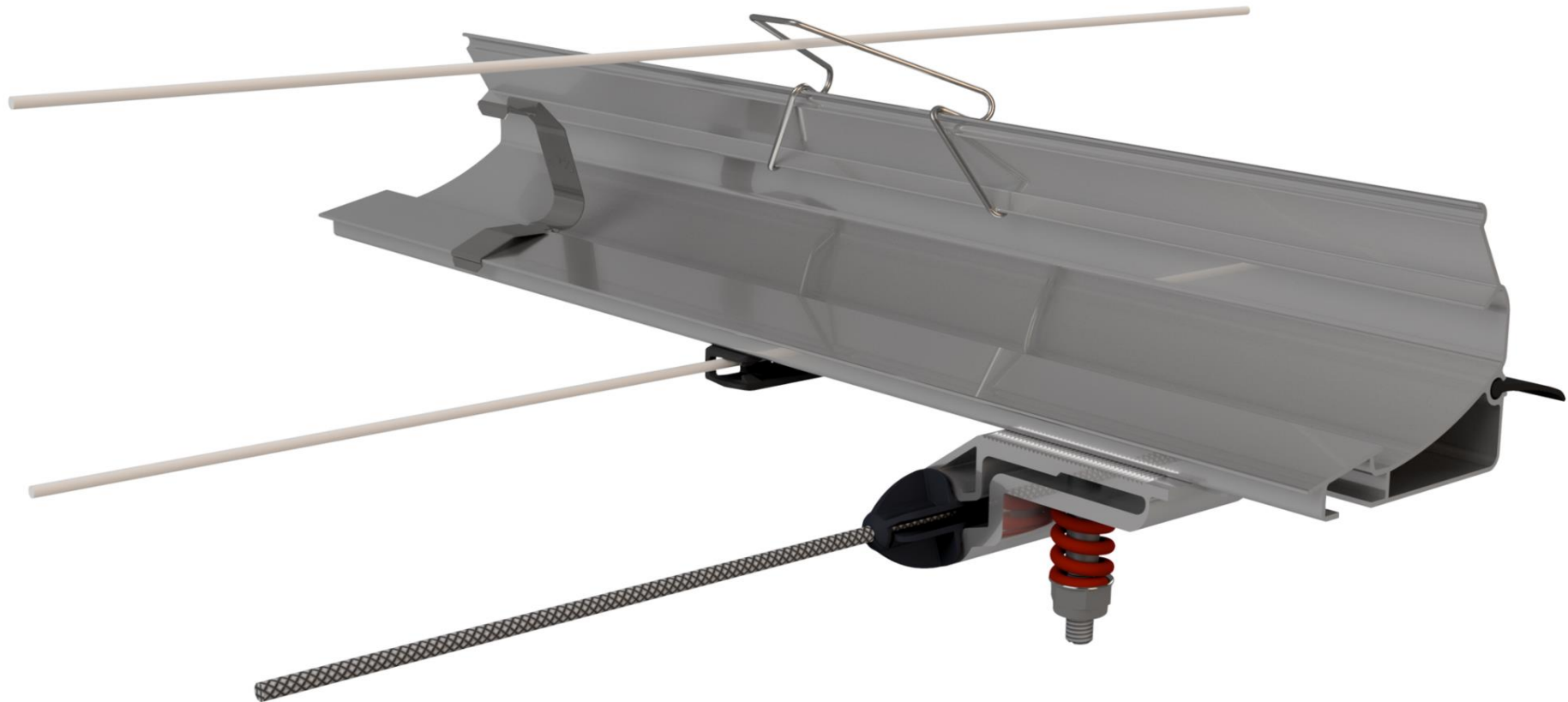


Manual - ValkClip

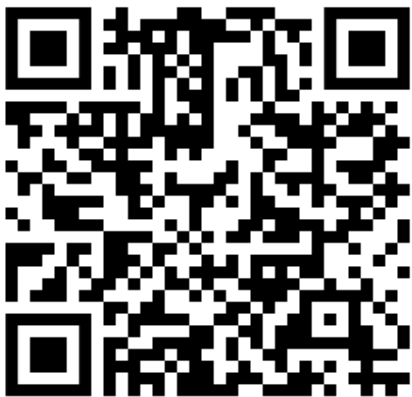


Upper Screen

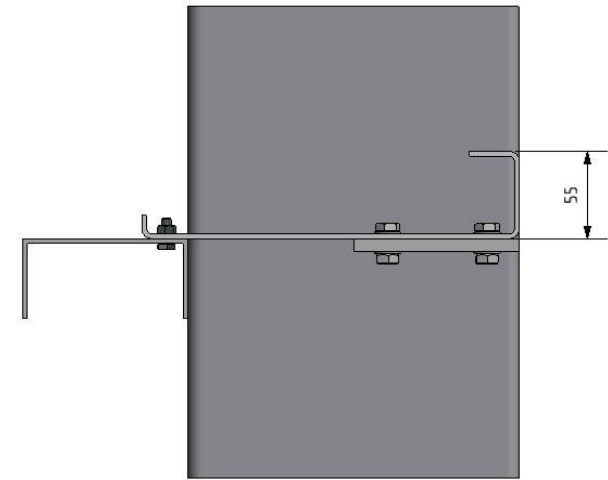
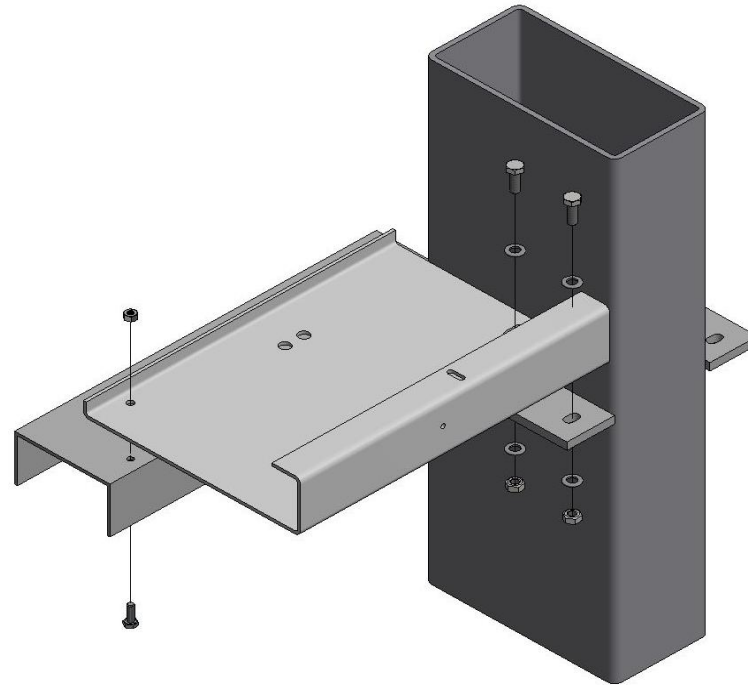
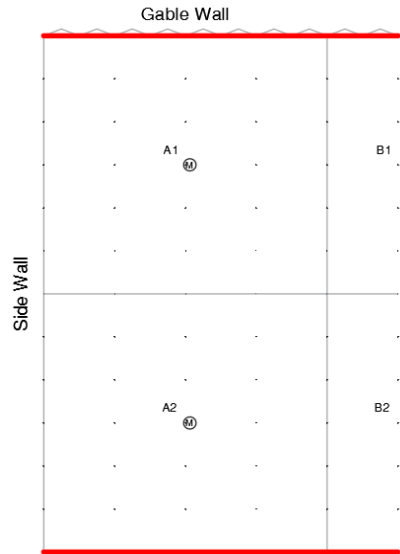
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Mounting ValkDriveTube	ValkDriveTube X-Reduced	D1
Mounting ValkScreenProfile	ValkClip profile	E1
Measure row ValkTrussClips	Standard ValkTrussClips	F1
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Pull wire	Pull wire	H1 - 4
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Coupling ValkScreenProfiles	ValkClip profile	M1
ValkWireGuide	ValkClip	N1
ValkScreenClip	ValkScreenClip - ValkClip	O1
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Screen cloth hangdown	Cloth hangdown - ValkClip	R1 - 6

You have chosen a screen system from Van der Valk horti systems. This manual is a standard manual for specific installation drawings, see project drawings and quotation