

1235—1991 **Roof racks and roof bars for passenger vehicles** 17pp F

Specifies requirements for the design, construction, testing and labelling of load-carrying racks and bars intended for mounting on or above the roofs of passenger vehicles. Applies to roof bars and roof racks which attach to the roof gutters or other attachment points. Types covered are general purpose roof racks and roof bars, ski bars, surfboard or sailboard bars, bicycle racks, boat racks, luggage container racks, spoilers, fishing rod holders and single-sided roof racks. Performance tests are included in appendices.

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Australian Standard®

**Roof racks and roof bars for
passenger vehicles**



STANDARDS AUSTRALIA



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Australian Automobile Association
Australian Automotive Aftermarket Association
Australian Consumers Association
Australian Federation of Consumer Organizations
Australian Retailers Association
Federal Chamber of Automotive Industries
Federation of Automotive Products Manufacturers
Institute of Automotive Mechanical Engineers
Metal Trades Industry Association of Australia
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passenger vehicles**

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PREFACE

This Standard was prepared by Standards Australia's Committee on Car Roof Bars to supersede AS 1235—1983, *Roof bars for motor vehicles*.

The first edition of this Standard originated from a request by the Road Safety Council of New South Wales, now disbanded. The request originally related to the carriage of surfboards on car roofs, but as the result of a preliminary conference on the subject it was decided that this should be extended to include all types of roof bars.

This edition has been expanded to cover roof racks as well as roof bars including a range of specialist racks and bars. It is based on the German Standard, DIN 75302 *Roof racks for passenger cars*, but has been modified to suit the conditions and the types of products found in Australia.

The Standard directs attention to the fact that the maximum loads specified for roof bars may be greater than the maximum loads for car roofs recommended by vehicle manufacturers, and also to statutory requirements regarding the maximum permissible projection from vehicles.

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STANDARDS AUSTRALIA

Australian Standard

Roof racks and roof bars for passenger vehicles

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies requirements for load-carrying bars and racks intended for mounting on or above the roofs of passenger vehicles.

It is applicable to the following types of roof racks and roof bars (which may or may not attach to the roof gutters of the vehicle):

- (a) General purpose roof bars.
- (b) General purpose roof rack.
- (c) Ski bars.
- (d) Surfboard or sailboard bars.
- (e) Bicycle rack.
- (f) Boat rack.
- (g) Luggage container rack.
- (h) Spoiler.
- (i) Fishing rod holder.
- (j) Single-sided roof rack.

1.2 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

- AS
2331 Methods of test for metallic and related coatings
2331.3.1 Method 3.1: Corrosion and related property tests—Neutral salt spray (NSS) test

Federal Department of Transport
Australian Design Rules for Motor Vehicles and Trailers (3rd Edition)

1.3 DEFINITIONS. For the purpose of this Standard the following definitions apply.

1.3.1 Roof rack—a frame intended for mounting on the roof of a passenger vehicle.

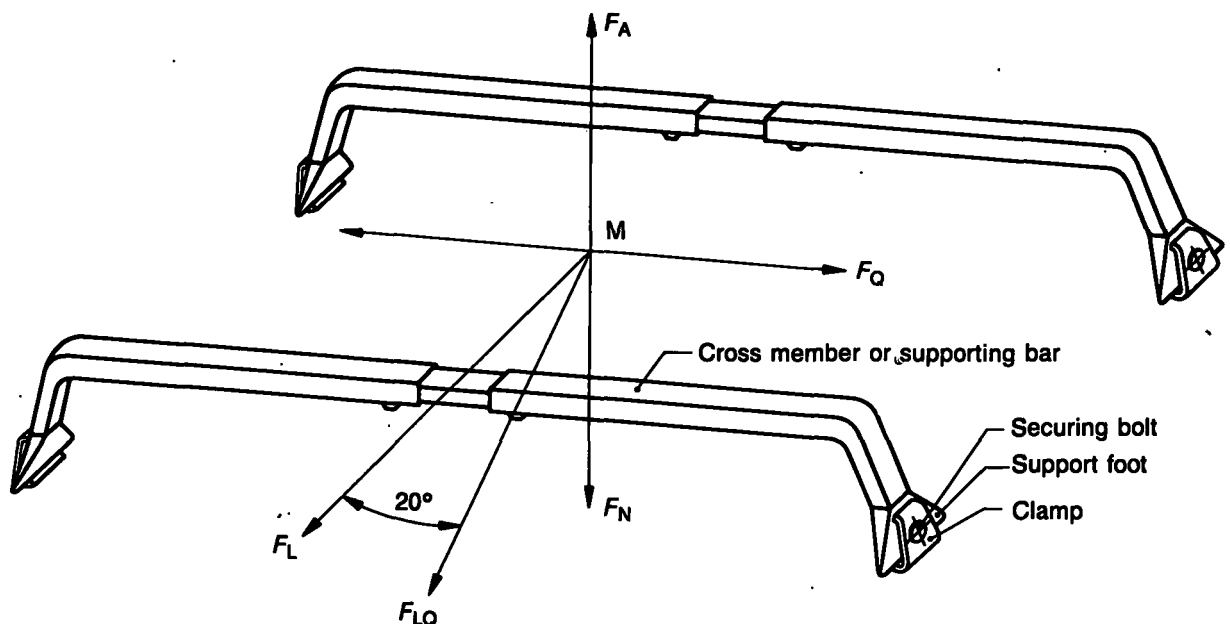
1.3.2 Roof bars—separate front and rear bars and supports, intended for mounting on the roof of a passenger vehicle (see Figure 1.1).

1.3.3 Passenger vehicle—a passenger car, forward-control passenger vehicle or off-road passenger vehicle as defined in the Australian Design Rule (ADR) classifications MA, MB and MC.

1.3.4 Seating reference plane (SRP)—the vertical plane which bisects the driver's seat and runs longitudinally through the vehicle parallel to the centreline of the vehicle (see Figure 1.2).

NOTE: The seating reference plane may be taken as bisecting the head restraint of the driver's seat for vehicles with bench seats.

1.3.5 Nominal width of the turret of a vehicle—twice the distance from the centreline of the vehicle to a reference point midway between the seating reference plane and the vehicle's maximum width station (see Figure 1.2).



NOTE: The directions F_L , F_{LQ} , F_O , and F_A are referred to in Appendix B.

FIGURE 1.1 TYPICAL ROOF BARS

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