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**Camping tents and caravan awnings —
Vocabulary**

Tentes de camping et auvents de caravane — Vocabulaire

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 83, *Sports and other recreational facilities and equipment*.

This third edition cancels and replaces the second edition (ISO 7152:1997), which has been technically revised. It also incorporates the Amendment ISO 7152:1997/Amd.1:2006.

The main changes are as follows:

- addition of new terms;
- complete revision.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

[Annex A](#) provides figures to better illustrate some of the terms defined.

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Camping tents and caravan awnings — Vocabulary

1 Scope

This document gives a list of the most frequent terms relating to camping tents and caravan awnings together with some definitions.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

awning

closable structure intended to be fixed to a stationary vehicle or to stand free of the vehicle

Note 1 to entry: Structures which are designed as awnings are considered as awnings even if they are free-standing, such as awning variations for caravans and motorised vehicles.

Note 2 to entry: See [Figure A.57](#).

3.2

tent

pieces of materials fixed together

3.3

hoop tent

tent ([3.2](#)) made of one or more *hoops* ([3.44](#))

Note 1 to entry: See [Figure A.3](#) and [Figure A.19](#).

3.4

hoop awning

poled awning

awning ([3.1](#)) made of one or more *hoops* ([3.44](#))

3.5

frame tent

tent ([3.2](#)) of which the assembly consists of predominantly rigid poles

Note 1 to entry: The rigid poles are usually made of steel, aluminium, fibre glass, *inflatable tubes* ([3.46](#)) or wood.

Note 2 to entry: See [Figure A.8](#) and [Figure A.9](#).

3.6

frame awning

awning ([3.1](#)) of which the assembly consists of predominantly rigid poles

Note 1 to entry: The rigid poles are usually made of steel, aluminium, fibre glass, *inflatable tubes* ([3.46](#)) or wood.

Note 2 to entry: See [Figure A.57](#), [Figure A.58](#) and [Figure A.16](#).

**3.7
inflatable tent**

tent ([3.2](#)) that is predominantly made of *inflatable tubes* ([3.46](#))

Note 1 to entry: See [Figure A.12](#).

**3.8
inflatable awning**

awning ([3.1](#)) of which is predominantly made of *inflatable tubes* ([3.46](#))

Note 1 to entry: See [Figures A.27](#) and [A.60](#).

**3.9
single-pole tent
tepee**

tent ([3.2](#)) with only one, generally vertical, pole

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

**3.10
ridge tent**

tent ([3.2](#)) with at least two poles and a horizontal or sloped *ridge* ([3.52](#)) between them

Note 1 to entry: See [Figure A.2](#).

**3.11
pyramid tent**

tent ([3.2](#)) made of multiple straight poles creating a structure with angled sides and usually no defined roof

Note 1 to entry: See [Figure A.16](#).

**3.12
dome tent**

tent ([3.2](#)) in the form of a hemisphere usually made from 2 or more flexible poles in the form of a *hoop* ([3.44](#)) all intersecting near the top of the tent

Note 1 to entry: See [Figure A.3](#).

**3.13
single-hoop tent**

tent ([3.2](#)) with a single pole in the form of a *hoop* ([3.44](#))

Note 1 to entry: See [Figure A.17](#).

**3.14
tunnel tent**

tent ([3.2](#)) with parallel flexible poles in the form of *hoops* ([3.44](#)), generally in the form of a half-cylinder or a truncated cone

Note 1 to entry: See [Figure A.15](#).

**3.15
geodesic tent**

dome tent ([3.12](#)) with at least four flexible poles that cross over each other at least 5 points (nodes) to form a structure made up mostly of triangles

Note 1 to entry: See [Figure A.4](#).

3.16**semi geodesic tent**

dome tent (3.12) with at least three flexible poles that cross over each other at least three points (nodes) to form a structure made up mostly of triangles

Note 1 to entry: See [Figure A.18](#).

3.17**pop up tent**

tent (3.2) that is primarily self-erecting when removed from its packaging, which needs pegging to the ground and often utilises *guylines* (3.76) for additional stability

3.18**drive away tent**

free standing *tent* (3.2) which, if designed to be connected to a motor home or caravan, becomes an *awning* (3.1)

3.19**drive away awning**

free standing *awning* (3.1) that can be connected to a *leisure accommodation vehicle* (3.128)

3.20**free-standing awning**

awning (3.1) that will remain erected without support from a vehicle

3.21**canopy**

extension that is intended to be attached to a *tent* (3.2) or caravan *awning* (3.1), or caravan or motor home to increase its useable area and has only a roof

Note 1 to entry: Examples for this are tent extensions, *flysheet* (3.47) extensions (see [Figure A.22](#)), hoods, stub canopies and sun canopies.

3.22**porch awning**

awning (3.1) that is designed to provide a small covered space around the *door* (3.59) of a caravan

Note 1 to entry: See [Figure A.58](#) and [Figure A.59](#).

3.23**universal awning**

awning (3.1) that is only attached to the caravan at the top of the awning and that is not designed to fit along the whole side of the caravan

Note 1 to entry: See [Figure A.58](#) and [Figure A.59](#).

3.24**full awning**

awning (3.1) that covers the whole side of a caravan and that is attached at or near to the whole *perimeter* (3.95) of the caravan

Note 1 to entry: See [Figure A.57](#).

