

HELSPORT

# 2016MIL



SCANDINAVIAS LEADING TENT AND SLEEPING BAG MANUFACTURER

**HELSPORT**

A photograph of a snowy mountain landscape. In the foreground, a green tent is partially visible, covered in snow. The background shows a vast, snow-covered mountain range under a cloudy sky. The overall scene is cold and desolate.

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## WHY CHOOSE HELSPORT?

### We are Scandinavia's leading tent and sleeping bag manufacturer

Helsport is a Norwegian family business, established in 1951. Ever since we launched our first sleeping bags in 1954 and tents in 1957, we have passionately developed and produced some of the best hiking equipment in the world. We launched the world's first tunnel tent in 1970.

### You are always our priority

We know that what you care about is enjoying the outdoors, and we want that experience to be as good and problem-free as possible. Our products are created based on real needs and made as user friendly as possible. We are there quickly if you need help or have a question. We are committed to inform, share experiences, inspiration, tips and tricks because we know you appreciate it. We can do all these things because we are constantly in close dialogue with as many users of our products as possible.

### We provide lifetime service

Relying on equipment from us will be worry free. We create products to last a long time, so if something gets broken we fix it, no matter how old your Helsport gear may be.





## MIL 1 LT

One person tent with high breathable outer-tent and unique pole channel system. It has a freestanding construction with 3 poles. Two long poles and one short pole on top. The tent has a symmetric construction. Both sides has a full opening for easy acces. Both doors have a ventilation on top, which are protected with mesh and can be closed complete.



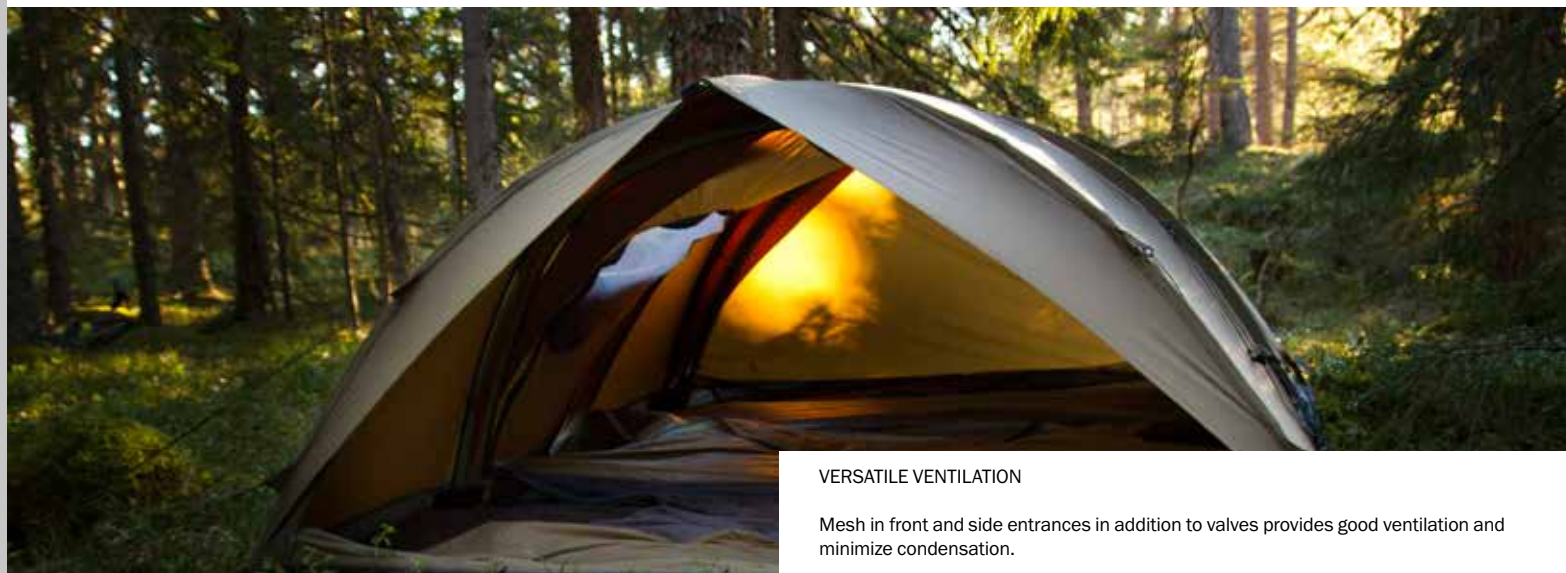
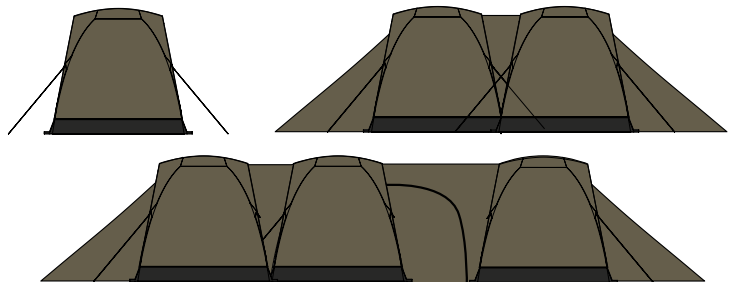
### WEIGHT:

Tent:	940 g
Vestibule:	195 g
Short connector:	110 g
Long connector:	225 g
Poles:	310 g
Pegs:	140 g (8 pcs.)

Fly sheet:	Nylon Rip 20D Laminated (two layer) Breathable 2000 mm 100% flame retardant
Floor:	Nylon Rip 40D Sil/Sil 3000mm
Pole Fabric:	DAC Featherlight NFL
Peg fabric:	Anodized aluminum

 Helsport  
Green

### RANDOM EXAMPLES OF COMBINATIONS:



### VERSATILE VENTILATION

Mesh in front and side entrances in addition to valves provides good ventilation and minimize condensation.



ONE SET CONTAINS:  
2 tents  
4 vestibules  
1 short connector  
1 large connector  
2 set poles  
2 set x 14 pcs pegs

#### FLY SHEET



The main compartment. Can be used alone or in combination

#### LARGE CONNECTOR



The large connector gives the possibility to connect two tents and provide a big vestibule.

#### VESTIBULE



Vestibule with big zipper opening and vent on top. The vestibule provides enough space for the equipment and increase the stability at side wind.

#### SHORT CONNECTOR



The short connector gives the possibility to connect two tents.

## MIL CAMP

Proven itself on the North Pole, South Pole, Greenland and the world's highest mountains, the tent can be described as a master of expeditions. Few other tents have so many merits and are so well known from the base-camp as our MIL Camp. Materials and details have been thoroughly tested and the flysheet has a tear strength of 20 kg, making it one of the most durable in the market.

Its construction combines the best from dome and tunnel tents, and withstands the harshest conditions. The dome makes the tent extra stable in strong winds, but also provides more space and height inside, which increases the comfort level if you are weather-bound or generally spend loads of time inside the tent. For increased security in extreme winds some choose to use double poles, and that is possible on this tent.

- Dome and tunnel tent combination
- Inner tent with 360° zipper opening and mesh
- Storm flaps
- The pole channels and pole cups are dimensioned for both one and two poles
- The Helsport AirFlow II® ventilation system ensure more fresh air, better quality sleep and increased air circulation which reduces condensation. The vents can be closed completely, to prevent them from packing with snow
- Pole cups on color-coded poles/pole channels make the tent fast and easy to pitch
- Unique internal pole channel system that provide better wind stability and less vibration/noise in windy conditions
- Extra strong guy lines and reinforced guy points. Several double guy points and combined guy lines. This reduces the number of pegs needed, and makes it easier to pitch the tent. To get an even distribution of force on the guy points the guy lines are connected through rings.

