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SIST-TS CEN/TS 18209:2026

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Oprema in pribor za utekočinjeni naftni plin (UNP) - Pregledi nosilcev za prevoz jeklenk

LPG equipment and accessories - Cylinders transportation racks controls

Flüssiggas-Geräte und Ausrüstungsteile- Überprüfungen von Flaschentransportgestellen

Équipements pour GPL et leurs accessoires - Contrôle des casiers de transport de bouteilles

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ICS:

23.020.35 Plinske jeklenke Gas cylinders

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TECHNICAL SPECIFICATION
SPÉCIFICATION TECHNIQUE
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CEN/TS 18209

December 2025

ICS 23.020.35

English Version

**LPG equipment and accessories - Cylinders transportation
racks controls**

Équipements pour GPL et leurs accessoires - Contrôle
des casiers de transport de bouteilles

Flüssiggas-Geräte und Ausrüstungsteile-
Überprüfungen von Flaschentransportgestellen

This Technical Specification (CEN/TS) was approved by CEN on 17 November 2025 for provisional application.

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European foreword

This document (CEN/TS 18209:2025) has been prepared by Technical Committee CEN/TC 286 “LPG Equipment and Accessories”, the secretariat of which is held by NSAI.

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.

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CEN/TS 18209:2025 (E)

Introduction

No design and manufacturing standards exist within CEN/TC 286 despite documented cases of logistical and road incidents where cylinders have fallen from racks either within an operational site or in transit.

Considering the variety of cylinders, operations and racks (cages) in Europe, this document specifies the operational procedures and best practices when checking transportation racks for LPG cylinders before and during loading and unloading prior to the vehicles going on the road and at any break during the journey. This document does not provide requirements for rack design and manufacturing, nevertheless ISO 13194 has been identified as providing some requirements and test methods for pallets.

Design and manufacturing of such equipment takes into account both the static and dynamic load that racks will experience in service.

Protection of the environment is a key political issue in Europe and elsewhere. For CEN/TC 286 this is covered in CEN/TS 16765 and this Technical Specification should be read in conjunction with this document. The Technical Specification provides guidance on the environmental aspects to be considered regarding equipment and accessories produced for the LPG industry and the following is addressed:

- a) design;
- b) manufacture;
- c) packaging;
- d) use and operation;
- e) disposal.

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1 Scope

This document specifies the operational procedures and best practices when checking transportation racks for LPG cylinders before and during loading and unloading prior to the vehicles going on the road and at any break during the journey.

This document applies to racks containing transportable refillable LPG cylinders of water capacity from 0,5 l up to and including 150 l.

This document applies to the following equipment:

- rack frame/structure;
- rack closures;
- rack fixing equipment or accessories on to the vehicle.

This document applies to checks performed:

- at cylinder filling plants and depots;
- or at cylinder manufacturing and/or refurbishment facilities;
- or at any place where racks are used or moved.

This document also provides guidance and examples for rack maintenance and repair procedures, including rejection criteria and for establishing operational procedures. Transportation racks are also called stillages, pallets or racks (see Clause 3).

This document does not cover the design and the manufacturing of racks.

This document does not apply to presentation display racks at points of sale.

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 12195-1, *Load restraining on road vehicles — Safety — Part 1: Calculation of securing forces*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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/>

3.1

transportation rack

rigid structure or assembly designed for the safe storage and transport of LPG cylinders, intended for manual and/or automatic loading and unloading and designed to be stacked

Note 1 to entry: Details on transportation racks structure and accessories are detailed in Annex A.