3.25**trailer tent**

tent (3.2) structure built into a trailer that when pitched requires pegging out and stabilising and in which the trailer remains an integral part

3.26**folding camper**

tent (3.2) structure built into a towable rigid base that requires no or minimal additional pegging to retain stability when pitched and whose base remains an integral part

3.27

sealed tent

tent (3.2) that either has the groundsheet sewn to the *flysheet* (3.47) to form a sealed enclosed area, or that has a *snowskirt* (3.85)

Note 1 to entry: Tents with snowskirts are not normally sealed tents but there is the possibility of snow or sand building up on these snowskirts, which can restrict air circulation, creating a sealed tent.

3.28

sealed awning

awning (3.1) that either has the groundsheet sewn to the *flysheet* (3.47) to form a sealed enclosed area or that has a draught-skirt

Note 1 to entry: Awnings with draught-skirts are not normally sealed awnings but there is the possibility of snow or sand building up on these draught-skirts which can restrict air circulation creating a sealed awning.

Note 2 to entry: The use of a sealed awning can result in a build-up of harmful gases within the awning.

3.29

single-skin tent

tent (3.2) with only one layer of material

Note 1 to entry: See [Figure A.6](#).

3.30

adjustable pole

pole where lengths can be changed to tension the fabric of the *awnings* (3.1)

Note 1 to entry: See [Figure A.28](#).

3.31

double-skin tent

tent (3.2) with a *flysheet* (3.47) and a fitted inner sheet

Note 1 to entry: See [Figure A.7](#).

3.32

double-skin awning

awning (3.1) with a *flysheet* (3.47) and a fitted inner sheet

3.33

sleeping tent

tent (3.2) in principle used for sleeping in it

3.34

tent performance level

level that differentiates the intended conditions of use for a *tent* (3.2)

3.35

winter awning

Type W

awning (3.1) suitable for use all year round

3.36

residential awning

Type R

awning (3.1) suitable for continual use over extended periods including a light snow load

Note 1 to entry: See [Figure A.61](#).

3.37**touring awning****Type T**

awning (3.1) suitable for repeated pitching and striking and use at any time of the year but not in winter snow conditions

Note 1 to entry: See [Figure A.61](#).

3.38**light weight awning****Type L**

awning (3.1) suitable for repeated pitching and striking that is characterized by ease of use and lightness

Note 1 to entry: See [Figure A.60](#).

3.39**toilet tent**

free standing structure designed to be used with a toilet

Note 1 to entry: See [Figure A.5](#).

3.40**beach tent**

structure designed to provide some shelter from the wind or sun, often but not exclusively used on a beach

Note 1 to entry: There is currently no standard for measuring the protection from the sun for this type of *tent* (3.2).

3.41**annex**

extension that can be attached to a *tent* (3.2) or caravan *awning* (3.1) to increase its useable area consisting of a roof and at least 3 sides

3.42**kitchen area****utility area**

area designated for preparing food

Note 1 to entry: There is currently no standard for measuring the protection from the sun for this type of *tent* (3.2).

3.43**retractable canopy**

canopy (3.21) attached to a caravan or motor home that can be repeatedly rolled out or retracted into a container mounted permanently onto the side of the vehicle

3.44**hoop**

flexible pole that can be made of multiple sections that is bent to form a semi-circular like shape, which provides the support, shape and form of the product

Note 1 to entry: See [Figure A.19](#).

3.45**rigid frame**

structural supports that are rigid, which provide the shape and form of the product

Note 1 to entry: See [Figure A.27](#).

3.46

inflatable tube

pneumatic structural element of a *tent* (3.2) or *awning* (3.1), which provides the support, shape and form of the product

Note 1 to entry: See [Figure A.27](#).

3.47

flysheet

outer layer of a *tent* (3.2) designed to provide a layer of weather protection

Note 1 to entry: See [Figure A.2](#), [Figure A.3](#) and [Figure A.7](#).

3.48

inner tent

sleeping area (3.115) of a *tent* (3.2) or *awning* (3.1) that requires no outer material to provide complete weather protection

Note 1 to entry: See [Figures A.13](#) and [A.14](#).

3.49

loose groundsheet

groundsheet that is not permanently attached to the *tent* (3.2) or *awning* (3.1)

3.50

attached groundsheet

ground sheet that is physically attached to a *tent* (3.2) that can be fully or partially rolled back

3.51

sewn-in groundsheet

groundsheet that is physically attached to the *tent* (3.2) and forms a *sealed tent* (3.27) or *awning* (3.1)

3.52

ridge

line on the roof of a *tent* (3.2) or *awning* (3.1) that allows rain to run off on either side

Note 1 to entry: See [Figures A.2](#), [A.6](#), [A.9](#), [A.10](#) and [A.16](#).

3.53

bell end

rounded end of a *ridge* (3.52) or *pyramid tent* (3.11)

Note 1 to entry: See [Figure A.11](#).

3.54

wall

part of a *tent* (3.2) or *awning* (3.1) with an angle $<60^\circ$ to the vertical

3.55

roll-up wall

section of a *tent* (3.2) or *awning* (3.1) which can be rolled up

3.56

mud wall

material usually around the base of the *tent* (3.2) or *awning* (3.1) which is easily cleaned of mud and debris that collects during rain storms

Note 1 to entry: See [Figure A.9](#), [Figure A.57](#) and [A.62](#) (key 7).

3.57**living space**

part of the *tent* (3.2) which is designated for food preparation, standing, sitting (table and chairs) as well as for storage, with the exception of the *wardrobe* (3.68)

Note 1 to entry: The living space is not principally for sleeping.

3.58**roof lining**

taut fabric sheet under the roof of the *living space* (3.57) to improve insulation and reduce condensation

3.59**door**

covering of the entry or exit

Note 1 to entry: See [Figure A.9](#) and [Figure A.62](#) (key 11).

