

STN	Obytné vozidlá na voľný čas Karavany Časť 1: Požiadavky na obytný priestor z hľadiska zdravia a bezpečnosti	STN EN 1645-1 30 0271
------------	--	---

Leisure accommodation vehicles - Caravans - Part 1: Habitation requirements relating to health and safety

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/26

Obsahuje: EN 1645-1:2025

Oznámením tejto normy sa od 30.06.2027 ruší
STN EN 1645-1 (30 0271) z novembra 2018

142057

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 1645-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

ICS 43.100

Supersedes EN 1645-1:2018

English Version

Leisure accommodation vehicles - Caravans - Part 1: Habitation requirements relating to health and safety

Véhicules habitables de loisirs - Caravanes - Partie 1 :
Exigences d'habitation relatives à la santé et à la
sécurité

Bewohnbare Freizeitfahrzeuge - Caravans - Teil 1:
Anforderungen an den Wohnbereich hinsichtlich
Gesundheit und Sicherheit

This European Standard was approved by CEN on 12 October 2025.

CEN 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 CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN 1645-1:2025 (E)

Contents	Page
European foreword	4
Introduction	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Testing	7
5 Design and construction	8
5.1 Occupancy	8
5.2 Rigidity	8
5.3 Stabilization steady	8
5.4 Grab handles	8
5.5 Entrance steps	8
5.5.1 Heights	8
5.5.2 Minimum tread dimensions	9
5.5.3 Mechanical strength	9
5.5.4 Slip resistance test, stability test	9
5.6 Doors	9
5.6.1 Dimensions	9
5.6.2 Securing doors	9
5.7 Awning rail	10
6 Internal equipment	10
6.1 Bunks	10
6.1.1 Mattress and/or upholstery	10
6.1.2 Clearance	10
6.1.3 Clearance of drop-down bunks	10
6.1.4 Protection against falling out	10
6.1.5 Mechanical strength	11
6.1.6 Security of bunks	11
6.1.7 Access to high level bunks	11
6.1.8 Protection against entrapment	12
6.2 Cupboards	12
6.3 Cooking appliance	12
7 Drinking water supply, storage and disposal of waste water	12
7.1 Couplings for drinking water supply	12
7.2 Drinking water	12
7.2.1 Tanks	12
7.2.2 Materials	12
7.2.3 Marking	12
7.3 Waste water disposal tank	13
7.4 Toilet waste disposal	13
7.4.1 Discharge systems	13
7.4.2 Outlets and couplings from toilet waste holding tanks	13
8 Appliances	13
8.1 Installation of appliances	13
8.2 Restriction concerning the supply of appliances	13
9 Classification of thermal insulation and heating	13

10	Installations.....	14
10.1	Electricity.....	14
10.1.1	Low voltage	14
10.1.2	Extra low voltage (DC)	14
10.2	Liquefied petroleum gas (LPG).....	14
10.3	Liquid fuel	14
11	Ventilation.....	15
12	Fire precautions.....	15
12.1	Means of escape.....	15
12.1.1	Emergency exits	15
12.1.2	Escape path	15
12.1.3	Sanitation compartments	15
12.1.4	Emergency doors	15
12.1.5	Interior doors.....	16
12.1.6	Emergency windows and emergency panels.....	16
12.1.7	Work surfaces	18
12.1.8	Heating and cooking equipment	18
12.2	Protection of combustible elements.....	18
12.2.1	Rigid or guided elements	18
12.2.2	Non-guided elements	18
12.3	Hotplates.....	19
13	Warning notice	19
13.1	Provision of warning notice.....	19
13.2	Content of warning notice	19
14	User's handbook	20
	Annex A (normative) Rigidity test (see 5.2).....	22
	Annex B (normative) Grab handle test (see 5.4)	24
	Annex C (normative) Strength of steps (see 5.5.3, 12.1.6)	26
	Annex D (normative) Slip resistance test (see 5.5.4.1)	28
	Annex E (normative) Separate entrance step stability test (see 5.5.4.2)	30
	Annex F (normative) Clear height over bunks (see 6.1.2)	32
	Annex G (normative) Strength of protection against falling out of bunks (see 6.1.4)	33
	Annex H (normative) Mechanical strength of bunks (see 6.1.5)	34
	Annex I (normative) Security of folding bunks (see 6.1.6)	35
	Annex J (normative) Safety of access to high level bunks (see 6.1.7)	36
	Annex K (normative) Measurement of gaps (see 6.1.8).....	38
	Annex L (normative) Thermal insulation – Method of calculation (see Clause 9)	40
	Annex M (normative) Determination of the thermal transmittance for caravans — Test method (see Clause 9).....	46
	Annex N (normative) Test equipment.....	48
	Annex O (informative) Environmental aspects.....	51
	Bibliography	52