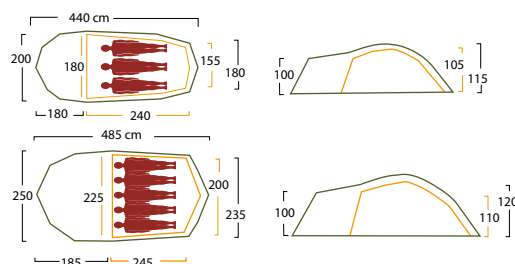


Guy-line points with integrated elastic webbing to collect and prevent the guy lines from getting entangled



Mesh gear loft and pockets

Persons:	3	5
Packed volume:	19 x 50 cm	20 x 55 cm
Weight tent (+/- 10%):	4,55 kg	5,20 kg
Weight pegs:	0,32 kg	0,32 kg
Pole length:	2 x 378 cm + 2 x 310 cm	2 x 415 cm + 2 x 347 cm
Poles:	DAC Featherlight NSL™ (48 cm sections)	
Fabric outer tent:	40D Helsport Superlight® 1000, 3000mm	
Fabric inner tent:	30D Polyester Ripstop WR	
Fabric floor:	70D Polyamide SI, 5000mm	
	Helsport Green	







## MIL BASETUNNEL

Our largest tunnel tent, with standing height and opening for a stove pipe!

MIL Basetunnel is ideal for large families or as a basecamp tent for larger groups. The tent has an internal height of 180 cm, making it a very comfortable tent to be in. It has six entrances and two of them have mosquito nets, which together with adjustable vents ensure a good indoor climate. It is also possible to make all of the doors into a baldachin-solution using 170 cm poles. It is compatible with our Helsport Lavvu Stove, or even a small campfire, as the fabric has a fire retardant treatment.

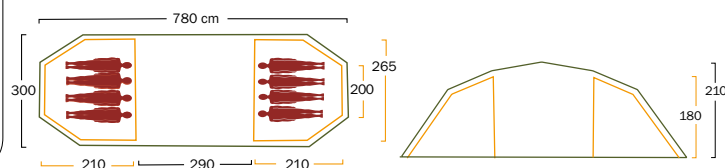
It is possible to purchase one or two inner tents, that can be mounted on each end of the tent. Both inner tents are 265 cm wide, with a sleeping length of 210 cm, and room for 4 persons.

- High ceiling and loads of space inside
- Six entries, two with mosquito mesh
- Attachments for two inner tents
- Possible to make the doors into a sheltered porch
- Internal storage pockets
- The Helsport AirFlow II® ventilation system ensure more fresh air, better quality sleep and increased air circulation which reduces condensation
- Patented pole cup and color-coded poles/pole channels make the tent fast and easy to pitch
- Unique internal pole channel system that provide better wind stability and less vibration/noise in windy conditions
- Guy line points with integrated elastic webbing to collect and prevent the guy lines from getting entangled



Compatible with Helsport Lavvu stove

Persons:	6-8
Packed volume:	26 x 67 cm
Weight tent (+/- 10%):	10,5 kg
Weight pegs:	0,32 kg
Weight inner tent:	1,65 kg (optional)
Weight floor:	2,1 kg (optional)
Pole length:	2 x 470 + 2 x 540 + 1 x 580 cm
Poles:	Yunan Pressfit (48 cm sections)
Fabric outer tent:	75D Rainguard® FR, 3000 mm
Fabric inner tent:	68D Polyester WR/FR
Fabric floor:	70D Polyester FR, 5000 mm
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Possibility for two inner tents





# MIL 3 PATROL CAMP

Large tunnel tent with two entries and two vestibules for 4-seasons.

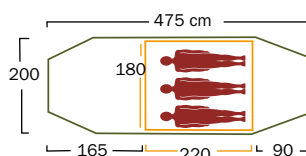
MIL Patrol Camp is the most versatile tunnel tent in our MIL-series. A tall inner tent is valuable comfort if you are weather bound, and on trips where you generally spend lots of time inside the tent.

With two entrances and two vestibules you ensure that one entrance is always is sheltered from wind. It also provides the flexibility of storing luggage in one room and to cook in another. The vestibules can also be separated for some more privacy on longer trips. MIL Patrol Camp has a construction especially meant to withstand strong winds. The flysheet has a tear strength of 20 kg, making it one of the most durable in the market. This, combined with storm flaps, many pegs and guy lines makes MIL Patrol a safe shelter. As on all our MIL tents, MIL Patrol Camp comes equipped to handle double poles for added security during extreme winds.

