



BSI Standards Publication

**Impact test procedures for road vehicles
— Seating and positioning procedures for
anthropomorphic test devices — Procedure for
the WorldSID 50th percentile male side-impact
dummy in front outboard seating positions**

National foreword

This British Standard is the UK implementation of ISO 17949:2013+A1:2017. It supersedes BS ISO 17949:2013, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by A1 A1.

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

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Impact test procedures for road vehicles — Seating and positioning procedures for anthropomorphic test devices — Procedure for the WorldSID 50th percentile male side-impact dummy in front outboard seating positions

Procédures d'essai de choc pour véhicules routiers — Procédures d'installation et de positionnement des dispositifs d'essais anthropomorphes — Procédure pour le mannequin WorldSID, 50ème percentile homme, de choc latéral pour positions de conducteur et passager avant droit





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Foreword

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The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 10, *Impact test procedures*.

Introduction

WorldSID is a world harmonized anthropomorphic test device for the evaluation of motor vehicle side-impact protection.

The aim of this International Standard is to provide a repeatable seating and positioning procedure that can be applied across the world vehicle fleet.

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1 Scope

This International Standard specifies the conditions and requirements for the recommended placement of the WorldSID 50th percentile male side-impact dummy (WS50), as defined in ISO 15830-1, ISO 15830-2, ISO 15830-3, and ISO 15830-4, when used in front outboard seating positions of motor vehicles for side-impact testing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15830-1, *Road vehicles — Design and performance specifications for the WorldSID 50th percentile male side-impact dummy — Part 1: Terminology and rationale*

ISO 15830-2, *Road vehicles — Design and performance specifications for the WorldSID 50th percentile male side-impact dummy — Part 2: Mechanical subsystems*

ISO 15830-3, *Road vehicles — Design and performance specifications for the WorldSID 50th percentile male side-impact dummy — Part 3: Electronic subsystems*

ISO 15830-4, *Road vehicles — Design and performance specifications for the WorldSID 50th percentile male side impact dummy — Part 4: User's manual*

SAE J 826, *Devices for use and defining and measuring vehicle seating accommodation*

3 Terms and definitions

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

3.1

test seat

seating position, driver, or front passenger that is to be evaluated

3.2

sagittal plane

vertical plane that divides the human body into left/right sections

Note 1 to entry: See [Figure 1](#).

3.3

coronal plane

vertical plane that is perpendicular to the sagittal plane and that divides the human body into anterior/posterior sections

Note 1 to entry: See [Figure 1](#).