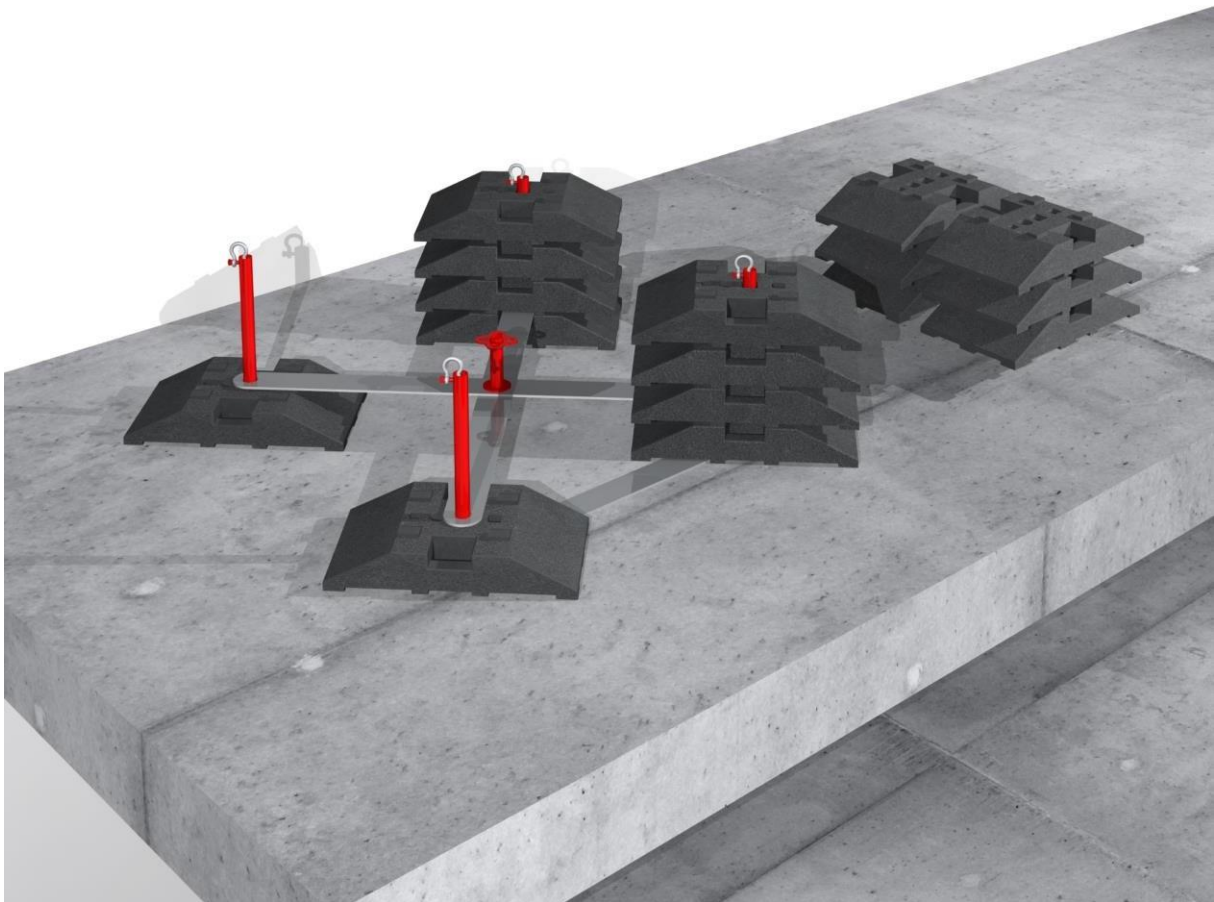


“SPIDER” FALL ARREST SYSTEM

“SPIDER” ANCHORING DEVICE

TECHNICAL DOCUMENTATION AND ASSEMBLY MANUAL



1.0 TECHNICAL DOCUMENTATION, GENERAL DESCRIPTION OF THE FALL ARREST SYSTEM

The “SPIDER” fall arrest system and the “SPIDER” anchoring device is a construction consisting of a few basic elements:

- INERT ANCHORING MASS (OR SET)
- FLEXIBLE ANCHORING LINE
- SELF-LOCKING DEVICE 3.5 M
- SELF-LOCKING DEVICE 6 M

The inert anchoring mass consists of a few elements:

- RUBBER SYSTEM’S BALLASTS – 25 KG
- MAIN ARMS
- LOCKING ARM
- CENTRAL POLE
- BALLASTS’ POLES
- FOUR ANCHORING POINTS

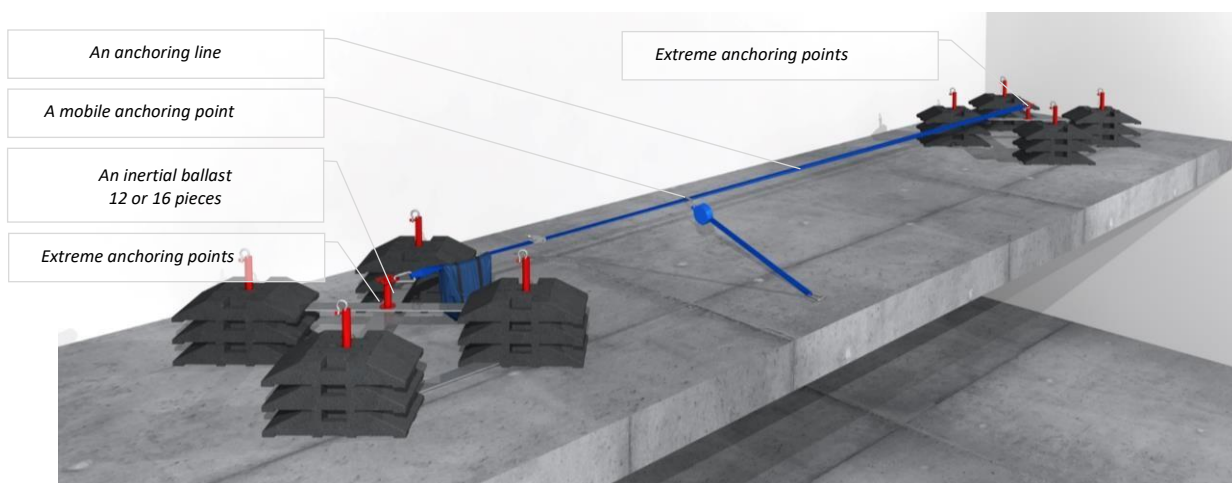
THE FALL ARREST SYSTEM is available in a few configurations which were presented below. Depending on the surface on which the system is to be placed, the user shall choose the right combination described in the point 2.3 of this document.

„Spider – operating manual.pdf”.

