
**Road vehicles — Coupling balls for
caravans and light trailers — Dimensions**

*Véhicules routiers — Boules d'attelage pour caravanes et remorques
légères — Caractéristiques dimensionnelles*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 1103 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 4, *Caravans and light trailers*.

This fourth edition cancels and replaces the third edition (ISO 1103:1996), which has been technically revised.

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Road vehicles — Coupling balls for caravans and light trailers — Dimensions

1 Scope

This International Standard lays down the dimensions necessary for the compatibility of mechanical coupling devices between light trailers or caravans and towing vehicles, when the latter are fitted with a coupling ball. The clearance space around the coupling ball is intended to allow coupling and decoupling of towed vehicles, as well as safe operation during coupling and uncoupling of mechanical devices.

This International Standard applies to coupling balls designed to couple caravans and light trailers of categories O_1 and O_2 ¹⁾ to vehicles of categories M or N. It does not necessarily apply to special trailers drawn by special vehicles.

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.

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*

ISO 1302:2002, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*

ISO 3853:1994, *Road vehicles — Towing vehicle coupling device to tow caravans or light trailers — Mechanical strength test*

UN-ECE Regulation No.26, *Uniform provisions concerning the approval of vehicles with regard to their external projections*

UN-ECE Regulation No.55, Revision 1:2001, *Uniform provisions concerning the approval of mechanical couplings components of combinations of vehicles*

1) Definitions from UN-ECE Regulation No.13, incorporating the 06 series of amendments:

- Category O_1 : Single-axle trailers, other than semi-trailers, with a maximum mass not exceeding 0,75 t;
- Category O_2 : Trailers with a maximum mass not exceeding 3,5 t other than trailers of category O_1 ;
- Category M: Motor vehicles with at least 4 wheels designed and made for the transport of passengers;
- Category N: Motor vehicles with at least 4 wheels designed and made for the carriage of goods.