

DRAFT INTERNATIONAL STANDARD ISO/DIS 11154

ISO/TC 22/SC 14 Secretariat: AENOR

Voting begins on: Voting terminates on:

2006-02-14 2006-07-17

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEXICHAPOCHAS OPPAHU3ALUR FIO CTAHDAPTU3ALUR • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Roof load carriers

Véhicules routiers — Dispositifs porte-charges de toit

ICS 43.040.60

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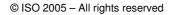
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Foreword

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote; TANDARD PREVIEW
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an international Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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/PAS 11154 was prepared by Technical Committee ISO/TC 22, Road Vehicles, Subcommittee SC 14, Exterior fitting.

This second/third/... edition cancels and replaces the first/second/... edition (ISO 11154-1:1995, ISO 11154-4:2004), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

Introduction

This International standard ISO 11154 specifies the minimum safety requirements for roof load carrier intended for mounting on or above the roof of passengers cars and light commercial vehicles with a maximum authorised total mass up to 3,5 t (ISO M 08).

Considering the state of the art and the ongoing work on the revision of DIN 75302, a city crash test and a short dynamic test were added. Furthermore part1 to 4 were merged into a single document. German and French Committee members declared their whish to replace their existing national standard by this revised version of ISO 11154.

Standardised test bench method of sub-systems which could be used as an alternative of the road test are still under development. Alternative method to city crash test might also be considered.

For some products as for example ladder holder, national regulation has to be considered.

At the time of publication, dedicated roof bars complying with car manufacturers specifications already on sales or under development was considered satisfactory. They are encouraged to apply this International standard for their products as soon as possible.

At the time of publication, roof load carriers developed to previous ISO 11154 series or equivalent national standards were considered satisfactory.

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WORKING DRAFT ISO/PDPAS 11154.6

Road vehicles — Roof load carriers



1 Scope

This International standard specifies the minimum safety requirements for all roof load carriers intended for mounting on or above the roofs of passenger cars and light commercial vehicles with a maximum authorised total mass up to 3,5 t (ISO MO8) as defined in ISO 1176:

It applies to:

- a) mechanically attached general-use roof bars suitable for carrying load,
- b) accessories and their attachments to roof bars for special purpose applications,
- c) mechanically attached specific purpose roof devices suitable for carrying a defined load,
- d) magnetic fixing devices suitable for carrying a defined load.

SAFETY PRECAUTIONS — This International standard is not applicable to vacuum fixing devices and roof container (boxes) with magnetic fixation. The experience with and testing results of those devices shows that those devices are not able to guarantee a minimum safety level for carrying goods on either vehicle roof or rear.

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This International standard establishes technical specifications and test methods which offer both the user of the roof load carriers, others road users and pedestrians a minimum level of safety when these fixing devices are being used in accordance with the manufacturer's instructions.

Moreover, the requirements of ISO 11154 complete the provisions of Directive 74/483 EEC and ECE R 26 concerning these products.

For additional devices intended for example to limit the movement of the load, requirements and test methods are not defined in this international standard. If needed both manufacturer and laboratories has to work out additional test(s) or choose the most appropriate test(s) described in this International standard.

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.

ISØ 612: 1978, Road vehicles – Dimensions of motor vehicles and towed vehicles – Terms and definitions

ISQ 4130, Ròad∖vehicles – Three dimensional reference system and fiducial marks – Definitions

ISO 6487, Fload vehicles – measurement techniques in impact test - instrumentation

ISO 9227: 1990, Corrosion test in artificial atmospheres – Salt spray tests

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4130 and the following apply,

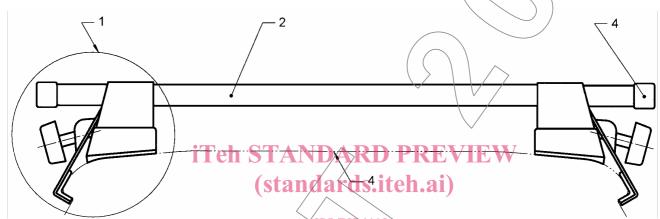
3.1 roof bar

supporting bar with connecting devices which enables a load to be carried on the roof of a vehicle

NOTE1 Generally, roof bars are compatible with the use of additional accessories.

NOTE2 Roofs bars are fixed on the roof or on original-equipment rails of the vehicle.

NOTE3 An example of components of a roof bar is given in figure 1.