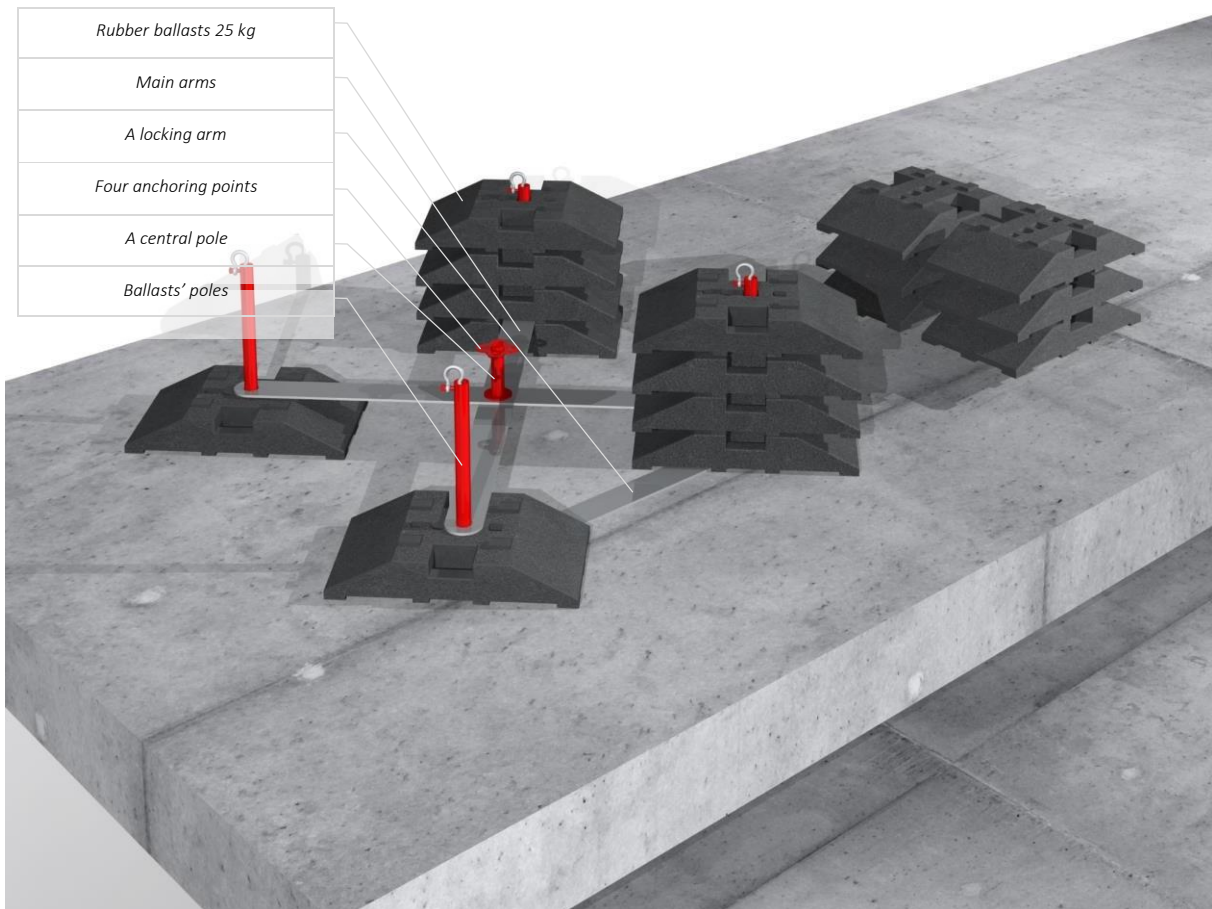
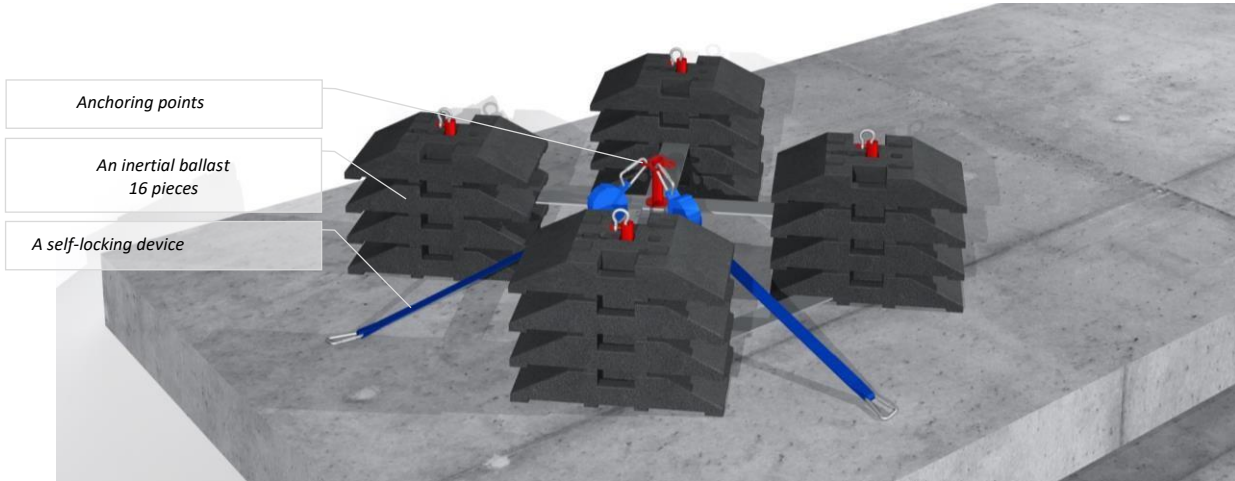
It shall also be determined in which way the safety system is to be operated by choosing the right option from the abovementioned chapter (a “securing” system or a “preventing” system).

