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## Carrier cycles - Part 7: Cargo trailers

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 17860-7:2024 sisaldab Euroopa standardi EN 17860-7:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.12.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 17860-7:2024 consists of the English text of the European standard EN 17860-7:2024.</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 18.12.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

## Carrier cycles - Part 7: Cargo trailers

Cycles utilitaires - Partie 7 : Remorques cargo

Lastenfahrräder - Teil 7: Anhänger

This European Standard was approved by CEN on 4 November 2024.

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

<b>Contents</b>	<b>Page</b>
European foreword .....	4
Introduction .....	5
<b>1</b> Scope.....	<b>6</b>
<b>2</b> Normative references.....	<b>6</b>
<b>3</b> Terms and definitions .....	<b>7</b>
<b>4</b> Cargo trailer cycle combination .....	<b>7</b>
<b>5</b> General vehicle requirements.....	<b>7</b>
5.1 Accuracy tolerances of test conditions for brake tests and strength tests .....	7
5.2 Design of the surface requirements.....	7
5.3 Securing and strength of safety-relevant fasteners.....	7
5.4 Mudguards/wheel covers .....	7
5.4.1 Requirement.....	7
5.4.2 Test method .....	7
5.5 Deflection device.....	8
5.6 Position of payload.....	9
5.7 Recommendations for loading areas/load securing.....	9
5.8 Braking .....	9
5.8.1 General.....	9
5.8.2 Hand-operated brakes .....	9
5.8.3 Requirements for test method on a test track.....	9
5.8.4 Brake performance testing .....	11
5.9 Parking and stability .....	12
5.9.1 Parking — Requirements.....	12
5.9.2 Parking stability while loading.....	12
5.10 Tipping stability .....	13
5.10.1 Static tipping stability .....	13
5.10.2 Dynamic tipping stability.....	13
5.11 Dynamic tipping stability - double lane change test.....	14
5.11.1 Requirement.....	14
5.11.2 Test method .....	14
5.12 Drawbar .....	15
5.12.1 Drawbar position for single and multi-axle cargo trailer .....	15
5.12.2 Drawbar clearance .....	15
5.12.3 Drawbar strength test.....	16
5.12.4 Drawbar static test.....	18
5.13 Secondary safety device .....	18
5.13.1 Requirements.....	18
5.13.2 Test method strength secondary safety device.....	19
5.13.3 Test method automatic brake system .....	19
<b>6</b> Frame .....	<b>19</b>
6.1 Suspension frames - special requirements.....	19
6.2 Requirements for all frame types .....	19
6.3 Dynamic test with horizontal forces .....	19
6.3.1 General.....	19
6.3.2 Determination of test loads.....	20

6.3.3	Test method.....	20
6.4	Dynamic test with vertical forces onto the loading point.....	21
6.4.1	General.....	21
6.4.2	Test method.....	21
6.5	Dynamic test with lateral forces.....	22
6.5.1	General.....	22
6.5.2	Requirement.....	24
6.5.3	Test method.....	24
6.6	Frame - Brake mount test.....	26
6.6.1	Requirements.....	26
6.6.2	Brake mount fatigue test.....	26
6.6.3	Brake mount static torque test.....	27
7	Front wheel fork.....	27
7.1	General.....	27
7.2	Installation of the axle and wheel fastening.....	27
7.3	Front wheel fork - Static bending test.....	27
7.4	Front wheel forks - Dynamic bending test.....	27
7.5	Front wheel forks - Rearward impact test.....	28
7.6	Front forks for use with hub or disc brakes.....	28
7.6.1	Requirements.....	28
7.6.2	Front fork for hub/disc brake — Dynamic test of the brake mounting.....	28
7.6.3	Front fork for hub/disc brake - Static braking torque test.....	28
8	Wheel and wheel/tyre unit - Dynamic test for cargo trailers.....	28
9	Wheels and wheel/tyre assembly.....	28
9.1	Wheels/tyre assembly - Concentricity tolerance and lateral tolerance.....	28
9.2	Wheel/tyre assembly - Clearance.....	28
9.3	Wheel/tyre assembly - static strength test.....	28
9.4	Wheels - Wheel retention.....	28
10	Rims, tyres and tubes.....	29
11	Drive chain and drive belt.....	29
11.1	Requirement.....	29
11.2	Test method.....	29
12	Guard for chain-wheel set and belt drive.....	29
12.1	Requirement.....	29
12.2	Test method.....	29
13	Lighting systems and reflectors.....	29
14	Cargo trailer visibility.....	29
15	Rear view.....	29
16	Warning device.....	29
17	Vibrations, ergonomics and design of work equipment.....	30
18	Structural integrity test.....	30
19	User instructions.....	30
20	Markings.....	32
20.1	Cargo trailer marking.....	32
20.2	Components marking.....	33
	Bibliography.....	34

## European foreword

This document (EN 17860-7:2024) has been prepared by Technical Committee CEN/TC 333 “Cycles”, the secretariat of which is held by UNI.

