
International Standard



3842

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Road vehicles — Fifth wheel mounting

Véhicules routiers — Fixation des coupleurs d'attelage

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Descriptors : road vehicles, towed road vehicles, semitrailers, couplings, specifications, assembling, positioning.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3842 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

ISO 3842 was first published in 1976. This second edition cancels and replaces the first edition, of which it is a technical revision.

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Road vehicles — Fifth wheel mounting

1 Scope

This International Standard lays down the dimensional characteristics necessary for mounting and interchangeability of the fifth wheel on the frame¹⁾ of towing vehicles for semi-trailers.

2 Field of application

This International Standard applies to the fifth wheels intended to hitch on semi-trailers equipped with a

- 50 coupling pin as defined in ISO 337;
- 90 coupling pin as defined in ISO 4086.

3 References

ISO 337, *Road vehicles — 50 semi-trailer fifth wheel coupling pin — Basic and mounting/interchangeability dimensions.*

ISO 4086, *Road vehicles — 90 semi-trailer fifth wheel coupling pin — Basic and mounting/interchangeability dimensions.*

4 General requirements

4.1 Fifth wheel

The fifth wheel shall be pierced by twelve holes of 17 mm diameter as shown in the figure. However, holes elongated in the transverse direction are permitted.

4.2 Mounting

4.2.1 Fifth wheel for 50 coupling pin

The fifth wheel mounting shall be bolted to the frame with M16 bolts. Mounting of the fifth wheel on the frame of the towing vehicle is adequate with eight M16 bolts, minimum property class 8.8, placed symmetrically with respect to the longitudinal and transverse axes of the fifth wheel.

4.2.2 Fifth wheel for 90 coupling pin

The fifth wheel mounting shall be bolted to the frame with twelve M16 bolts, minimum property class 8.8.

1) By the word "frame" is meant: sub-frame, mounting plate or brackets.