

CANOPY

TECHNICAL DOCUMENTATION AND ASSEMBLY MANUAL



1.0 TECHNICAL DOCUMENTATION, GENERAL DESCRIPTION OF THE CANOPY

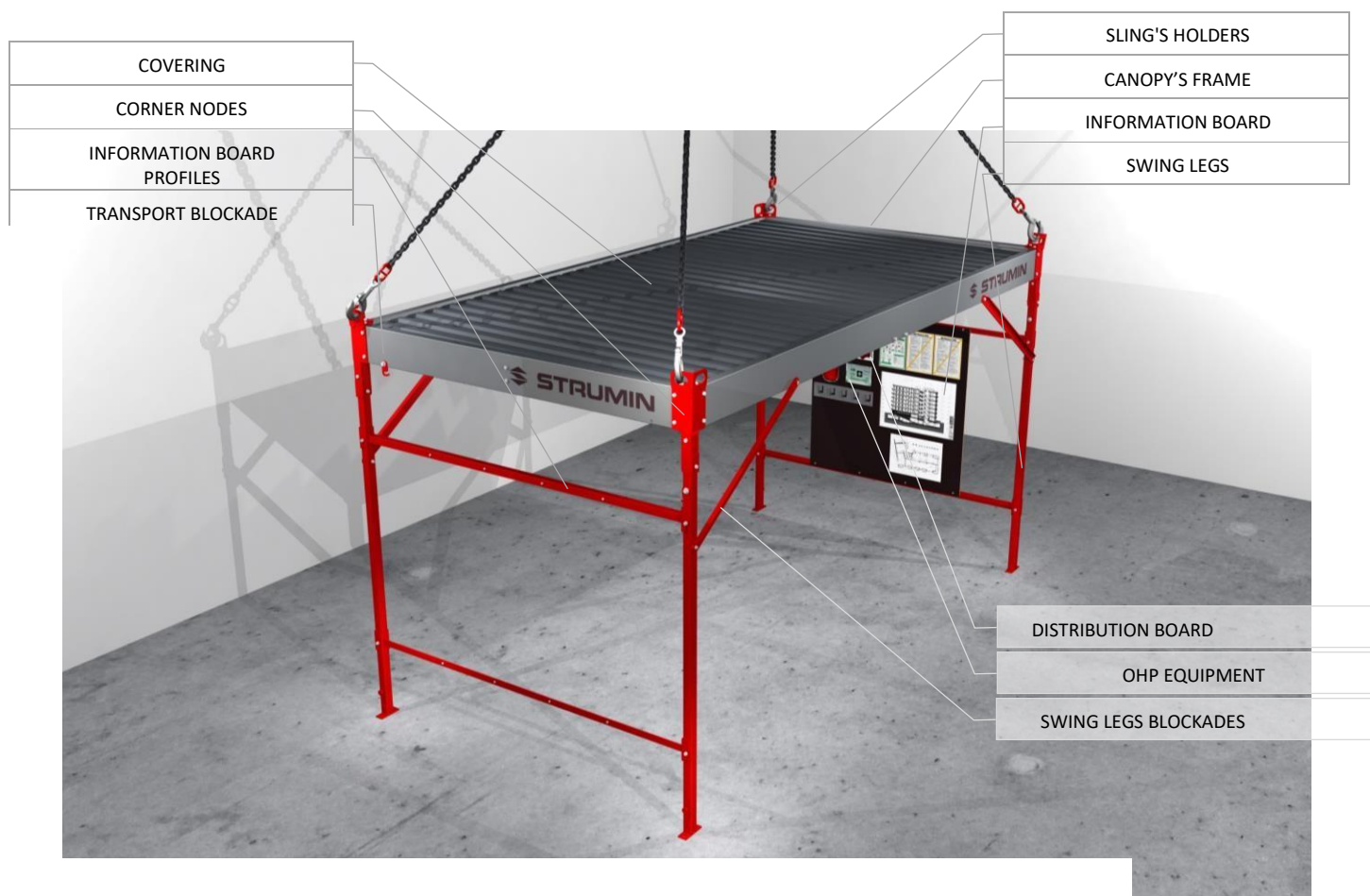
The canopy is a steel construction consisting of a few basic elements:

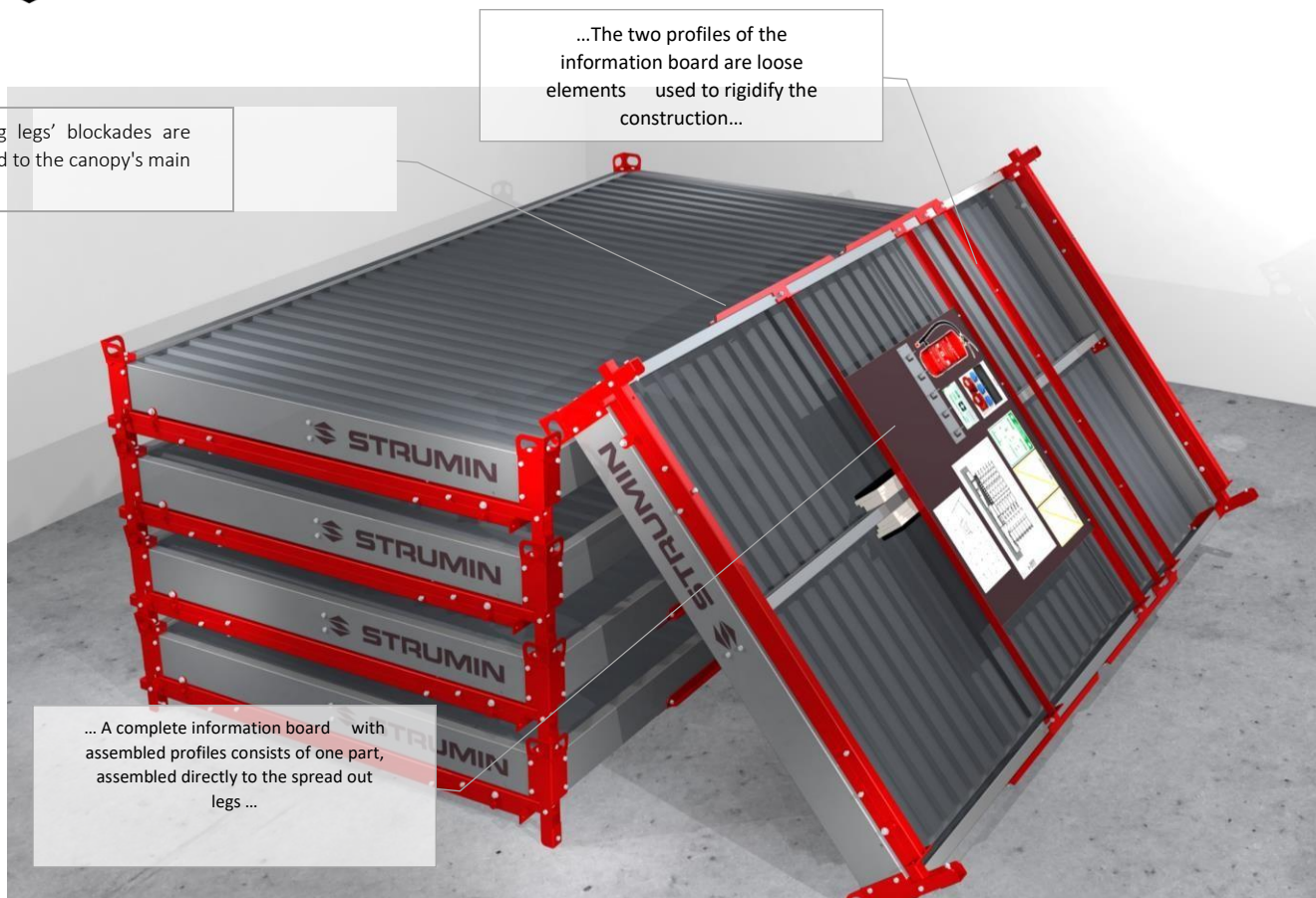
- CANOPY'S FRAME
- CORNER NODES
- SLINGS' HOLDERS
- CANOPY'S COVERING
- SWING LEGS
- SWING LEGS BLOCKADES
- INFORMATION BOARD PROFILES
- TRANSPORT BLOCKADE
- DISTRIBUTION BOARD
- OSH EQUIPMENT: FIRE EXTINGUISHER, FIRST-AID KIT, FIRE BLANKET
- INFORMATION BOARDS

THE CANOPY was designed as a set with maximum simplicity of spreading out in mind.

