General safety instructions

1. Introduction

1.1. General information

These safety instructions explain how to handle products from HTS TENTIQ.

1.2. Details of manufacturer

HTS TENTIQ GmbH
Hinter der Schlagmühle 1
D-63699 Kefenrod
Germany

Tel.: +49 (6049) 9510-0
Fax: +49 (6049) 9510-20
E-mail: info@hts-tentiq.com
Web: www.hts-tentiq.com

1.3. Warranty and liability

The information and notes comply with the applicable regulations and directives.

The actual scope of delivery of the products may deviate from the explanations and drawings described here in the case of special versions or due to the latest technical changes. If you have any questions, please contact HTS TENTIQ.

We shall guarantee and be liable within the scope of the contractual agreements. We hereby disclaim warranty and liability claims for personal injury and property damage in the event of the following causes:

- Non-intended use of the products.
- Failure to observe the instructions, commands and prohibitions in the safety instructions.
- Unauthorized structural modifications to the products.
- Poor monitoring of components subject to wear.
- Maintenance and repair work not carried out properly and in good time.
- Use of defective components or non-approved spare parts.
- The use of insufficiently qualified and trained personnel for assembly and disassembly as well as maintenance and repair.
- The use of components from other manufacturers is strictly forbidden. Components from HTS TENTIQ are the only ones approved.

1.4. Product safety

Our products comply with the following European directives:[Note to company: Company engineers will have to specify]

- DIN EN 1090 - 1 (Execution of steel structures and aluminum structures)
- DIN EN 1990 (Eurocode: Fundamentals of structural engineering)
- DIN EN 1991 (Eurocode 1: Impacts on load-bearing structures)
- DIN EN 1993 (Eurocode 3: Design and construction of steel structures)
- DIN EN 1999 (Eurocode 9: Design and construction of aluminum structures)
- EN15048 - 1 (Fittings for non-prestressed bolted joints in metal construction)

The corresponding CE marking can be found in the declaration of performance.

All products comply with the state of the art and recognized safety regulations. Modifications and repairs may only be carried out if expressly permitted by these instructions.

Observe all notes and symbols attached to the components

1.5. Copyright

The copyright is held by HTS TENTIQ. Distribution, reprinting, copying and reproduction of this document - even in part - are not permitted without the written consent of the manufacturer.

These safety instructions are subject to change due to further technical developments. These safety instructions are not subject to updating service. Please contact HTS TENTIQ for the current status, when required.

© 2023 HTS TENTIQ GmbH, Status March 2023

2. Safety instructions

2.1. Means of depiction in this document

The warning notices in this document are marked with a pictogram. A corresponding signal word indicates the severity of the hazard.



Hazard !

This warning notice indicates an immediate danger which, if not avoided, will result in serious bodily injury or death.
It also contains information on how to avoid the hazard.



WARNING !

This warning notice indicates an immediate danger which, if not avoided, will result in serious bodily injury or death.
It also contains information on how to avoid the hazard.



CAUTION !

This notice cautions against property damage to the product.
It also contains information on how to avoid the hazard.



Note:

This symbol indicates general instructions

General notices contain application tips and particularly useful information, but no warnings of hazards

2.2. Intended use

Before installing the products, ensure that the substrate is load-bearing and level. Observe the country-specific regulations for acceptance tests.

2.3. Non-intended use

The products must not be used under the following conditions:

- Assembly without the required securing components (e.g. diagonal bracing, ground anchors, etc.).
- The ground is not load-bearing for the duration of use.
- The assembly area is not free of obstacles (e.g. water or gas connections, walls, etc.).
- The ground is too uneven to use spacers.

Use of the products under the above condition is considered non-intended use, which may result in personal injury or property damage. HTS TENTIQ excludes liability and warranty claims resulting from non-intended use.

2.4. General safety instructions

WARNING !

