prepared this Part 2-15 of EN 50341, listing the Netherlands National Normative Aspects (NNA), under its sole responsibility, and duly passed it through the CENELEC and CLC/TC 11 procedures. This NNA to EN 50341 has been accepted by the Dutch standards Committee 351001 “Technische Grondslagen voor Bouwconstructies”, responsible for the structural and geotechnical design standards in the Netherlands, as being in accordance with the safety philosophy for structures in the Netherlands.

NOTE: The Netherlands NC also takes sole responsibility for the technically correct co-ordination of this NNA with EN 50341-1. It has performed the necessary checks in the frame of quality assurance/control. However, it is noted that this quality check has been made in the framework of the general responsibility of a standards committee under the national laws/regulations.

This Part 2-15 specifies the values of the Nationally Determined Parameters for use in the Netherlands. Herewith it can be demonstrated that a construction work achieves the level of structural safety as required by Dutch building regulations. This NNA also includes complementary requirements which are non-conflicting with NEN-EN 1990 and the Dutch National Annex to EN 1990. This complementary text may be of normative nature, but also of informative nature (e.g. notes). Also decisions on the application (normative or informative) in the Netherlands of the informative Annexes to the standard itself are specified in the National Annex.

3 This NNA is normative in the Netherlands and informative for other countries.

4 This NNA has to be read in conjunction with Part 1 (EN 50341-1). All clause numbers used in this NNA correspond to those of Part 1. Specific subclauses, which are prefixed “NL”, are to be read as amendments to the relevant text in Part 1. Any necessary clarification regarding the application of NNA in conjunction with Part 1 shall be referred to the Netherlands NC who will, in co-operation with CLC/TC 11, clarify the requirements.
When no reference is made in this NNA to a specific subclause, then Part 1 applies.

5 In the case of “boxed values” defined in Part 1, amended values (if any) which are defined in this NNA shall be taken into account in the Netherlands.

However any boxed value, whether in Part 1 or in this NNA, shall not be amended in the direction of greater risk in a Project Specification.

6 The national Netherlands standards/regulations related to overhead electrical lines exceeding 45 kV (A.C.) are identified/listed in subclauses 2.1/NL.1 and 2.1/NL.2.

NOTE: All national standards referred to in this NNA will be replaced by the relevant European Standards as soon as they become available and are declared by the Netherlands NC to be applicable and thus reported to the secretary of CLC/TC 11.

1 Scope

(ncpt) **NL.1 Application to existing overhead lines**

This NNA is applicable for new high-voltage overhead lines only, not for existing lines in the Netherlands.

NOTE: If some planning/design or modification works on existing lines in the Netherlands has to be performed, the structural integrity shall be assessed based on the following generic building standards:

- NEN 8700 “Assessment of existing structures in case of reconstruction and disapproval – Basic Rules” and
- NEN 8701 “Assessment of existing structures in case of reconstruction and disapproval – Actions

NEN 8700 and NEN 8701 shall be used in conjunction with EN 50341 part 1 and this NNA.

NEN 8700 and NEN 8701 are based on NEN-EN 1990.

EN 50341-1 “Overhead electrical lines exceeding 1 kV” is based on EN 1990.

Where in NEN-EN 1990 and NEN-EN 50341 is referred to 'design' that term should be read in the context of the applying this standard to a review or assessment, by an analysis, as 'verification'. In case of construction re-design this must be understood as referring only to the part of the structure that is subject of the re-design.

(ncpt) **NL.2 Application to cables for telecommunication**

This NNA includes the requirements for application of plastic cables, with metal or without (ADSS) metal, for telecommunication, as well as for conductor/earthwire (groundwire) systems (e.g. wraparound,....).

(ncpt) **NL.3 Application to mounting of telecommunication equipment**

This NNA is applicable for fixing of structural elements for telecommunication (e.g. dishes), if mounted on power line supports (towers), especially regarding the wind forces and ice loads on such fixed elements.

(ncpt) **NL.4 Applicability**

This NNA is applicable to overhead electrical lines exceeding 45 kV (A.C.).

To overhead electrical lines exceeding 1 kV (A.C.) but lower than 45 kV (A.C.) Part 1 is applicable without special national conditions (snc) or national complements (ncpt).