The canopy consists of three main parts:

- The canopy's frame with a covering, corner nodes, transport holders and swing legs blockades,
- Swing legs,
- Profiles of the accessory board and a full accessory board with profiles.





The swing legs' blockades are assembled to the canopy's main frame

...The two profiles of the information board are loose elements used to rigidify the construction...

... A complete information board with assembled profiles consists of one part, assembled directly to the spread out legs ...

THE CANOPY in the folded configuration is characterised by the simplicity of operation and transport (both with a forklift and a crane).

After folding the swing legs, the information board profiles and the complete information board are assembled from the bottom of the canopy's frame.

Attention: The two profiles of the information board are loose elements used to rigidify the construction and make it easier to unclip the transport slings. They can also be used to assemble the second information board with any elements, e.g. OHP equipment or other elements matching the characteristics of the device.

A complete information board with the assembled profiles consists of one part, assembled directly to the spread out legs. The board is an element which rigidifies the construction and makes it easier to unclip the transport slings.

The swing legs' blockades are assembled to the canopy's main frame.





... The two profiles of the information board are loose elements used to rigidify the construction and make it easier to

... A complete information board with assembled profiles consists of one part, assembled directly to the spread out legs ...



... The board is an element which rigidifies the construction and makes it easier to unclip the transport slings ...

... unclip the transport slings. They can also be used to assemble the second information board with any elements, e.g. OHP equipment ...



2.0 THE CANOPY'S DIMENSIONS, DIMENSIONS WHILE STORING



	L[m]	S[m]	H[m]	Weight [kg]	
SPREAD OUT CANOPY	4.20	2.26	2.42	230	
FOLDED CANOPY	4.20	2.26	0.49	230	