Danger if the safety instructions are not observed

Failure to follow the safety instructions and applicable safety regulations can result in injury or death

Improper handling of the instructions and non-observance of regulations can lead to danger to life and limb

It is essential that you observe the following safety instructions before you start assembly

- Read **all** safety instructions carefully **before** starting assembly.
- Observe the sequence of assembly steps.
- Do not perform an assembly step until it is understood and the necessary components for that step are identified.
- Ensure sufficient height clearance from overhead installations such as power lines, tree branches, bridges, etc.
- Perform a site survey including, utilities, access and terrain.
- Consideration should be given to an obstructions, weather forecasts, wind exposure, access, exits, anchoring stability, trip hazards.
- A detailed installation and safety check sheet should be established by those installing the product.
- Clarify with the responsible authorities country-specific as well as site-specific regulations and existing underground power, gas or water lines below the final assembly site. Once the site has been property marked by the assembly can proceed. The location of the utilities may affect the final location of assembly.

- Assembly should not begin until the appropriate permits are obtained and any inspections by government authorities have been completed.
- The products have their final stability only after the completion of the assembly work. Never assemble or disassemble in adverse weather conditions (e.g. storm or wind).
- Keep the assembly area free of litter and obstacles to avoid tripping hazards. Ensure that flags or other identifying features are near any stakes to identify potential tripping hazards.
- When assembling do not permit any unauthorized persons at the assembly site.
- Certain assembly locations may require different tools and working methods than those described in the assembly instructions. Always observe the safety instructions necessary in the respective situation.
- Observe additional instructions e.g. for the assembly and operation of heaters, lighting and ballast weights.

2.5. Personnel



WARNING !

Danger of injury

Careless movement of heavy components can result in serious bodily injury or death

- The assembly of tents, halls or floors must be carried out by competent and adequately trained personnel in sufficient numbers. Do not cut corners.
- At least one competent person (foreman) must be in charge of and responsible for assembly and disassembly. Skilled implies that this person has knowledge of the operations and the required safety measures.
- Always wear personal protective equipment (safety helmet, gloves, protective eye wear and safety shoes) to prevent injuries.
- Assembly assistants must be instructed about the possible hazards prior to assembly.
- Vehicles and equipment used for assembly may only be operated by personnel trained and authorized to operate them.

2.6. Assembly authorization

- Observe the requirements, specifications, conditions and operating

- Every new assembly of a HTS TENTIQ construction must be approved by the responsible building authority.
- Use safety color code for marking physical hazards, Yellow shall be the basic color for designating caution and for marking physical hazards such as: Striking against, stumbling, falling, tripping, and ‘caught in between and safety colors shall warn through the use of black and orange and caution with black and yellow. Use safety cones on the worksite as appropriate.

2.7. Directives and regulations

It is essential that you observe the following directives and regulations:

- The latest local accident prevention regulations.
- The " Directives for the Construction and Operation of Flying Structures".
- The relevant safety precautions and standards of the relevant professional association.

3. Assembly material and accessories

3.1. Tools and work equipment



WARNING !

Danger of accident caused by unsuitable tools
The use of unsuitable tools for assembly and disassembly can lead to injuries and death.

- Always use the tool specified in the respective instructions for assembly and disassembly.
- Personnel must be trained and authorized to use the tools and equipment required for assembly and disassembly.

4. Assembly



Hazard !

Observe opening direction of doors
Doors and windows must always open outwards to allow rapid escape from the interior in the event of danger

- When installing the doors, make sure that they can be opened outwards.
- Do not lock the doors.
- Keep the entrance and exit areas clear and unimpeded.

- Avoid trip hazards at thresholds and transitions to ramps.
- Use only approved ramp railings.



WARNING !

Danger due to excessively steep or uneven terrain

Excessive unevenness or slopes in the pitching area can cause the tent to collapse

- When aligning the tent, make sure that a maximum slope of 1 percent is not exceeded.
- The anchor plates may be supported by a maximum height of 39.3 in. (1 m).
- It is imperative to ensure that the anchoring depth specified by local authorities is maintained despite the underpinning.