EN 1645-1:2025 (E)**European foreword**

This document (EN 1645-1:2025) has been prepared by Technical Committee CEN/TC 245 “Leisure accommodation vehicles”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2026, and conflicting national standards shall be withdrawn at the latest by June 2027.

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

This document supersedes EN 1645-1:2018.

EN 1645-1:2025 includes the following significant technical changes with respect to EN 1645-1:2018:

- a) requirements for caravans with a plan area greater than 6,5 m² included throughout the document;
- b) requirements for escape path (12.1.2) modified;
- c) requirement for size of step under escape window included in 12.1.6;
- d) change from “flammable” to “combustible”;
- e) amendment of 5.2 “rigidity”;
- f) amendment of 5.3 “Corner steadies”;
- g) amendment of 5.5.1 “Heights”;
- h) amendment of 5.6 “Doors” referring the dimensions;
- i) 6.1.3 “Clearance of drop-down bunks” added;
- j) amendment of 6.1.4.3 “Protection by curtains or nets”;
- k) amendment of 6.1.7 “Access to high level bunks”;
- l) amendment of Clause 7 “Drinking water supply, storage and disposal of waste water”;
- m) amendment of 8.1 “Installation of appliances”;
- n) amendment of 12.2.1 “Rigid or guided elements”;
- o) amendment of Annex A “Rigidity test”
- p) amendment of Annex C “Strength of entrance steps”;
- q) amendment of Annex F “Clear height over bunks”;
- r) amendment of test equipment for load spreading platform for bunks (N.5).

EN 1645, *Leisure accommodation vehicles — Caravans*, is currently composed of the following parts:

— *Part 1: Habitation requirements relating to health and safety.*

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

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

EN 1645-1:2025 (E)

Introduction

Figure 1 gives an overview of the relevant standards for caravans, motor caravans and caravan holiday homes.