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Key

- 1 Connecting devices
- 2 Supporting bar
- 3 Vehicle roof
- 4 End-cap

Figure 1—Components of roof bar

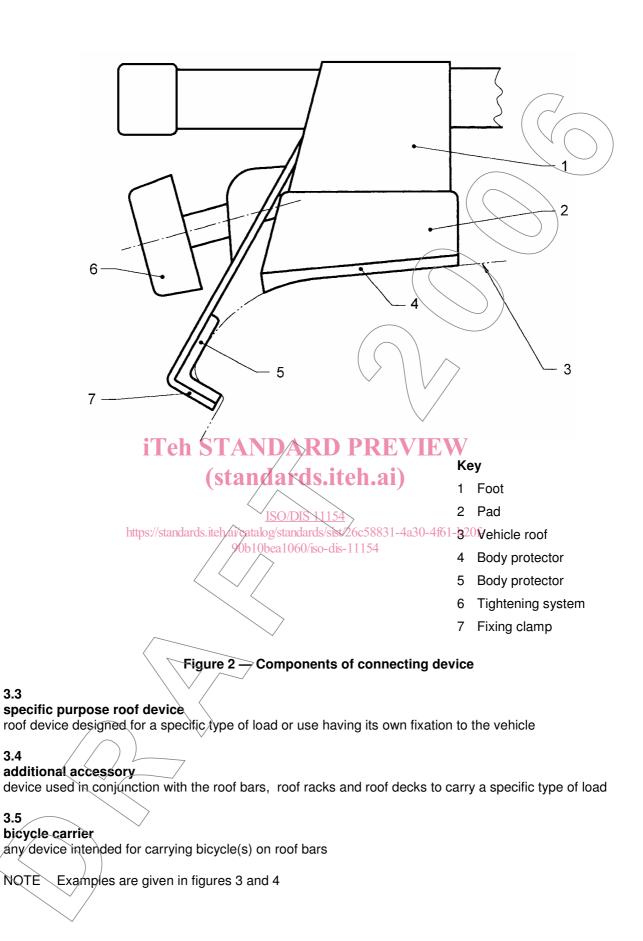
3.2

connecting device

set of parts connecting the supporting bar to the vehicle

NOTE Examples of connecting device components are given in figure 1 and 2

3



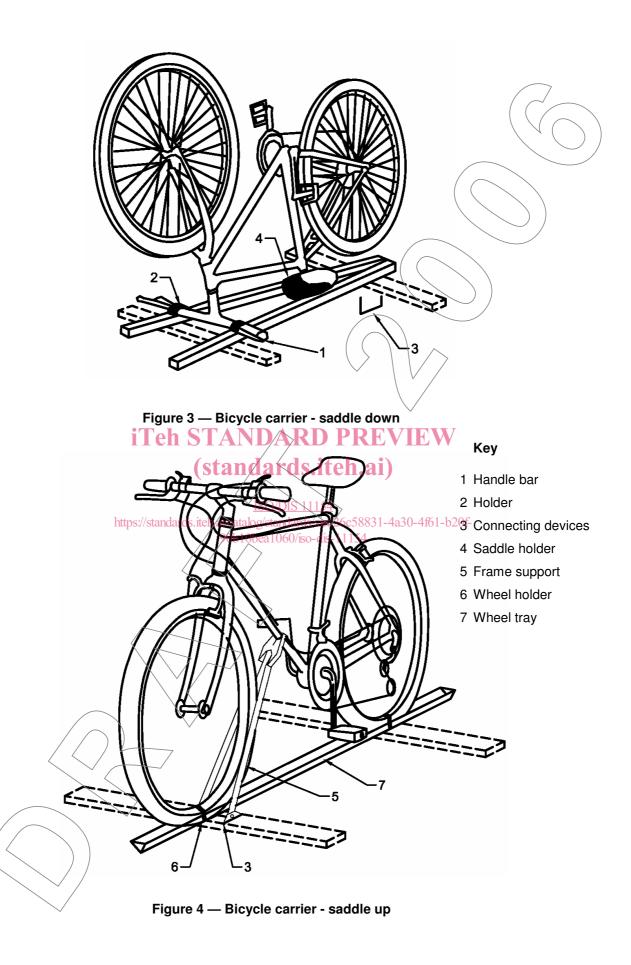
3.3

3.4

3.5

NOTE

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3.6 bicycle-wheel carrier

any device intended for carrying bicycle wheel(s) on roof bars, roof decks or roof racks