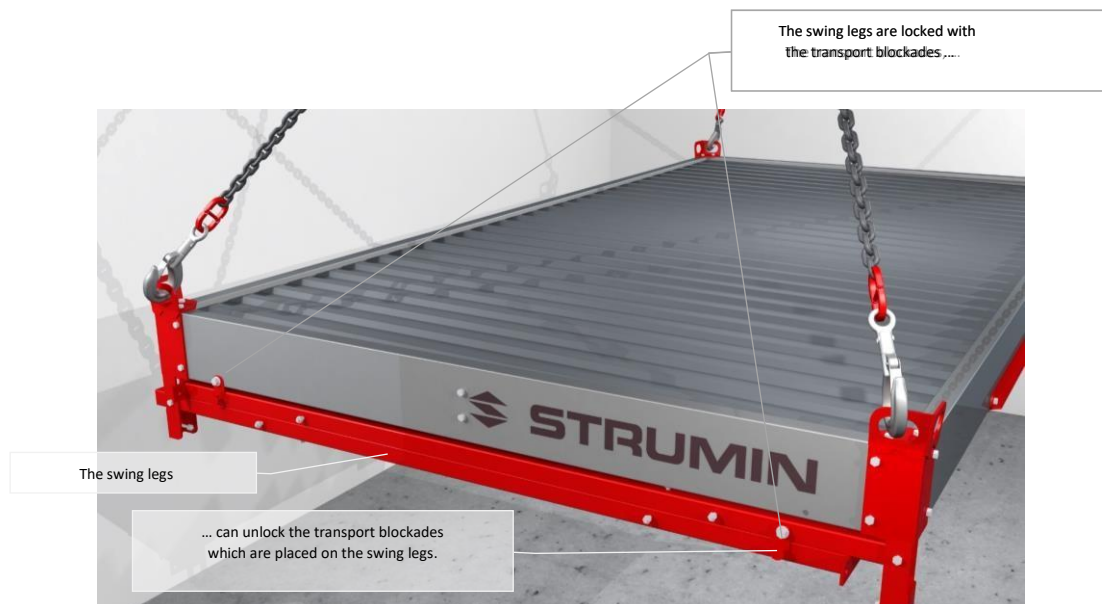


3.0 ASSEMBLY OF THE CANOPY

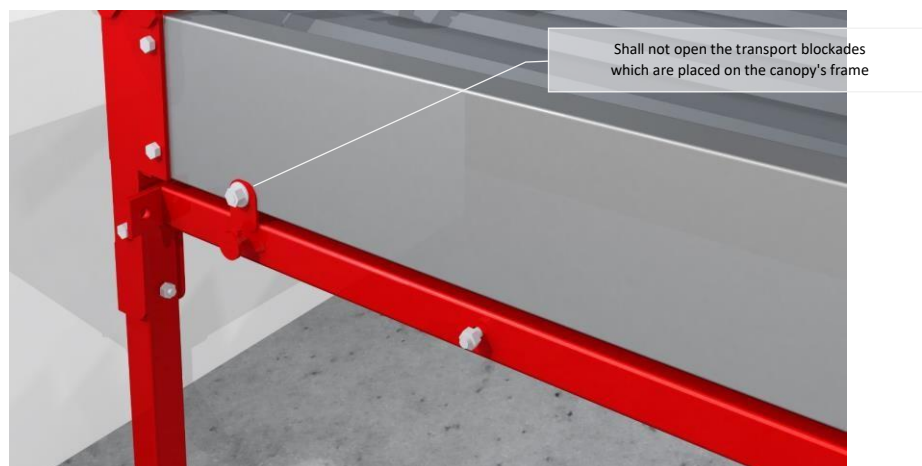
The swing legs in the folded position (ready for transport) are locked with the transport blockades which are placed on the canopy's frame and the swing legs. After folding the legs (in the disassembly and preparation for transport procedure), the transport blockades shall be secured with a wrench from accidental opening.

The process of spreading out the canopy starts from clasping the sling's hooks for the transport holders. It can be performed by an authorized person, i.e. a hook whistblower.

The next step is lifting the whole construction to the height of one meter. On that height the user can unlock the transport blockades which are placed at the swing legs..



In that moment, the user shall not open the transport blockades which are placed on the canopy's frame (galvanized C200 channel bar). It may lead to an uncontrolled opening of the swing legs and damaging some parts of the user's body.



When the construction is about one meter over the ground, the user can spread out the lower swing legs.

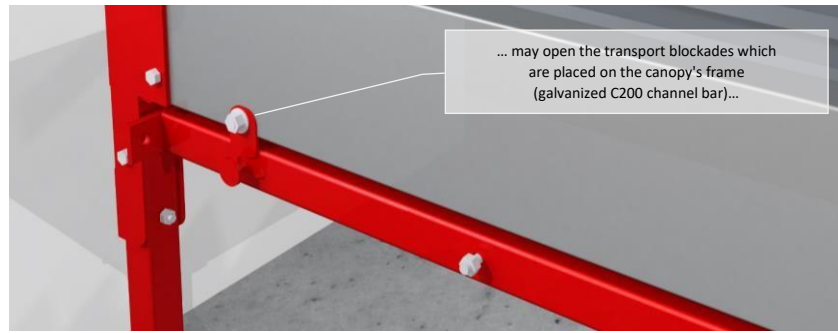


Then the whole construction can be lifted for the height of about two meters, so that the legs are completely spread out. After that the legs shall be locked in the corner nodes with M12 screws marked in the figure.



When the lower swing legs are assembled and locked in the corner nodes, the user may open the transport blockades which are placed on the canopy's frame (galvanized C200 channel bar) and open other swing legs.