supplied separately. If you see a QR code in the manual, a movie is available with additional explanation. You can watch this movie by scanning the QR code.

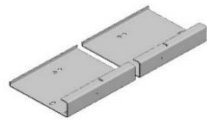
- * This manual is not project specific.
- * This manual is not legally binding.
- * No right may be derived from this installation manual.
- * Consult the cloth and motor supplier manual for installation of their products.
- * The order of installation in this manual is carefully chosen, but could differ depending on the installation tools used.



if you scan or click this QR-code you will be linked to the youtube playlist of all installation movies. you will find a specific QR-code at the page.



Note: The top of the screen strip is equal to the bottom of the trellis top chord.



50.7-.055.----



55.40.20 M8x20



55.40.05 M8



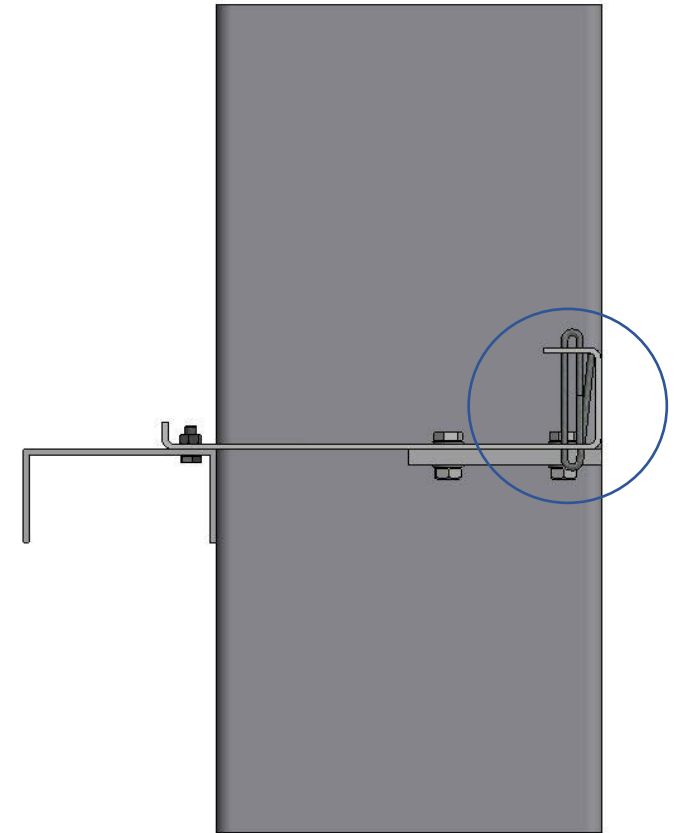
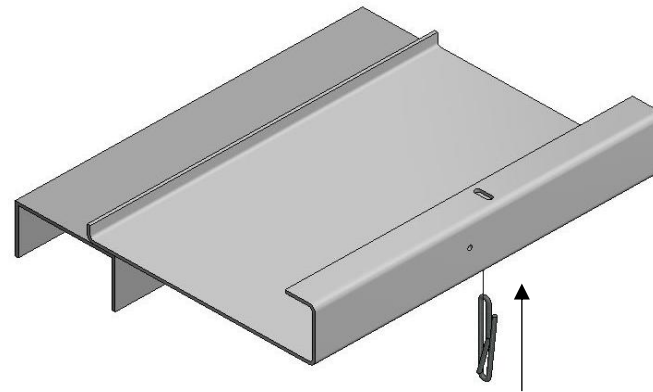
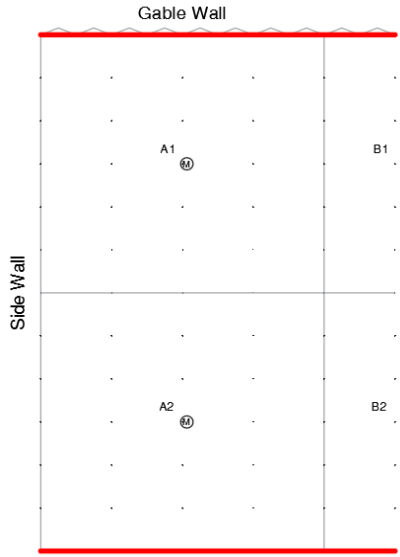
53.55.17 M8



