TECHNICAL SPECIFICATION

ISO/TS 13396

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Road vehicles — Sled test method to enable the evaluation of side impact protection of child restraint systems — Essential parameters

Véhicules routiers — Méthode d'essai sur chariot pour permettre l'évaluation de la protection en choc latéral des dispositifs de retenue pour enfants — Paramètres essentiels

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Foreword

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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 document cancels and replaces ISO/PAS 13396:2009, which has been technically revised.

The main changes compared to ISO/PAS 13396 are as follows:

— accident statistics data have been further reviewed;

— input parameter data related to intrusion have been reviewed and supplemented with new data;

— based on the new and supplementary data presented, a judgement is made whether the ISO/PAS 13396 parameter recommendations are still valid.

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

In 2008, the United Nations (UN) GRSP Informal Working Group on Child Restraint Systems (CRS) sent a request to ISO asking ISO's CRS working group to support their work on defining a side impact test procedure for CRS type approval based on state-of-the-art research and experience. It was specifically requested to define the **essential parameters** of a simplified test method, to ensure that a CRS has a sufficient capacity to contain the child and to absorb energy in the case of side impact exposure.

In response, a Publicly Available Specification was developed, published as ISO/PAS 13396:2009[1)]. This comprised a series of essential parameters that a side impact test procedure should seek to replicate. Much of the technical content was derived from a previous Technical Report, ISO/TR 14646:2007, with updated information where available.

In conjunction with a systematic review of ISO/PAS 13396:2009, it was decided to verify its applicability in relation to more recent accident data and the vehicle technology development.

This document reflects the review of ISO/PAS 13396:2009 considering the relevant accident data updates available and the in-depth vehicle data.

Since this document is a check of the applicability of the ISO/PAS 13396 data (on which the CRS side impact method in UN Regulation No. 129 is based), the ISO/PAS 13396 parameter recommendations are included together with the supplementary information, to judge whether an update of the parameter recommendations should be made.

1) Cancelled and replaced by this document (ISO/TS 13396:2021).