- Inner tent with 360° zipper opening and mesh
- Mesh gear loft
- Storm flaps
- The pole channels and pole cups are dimensioned for both one and two poles
- The Helsport AirFlow II® ventilation system ensure more fresh air, better quality sleep and increased air circulation which reduces condensation
- Unique internal pole channel system that provide better wind stability and less vibration/noise in windy conditions
- Extra strong guy lines and reinforced guy points. Several double guy points and combined guy lines. This reduces the number of pegs needed, and makes it easier to pitch the tent. To get an even distribution of force on the guy points the guy lines are connected through rings.
- Guy-line points with integrated elastic webbing to collect and prevent the guy lines from getting entangled



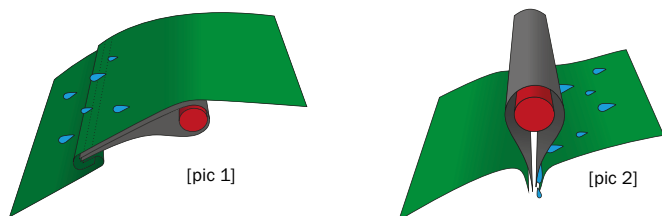
Persons:	3
Packed volume:	19 x 50 cm
Weight tent (+/- 10%):	4,6 kg
Weight pegs:	0,28 kg
Pole length:	4 x 330 cm
Poles:	DAC Featherlight NSL™ (48 cm sections)
Fabric outer tent:	40D Helsport Superlight® 1000, 3000mm
Fabric inner tent:	30D Polyester Ripstop WR
Fabric floor:	70D Polyamide SI, 5000mm
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## UNIQUE INTERNAL POLE CHANNEL SYSTEM

All Helsport tents have an internal pole channel system. There are two very important reasons why we have chosen to use internal instead of external pole channels:

1. The seams are waterproof, as we avoid open seams along the roof.
2. Internal poles [pic1] make the tent a lot more wind stable, because you can tighten the sheet more. Stability minimizes movement and decreases noise from the outer sheet. External pole channels [pic 2] gives more vibration and can lead to decreased stability. Vibration also gives more noise from the outer sheet. This will naturally affect your night sleep when it's windy.



### THIS IS HOW IT WORKS:

Some think it's harder threading the poles when the channels are internal. We have eliminated these problems by threading the pole from the outside and into a closed channel on the opposite side. The system we have made for inserting and attaching the pole make this quick and easy. You pitch the tent by threading the pole from the outside and in to the internal pole channel. The colour coded channel opening is marked with reflecting materials to simplify pitching the tent when it's dark. The colour coded opening matches the colour on the respective pole. The pole stops in a reinforced pocket and a sturdy pole cup holds the other end. The sheet is tightened by pulling the adjustment webbing.

## POLES

### POLE CONSTRUCTION:

A lot of producers makes it easy for themselves when they produce poles for their tents; they have few categories, with one pole dimension for each category.

### WHAT WE DO DIFFERENTLY THAN MOST PRODUCERS IS THAT WE CONSIDER EVERY SINGLE POLE:

A pole in a Helsport tent is a function of the length of the roof curve, the diameter of the pole and the tents height. Based on this, including the placement of the pole, we decide the diameter, the degree of bending, and the length of each section. In short: all our poles are customized to each tent model.

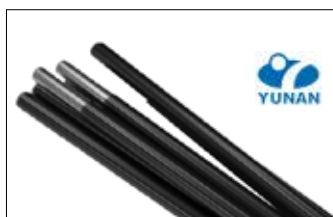
This lengthy process gives maximal strength and flexibility in each pole for every tent model. The process is done after recommendation and a close cooperation with two of our main suppliers, two of the best producers of quality poles in the world: Yunan and DAC.

It is quick and easy to put our poles together, even under extreme weather conditions, as the elastic cord that is mounted inside the poles is cold resistant. In addition, all of the poles are colour coded, so you'll know which pole goes into which channel

### OUR POLE TYPES:

#### MIL Basetunnel

Yunan Pressfit-poles, made by aluminium alloy 7001-T6. This alloy has very high tensile strength and sturdy resistance to permanent bending, and has been a safe choice for our tents for many years.



