

# INTERNATIONAL STANDARD

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## Road vehicles — Offset frontal impact test procedure

*Véhicules routiers — Mode opératoire d'essai de choc frontal décalé*



Reference number  
ISO 15828:2004(E)

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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.

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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 15828 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 10, *Impact test procedures*.

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# Road vehicles — Offset frontal impact test procedure

## 1 Scope

This International Standard specifies a full scale test procedure for frontal offset deformable barrier impacts, that will ensure such tests are conducted under the same conditions. It is applicable to passenger cars and light trucks as defined in ISO 3833 with dummies in front seat positions.

## 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 209-1, *Wrought aluminium and aluminium alloys — Chemical composition and forms of products — Part 1: Chemical composition*

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*

ISO 3833, *Road vehicles — Types — Terms and definitions*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

ISO 8721, *Road vehicles — Measurement techniques in impact tests — Optical instrumentation*

ISO/TR 12349-1, *Road vehicles — Dummies for restraint system testing — Part 1: Adult dummies*

FMVSS 208, *Occupant crash protection*<sup>1)</sup>

NHTSA TP-214D, *Dynamic side impact protection*<sup>2)</sup>

SAE J211-1, *Instrumentation for Impact Test — Part 1: Electronic Instrumentation*<sup>3)</sup>

SAE J211-2, *Instrumentation for Impact Test — Part 2: Photographic Instrumentation*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **deformable barrier face**

energy-absorbing barrier face mounted on the front of a rigid block

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1) FMVSS, Federal Motor Vehicle Safety Standards and Regulations.

2) NHTSA, National Highway Traffic Safety Administration, US Department of Transportation.

3) SAE, Society of Automotive Engineers.