The corrosion protection of the elements is provided by a system of lacquered layers.

1.1 CONTRUCTION OF THE “SPIDER” FALL ARREST SYSTEM – TYPE C/E



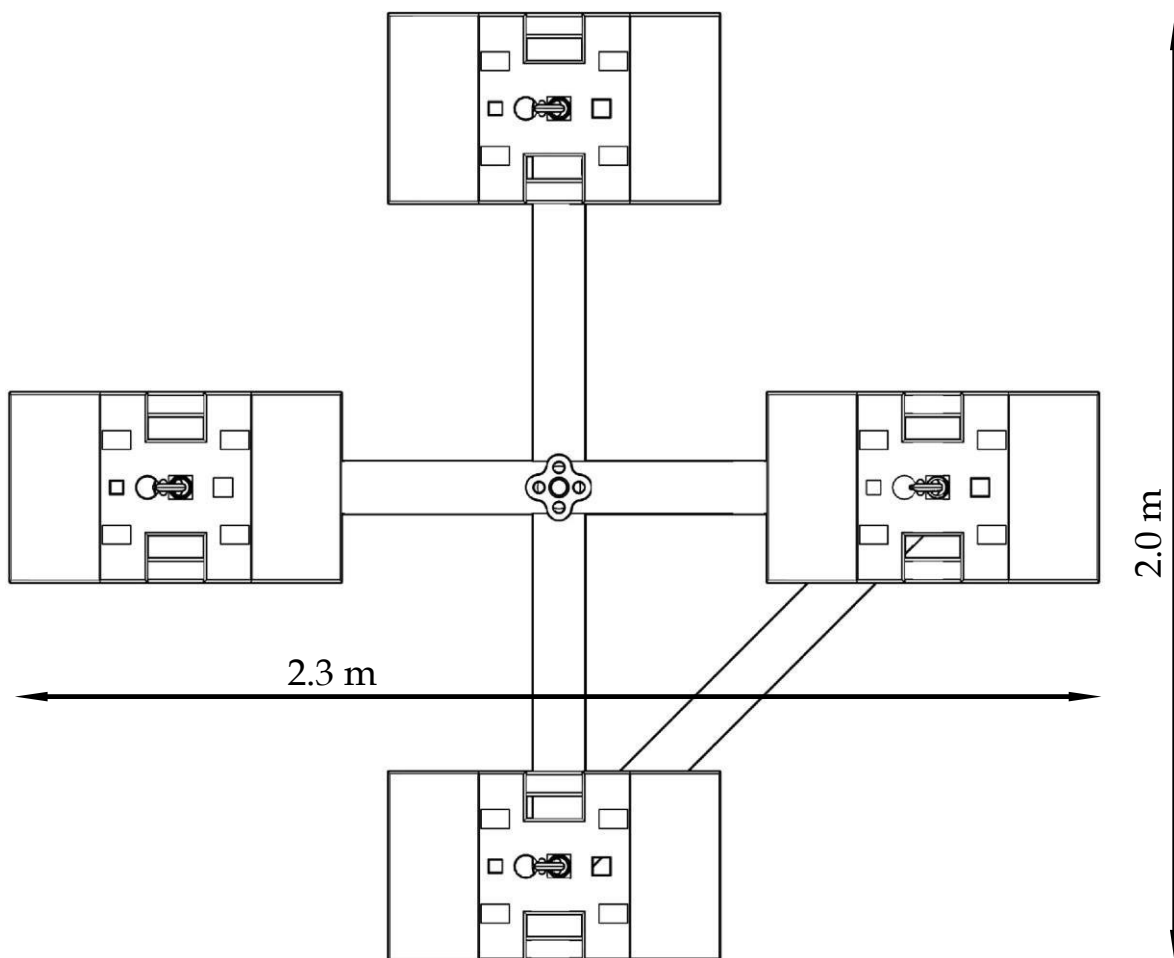
1.2 CONSTRUCTION OF THE "SPIDER" – TYPE E ANCHORING DEVICE

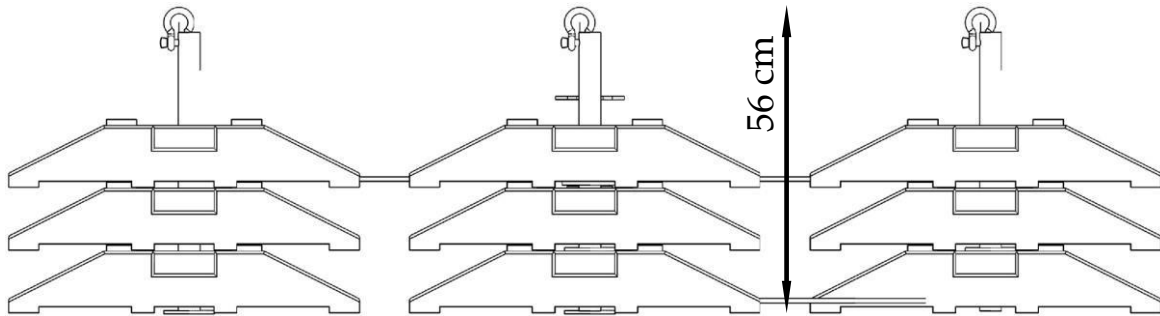


1.3 INERTIAL ANCHORING MASS

The device consists of two steel arms rotated by 90°. Those arms are connected with a central pole. The pole locks the connection of the main arms with the use of a lower pin and a pad. The central pole in the upper part has four anchoring points. The holes at the ends of the main arms are used to assemble the ballasts' poles. On those poles are placed rubber ballasts – depending on the configuration there are three or four ballasts used. The ballasts' poles are equipped with holders for a crane's slings. The main arms are locked with the use of a locking arm. It can be placed under the first ballast (on the ballasts' poles) or on any of the levels. From a practical point of view, the best position for the locking arm is the lowest level – it does not pose any problems while using (a conflict with a lifeline or a self-locking device).

- Material: lacquered constructional steel
- Weight 370 kg
- Height: 56 cm
- Max. width 230 cm
- Min. width 200 cm





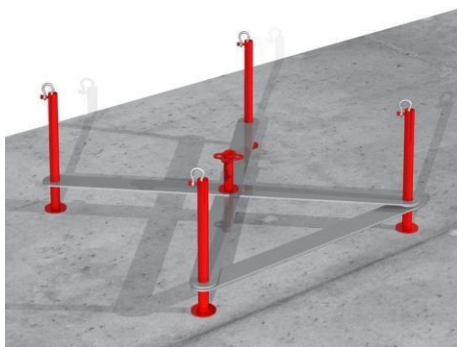
1.4 BALLAST 25 KG