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 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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 is part of standard series consisting of the following parts:

- EN 17860-1:2024, Carrier cycles — Part 1: Terms and definitions
- EN 17860-2:2024, Carrier cycles — Part 2: Lightweight single track carrier cycles — Mechanical aspects
- EN 17860-3:2024, Carrier Cycles — Part 3: Lightweight multi track carrier cycles — Mechanical aspects
- prEN 17860-4:2024, Carrier Cycles — Part 4: Heavy weight carrier cycles — Mechanical and functional aspects
- EN 17860-5:2024, Carrier cycles — Part 5: Electrical aspects
- prEN 17860-6:2024 Carrier Cycles — Part 6: Passenger transport
- EN 17860-7:2024, Carrier cycles — Cargo trailers

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.

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## Introduction

This document gives requirements and test methods for mechanical and functional aspects for cargo trailers.

This document has been developed in response to demand throughout Europe. Its aim is to provide a standard for the assessment of mechanical aspects for cargo trailers of a type which are excluded from type approval by Regulation (EU) No. 168/2013.

Because of the diversity of geometries and solutions of trailers not all requirements and test methods in this document may apply to every trailer.

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## 1 Scope

This document specifies safety requirements and test methods for single and multi-axle cargo trailers and their connecting devices.

This document applies to cargo trailers with a maximum gross vehicle weight of 600 kg.

This document is not applicable to trailers for the transportation of passengers, usually children, and for types of trailers that use a fifth wheel for connecting to the front cycles (semi-trailer) as listed in Table 1 in this document.

**Table 1 — Types of cycle trailers**

Type of trailer	Applicability of this document
Multi track single axle	Applicable
Multi track multi axle	Applicable
Single track with single axle or multi axle	Not applicable
Fifth wheel trailer (semi-trailer) with single axle or multi axle	Not applicable
<b>Usage</b>	
Cargo	Applicable
People/children/pet	Not applicable

NOTE 1 Requirements and test methods for electrical assistance for electrically assisted cargo trailers are covered by EN 17860-5:2024.

NOTE 2 For cargo trailers having a maximum gross weight of up to 60 kg, see EN 15918:2011 + A2 Cycles – Cycle trailers.

## 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 15918:2011+A2:2017, *Cycles — Cycle trailers — Safety requirements and test methods*

EN 17860-1:2024, *Carrier cycles — Part 1: Terms and definitions*

EN 17860-2:2024, *Carrier cycles — Part 2: Lightweight single track carrier cycles — Mechanical aspects*

EN 17860-3:2024, *Carrier cycles — Part 3: Lightweight multi track carrier cycles — Mechanical aspects*

FprEN 17860-5:2024, *Cycles — Carrier cycles — Part 5: Electrical aspects*

EN ISO 4210-2:2023, *Cycles — Safety requirements for bicycles — Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles (ISO 4210-2:2023)*

EN ISO 4210-3:2023, *Cycles — Safety requirements for bicycles — Part 3: Common test methods (ISO 4210-3:2023)*

EN ISO 4210-4:2023, *Cycles — Safety requirements for bicycles — Part 4: Braking test methods (ISO 4210-4:2023)*

EN ISO 4210-6:2023, *Cycles — Safety requirements for bicycles — Part 6: Frame and fork test methods (ISO 4210-6:2023)*

EN ISO 4210-8:2023, *Cycles — Safety requirements for bicycles — Part 8: Pedal and drive system test methods (ISO 4210-8:2023)*

ISO 6742-3:2023, *Cycles — Lighting and retro reflective devices — Part 3: Installation and use of lighting and retro reflective devices*

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

### **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in EN 17860-1:2024 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 Cargo trailer cycle combination**

The recommended maximum gross vehicle weight of the cargo trailer is:

- 600 kg when the trailer is pulled by a multi track carrier cycle;
- 350 kg when the trailer is pulled by a bicycle, EPAC or single track carrier cycle.

### **5 General vehicle requirements**

#### **5.1 Accuracy tolerances of test conditions for brake tests and strength tests**

EN 17860-2:2024, 5.2 applies.

#### **5.2 Design of the surface requirements**

EN 17860-2:2024, 5.1 applies.

#### **5.3 Securing and strength of safety-relevant fasteners**

EN 17860-2:2024, 5.2 applies.

#### **5.4 Mudguards/wheel covers**

##### **5.4.1 Requirement**

The requirements in accordance with EN ISO 4210-2:2023, 4.11 apply.

##### **5.4.2 Test method**

The test shall be conducted in accordance with EN ISO 4210-3:2023, 4.2.