#### MIL1 LT, MIL Camp, MIL Patrol Camp

All tents in these categories have DAC Featherlite NSL-poles. The poles have an expanded end that gives up to 20% increased strength on the ends compared to the middle of the pole sections. This makes it possible to use thinner tube walls and reduce total weight of the poles, while maintaining the strength of the pole. The poles are produced with an anodizing treatment that minimizes the use of chemicals. This treatment is more environmentally friendly than traditional treatments.



## COLOR CODING

All tents with different lengths of the poles are color coded. Grey poles belongs to the grey marked channel, black pole in yblack channel etc.





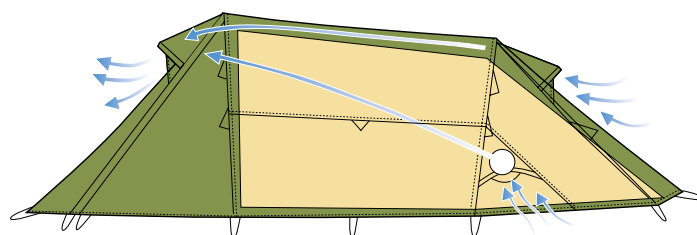
## HELSPORT AIRFLOW II® VENTILATION SYSTEM

A good ventilation system will prevent condensation, and dramatically the inside climate and the sleeping comfort.

The ventilation system achieves this in two ways: through ventilation and air exchange. Ventilation must ensure an even and steady flow of fresh air/oxygen through the tent (for reasons of both safety and sleep), and at the same time remove condensation. You achieve the best results by having a constant and controlled stream of air through the tent. Air exchange can be compared with opening windows in your home to get a quick exchange of air to ensure a good atmospheric and thermal inner climate.



On Helsport's many tent models there are a number of different vents and ventilation systems. It's varied between simple vents with bungee cord closure and zippered closure, skirt ventilation and ventilation on the roof. The main source of ventilation comes from pulling fresh air from the ground and letting warm and humid air escape high in the tent. Warm air rises, and by warming the air inside the tent a natural flow of air is created.



Cold air, rich with oxygen enters through vents on ground level, and the warm, oxygen depleted air goes out through the vents higher up.

### ATMOSPHERIC INNER CLIMATE

High levels of CO<sub>2</sub> feel like "heavy air". To prevent overexposure to CO<sub>2</sub>, every human body needs approximately eight litre/min of fresh air. Clinical studies with NTNU and SINTEF have shown that Helsports Airflow II® ventilation system is capable of surpassing those required levels of fresh air. Test results without this type of ventilation system show inadequate exchange of fresh air and by therefore high levels of CO<sub>2</sub>-gas.

### THERMAL INNER CLIMATE

Helsport Airflow II® ventilation system transports the humidity out of the tent and ensures a good thermal inner climate. This prevents a greater extent of condensation. Humidity caused by condensation can reduce the insulating abilities of clothing and sleeping bags, and the air can feel clammy and heavy. A good thermal inner climate will improve your comfort level inside the tent.

### THIS IS HOW IT WORKS:

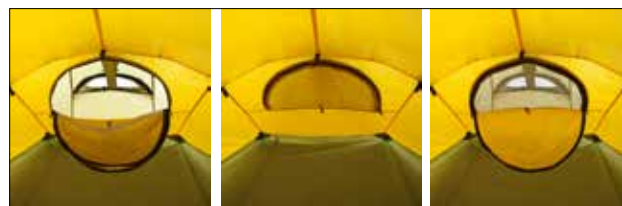
- Cold and fresh air, rich of oxygen enters below the outer tent and through vents on ground level. This insures circulation and exchanging of humid air in the inner tent and the layer between the inner and the outer tent.
- Warm, humid and oxygen depleted air rises and escapes through the mesh door on the inner tent on the opposite side and further through a vent placed on the outer tent. The opening has to be regulated dependant on how many people there are in the tent. If there are two mesh doors in the inner tent, it's important that one of them is kept closed so to stop it from disrupting the airflow.

### VENTILATION UNDER EXTREME CONDITIONS

In all of our tents (except the SuperLight-series) the ventilation system is fully closable. The ventilation can be closed during winter use, and the mosquito mesh and fabric door can be opened and closed independently.



Ventilation seen from the outside:  
Open, closed, with mosquito net.



Ventilation seen from the inside:  
Open, closed, with mosquito net.



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