



Transport
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TECHNICAL STANDARDS DOCUMENT No. 214, Revision 0

Side Impact Protection

The text of this document is based on *Federal Motor Vehicle Safety Standard No. 214, Side Impact Protection*, as published in the United States *Code of Federal Regulations*, Title 49, Part 571, revised as of October 1, 2014.

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(Ce document est aussi disponible en français)

Introduction

As defined by section 12 of the *Motor Vehicle Safety Act*, a Technical Standards Document (TSD) is a document that is published by the Minister, as provided for in the regulations, that adapts, or that reproduces in whole or in part in the official languages of Canada, an enactment of a foreign government or material produced by an international organization. The adaptations may include amendments to the content of the originating enactment or material. Furthermore, the *Motor Vehicle Safety Regulations (MVSR)* may contain provisions setting out that the provisions of the Regulations prevail over the provisions of the TSD in the case of inconsistency. Consequently, it is advisable to read a TSD in conjunction with the Act and its counterpart Regulation. As a guide, where the MVSR contains a provision that specifies additional requirements or removes requirements from the TSD, footnotes will refer the reader to that provision of the MVSR.

TSDs are amended from time to time to include amendments made to the originating enactment or material, with adaptations as required. When the TSD is amended, a Notice of Revision is published in the *Canada Gazette* Part I. All TSDs are assigned a revision number, with “Revision 0” designating the initial version.

Identification of Changes

Adaptations may be made that include amendments to the content of the originating enactment or material. Such adaptations are marked as follows:

- Underlined text indicates text that is not part of the originating enactment or material and which therefore represents additional text in comparison to the originating text.
- Struck out text is text reproduced from the originating enactment or material that has been deleted from the TSD and thus it is not to be read as part of the TSD nor as part of the material incorporated by reference into the MVSR.
- “CONTENT NOT REPRODUCED” informs the reader that the text of the corresponding provision of the originating enactment or material has not been reproduced in the TSD.

Publication, Effective and Mandatory Compliance Dates

The publication date is the date the TSD appears on the Transport Canada website.

The effective date of an initial TSD (revision 0) is the date of coming into force of the provision of the MVSR that incorporates it by reference (the incorporating provision).

Similarly, the effective date of a revised TSD (e.g. revision 1) that is accompanied by an amendment to the incorporating provision of the MVSR is the date of coming into force of the amended incorporating provision.

The effective date of a revised TSD (e.g. revision 2) that is not accompanied by an amendment to the incorporating provision of the MVSR is the date of publication of the TSD.

The mandatory compliance date is the date upon which compliance with the requirements of the TSD is required by law. If the effective date and mandatory compliance date are different, a manufacturer may follow the requirements that were applicable before the effective date, or those of the TSD, until the mandatory compliance date.

Official Version of Technical Standards Documents

The PDF version is a replica of the TSD as published by the Department and is to be used for the purposes of legal interpretation and application.

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S1. Scope and purpose

- (a) *Scope.* This ~~TSD standard~~ specifies performance requirements for protection of occupants in side impacts.
- (b) *Purpose.* The purpose of this ~~TSD standard~~ is to reduce the risk of serious and fatal injury to occupants of passenger cars, multipurpose passenger vehicles, trucks and buses in side impacts by specifying strength requirements for side doors, limiting the forces, deflections and accelerations measured on anthropomorphic dummies in test crashes, and by other means.

S2. [CONTENT NOT REPRODUCED]

S3. Definitions

Contoured means, with respect to a door, that the lower portion of its front or rear edge is curved upward, typically to conform to a wheel well.

Double side doors means a pair of hinged doors with the lock and latch mechanisms located where the door lips overlap.

Limited line manufacturer means a manufacturer that sells three or fewer carlines, as that term is defined in Chapter V, Title 49, part 583.4 of the Code of Federal Regulations 49 CFR 583.4, in the United States during a production year.

Lowered floor means the replacement floor on a motor vehicle whose original floor has been removed, in part or in total, and replaced by a floor that is lower than the original floor.

Modified roof means the replacement roof on a motor vehicle whose original roof has been removed, in part or in total.

Raised roof is used as defined in paragraph S4 of Chapter V, Title 49, part 571.216 of the Code of Federal Regulations 49 CFR 571.216.

