

**Madalpingelised elektripaigaldised. Osa 7-721: Nõuded eripaigaldistele ja -paikadele. Sõidukelamute elektripaigaldised**

Low-voltage electrical installations -- Part 7-721:  
Requirements for special installations or locations - Electrical  
installations in caravans and motor caravans

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-HD 60364-7-721:2009 sisaldab Euroopa standardi HD 60364-7-721:2008 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.10.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 18.09.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-HD 60364-7-721:2009 consists of the English text of the European standard HD 60364-7-721:2008.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.10.2009 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 18.09.2009.

The standard is available from Estonian standardisation organisation.

ICS 29.020, 91.140.50

### Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
Aru 10 Tallinn 10317 Eesti; [www.evs.ee](http://www.evs.ee); Telefon: 605 5050; E-post: [info@evs.ee](mailto:info@evs.ee)

### Right to reproduce and distribute Estonian Standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:  
Aru str 10 Tallinn 10317 Estonia; [www.evs.ee](http://www.evs.ee); Phone: +372 605 5050; E-mail: [info@evs.ee](mailto:info@evs.ee)

English version

**Low-voltage electrical installations -  
Part 7-721: Requirements for special installations or locations -  
Electrical installations in caravans and motor caravans  
(IEC 60364-7-721:2007, modified)**

Installations électriques à basse tension -  
Partie 7-721: Exigences  
pour les installations  
ou emplacements spéciaux -  
Installations électriques dans  
les caravanes et caravanes à moteur  
(CEI 60364-7-721:2007, modifiée)

Errichten von Niederspannungsanlagen -  
Teil 7-721: Anforderungen  
für Betriebsstätten, Räume  
und Anlagen besonderer Art -  
Elektrische Anlagen in Caravans  
und Motorcaravans  
(IEC 60364-7-721:2007, modifiziert)

This Harmonization Document was approved by CENELEC on 2009-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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

**Central Secretariat: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of the International Standard IEC 60364-7-721:2007, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with common modifications prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote and was approved by CENELEC as HD 60364-7-721 on 2009-04-01.

This Harmonization Document supersedes HD 384.7.754 S1:2005.

In this standard, the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the existence of the HD has to be announced at national level   | (doa) | 2009-10-01 |
| – latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement | (dop) | 2010-04-01 |
| – latest date by which the national standards conflicting with the HD have to be withdrawn   | (dow) | 2012-04-01 |

For this Harmonization Document the informative Annex D of IEC 60364-7-721:2007 shall be disregarded and has been replaced by the normative Annex ZA, *Special national conditions*.

Annex ZA has been added by CENELEC.

---

## Introduction

The requirements of this part of HD 60364 supplement, modify or replace certain of the general requirements in Parts 1 to 6 of HD 60364.

The clause numbering of Part 7-721 follows the pattern and corresponding references of HD 60364. The numbers following the particular number of Part 7-721 are those of the corresponding parts or clauses of HD 60364.

The absence of reference to a part or a clause means that the corresponding general requirements of HD 60364 are applicable.

This document is a preview generated by EVS

### 721.1 Scope

The particular requirements of this part of HD 60364 apply to the electrical installation of caravans and motor caravans.

They apply to those electrical circuits and equipment intended for the use of the caravan for habitation purposes.

They do not apply to those electrical circuits and equipment for automotive purposes.

They do not apply to the electrical installations of mobile homes, residential park homes and transportable units.

NOTE 1 For mobile homes and residential park homes the general requirements apply.

NOTE 2 For transportable units see HD 60364-7-717.

NOTE 3 For the purpose of this standard, caravans and motor caravans are referred to as "caravans"

NOTE Z1 For extra low-voltage d.c. 12 V installations, EN 1648-1 and EN 1648-2 apply.

The particular requirements of some parts from the HD 60364-7 series may also apply to such installations in caravans, e.g. HD 60364-7-701.

### 721.2 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.

EN 50085 (all parts), *Cable trunking systems and cable ducting systems for electrical installations*

HD 472 S1:1989 + Corr. 2002, *Nominal voltages for low voltage public electricity supply systems* (IEC 60038:1983, mod.)

EN 60309-2, *Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories* (IEC 60309-2)

EN 60332-1-2, *Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW premixed flame* (IEC 60332-1-2)

EN 60335-1, *Household and similar electrical appliances – Safety – Part 1: General requirements* (IEC 60335-1, mod.)

EN 60335-2-29, *Household and similar electrical appliances – Safety – Part 2-29: Particular requirements for battery chargers* (IEC 60335-2-29)

HD 60364-5-51, *Electrical installations of buildings – Part 5-51: Selection and erection of electrical equipment - Common rules* (IEC 60364-5-51, mod.)

HD 60364-7 (all parts), *Low-voltage electrical installations – Part 7: Requirements for special installations or locations* (IEC 60364-7 all parts, mod.)

EN 60529, *Degrees of protection provided by enclosures (IP Code)* (IEC 60529)

EN 60947-2, *Low-voltage switchgear and controlgear – Part 2: Circuit-breakers* (IEC 60947-2)

EN 61008-1, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules* (IEC 61008-1, mod.)

EN 61009-1, *Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules* (IEC 61009-1, mod.)

EN 61386 (all parts), *Conduit systems for cable management* (IEC 61386 all parts)

EN 61558-2-6, *Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers* (IEC 61558-2-6)

EN ISO 11446, *Road vehicles – Connectors for the electrical connection of towing and towed vehicles – 13-pole connectors for vehicles with 12 V nominal supply voltage* (ISO 11446)

HD 22 (all parts), *Cables of rated voltages up to and including 450/750 V and having cross-linked insulation*

ISO 1724, *Road vehicles – Connectors for the electrical connection of towing and towed vehicles – 7-pole connector type 12 N (normal) for vehicles with 12 V nominal supply voltage*

ISO 3732, *Road vehicles – Connectors for the electrical connection of towing and towed vehicles – 7-pole connector type 12 S (supplementary) for vehicles with 12 V nominal supply voltage*

ISO 6309, *Fire protection – Safety signs*

ISO 8820, *Road vehicles – Fuse-links*

### 721.3 Terms and definitions

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

#### 721.3.1

##### **leisure accommodation vehicle**

unit of living accommodation for temporary or seasonal occupation that may meet the requirements for the construction and use of road vehicles

#### 721.3.1.1

##### **caravan**

trailer leisure accommodation vehicle, used for touring, that meets the requirements for the construction and use of road vehicles

#### 721.3.1.2

##### **motor caravan**

self-propelled leisure accommodation vehicle, used for touring, that meets the requirements for the construction and use of road vehicles

NOTE A motor caravan is either adapted from a series production vehicle, or designed and built on an existing chassis, with or without the driving cab, the accommodation being either fixed or dismantable.

#### 721.3.1.3

##### **mobile home**

transportable leisure accommodation vehicle that includes means for mobility but does not meet the requirements for the construction and use of road vehicles

#### 721.3.1.4

##### **residential park home**

a factory produced relocatable dwelling

### 721.31 Purposes, supplies and structure

#### 721.313 Supplies

**721.313.1.2** The nominal supply system voltage shall be selected from HD 472 S1:1989 + Corr. 2002.

The nominal a.c. supply voltage of the installation of the caravan shall not exceed 230 V single-phase, or 400 V three-phase.

The nominal d.c. supply voltage of the installation of the caravan shall not exceed 48 V.