SYSTEM'S RUBBER BALLAST is commonly used as a road protection system etc. Because of its low weight it can be used by a single user only thanks to the strength of the user's muscles and with no need to use a crane.
 System's holes: 40, 50, 60 mm

Material:..... rubber,
 Weight 25 kg
 Length..... 70 cm
 Width..... 40 cm
 Height: 11 cm

1.5 SPIDER



THE FRAME OF THE BALLAST – "SPIDER"
 The removable steel frame is used to move the loads from anchoring points to the base with the rubber ballasts. It is characterised by the simplicity of its construction and the ease of assembly and disassembly. It can be easily stored and transported.

Material:..... lacquered steel
 Weight: 70 kg
 Height: 56 cm
 Diameter..... 0.35 m



1.6 LIFELINE



A horizontal anchoring tape with adjustable length (horizontal safeguarding line) used while performing works which demand a lot of movements in the horizontal plane.

Characteristics:

- polyester tape ("anchoring line"),
- stretching/regulating elements made of steel galvanically protected from corrosion,
- two steel snap rings,
- transport bag,
- in accordance with the EN 360 norm.

1.8 SELF-LOCKING DEVICE.



Characteristics:

- a self-locking device,
- a self-clamping device, with nylon tape 3.5 m, 6 m,
- an aluminium enclosure,
- 1 automatic revolving snap ring with a fall indicator,
- 1 steel snap ring, ref. No. 981.
- in accordance with the EN 360 norm.

