

NEW MODULAR FOLDING TENT TECHNOLOGY

HERMAN'S - STZX

PROGRAMME B

QUICK ASSEMBLY TENTS "HERKULES" KIP UP 3000



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PRESENTATION OF A NEW SLOVENIAN TECHNOLOGY – HERMAN’S - STZX

Within the programme of folding modular compatible constructions GTT GALAKSIJA company has successfully developed a special folding tent construction which allows quick assembly and firm structure, and is protected by letters patent.

The quick assembly kip-up tents *HERKULES* are future generation tents providing absolute comfort and convenience.

BASIC PRINCIPLES AND PURPOSE - USE OF TENT IN A WIDER SENSE AND FULFILLING THE NEEDS OF THE PROTECTION AND RESCUE SYSTEM IN QUICK INTERVENTIONS

The entire logistic – collecting the tent from the warehouse, its transportation to the point of intervention, setting it up on the desired space and the tent removal and storage on the other hand, has to be quick and adequate. The quick response is enabled by a special trailer which can be pulled by passenger cars, passenger vans, all-terrain vehicles or air transport (helicopter or plane).

Assembling and disassembling of the tent have to be carried out in a very short time (5 – 15 minutes) with the least possible number of people (2 – 3) per unit.

The tent unit has to be set up to form an absolutely firm structure. It should not wobble!

The main pegs – the central ground anchors have to be placed on the inner side of the tent, to avoid loosening as a result of the rain-soaked ground.

The quick assembly tents *Herkules* have a special structure which provides a perfect stability and do not need an outside guy rope. The guy ropes which are otherwise placed around the tent cause a lot of trouble and demand constant attention – they have to be appropriately tensioned to provide adequate stability, especially in rainy weather. *Herkules* spares trouble with the guy ropes since they are unnecessary.

The space between the outside canvas sheet, the ground and the inner anti-condense sheet has to be absolutely tight to form a thermal and sound isolation effect.

A contemporary tent should have lighting built-in as a serial feature and has to be energetically independent to provide perfect comfort for the users, including the case of intervention.

TECHNICAL AND TECHNOLOGICAL ASPECT OF THE INNOVATION

Each tent unit comes in a kit with all belonging equipment. The entire kit is placed on a light specially designed trailer which allows for a quick and simple transport, as well as easy unloading and reloading of the tent.

The technology of the quick assembly tents *HERKULES KIP-UP* is based on a special light (aluminium - polyamide – steel) folding construction, a special flexible basis, which allows for quick compatible installation in any weather.

The *HERKULES KIP-UP* tents are available as one-module, two-module or three-module units. They can be easily combined into a longitudinal or lateral installation. The central dome can be easily set within the cross installation of the tents.

ECONOMIC AND ECOLOGICAL ASPECT OF THE INNOVATION

The economic effects are evident primarily in the increased energy savings, reduced fuel and electricity consumption, lower heating demand, in quick and easy transport and installation.

Ecologically-oriented new technology of the component elements, ecologically friendly materials and finished products with a flexible design.

INTENDED PURPOSE OF THE TENT *HERKULES*

HERKULES has a wide range of uses and is intended for individuals, tradesmen and industry.

Specialised tents such as *HERKULES* are designed to offer solutions in the protection and rescue system prior to natural and other disasters serving to save human lives and assets.

HERKULES is intended to serve as a shelter in military operations, earthquakes and other natural disasters, in epidemics, for mobile hospitals, as rescue and protection headquarters (civil protection, fire brigade, rescuers) as well as for different sports, tourist, fair, food service and other activities.

ADVANTAGES OF *HERCULES*

A special new feature of *HERKULES* is the outside canvas which is permanently attached and resistant to extreme weather conditions. All component parts are absolutely tight, allowing for ventilation, cooling and warming. A special inside canvas prevents that the condensed moisture (a constant problem in any tents) would pass through from the outside sheet and bring humidity into the living area. An air layer of 30 – 40cm between the inside and the outside sheet provides thermal and sound isolation as well as ventilation.

