

BS ISO 15829:2013



BSI Standards Publication

Road vehicles — Side impact test procedures for the evaluation of occupant interactions with side airbags by pole impact simulation

bsi.

...making excellence a habit.
AVA Documents™
Document Sharing Hub

National foreword

This British Standard is the UK implementation of ISO 15829:2013. It supersedes BS ISO 15829:2004 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee AUE/15, Safety related to vehicles.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2013. Published by BSI Standards Limited 2013

ISBN 978 0 580 57586 0

ICS 43.020

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2013.

Amendments issued since publication

Date	Text affected
------	---------------

Road vehicles — Side impact test procedures for the evaluation of occupant interactions with side airbags by pole impact simulation

Véhicules routiers — Modes opératoires d'essai de choc latéral pour l'évaluation des interactions des occupants avec les sacs gonflables latéraux par simulation d'une collision contre un poteau





COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Test facility and equipment	2
4.1 Impact test site	2
4.2 Pole	2
5 Test configurations	2
5.1 Angle of impact	2
5.2 Locus of the impact on the test vehicle	2
5.3 Impact velocity	4
6 Preparation of the test vehicle	5
6.1 Mass of the test vehicle	5
6.2 Condition of the test vehicle	6
7 Test devices	6
8 Instrumentation	6
8.1 General	6
8.2 Vehicle instrumentation	6
8.3 High speed photography	7
9 Impact response measurements	8
Bibliography	10

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 15829 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 10, *Impact test procedures*.

This second edition cancels and replaces the first edition (ISO 15829:2004), which has been technically revised.

Introduction

Side airbags/curtains (SAB) are deployable devices intended to help reduce the risk of injury to the head or the chest or the pelvis of vehicle occupants in side impact collisions. Side impact accident data indicate that the vehicle side is most likely to contact a passenger car, a truck or a fixed object, such as a pole or a tree. Accident data also indicate that serious to fatal injury in side impact is most likely to occur to the head and chest regions.