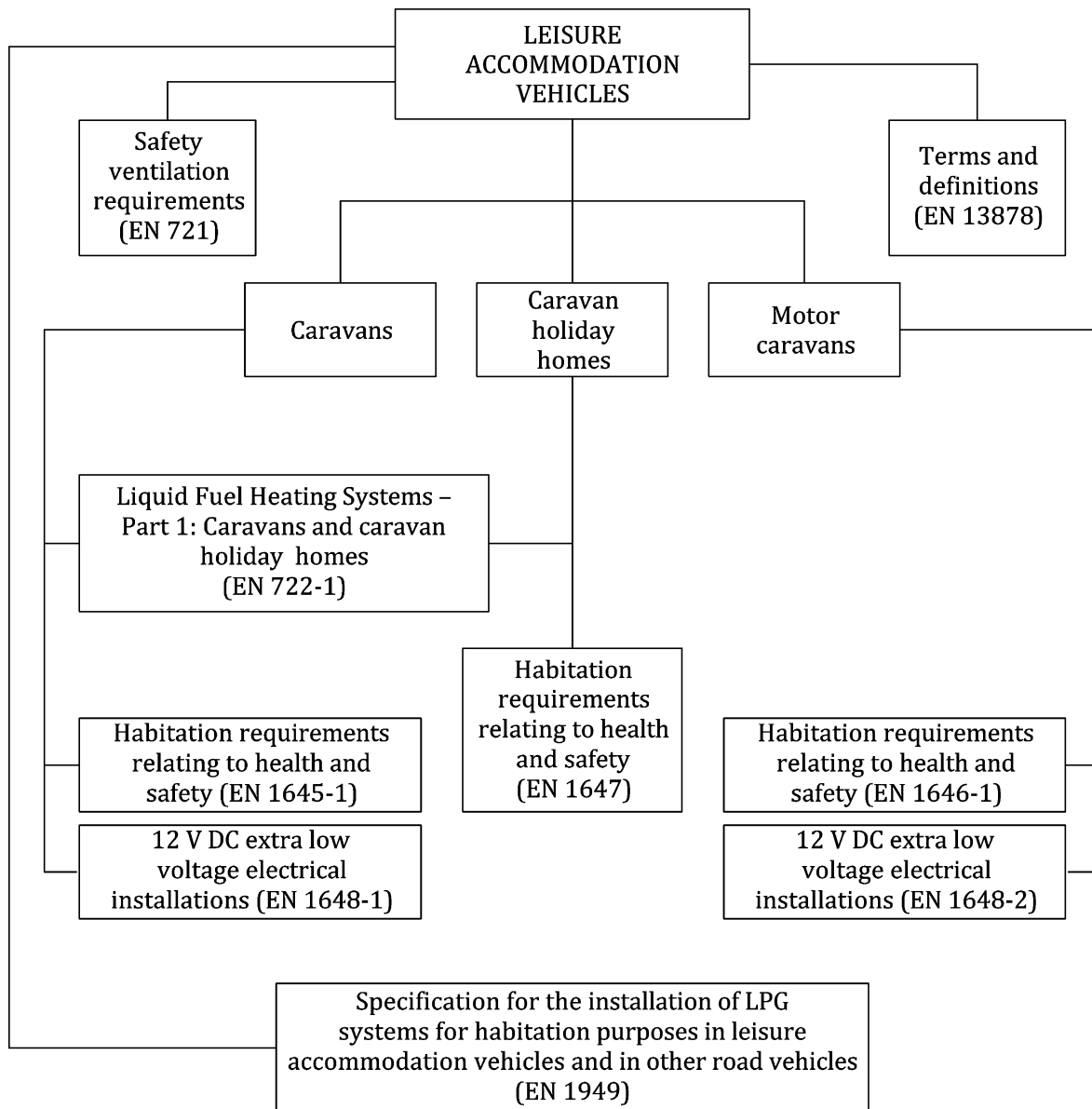


Figure 1 — Overview of relevant standards applying to leisure accommodation vehicles

1 Scope

This document specifies requirements intended to ensure the safety and health of people when they use caravans for temporary or seasonal habitation.

It also specifies the corresponding test methods.

Requirements applicable to road safety are not included in the scope of this document.

This document is applicable exclusively to rigid and rigid folding caravans as defined in EN 13878.

2 Normative references

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.

EN 3-7, *Portable fire extinguishers — Part 7: Characteristics, performance requirements and test methods*

EN 721, *Leisure accommodation vehicles - Safety ventilation requirements*

EN 722-1, *Leisure accommodation vehicles - Liquid fuel heating systems - Part 1: Caravans and caravan holiday homes*

EN 1648-1, *Leisure accommodation vehicles - 12 V direct current extra low voltage electrical installations - Part 1: Caravans*

EN 1949, *Specification for the installation of LPG systems for habitation purposes in leisure accommodation vehicles and accommodation purposes in other vehicles*

EN 13878, *Leisure accommodation vehicles - Terms and definitions*

EN 13501-1:2018, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

EN ISO 8936, *Awnings for leisure accommodation vehicles - Requirements and test methods (ISO 8936)*

HD 60364-7-721, *Low-voltage electrical installations - Part 7-721: Requirements for special installations or locations - Electrical installations in caravans and motor caravans(IEC 60364-7-121)*

ISO 4649:2024, *Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN