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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 1646-1:2025 sisaldab Euroopa standardi EN 1646-1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 10.12.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 1646-1:2025 consists of the English text of the European standard EN 1646-1:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 10.12.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

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

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

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

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

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

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

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European foreword

This document (EN 1646-1:2025) 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of an identical text or by endorsement, at the latest by June 2026, and conflicting national standards shall be withdrawn at the latest by June 2027.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 1646-1:2018.

EN 1646-1:2025 includes the following significant technical changes with respect to EN 1646-1:2018:

- a) change from “flammable” to “combustible”
- b) amendment of 5.2.1 “Heights”;
- c) 6.1.2.1 modified for motor caravans;
- d) amendment 5.1 “Occupancy”;
- e) 6.1.3 “Clearance of drop-down bunks” added;
- f) amendment of 6.1.4.3 “Protection by curtains or nets”;
- g) amendment of 6.1.7 “Access to high level bunks”;
- h) amendment of Clause 7 “Drinking water supply, storage and disposal of waste water”;
- i) amendment of 8.1 “Installation of appliances”;
- j) amendment of 10.1.2 “Extra low voltage (DC)”;
- k) amendment of 12.3 “Hotplates”;
- l) amendment of Annex A “Mechanical strength of entrance step”
- m) amendment of Clause D.2 “Preparation and procedure” in Annex D “Clear height over bunks”;
- n) amendment of test equipment for load spreading platform for bunks (Clause K.5)
- o) normative references updated.

EN 1646, *Leisure accommodation vehicles — Motor 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.

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Introduction

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

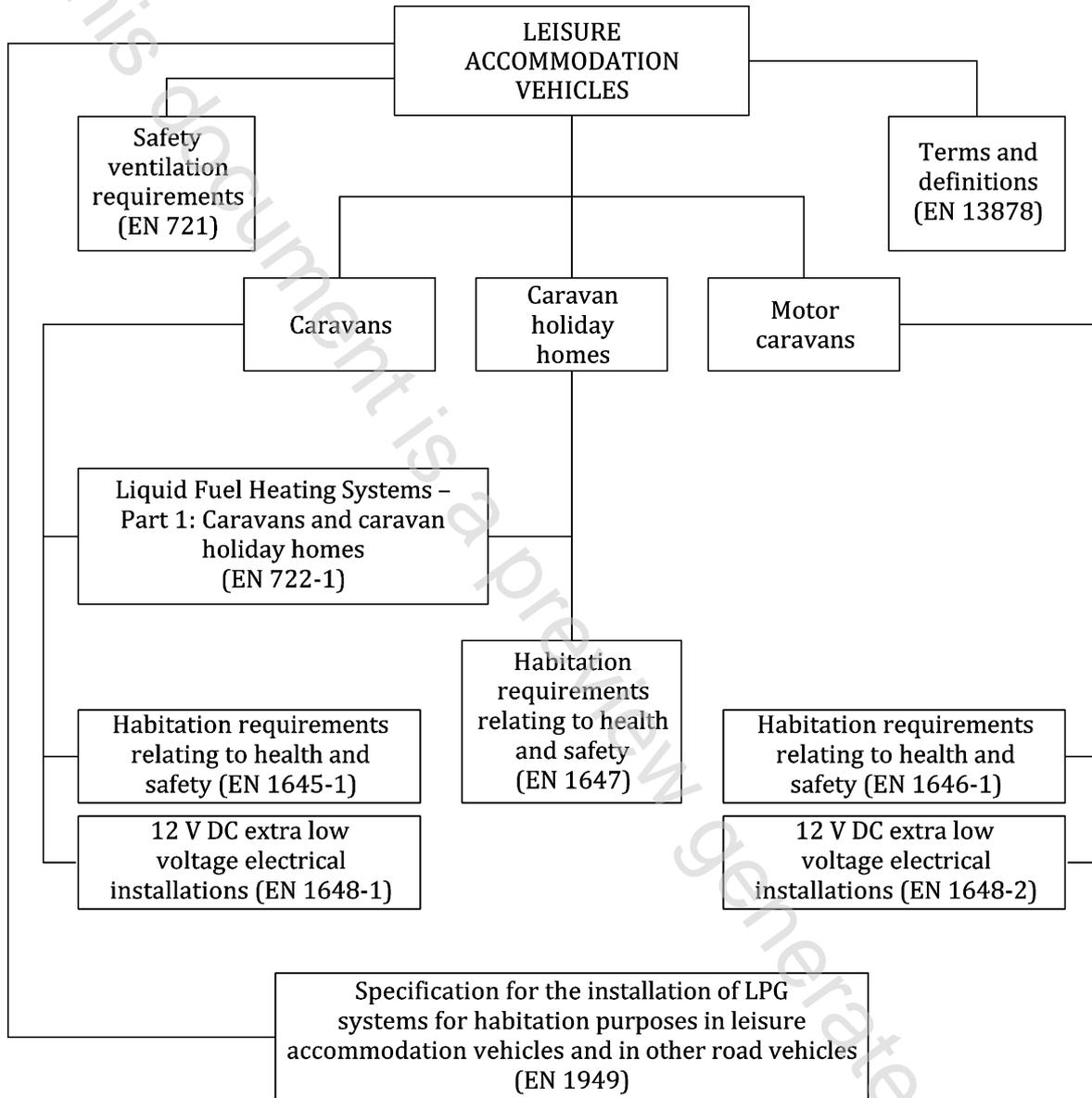


Figure 1 — Overview of relevant standards applying to leisure accommodation vehicles

1 Scope

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

It also specifies the corresponding test methods.

Specific requirements of this document apply to motor caravans where the overall length multiplied by the overall width does not exceed 13,5 m² plan area.

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

This document is applicable exclusively to motor 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 721, *Leisure accommodation vehicles - Safety ventilation requirements*

EN 1648-2, *Leisure accommodation vehicles - 12 V direct current extra low voltage electrical installations - Part 2: Motor caravans*

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

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

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

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 60364-7-721)*

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13878 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Testing

The tests described in Annex A to Annex K are intended to verify that a motor caravan representative of a given model, including its fixtures and fittings, meets the requirements of this document.

These tests are intended to simulate the most onerous conditions, for the relevant characteristics.