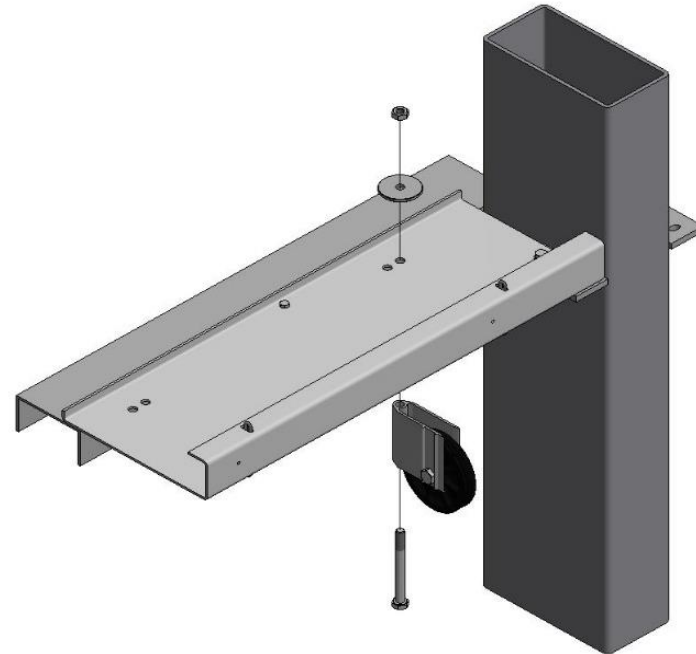
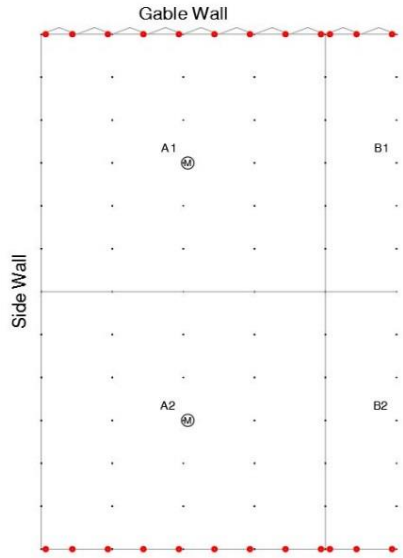
55.30.16 M6x16



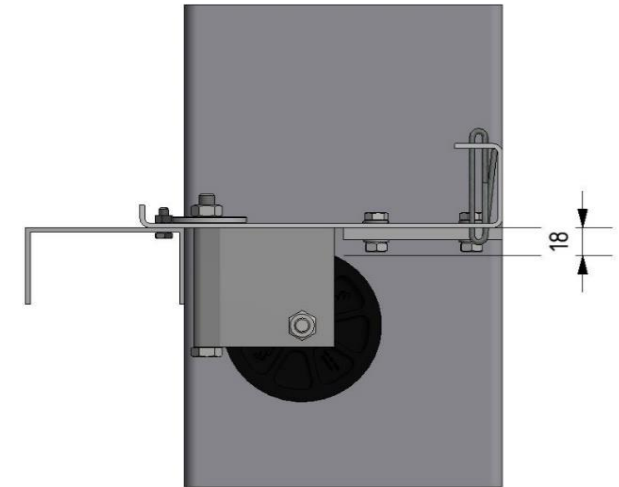
55.30.00 M6



45.81.85



The screen plates are produced with 2 holes for the reversing wheels. Use 1 of the 2 holes.



Note: When using the wire clip, the distance between the bottom of the screen plate and the pull wire is 18 mm.