WARNING !







Danger of injury - danger of crushing

Careless movement of heavy elements and weights can lead to serious bodily injury or death.

- Personnel must wear the appropriate personal protective equipment (safety helmet, gloves, safety shoes and protective eye wear) during assembly and disassembly to prevent injuries.

- Assembly assistants must be instructed about the possible hazards prior to assembly.
- Do not stand under suspended loads. Keep a safe distance when there are suspended loads in the area.
- Vehicles and equipment used for assembly (e.g. for placing the floor elements and weights) must be appropriately approved and may only be operated by personnel trained for this purpose.



CAUTION !

Observe construction drawings and parts lists

- Components can look similar but designed for different purposes. Ensure that the proper components (in the correct size and dimensions) are used in each assembly step.
- During assembly, pay attention to the exact description and position of the components used in each case as well as the necessary assembly material according to the structural analysis, design drawing, and parts list.

CAUTION !

Danger due to incorrectly selected anchor plates

For some tent models, the anchor plates for the beginning, middle and end positions of the tent may differ.

- Make sure to use the anchor plate required for the respective floor position.

CAUTION !

Danger due to inaccurate position of the anchor plates

Incorrectly or inaccurately arranged anchor plates complicate or even prevent further assembly.

- When distributing and positioning the anchor plates, make absolutely sure that they are in the right position.
- Anchor plates have an outer and an inner side. Observe the correct orientation when positioning the anchor plates.

CAUTION !

Danger due to unsuitable or missing wind bracings

An unsuitable position or an incorrect number of wind bracings can lead to an unstable tent setup in strong winds.

- Take the exact number and position of the wind bracings and free fields from the structural analysis, design drawing or parts list.

CAUTION !

Danger of walking on roof covers!

Walking on roof covers during installation or at any later time is strictly prohibited. The weight load on tarpaulins caused by people, heavy tools, assembly components, or materials can lead to overload and the rupture of welded seams. Such handling errors pose a significant safety risk to installation personnel and can cause irreparable damage to tarpaulins and welded seams.

- Under no circumstances should you walk on the roof tarpaulins.
- Use only appropriate scaffolding of lifting devices for work at height.
- Do not place anything on the covers.

5. Disassembly

WARNING !

Danger due to live components

The wind bracings are under tension and can lead to injuries and unstable construction caused by improper disassembly.

- Only adequately trained and skilled personnel may disassemble the tent.
- Do not release the tensioned wind bracings until the stability of the components still assembled without wind bracings is ensured.
- Never disassemble in adverse weather conditions (e.g. storm or wind).

6. Maintenance instructions

CAUTION !

Please observe the following instructions to ensure the operational safety of the product:

- Check the tension of the wind bracings, screw connections and roof anchoring:
  - After 3 months of standing.
  - After heat or frost periods.
  - After 3 months of standing.
  - After experience high winds.
- Check the anchoring devices for completeness and tight fit.
- Regularly perform a visual inspection of all components and structures for deformation or damage:
  - All ridge, intermediate and eave purlins must be properly hung.
  - All bolt connections must be fitted and secured by cotter pins against unintentional loosening.
- Immediately replace defective components with original spare parts from the manufacturer.

CAUTION !

Danger caused by unapproved spare parts

The use of non-approved spare parts does not guarantee proper and safe operation.

- Only use spare parts approved by the manufacturer.
- If in doubt, contact your HTS TENTIQ representative.

7. Transport and storage

CAUTION !

Damage due to improper storage is possible.

To prevent damage to the material and extend the service life, please observe the following instructions:

- Tarpaulins and awnings must be dry before folding.
- Disassembled parts must be inspected for damage after disassembly and immediately sorted and loaded.
- Damaged components must either be repaired or marked accordingly.
- For transport on a truck, observe maximum load capacity.