3.60**mesh door**

mesh covering of the entry or exit to minimize the entry of mosquitos and insects and to allow ventilation

Note 1 to entry: See [Figure A.20](#).

3.61**window**

transparent or semi-transparent panel in a *tent* (3.2) or *awning* (3.1) to allow light in

Note 1 to entry: See [Figure A.9](#) and [Figure A.62](#) (key 8).

3.62**mesh window**

mesh panel in a *tent* (3.2) or *awning* (3.1) to allow light and ventilation in, and to minimize the entry of mosquitos and insects

Note 1 to entry: See [Figure A.9](#) and [Figure A.62](#) (key 6).

3.63**curtain**

internal privacy cover for a *window* (3.61)

3.64**window-cover**

external privacy cover for a *window* (3.61)

Note 1 to entry: See [Figure A.8](#) and [Figure A.62](#) (key 5).

3.65**ventilation opening**

opening to ventilate a *tent* (3.2) which can be opened or closed

Note 1 to entry: See [Figure A.3](#) and [Figure A.62](#) (key 12).

3.66**permanent ventilation opening**

ventilation opening (3.65) which cannot be closed

Note 1 to entry: See [Figure A.55](#) and [A.62](#) (key 3).

3.67

ventilation cover

cover for a vent to prevent ingress of water which can be opened or closed

Note 1 to entry: See [Figure A.3](#) and [Figure A.62](#).

3.68

wardrobe

part of the *tent* ([3.2](#)) designated for storing luggage and clothing

3.69

dividing curtain

curtain ([3.63](#)) used to segment parts of a *tent* ([3.2](#)) or *awning* ([3.1](#)), usually bedrooms

3.70

draught-strip

strip attached to the lower *awning* ([3.1](#)) channel of a *leisure accommodation vehicle* ([3.128](#)) to minimize drafts from underneath the leisure accommodation vehicle

3.71

wheel cover

panel designed to minimize drafts around the wheel arch of a vehicle

3.72

ground-fastening

eyelet, loop, elasticated cord or similar feature located around the base of the *tent* ([3.2](#)) or *awning* ([3.1](#)) through which a *peg* ([3.78](#)) is passed in order to secure the tent or awning to the ground

Note 1 to entry: See [Figure A.20](#) and [Figure A.62](#) (key 10).

3.73

storm guy

stronger guy line usually located at key positions around the structure intended to provide additional security in extreme weather

Note 1 to entry: See [Figure A.21](#).

3.74

guyline attachment point

point designed for the attachment of *guylines* ([3.76](#))

Note 1 to entry: See [Figure A.21](#) and [A.62](#) (key 2).

3.75

pole sleeve

tube or sleeve of fabric designed to retain a structural element of the product

Note 1 to entry: See [Figure A.13](#).

3.76

guyline

cord or webbing used to stabilize a product

Note 1 to entry: See [Figure A.21](#).

3.77

guyline runner

component to adjust tension on a *guyline* ([3.76](#))

Note 1 to entry: See [Figure A.41](#).

3.78**peg**

means of attachment to the ground

Note 1 to entry: This comprises for example pin pegs, angle pegs, groundsheet pegs, mushroom pegs, rock pegs, screw pegs, sand anchors, wire pegs and cleft pegs.

Note 2 to entry: See [Figure A.49](#) and [Figure A.50](#).

3.79**tent bag****valise**

bag for transporting a *tent* ([3.2](#))

Note 1 to entry: See [Figure A.29](#).

3.80**awning bag****valise**

bag for transporting an *awning* ([3.1](#))

Note 1 to entry: See [Figure A.29](#).

3.81**pole bag**

bag for storing and transporting poles

Note 1 to entry: See [Figure A.29](#).

3.82**frame bag**

bag for storing and transporting the *tent* ([3.2](#)) frame

3.83**peg bag**

bag for storing and transporting *pegs* ([3.78](#))

3.84**channel cord**

insertable half of an interlocking connection used to attach *awnings* ([3.1](#)) to caravans and similar applications

Note 1 to entry: See [Figure A.48](#).

3.85**snowskirt**

fabric attached to the lower edge of the *tent* ([3.2](#)) *flysheet* ([3.47](#)) that is usually designed to sit horizontally on the ground

Note 1 to entry: This can be covered with snow or have rocks placed upon it, in order to secure the *tent* ([3.2](#)) to the ground.

3.86**outer fabric**

fabric of *awning* ([3.1](#)) which, when used as intended, is directly subjected to weather

3.87**frame assembly**

framework or part of an *awning* ([3.1](#)) or *free-standing awning* ([3.20](#)) that is designed to retain its shape laterally or longitudinally in normal usage

3.88

flexible connection

adjustable connection between a *free-standing awning* (3.20) and the vehicle

Note 1 to entry: This protects the user when moving between the vehicle and the awning and is variable in dimension.

3.89

base area

area limited by the outer *tent* (3.2) *walls* (3.54) that contact the ground

Note 1 to entry: This area includes awnings and canopies but excludes area for *guylines* (3.76), *mud walls* (3.56) and snow skirts.

3.90

outer tent dimensions

dimensions of the smallest rectangular pitching space required for the camping *tent* (3.2), excluding *guylines* (3.76)

3.91

inner tent area

part of the *base area* (3.89) designated for living and sleeping

3.92

inner tent dimensions

maximum length and maximum width of the *inner tent* (3.48) measured on the ground

3.93

pitching dimensions

dimensions of the smallest rectangular pitching space required for the *tent* (3.2) and *awning* (3.1) including *guylines* (3.76)

3.94

outer awning dimensions

dimensions of the smallest rectangular pitching space required for the *awning* (3.1), excluding guy lines

3.95

perimeter

distance from point A, up round the *awning* (3.1) channel, usually fitted around the edge of the vehicle and down to point B when the vehicle is parked, on level ground, with all corner steadies in contact with the ground

Note 1 to entry: See [Figure A.56](#).