44.81.30



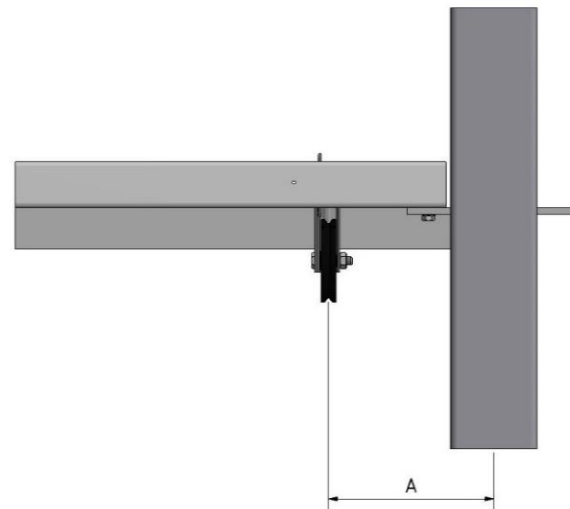
55.51.00 M10x100



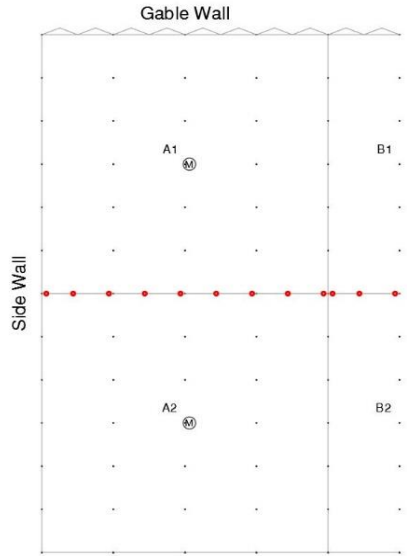
53.55.42 M10



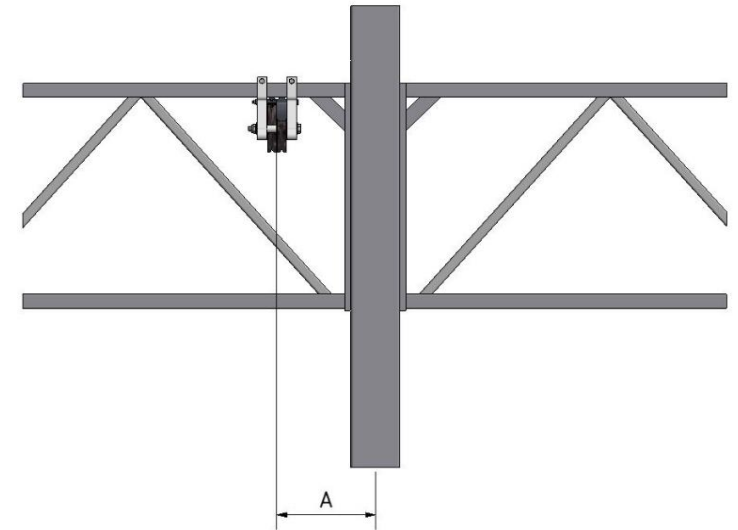
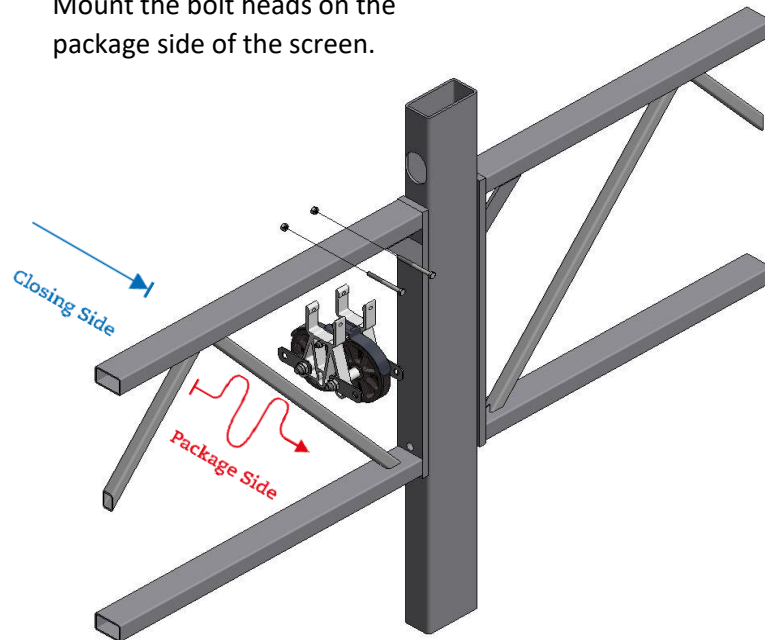
55.50.00 M10



For size A, see project specific file.



Mount the bolt heads on the package side of the screen.



For size A, see project specific file.



(topcord width and height)
44.740.---.---

black



(topcord width and height)
44.750.---.---

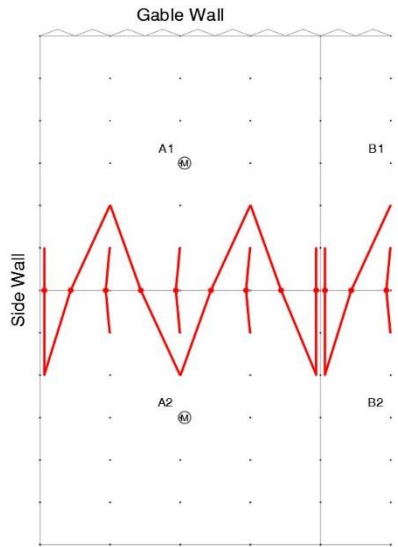
gray



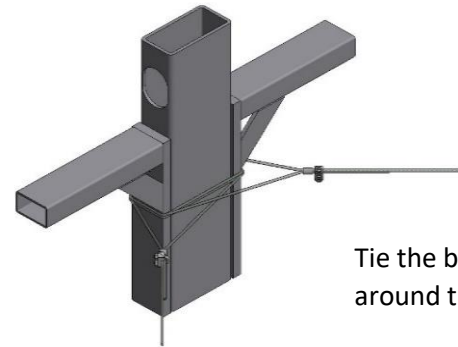
(trellis width + 15 mm)
55.30.--



55.30.00



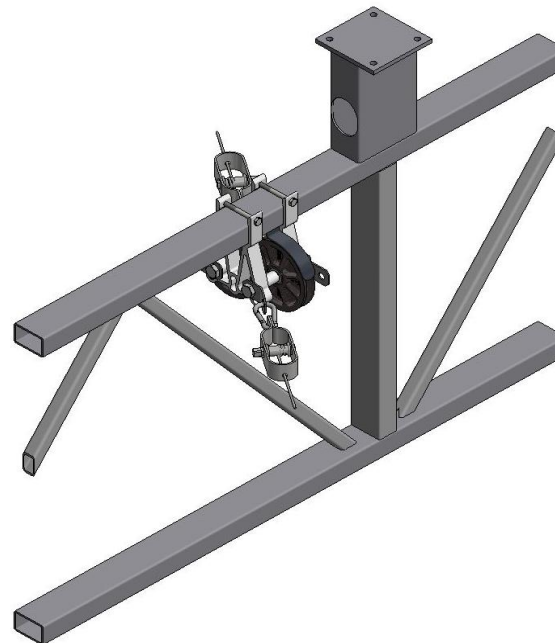
Bracing at the column:



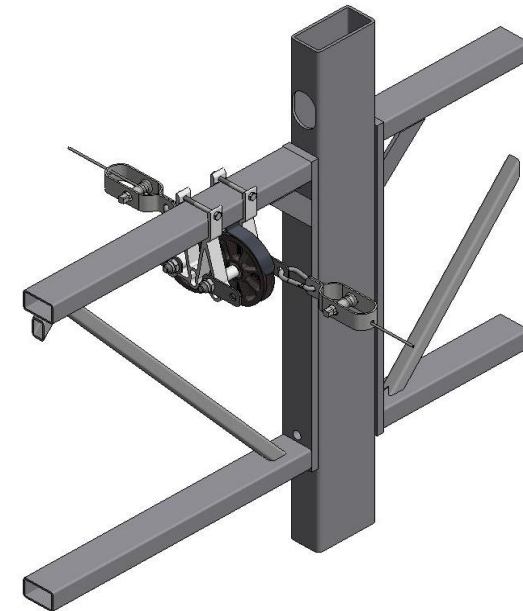
Brace diagonally when the reversing wheel is close to the middle of the trellis.

Brace straight when the reversing wheel is close to the column.

Floating gutter:



Column.



48.10.17



48.80.40



48.80.12

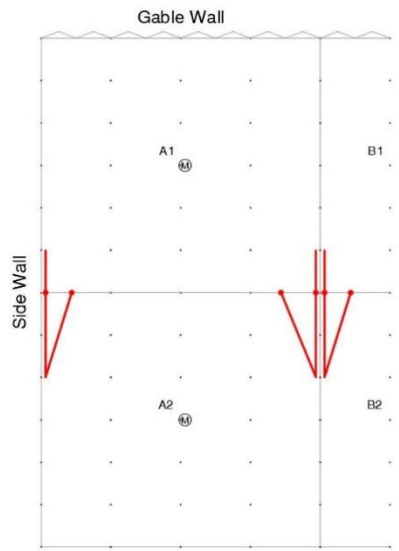


48.80.30

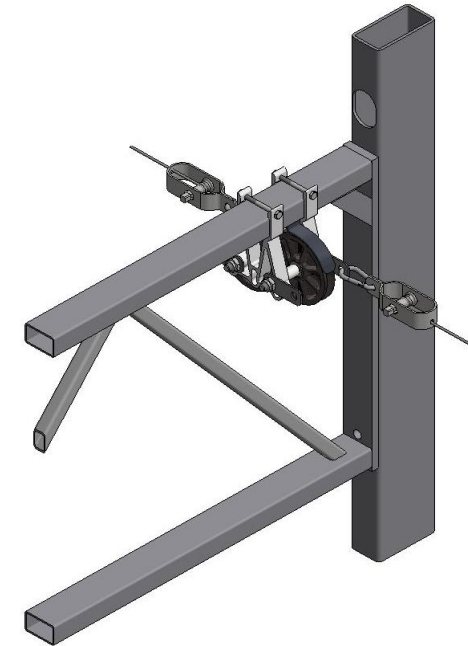
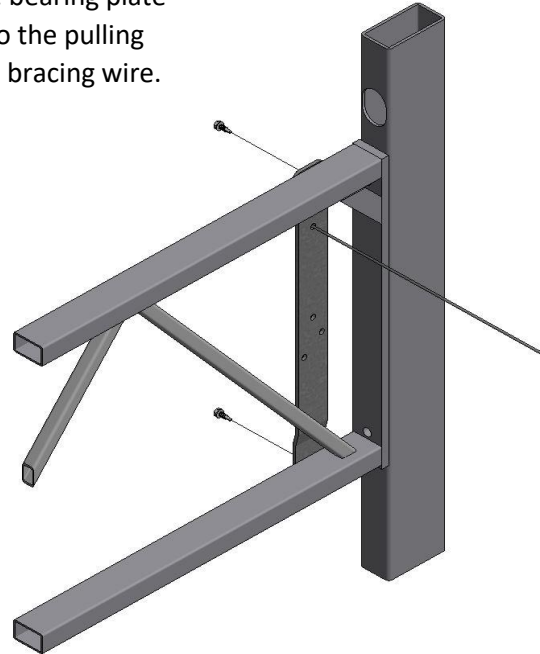


48.80.37

▶ Bracing of ValkReversingWheel at section ends



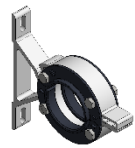
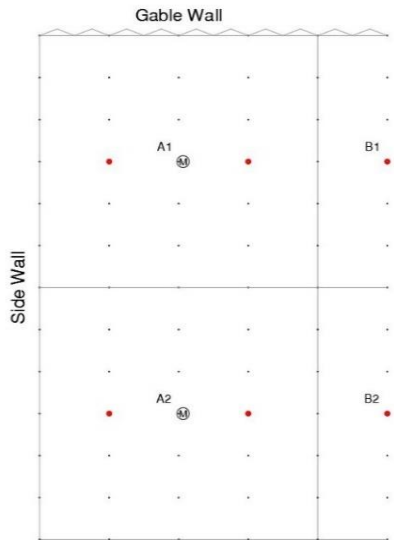
Mount the bearing plate opposite to the pulling side of the bracing wire.