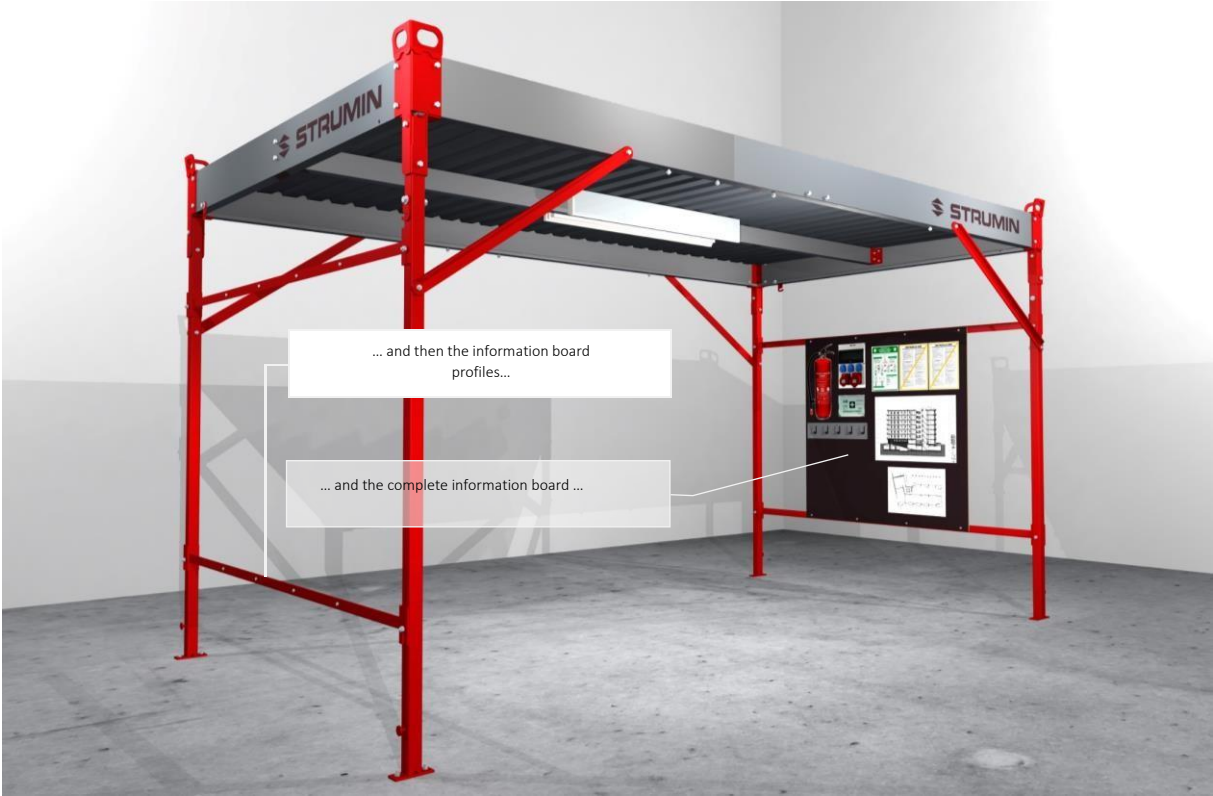


Then the legs shall be locked with M12 screws (as shown in the below figure).



When the swing legs are spread out, the construction shall be rigidified with the use of the swing legs and then the information board profiles and the complete information board.





When the swing legs are locked in the corner nodes and properly rigidified, the transport slings' hooks can be unhooked.



4.0 THE ASSEMBLY OF THE CANOPY – ANCHORING TO THE SURFACE

The spread out canopy shall be assembled to the surface so that the whole construction is stable in case of some unfavourable weather conditions, e.g. strong wind.

The anchoring shall be performed with the use of an mechanical anchor M10x120, the assembly to the surface shall provide the minimum strength of 10 kN.

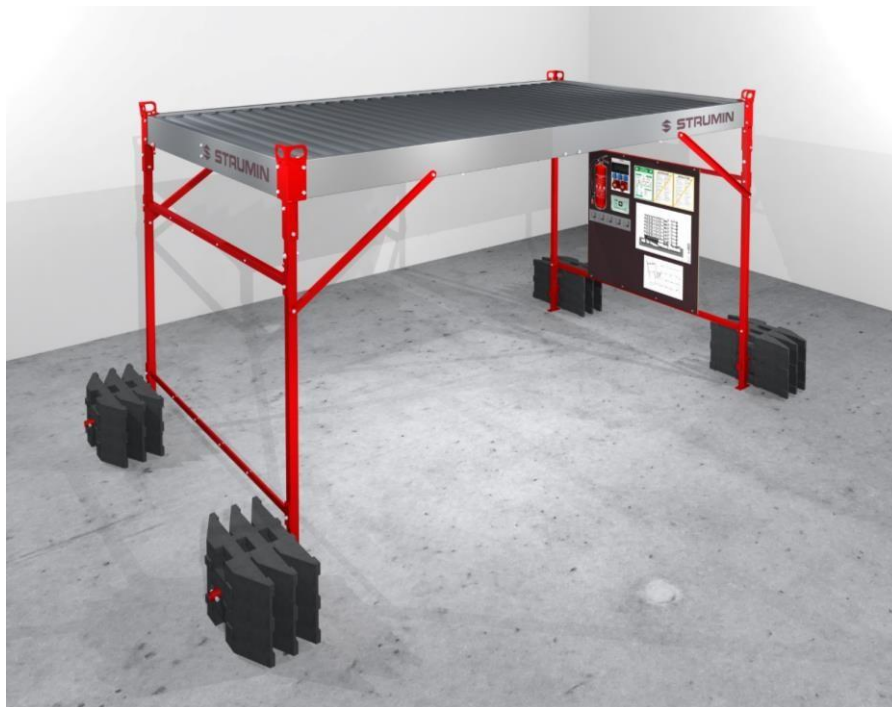
The design includes eight assemblies (two for each leg).