3.96

depth at ground level of an erected awning

horizontal distance on the ground between the base of the vehicle *wall* (3.54) and the base of the front edges of the *awning* (3.1)

Note 1 to entry: This definition is applicable to awnings fixed to the awning rail.

Note 2 to entry: See [Figure A.62](#) (footnote d).

3.97

pole connection

flexible connection (3.88) of poles

Note 1 to entry: See [Figure A.25](#).

EXAMPLE Elastic cord or spring.

3.98**overall depth**

horizontal distance between the vehicle *wall* (3.54) and the foremost part of the *awning* (3.1), measured at right angles

Note 1 to entry: The overall depth contains the maximum *flexible connection* (3.88) depth for *free-standing awnings* (3.20).

Note 2 to entry: See [Figure A.62](#) (footnote h).

3.99**standing height**

vertical height measured from the ground or the upper side of the sewn in ground sheet to the underside of the roof fabric

Note 1 to entry: See [Figure A.62](#) (footnote a).

3.100**awning depth at standing height**

depth of *awning* (3.1) perpendicular to the vehicle measured from the vehicle to the furthest point of the awning at *standing height* (3.99)

Note 1 to entry: See [Figure A.62](#) (footnote c).

3.101**awning depth at ground level**

depth of *awning* (3.1) perpendicular to the vehicle measured from the vehicle to the furthest point of the awning at ground level

Note 1 to entry: See [Figure A.62](#) (footnote d).

3.102**awning width at standing height**

maximum width of *awning* (3.1) measured parallel to the vehicle at *standing height* (3.99)

Note 1 to entry: See [Figure A.62](#) (footnote e).

3.103**awning width at ground level**

maximum width of *awning* (3.1) measured parallel to the vehicle at ground level

Note 1 to entry: See [Figure A.62](#) (footnote f).

3.104**canopy depth**

maximum distance a *canopy* (3.21) extends beyond a *wall* (3.54)

Note 1 to entry: See [Figure A.62](#) (footnote g).

3.105**sleeping capacity**

number of sleeping berths

3.106**lightweight tent**

tent (3.2) having a mass of ≤ 2 kg plus 1 kg per person

3.107**standard-weight tent**

tent (3.2) having a mass > 2 kg plus 1 kg per person

3.108

minimum usable weight

weight of the *tent* (3.2) including the inner sheet and *flysheet* (3.47) (where applicable) plus the minimum number of poles, *pegs* (3.78), and *guylines* (3.76) needed for the tent to be erected and used

Note 1 to entry: Tent *pole bags* (3.81) and *peg bags* (3.83) do not need to be included.

3.109

total weight

weight of the *tent* (3.2) as supplied, including all poles, fabrics, *pegs* (3.78), bags, etc., excluding packaging

3.110

shear and squeeze point

point at which the distance between two rigid accessible parts moving relative to each other is < 18 mm and > 7 mm in any position during movement

3.111

accessible shear and squeeze point

shear and squeeze point (3.110) to which access can be easily gained when the *tent* (3.2) is in its intended configuration for use and for which unintentional contact is foreseeable

3.112

automatic locking mechanism

mechanism that engages without guidance by the user and prevents unintended movement

3.113

kitchen tent

tent (3.2) designated for cooking

3.114

kitchen

area provided for cooking in the *tent* (3.2)

3.115

sleeping area

part of the *base area* (3.89) of a *tent* (3.2) designated for sleeping

Note 1 to entry: See [Figure A.23](#).

3.116

usable area

total of the sleeping and living areas

3.117

main frame assembly

basic frame structure to support the canvas in accordance with the intended use

3.118

roof pole

pole that forms the structure to support the canvas roof

3.119

roof-support pole

additional *roof pole* (3.118), for example to avoid water pockets

3.120

reinforcement

additional materials or products used to improve performance of structure at critical points

3.121**tube fitting**

insert to adapt tube configuration for different functions

Note 1 to entry: See [Figures A.30, A.52](#) and [A.53](#).

3.122**swage**

tube with a reduced diameter for inserting into another tube ending with the same diameter

Note 1 to entry: See [Figure A.31](#).

3.123**button clip**

spring locker to lock two poles together

Note 1 to entry: See [Figure A.32](#).

3.124**component part for frame**

element required to complete *frame assembly* ([3.87](#))

Note 1 to entry: See [Figures A.33](#) to [A.39](#) and [A.54](#).

3.125**fastener**

element to cover edges or close parts of the structure in use

Note 1 to entry: See [Figures A.43](#) to [A.47](#).

Note 2 to entry: Trimmings have the same function as fasteners.

3.126**tensioner**

elastic element for pegging the *awning* ([3.1](#)) to the floor

Note 1 to entry: See [Figures A.40](#) and [A.42](#).

3.127**peg extractor**

tool for easy removal of *pegs* ([3.78](#)) from the ground

Note 1 to entry: See [Figure A.51](#).

3.128**leisure accommodation vehicle**

caravan, motor caravan or caravan holiday home to which caravan *awnings* ([3.1](#)) are attached to

Annex A (informative)

Figures illustrating some of the terms given in this document

NOTE The figures shown in this annex are given as examples to explain the relevant terms.