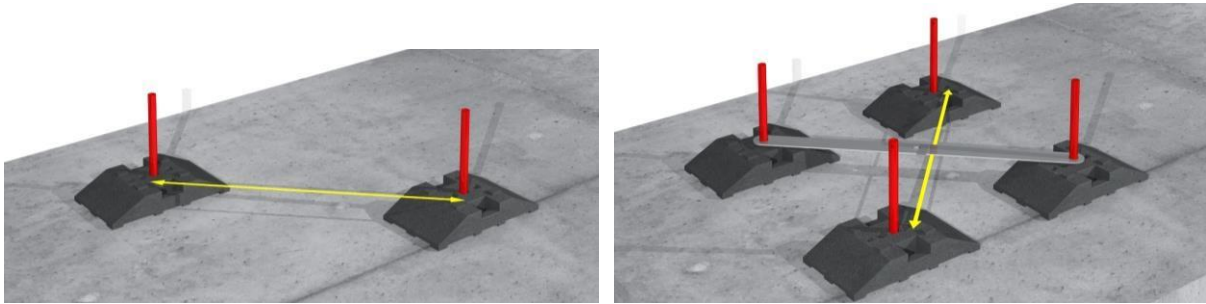
Works with:

A primary fall arrest device:

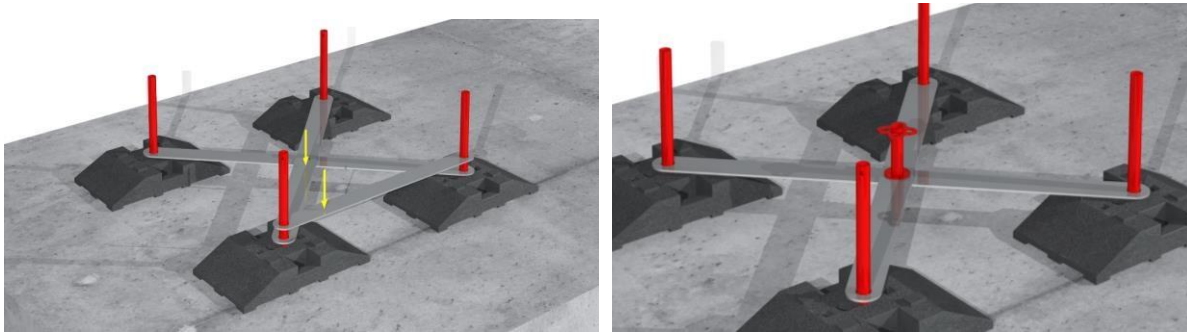


2.0 ASSEMBLY INSTRUCTION

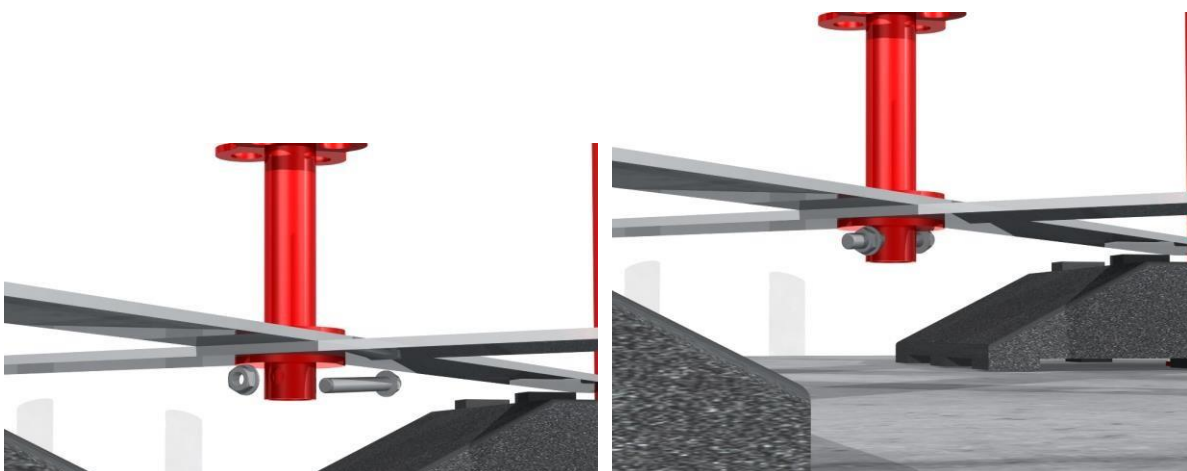
2.1 ASSEMBLY INSTRUCTION OF THE SPIDER BALLAST'S FRAME



Place two ballast poles in the 160 cm distance from each other and then place on them 25 kg ballasts. Assemble the main arm on the steel poles. Then perform the same action for the second pair of the ballast's poles, placing them