The aluminium console elements and the canvas sheets allow for the extension of the basic structure, immediate enlargement of the living area or the storage space (connected with passages to other rooms) by more than 100%. The component elements and the canvas sheets are stored in the trailer.

The living area is equipped with 10 (one-module units), 15 (two-module units) or 20 (three-module units) special eye bolts with app. 100kp load-carrying capacity per screw. They can carry different equipment and/or hanging hospital beds.

Each eye bolt can contain a 220-volt electrical outlet and.

Windows and doors may be opened and closed by option.

The framework is specially designed so that the canvas roof surface remains constantly tense and does not accumulate water or snow, and is thus suitable for summer or winter time.

Special new feature of the structure - based on two-point binding of the structural elements, it is possible to achieve a firm construction and a lasting housing unit. Such use requires solid materials such as wood, insulating coatings and light coverings which are affixed to the framework of the tent.

Set up on an appropriate ground, such fortified structure provides shelter for a longer period of time.

TARGET CONSUMERS

Special tents *HERKULES KIP UP 3000* can serve as equipment for the army or mobile army hospitals, as civil protection or police headquarters, as Red Cross or fire brigade shelters or as a place serving for sport, tourist, fair, food serving and other activities.

TECHNICAL CHARACTERISTICS (SIZE – WEIGHT – MATERIALS)

The quick assembly tents *HERKULES KIP UP 3000* can be set up in a combination of tents and are produced in following types:

| The type of the quick assembly tent <i>HERKULES KIP UP 3000</i> | Dimensions | Total surface area | Total weight |
|---|-----------------------|--|--------------|
| ONE MODULE | 6m x 2,3m x 2,7(2,1)m | 13,8m ² (27,6m ²) | 150 KG |
| TWO MODULE | 6m x 4,6m x 2,7(2,1)m | 27,6m ² (55,2m ²) | 250 KG |
| THREE MODULE | 6m x 6,9m x 2,7(2,1)m | 41,4m ² (82,8m ²) | 350 KG |

Materials: the folding structure elements consist of aluminium and polyamide, the flexible massive basis is made of steel and contains polyamide fillers to increase the weight.

The outside sheet of the tent is a hardly inflammable plasticized canvas (520g/m²) which offers UV protection and is permanently attached to the structure of the tent with special sealing lids and M12 screws.

The inside anti-condensation sheet works as isolation and is made of polyester (190g/m²). The inside sheet is also attached with special screws on the inner part of the tent structure.

These inside steel screws are produced to hold app. 100kp of weight each. They are intended to carry equipment, hanging beds or other special components. The screws also contain an electrical outlet - 3x1, 5mm².

The ground sheet is thick and plasticized and has a rough anti-slip surface. As an option the ground sheet can be closely fitted to the inside canvas with the screws.

The basic neon - lighting (4, 6, 8 x 20W) is serial feature and is built in the support columns. The lighting is connected to the power grid or the power generator which is permanently attached to the trailer.

EQUIPMENT

4 (one-module), 6 (two-module) or 8 (three-module) special ground pegs provide the stability of the tent in the nature. They are driven into the ground by the support columns on the inside of the tent.

A 5kg hammer is used for driving the pegs into the ground.

Ladder – to open and close the upper elements.

Jacks – specially made for lifting of the tent structure.

Console tubes and canvas used for the lateral extension. The living area or the jutting roof may be enlarged by 100%.

Trailer – the entire kit including the tent *HERKULES KIP UP 3000* with the belonging equipment is stored in the specially designed trailer, which can easily be pulled by a car or other vehicles, lifted by a helicopter or a transport plane and delivered to the place of intervention.

STATIC RESISTANCE

Considering the fact that the weather conditions are getting worse with time it is necessary that the tent framework and the canvas sustain the wind of app. 100 – 140km/h speed.

PRODUCTION CAPACITY AND WARRANTIES

The production process runs automatically on machine tools producing 1000 unites per year.

Warranty – 5 years for the metal framework, 1 year for the canvas. The correct use renders the tent a useful life of 25 years.

PRICE CATEGORIES

The price categories refer to the basic units: single-, two- or three-module units.

Any additional requirements will be charged separately.