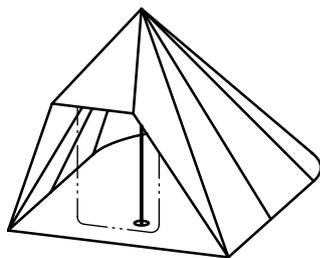


Figure A.1 — Single-pole tent

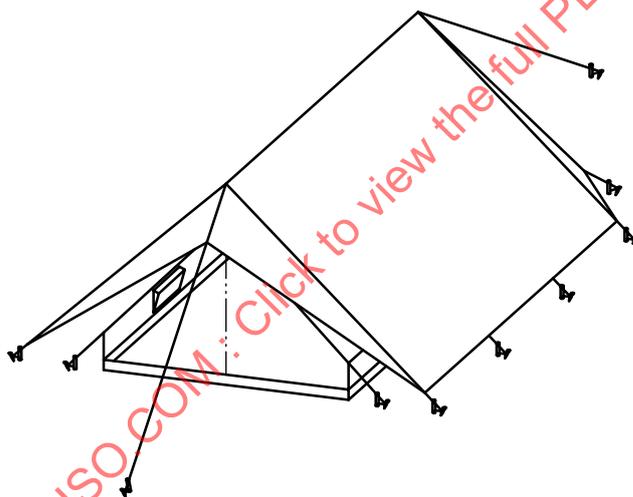


Figure A.2 — Ridge tent

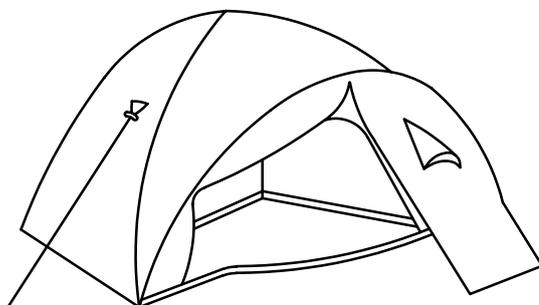


Figure A.3 — Hoop tent (dome tent)



Figure A.4 — Geodesic tent

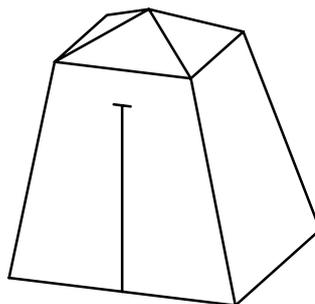
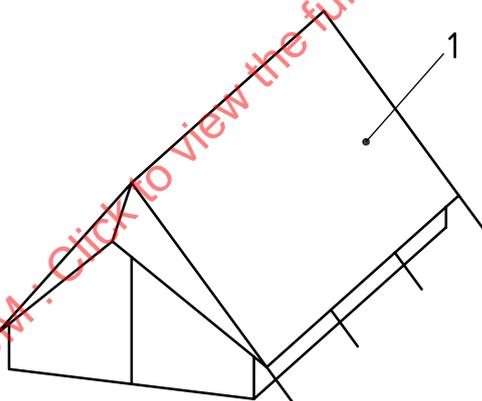


