

INTERNATIONAL STANDARD

ISO
2416

Third edition
1992-05-01

Passenger cars — Mass distribution

Voitures particulières — Répartition des masses

Sample Document

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Reference number
ISO 2416:1992(E)

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. Each 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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.

International Standard ISO 2416 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 6, *Terms and definitions of dimensions and masses*.

This third edition cancels and replaces the second edition (ISO 2416:1976), of which it constitutes a technical revision.

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International Organization for Standardization

Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Passenger cars — Mass distribution

1 Scope

This International Standard defines the distribution of the transportable mass for passenger cars, and specifies

- a conventional average mass for passengers, and
- a conventional mass for luggage.

The total of the masses thus defined represents nominal design pay mass for a given vehicle.

This International Standard applies to passenger cars as defined in ISO 3833.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3832:1991, *Passenger cars — Luggage compartments — Method of measuring reference volume*.

ISO 3833:1977, *Road vehicles — Types — Terms and definitions*.

ISO 6549:1980, *Road vehicles — Procedure for H-point determination*.

3 Terms and conventional values

3.1 Conventional mass of passenger, m_p

The conventional mass of a passenger without luggage is fixed at $m_p = 68$ kg.

3.2 Conventional mass of luggage, m_b

The conventional mass of luggage, for each passenger, is fixed at $m_b = 7$ kg.

3.3 Nominal design pay mass, m_t

The nominal design pay mass, m_t , shall meet the following inequality:

$$m_t \geq (m_p + m_b) \times n$$

where n is the number of seating places as defined by the manufacturer.

3.4 Nominal mass of transportable goods, m_{tr}

The nominal mass of transportable goods, m_{tr} , is determined by the following formula:

$$m_{tr} = m_t - m_p \times n_o$$

where

n_o is the number of occupied seats;

m_t is as defined in 3.3;

m_p is as defined in 3.1.

4 Mass distribution

4.1 General requirements

None of the permissible axle loads shall be exceeded.

4.2 Passenger cars with invariable volume of luggage compartment

4.2.1 Passengers

The centre of respective masses is situated, in accordance with ISO 6549, as specified in either a) or b):