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Interested committees:

Title: Draft BS ISO 29061-1 Road vehicles — Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems. Part 1: Vehicles and child restraint systems equipped with ISOFIX anchorages and attachments.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

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- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 29061-1

Road vehicles — Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems —

Part 1: Vehicles and child restraint systems equipped with ISOFIX anchorages and attachments

Véhicules routiers — Méthodes et critères pour l'évaluation de la facilité d'utilisation des systèmes de retenue pour enfants, et leurs interfaces avec les systèmes d'ancrage dans le véhicule —

Partie 1: Véhicules et systèmes de retenue pour enfants équipés d'ancrages et d'attaches ISOFIX

ICS: 43.040.80

This document is circulated as received from the committee secretariat.

ISO/TC 22/SC 36

Secretariat: **AFNOR**

Voting begins on:
2025-03-05

Voting terminates on:
2025-05-28

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 36, *Safety and impact testing*.

This second edition cancels and replaces the first edition (ISO 29061-1:2010), which has been technically revised.

The main changes compared to the previous edition are as follows:

- Reviewed terminology to cover technology and regulation updates since the first edition;
- Editorial review.

A list of all parts in the ISO 29061 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The usability of a child restraint system (CRS) in terms of ease of:

- installation of child restraint systems in various vehicles; and
- day-to-day use with a child (e.g. securing, harnessing, adaption for a growing child, etc.)

is of utmost importance to ensure that a child restraint system is used properly in accordance with the manufacturer's intentions, and to ensure that a correctly installed CRS will provide the best possible protection in a crash situation. An international agreement on usability criteria and measurements is beneficial for both consumers and manufacturers.

The aim of this document is to provide a usability evaluation system for ISOFIX systems to promote improved ISOFIX design for easy and correct use.

It provides child restraint and vehicle manufacturers with a tool for the assessment of the usability of new and current ISOFIX systems. At the same time, it provides consumers (parents and caregivers) with usability information on the key features related to the proper use of the ISOFIX system and assists them in selecting CRSs and vehicles with ISOFIX systems that are easier to use properly.

The ISO usability evaluation system has been developed with participation from, and considering the experiences from, usability rating systems of Canada (Transport Canada and ICBC), USA (NHTSA, IIHS), EU (NPACS and consumer rating programmes, such as ICRT, ADAC).

Road vehicles — Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems —

Part 1: Vehicles and child restraint systems equipped with ISOFIX anchorages and attachments

1 Scope

This document provides criteria for judgement of usability of child restraint systems (CRSs) with ISOFIX attachments and their corresponding anchorage systems in the vehicle.

This document provides criteria for a separate evaluation of the CRS ISOFIX attachments, of the ISOFIX anchorage installation in the vehicle, and an evaluation of the interface issues when installing a CRS in a certain vehicle.

This document covers both rigid and flexible attachments of the CRS to the vehicle ISOFIX anchorages.

NOTE 1 CRS includes enhanced child restraint system (ECRS) according to UN Regulation No. 129.

NOTE 2 Although ISOFIX is defined in the original "ISOFIX" standard (ISO 13216-1) to be a rigid system, the term "ISOFIX" in this document is extended to include flexible CRS attachments (e.g LATCH in USA, UAS in Canada).

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.

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 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 anchorage

part of the universal interface provided in a vehicle

Note 1 to entry: See also *ISOFIX anchorages* (3.9.2), *top tether anchorage* (3.17.1) and *lower tether anchorage* (3.13).