Figure A.5 — Toilet tent



Key
1 roof

Figure A.6 — Single-skin tent

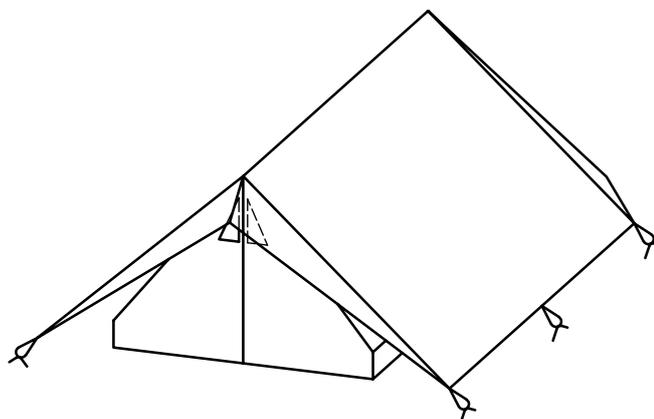


Figure A.7 — Double-skin tent

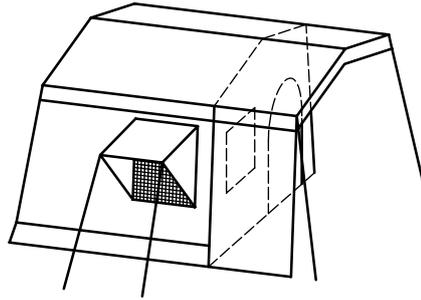


Figure A.8 — Frame tent with tent extension

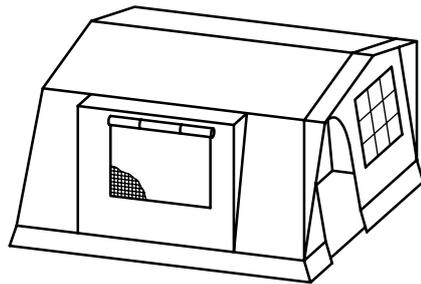


Figure A.9 — Frame tent

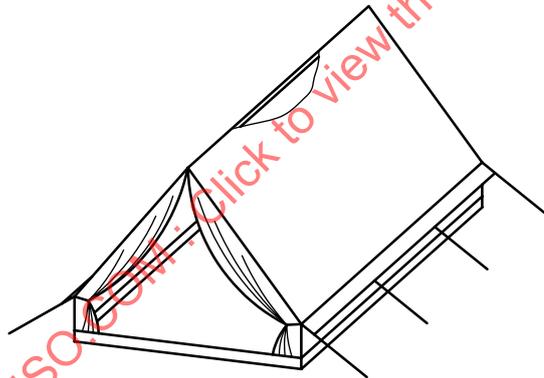


Figure A.10 — Ridge tent with ground sheet

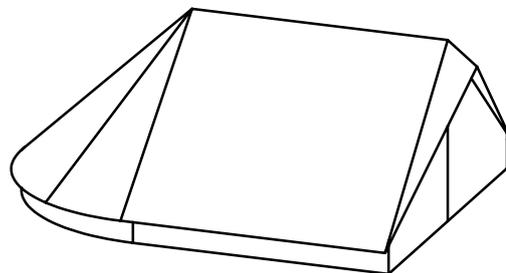


Figure A.11 — Ridge tent with bell end

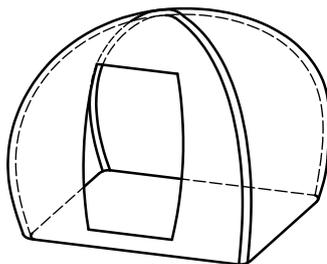
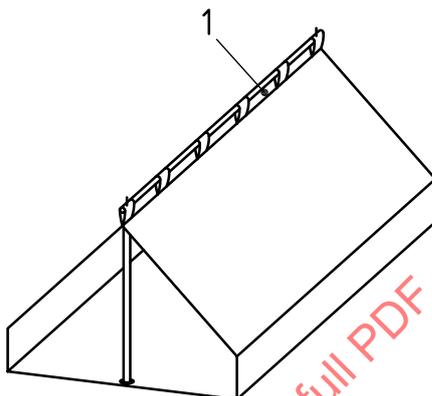


Figure A.12 — Inflatable tent

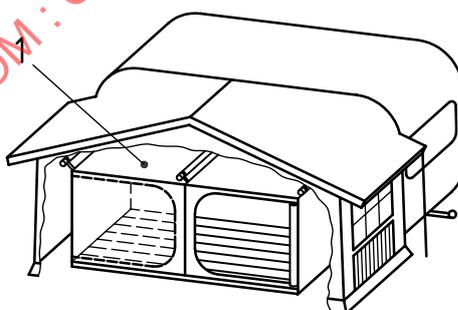


Key

1 rigid pole

NOTE See [Figure A.26](#).

Figure A.13 — Inner tent for tents



Key

1 inner tent

Figure A.14 — Inner tent for awning

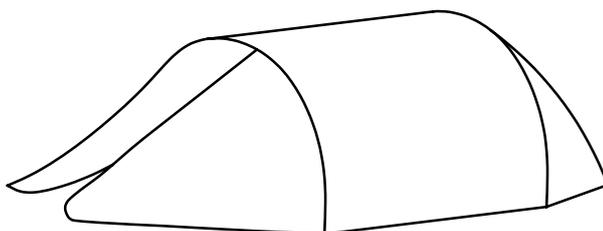


Figure A.15 — Tunnel tent

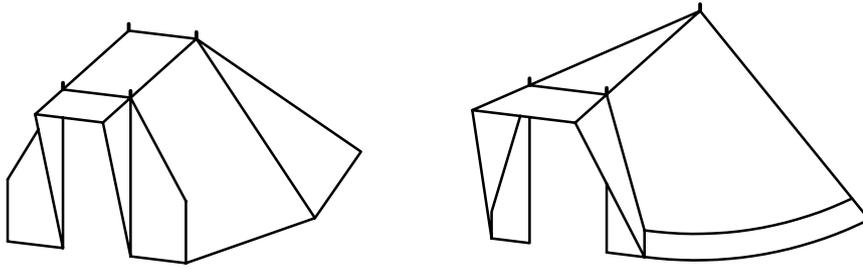


Figure A.16 — Pyramid tents

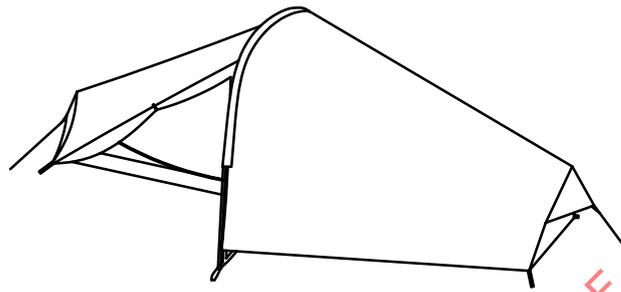


Figure A.17 — Single hoop-tent



Figure A.18 — Semi geodesic tent

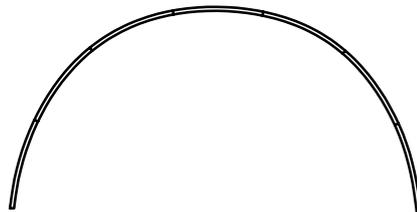


Figure A.19 — Hoop

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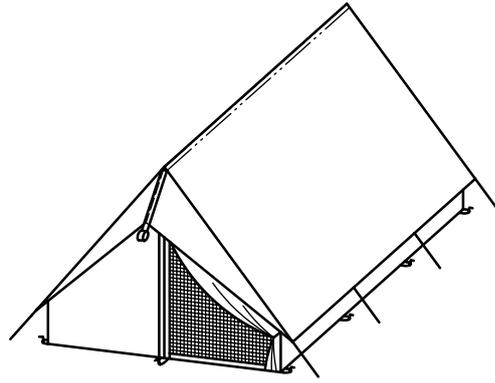