(trellis height)
44.82.10.-----



53.57.20



44.82.16



(column width + 20 mm)
55.40.-- M8x---

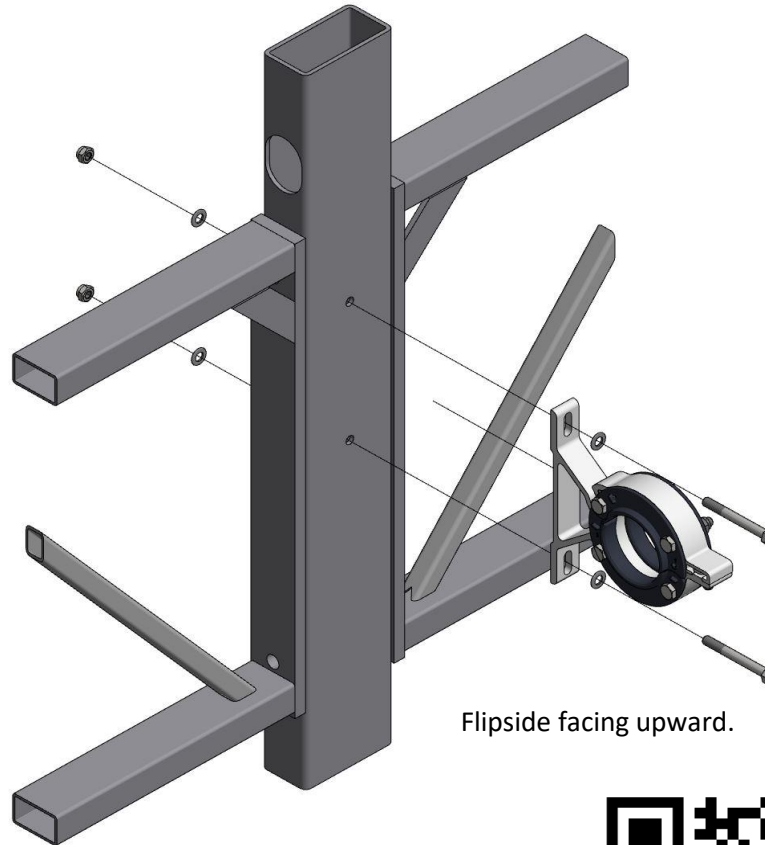


55.40.00 M8



53.55.17 M8

Drill holes $\varnothing 9$ mm in the column.



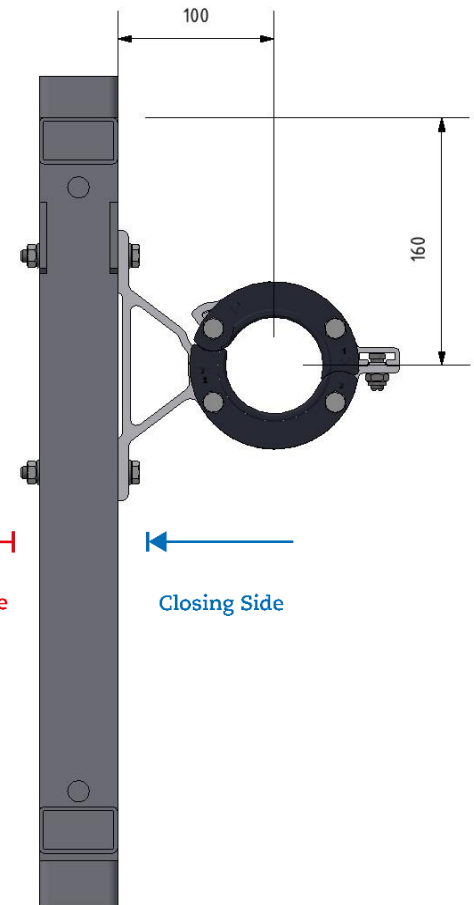
Flipside facing upward.

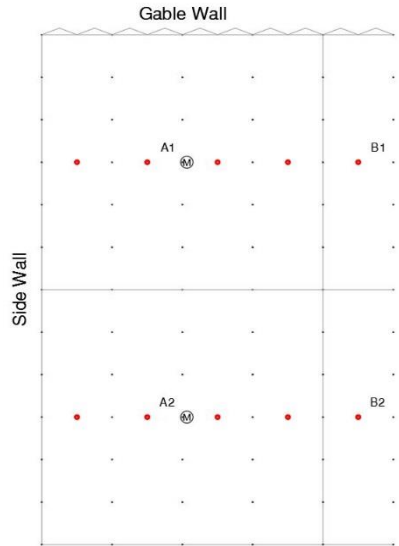


Package Side

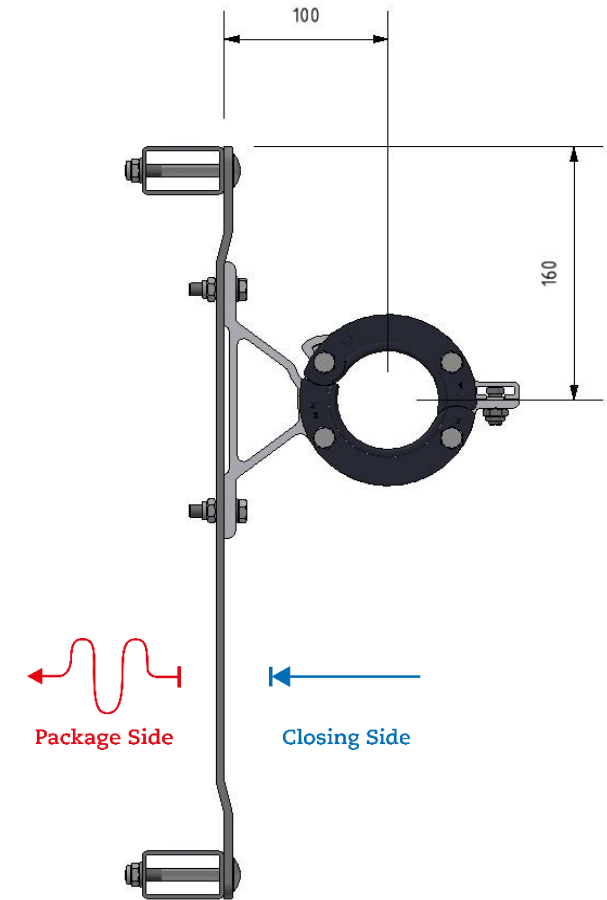
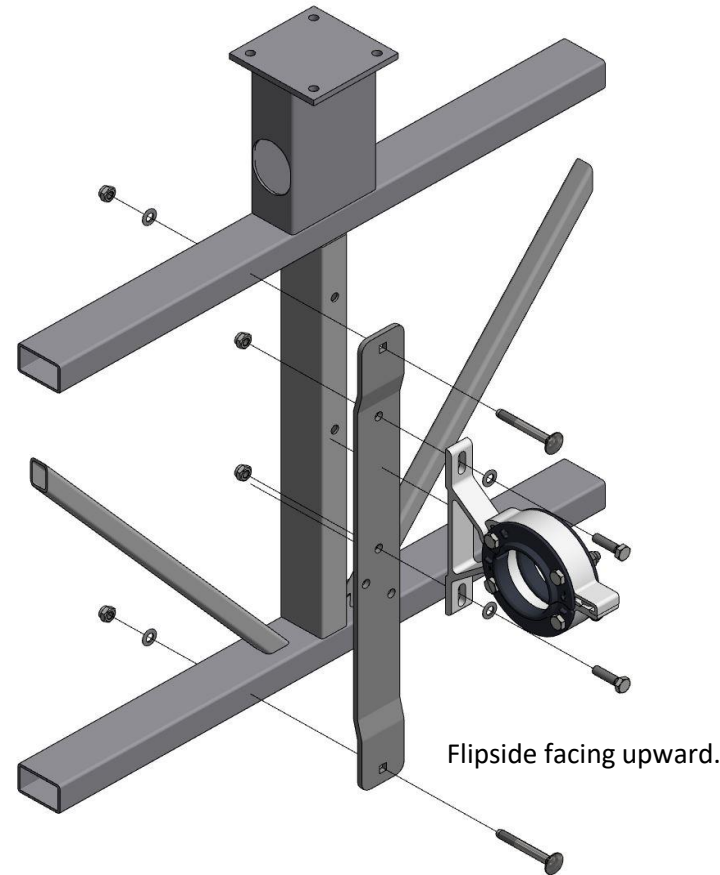


