
**Road vehicles — Anchorages in vehicles
and attachments to anchorages for child
restraint systems —**

Part 3:
**Classification of child restraint
dimensions and space in vehicle**

*Véhicules routiers — Ancrages dans les véhicules et attaches aux
ancrages pour systèmes de retenue pour enfants —*

*Partie 3: Classification des dimensions des retenues pour enfants et
espace dans le véhicule*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13216-3 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 12, *Passive safety crash protection systems*.

ISO 13216 consists of the following parts, under the general title *Road vehicles — Anchorages in vehicles and attachments to anchorages for child restraint systems*.

- *Part 1: Seat bight anchorages and attachments*
- *Part 2: Top tether anchorages and attachments*
- *Part 3: Classification of child restraint dimensions and space in vehicle*

Introduction

The basic ISOFIX standard ISO 13216-1 provides requirements needed for positioning of the seat bight anchorages, the geometry around anchorage points and, to some extent, dimensional requirements for forward-facing child restraint systems.

In order to ensure that a child restraint system fully fits in a vehicle, it is also essential that the vehicle interior and the child restraint system match each other spatially. This part of ISO 13216 provides requirements for the space needed in vehicles to accommodate child restraints, in particular for rearward-facing child restraint systems.

Not all vehicles on the market are capable of accommodating the largest child restraint systems. This part of ISO 13216 thus provides a rough classification system to help in judging which types and sizes of child restraint systems will fit in the vehicle. Three size classes of forward-facing systems and three size classes of rearward-facing systems are provided. In addition, two classes of lateral-facing systems are included.

A suggested marking of the space available for the respective child restraint positions in the vehicle, and for the child restraint system dimensions, is included in this part of ISO 13216 to help consumers choose a child restraint system that is dimensionally suitable for their vehicle. This information is shown in informative Annex A.

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Road vehicles — Anchorages in vehicles and attachments to anchorages for child restraint systems —

Part 3: Classification of child restraint dimensions and space in vehicle

1 Scope

This part of ISO 13216 classifies the spatial requirements in a vehicle to enable a child restraint system (CRS) to be conveniently mounted. It also specifies the dimensions of child restraint systems, in order to ensure that they will fit in vehicles.

A classification scheme is provided to determine dimensional compatibility between child restraint systems and the available space at specified seating positions in vehicles. The dimensional requirements refer to forward-facing child restraint systems of three size categories, rearward-facing child restraint systems of three size categories, and lateral-facing child restraint systems of two categories.

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 6549, *Road vehicles — Procedure for H- and R-point determination*

ISO 13216-1:1999, *Road vehicles — Anchorages in vehicles and attachments to anchorages for child restraint systems — Part 1: Seat bight anchorages and attachments*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13216-1, ISO 6549 and the following apply.

3.1

child restraint envelope

envelope simulating the dimensions of a child restraint system of a specified class, used in this part of ISO 13216 to evaluate the space available for child restraint systems in a vehicle at a specified seating position

NOTE The child restraint envelope is also used to identify the dimensional class for a given child restraint system.