Figure A.20 — Pegging points

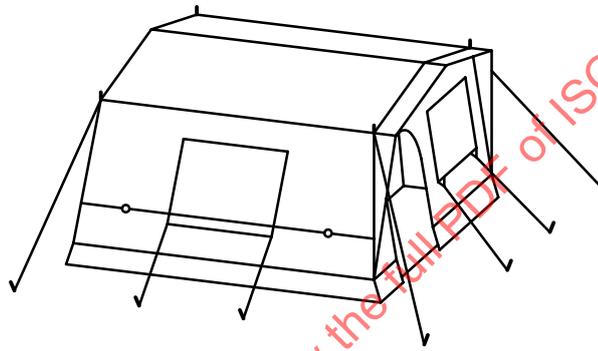


Figure A.21 — Guying points

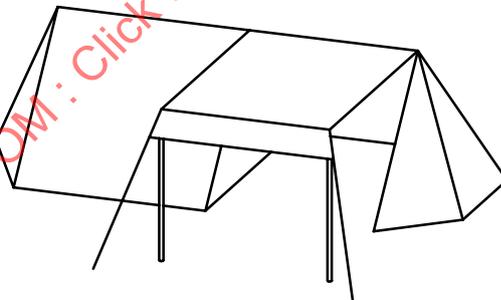


Figure A.22 — Tent with flysheet extension



Figure A.23 — Plans of living and sleeping areas



Figure A.24 — Fastening with toggle

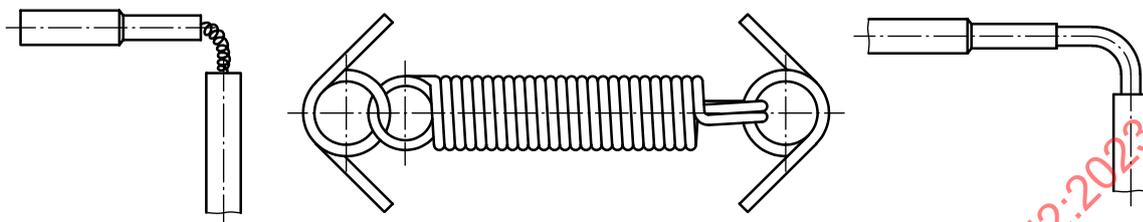


Figure A.25 — Pole connections

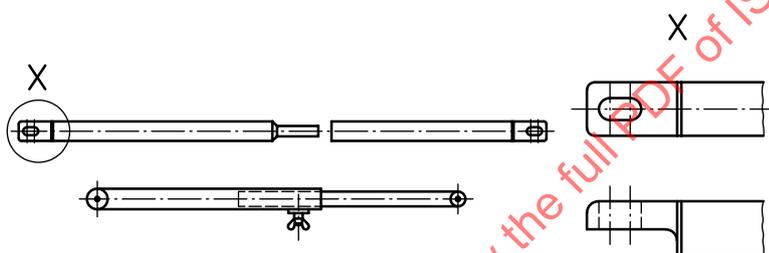
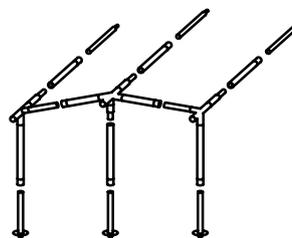