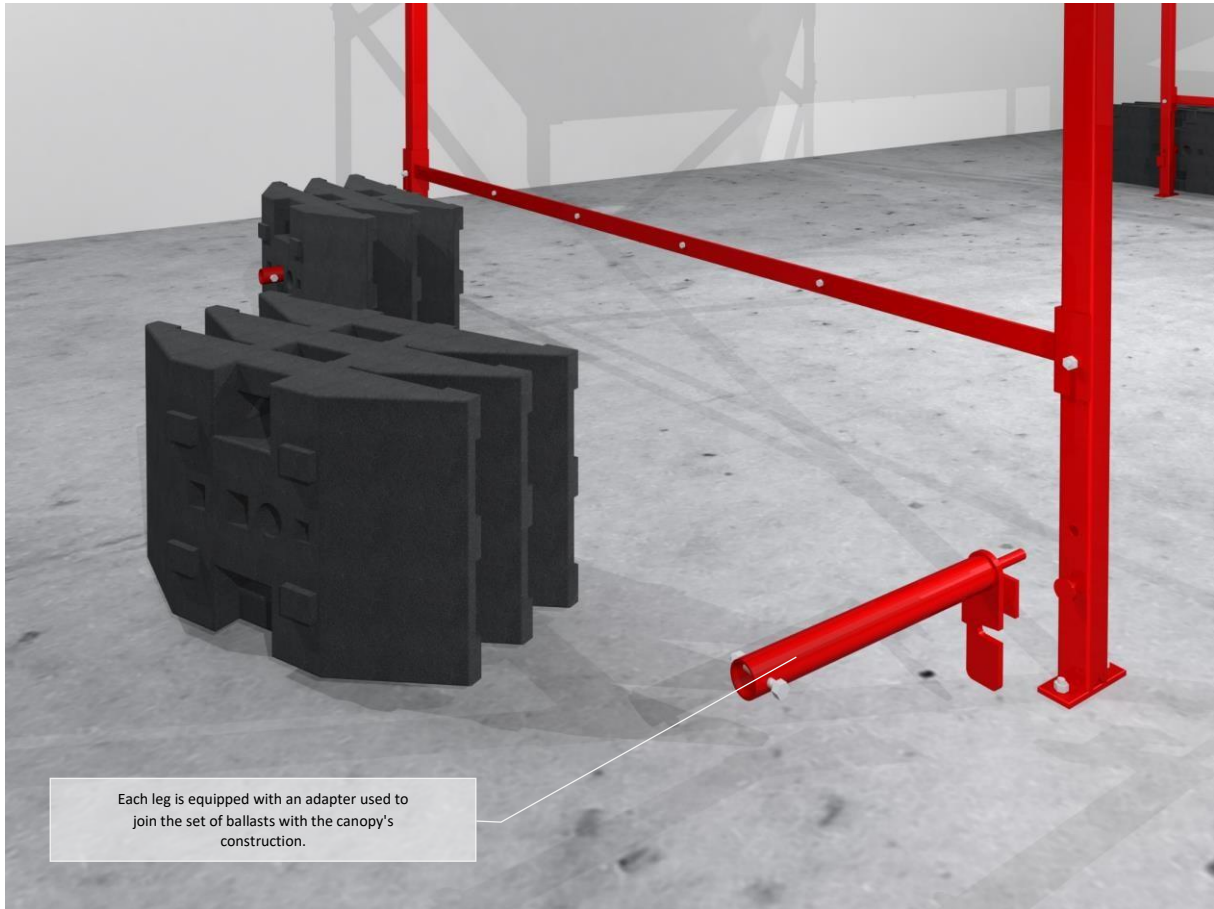
The canopy is optionally also equipped with rubber ballasts which make the construction heavier in case of the lack of possibility to anchor it the ground – see the next pages.



4.1 THE ASSEMBLY OF THE CANOPY – BALLASTS

The canopy is optionally equipped with rubber ballasts which make the construction heavier in case of the lack of possibility to anchor it the ground. Each leg is equipped with an adapter used to join the set of ballasts with the canopy's construction.