perpendicularly towards the previous pair. The middle holes of the main arms shall overlap.

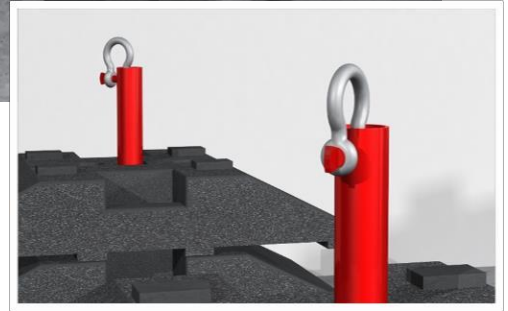
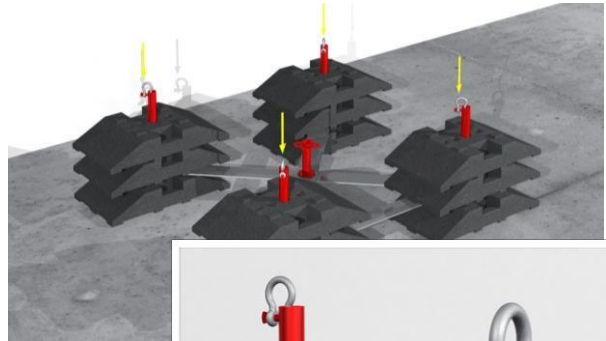
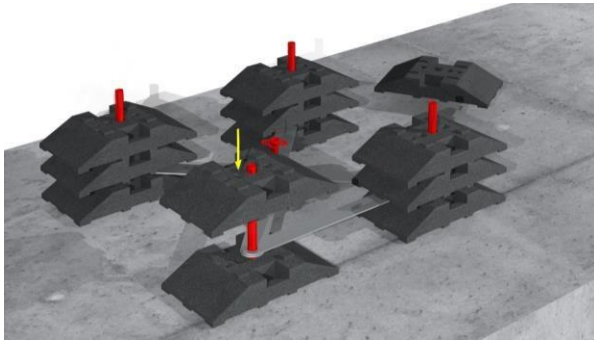


Assemble the locking frame on the two neighbouring ballasts' poles.

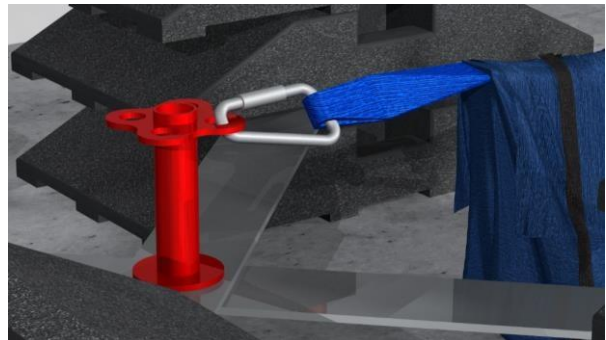
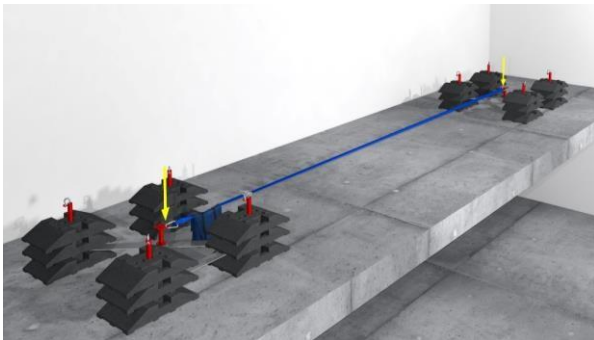


Assemble the central pole, locking it from the bottom with a pad and a M12 screw – in accordance with the above figure.