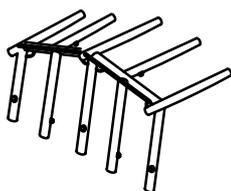
Figure A.26 — Ridge poles



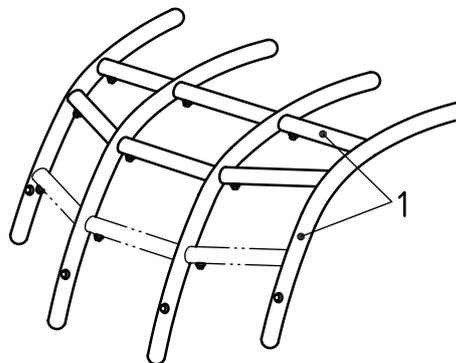
a) Free standing



b) Full size awning



c) Inflatable full-size awning



d) Inflatable porch awning

Figure A.27 — Frame assemblies

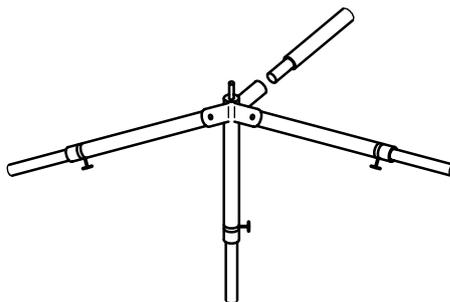


Figure A.28 — Adjustable poles

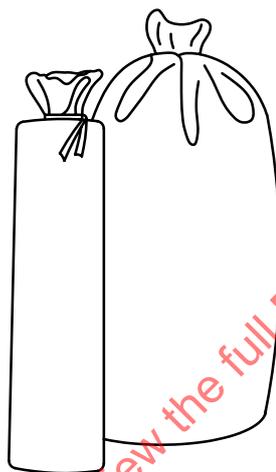


Figure A.29 — Bags



Figure A.30 — Tube with plug

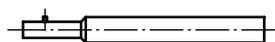


Figure A.31 — Tube with swage

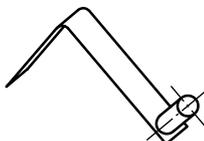


Figure A.32 — Button clip

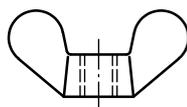


Figure A.33 — Wing nut

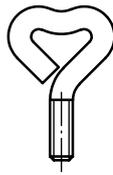


Figure A.34 — Wing screw

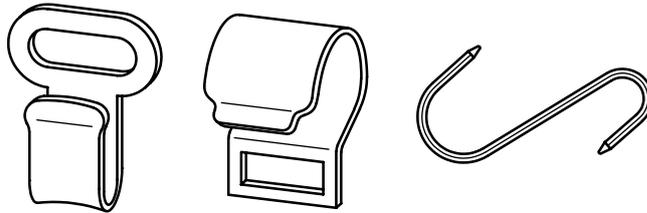


Figure A.35 — Hooks

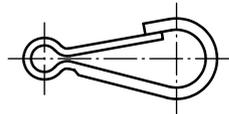


Figure A.36 — Spring clip



Figure A.37 — Rings

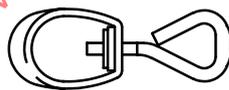
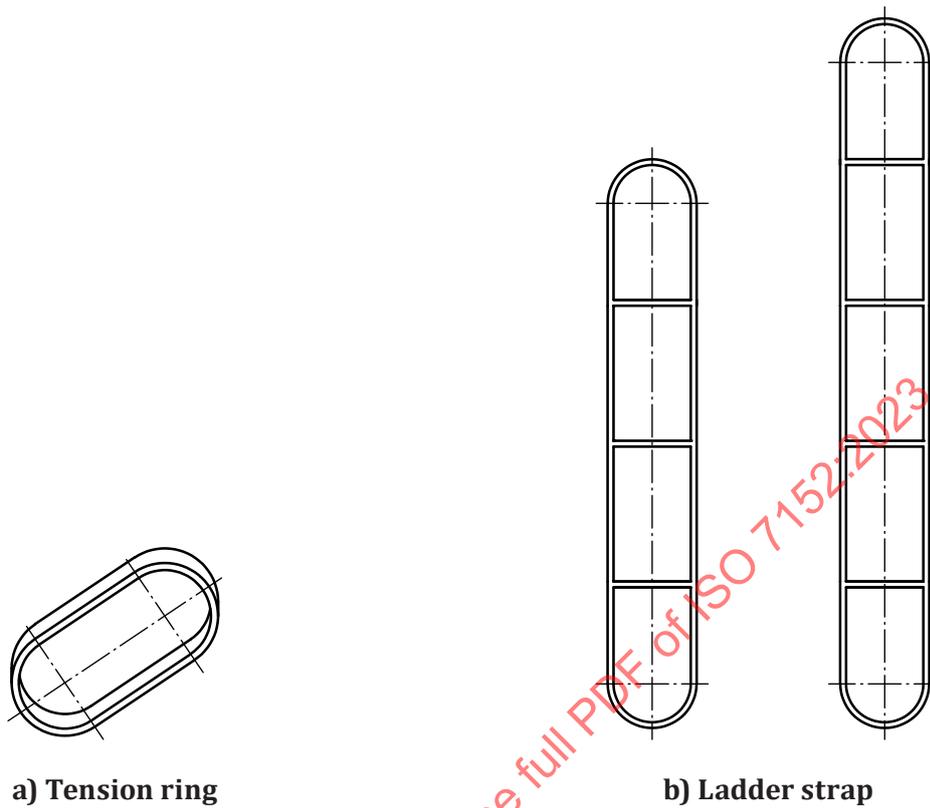


Figure A.38 — Screw adjuster



Figure A.39 — Sucker



a) Tension ring

b) Ladder strap

Figure A.40 — Tensioner

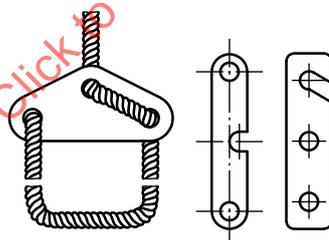


Figure A.41 — Runners

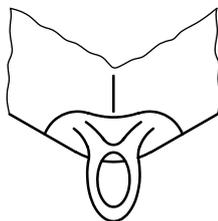


Figure A.42 — Suction loop

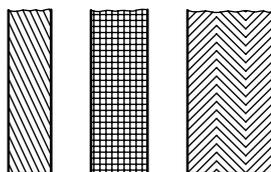


Figure A.43 — Webbings

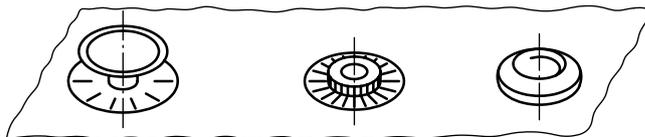


Figure A.44 — Welded buttons and eyelets

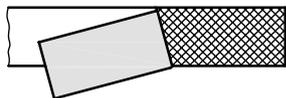


Figure A.45 — Touch-and-close fastener



Figure A.46 — Slider

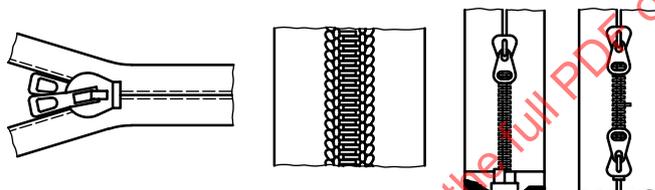


Figure A.47 — Zip fastener



Figure A.48 — Channel cord

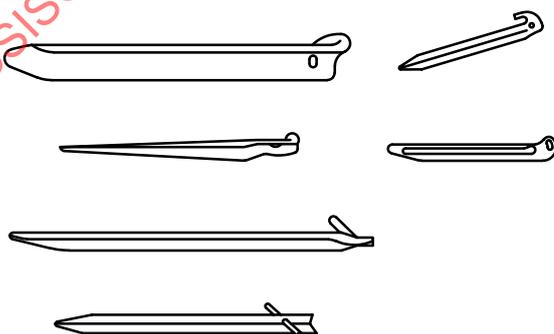


Figure A.49 — Angle pegs