NOTE Examples are given in figure 5

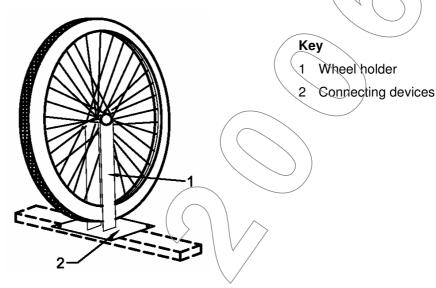


Figure 5 — bicycle-wheel carrier

3.7

ski and/or snow-board carrier (standards.iteh.ai)
any device intended for carrying ski(s), snow-board(s) and/or sticks on roof bars, roof decks or roof racks

NOTE Examples are given in figure 6 https://standards.lich.arcatalog/standards/sist/26c58831-4a30-4f61-b20f-90b10bea1060/iso-dis-11154

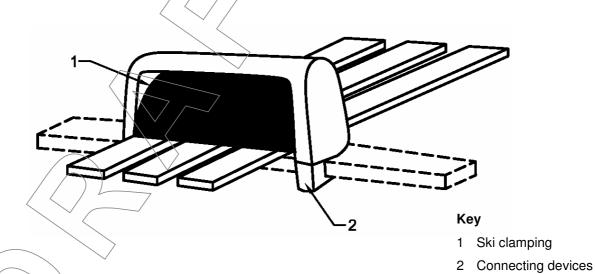


Figure 6 — ski and/or snow-board carrier

sailboard and/or surfboard carrier

any device intended for carrying sailboard(s) with or without mast and boom and/or surfboard(s) on roof bars, roof decks or roof racks

NOTE Examples are given in figure 7

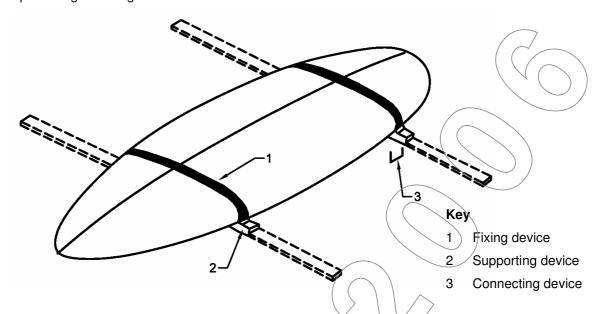
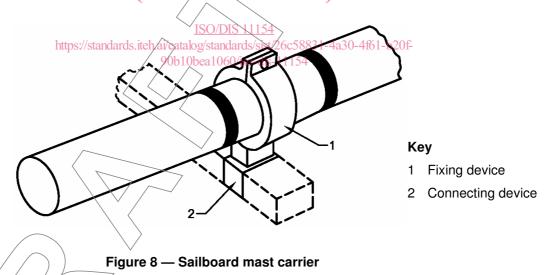


Figure 7 — Sailboard and/or surfboard carrier

3.9 sailboard mast carrier

any device intended for carrying sailboard mast(s) on roof bars, , roof decks or roof racks

NOTE Examples are given in figure 8 (standards.iteh.ai)



3.10 roof container

containers intended for the transport of different loads as suit-cases, bags, skis... on roof bars , roof decks or roof racks

NOTE / Examples are given in figure 9

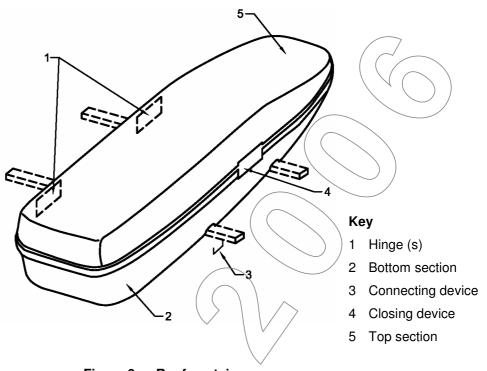


Figure 9 — Roof container iTeh STANDARI

3.11

wind deflector (standards.iteh.ai)
device intended for modifying the aerodynamic drag (e.g. when towing caravan) fixed on roof bars, roof decks or roof racks

NOTE Examples are given in figure 10 atalog/standards/s 26c58831-4a30-4f61-b20fb10bea1060/iso-dis-11154

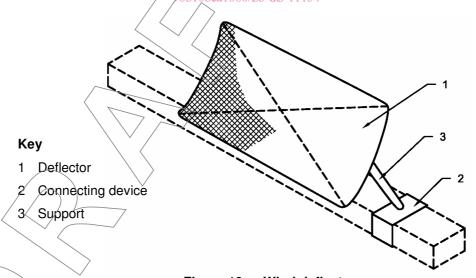


Figure 10 — Wind deflector

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canoe and/or kayak carrier

any device intended for carrying canoe(s) and/or kayak on roof bars, roof decks or roof racks

NOTE Examples are given in figure 11

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