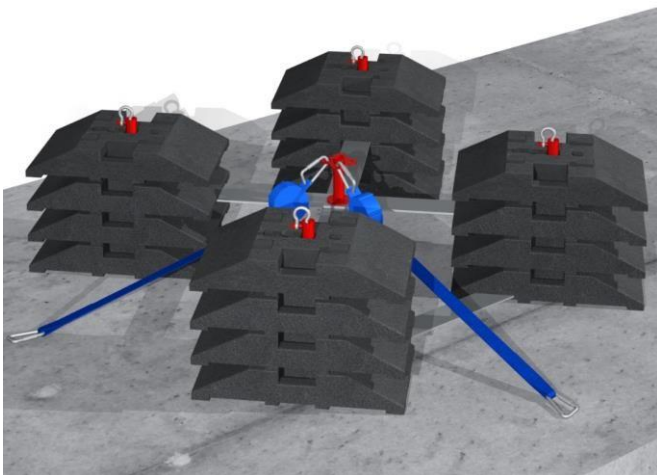




Place the ballasts on the poles. Depending on the configurations described in the document "SPIDER – OPERATING MAUAL.PDF", assemble 3 or 4 ballasts on each pole. To the upper holes of the ballasts the user shall assemble clamps used as holders for the crane's slings.



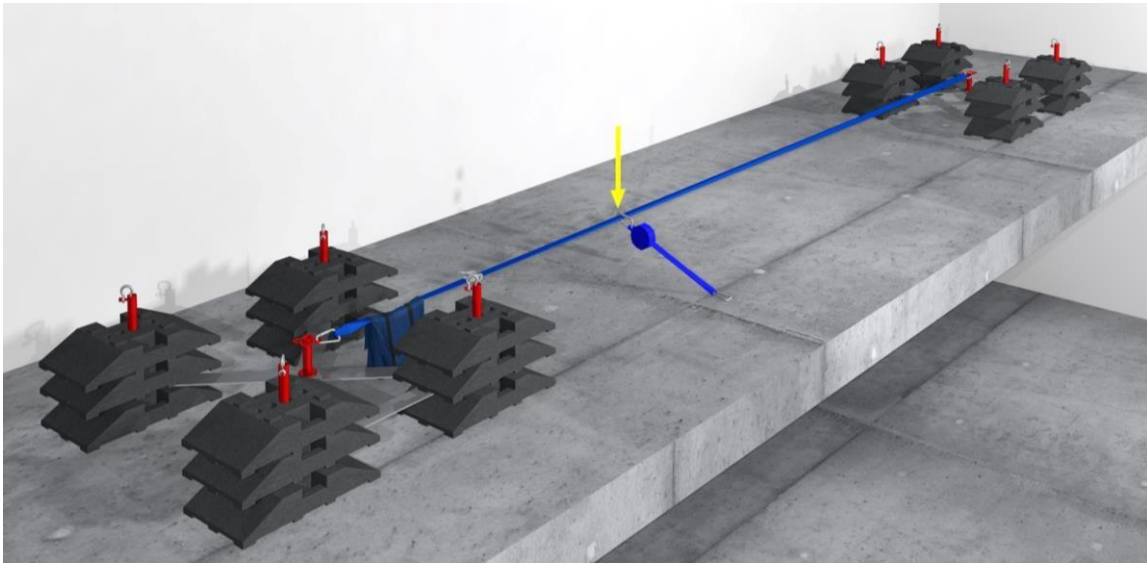
The SPIDER fall-arrest system demands the use of at least two anchoring ballasts which shall be connected with a lifeline – as shown in the figures above.



ATTENTION:

The SPIDER anchoring device demands only the connection of fall-arrest devices, i.e. a self-locking device.





To the previously connected lifeline the user shall assemble a self-locking device.

During the assembly of the inertial ballast and the placement of the system's elements, the user shall act carefully and in accordance with the instructions described in the "SPIDER – OPERATING MAUAL.PDF".