Closing Side





Drill holes $\varnothing 9$ mm in the tube.



44.82.16



(trellis height)
44.82.10.----



(trellis width +15 mm)
53.41.-- M8x--



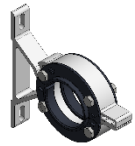
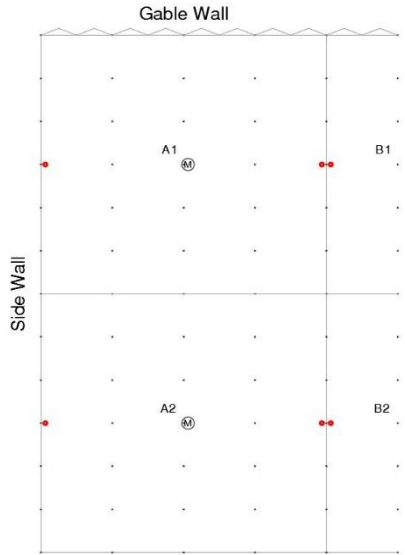
55.40.30 M8x30



53.55.17 M8



55.40.05 M8



44.82.16



(trellis height)
44.82.10.----



(trellis width +15 mm)
53.41.-- M8x--



55.40.30 M8x30



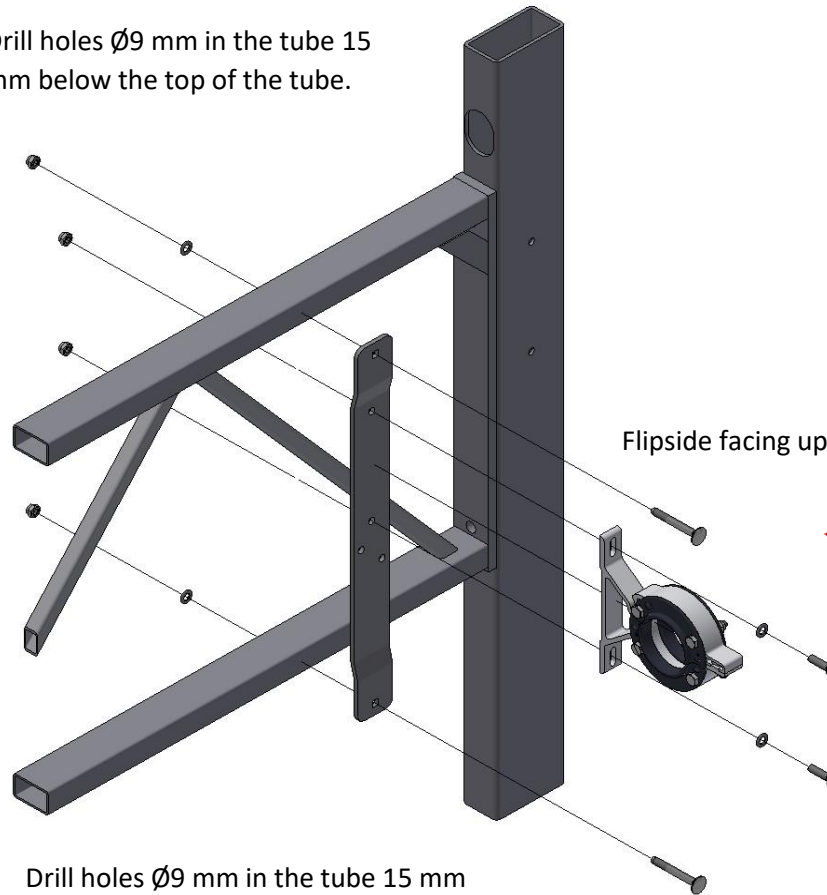
53.55.17 M8