~~*Walk-in van* means a special cargo/mail delivery vehicle that has only one designated seating position. That designated seating position must be forward facing and for use only by the driver. The vehicle usually has a thin and light sliding (or folding) side door for easy operation and a high roof clearance that a person of medium stature can enter the passenger compartment area in an up-right position.~~

S4. Requirements. Subject to the exceptions of S5—

- (a) *Passenger cars.* Passenger cars must meet the requirements set forth in S6 (door crush resistance), S7 (moving deformable barrier test), and S9 (vehicle-to-pole test), subject to the phased-in application of S7 and S9.
- (b) *Multipurpose passenger vehicles, trucks and buses with a GVWR of 2,722 kg or less (6,000 lb or less).* Multipurpose passenger vehicles, trucks and buses with a GVWR of 2,722 kg or less (6,000 lb or less) must meet the requirements set forth in S6 (door

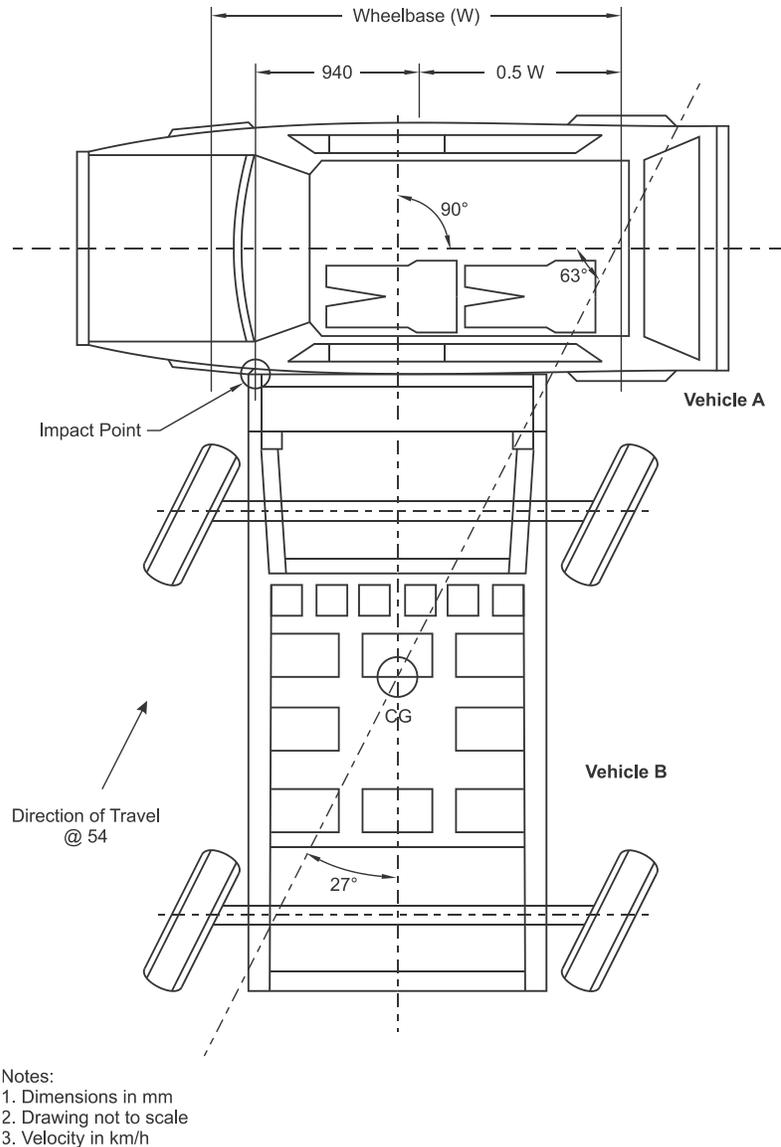


Figure 3 – TEST CONFIGURATION

S9. Vehicle-To-Pole Requirements

S9.1 Except as provided in S5, when tested under the conditions of S10:

S9.1.1 [CONTENT NOT REPRODUCED]

S9.1.2 ~~Except as provided in S9.1.3 of this section, each vehicle manufactured on or after September 1, 2014, must meet the requirements of S9.2.1, S9.2.2 and S9.2.3, when tested under the conditions specified in S10 into a fixed, rigid pole of 254 mm (10 inches) in diameter, at any speed up to and including 32 km/h (20 mph). All vehicles manufactured on or after September 1, 2014 must meet S9.1.2 without the use of advance credits.~~

S9.1.3 [CONTENT NOT REPRODUCED]

