

AS 2596:2022



STANDARDS  
Australia



# **Seat belt assemblies for motor vehicles (United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16:2020 (Rev. 10) MOD)**



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AS 2596:2022

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# Seat belt assemblies for motor vehicles (United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16/2020 (Rev. 10) MOD)

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## Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CS-075, Seat Belts for Use in Motor Vehicles to supersede AS/NZS 2596:2003, *Seat belt assemblies for motor vehicles (ECE Regulation No. 16, MOD)*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to provide minimum performance requirements for seat belt assemblies and part assemblies to promote the provision of a high level of protection for adults and larger children travelling in motor vehicles.

This document is an adoption with national modifications and has been reproduced from United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16:2020 (Rev. 10), *Uniform provisions concerning the approval of (i) safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles and (ii) vehicles equipped with safety belts, safety belt reminders, restraint systems, child restraint systems and ISOFIX child restraint systems and i-size child restraint systems* and its Amendments 1 and 2 (2021), which have been added at the end of the source text after Annex 18.

The modifications are additional requirements and are set out in [Appendices ZA](#) to [ZG](#), which have been added at the end of the source text after Amendment 2.

[Appendix ZZ](#) lists the variations to UN Regulation No. 16:2020 (Rev. 10) for the application of this document in Australia. [Appendices ZA](#) to [ZG](#) set out the following:

- (a) [Appendix ZA](#) — Instructions.
- (b) [Appendix ZB](#) — Order of tests.
- (c) [Appendix ZC](#) — Recommendations for anchorage of seat belt assemblies.
- (d) [Appendix ZD](#) — Product conformity.
- (e) [Appendix ZE](#) — Safety-belt installation matrix.
- (f) [Appendix ZF](#) — Determination of the minimum length of a seat belt.
- (g) [Appendix ZG](#) — Bibliography.

As this document has been reproduced from a UN Regulation, the following applies:

- (i) In the source text “this Regulation” should read “this document”.
- (ii) Where a number follows the word “Regulation”, in referring to another document, insert “UN” before the word “Regulation”.
- (iii) In the source text, “paragraph” should read “clause”.
- (iv) Where units are shown as daN, the value should be multiplied by 10 and the unit expressed as newtons (N).
- (v) In the source text, “strap” should read “webbing”.
- (vi) For the purposes of this document, Annexes 10 and 18 are “normative” and Annexes 3, 4, 5, 6 and 7 are “informative”.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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# Australian Standard

## Seat belt assemblies for motor vehicles (United Nations Economic Commission for Europe (UNECE), UN Regulation No. 16:2020 (Rev. 10) MOD)

### 1. Scope

This Regulation applies to:

- 1.1. Vehicles of category M, N, O, L<sub>2</sub>, L<sub>4</sub>, L<sub>5</sub>, L<sub>6</sub>, L<sub>7</sub> and T<sup>1</sup>), with regard to the installation of safety-belts and restraint systems which are intended for separate use, i.e. as individual fittings, by persons of adult build occupying forward-facing, rearward-facing and side-facing seats;
- 1.2. Safety-belts and restraint systems which are intended for separate use, i.e. as individual fittings, by persons of adult build occupying forward-facing, rearward-facing and side-facing seats, and are designed for installation in vehicles of category M, N, O, L<sub>2</sub>, L<sub>4</sub>, L<sub>5</sub>, L<sub>6</sub>, L<sub>7</sub> and T<sup>1</sup>);
- 1.3. Vehicles of category M<sub>1</sub> and N<sub>1</sub><sup>1</sup> with regard to the installation of child restraint systems and ISOFIX child restraint systems.
- 1.4. All seating positions in vehicle categories M and N fitted with safety belt with regard to safety belt reminder.
- 1.5. At the request of the manufacturer, it also applies to the installation of child restraint systems and ISOFIX child restraint systems designated for installation in vehicles of categories M<sub>2</sub> and M<sub>3</sub>.
- 1.6. At the request of the manufacturer, it also applies to safety-belts designated for installation on side-facing seats in vehicles of category M<sub>3</sub> (Class II, III or B<sup>1</sup>).
- 1.7. At the request of the manufacturer, it also applies to installing i-Size child restraint systems, in those i-Size seating positions are defined by the vehicle manufacturer.

### 2. Definitions

#### 2.1. Safety-belt (seat-belt, belt)

An arrangement of straps with a securing buckle, adjusting devices and attachments which is capable of being anchored to the interior of a power-driven vehicle and is designed to diminish the risk of injury to its wearer, in the event of collision or of abrupt deceleration of the vehicle, by limiting the mobility of the wearer's body. Such an arrangement is generally referred to as a "belt assembly", which term also embraces any device for absorbing energy or for retracting the belt.

The arrangement can be tested and approved as a safety-belt arrangement or as a restraint system.

#### 2.1.1. Lap belt

A two-point belt which passes across the front of the wearer's pelvic region.

<sup>1</sup> As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3), document ECE/TRANS/WP.29/78/Rev.6, para. 2 - [www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html](http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html)