5.0 LIGHTNING PROTECTION

In case of a need to provide a lightning protection, it shall be prepared by a person holding proper permissions and competences.

The canopy was equipped with places where the lightning protection can be assembled.

6.0 ELECTRICAL INSTALLATION

If the user prepares the electrical installation with the use of a distribution board which is a part of a canopy, the installation works shall be performed by a competent person holding proper permissions.

The distribution board is an optional equipment which is not an electrical installation in terms of the applicable law and its unauthorized connection or use by non-authorized and/or unqualified people is prohibited and poses a direct threat to the user's health and life.



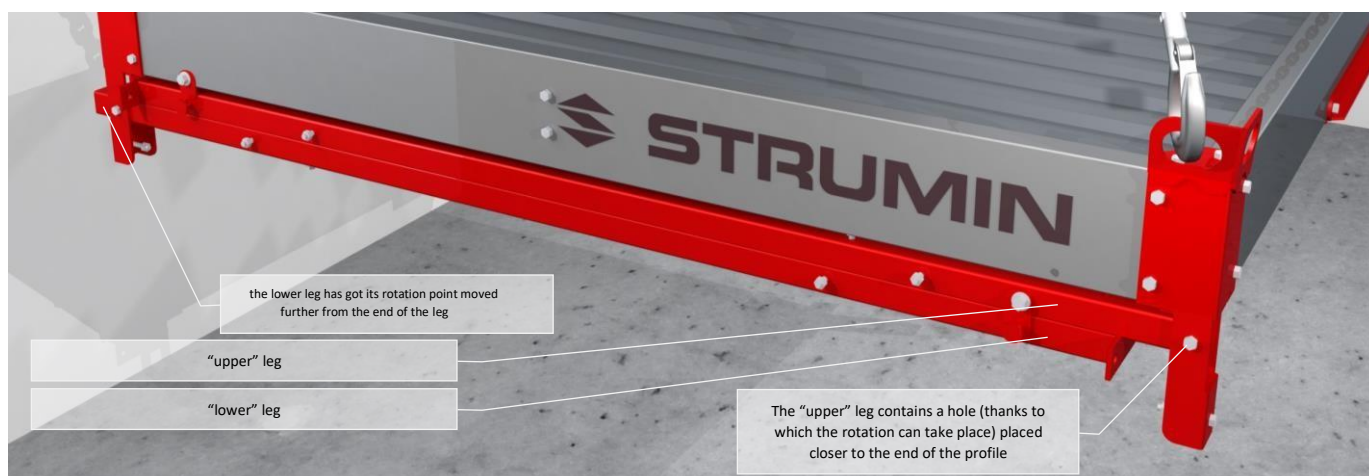
7.0 THE DISASSEMBLY OF THE CANOPY – POSITION FOR STORING

The disassembly procedure of the canopy and the preparation of the construction for transporting and storing is a reverse process to the assembly procedure. All actions shall be performed in a reverse order to the points described in chapter 3.0.

The disassembly procedure can be presented in the form of the below list:

- clasp the slings' hooks to the transport holders of the canopy,
- lift the construction with a crane,
- unfasten the M12 screws locking the swing legs,
- close the "upper" swing legs and lock them with a transport blockade (placed at the C200 channel bar),
- fasten the screws in the transport blockades, protecting them from an uncontrolled opening,
- unlock the M12 screws blocking the "lower" sling legs from closing,
- fold the "lower" legs and lock with the use of transport blockades which are placed on the "upper" swing legs,
- lower the canopy on the ground and unhook the slings from the transport holders.

The above procedure contains the terms of "upper" and "lower" legs. The figure below shows the difference between them. The "upper" legs are those which are placed closer to the C200 channel bar, and the "lower" legs are those which are under the folded "upper" legs. The "upper" leg contains a hole (used during rotation) which is placed closer to the profile's end, while the lower leg has got its rotation point moved further from the end of the leg – see the figures below.



IMPORTANT NOTES:

Do not unlock the swing legs (screws blocking them from closing) before the canopy is attached to the slings' hooks and before lifting the whole construction.

Removing the screws protecting the legs from closing when the canopy is placed on a surface may lead to the fall of the construction in an uncontrolled manner what poses a direct threat to the life and health of people standing close to it.