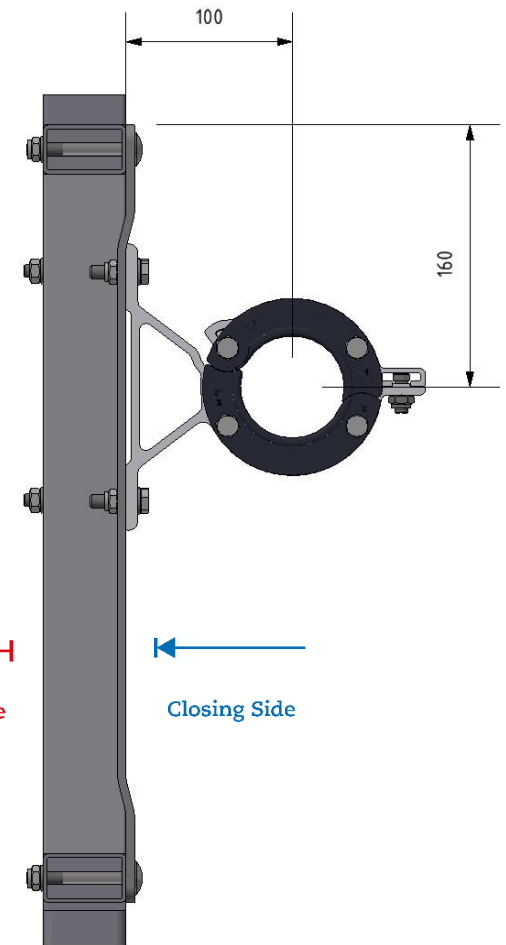
55.40.05 M8

Section end.

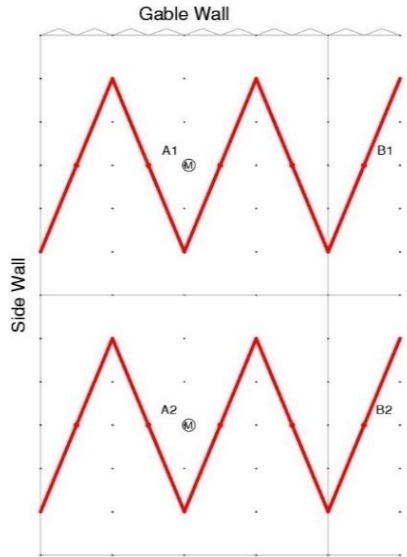
Drill holes $\varnothing 9$ mm in the tube 15 mm below the top of the tube.



Drill holes $\varnothing 9$ mm in the tube 15 mm above the bottom of the tube.



▶ Bracing the ValkBearingBracket at the floating gutter



48.10.17



48.80.40



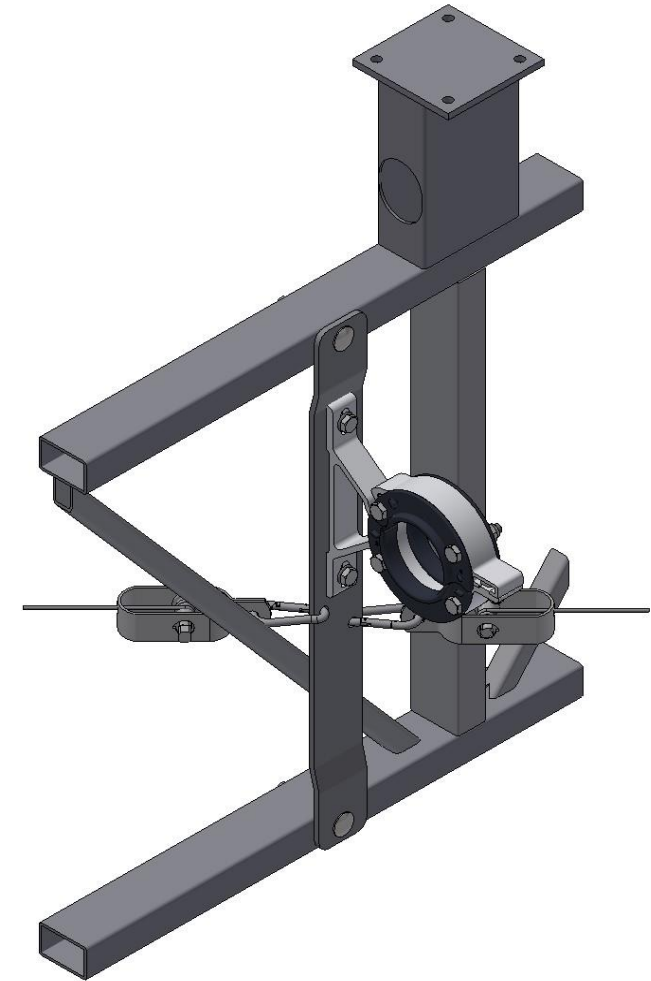
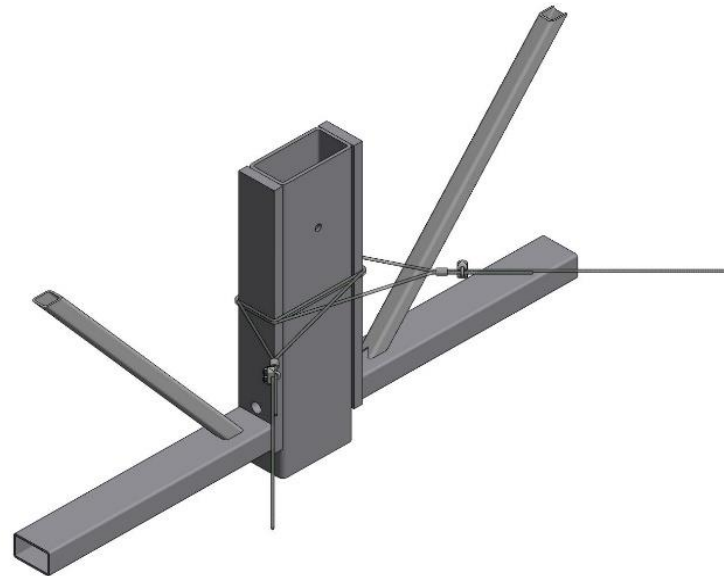
48.80.12

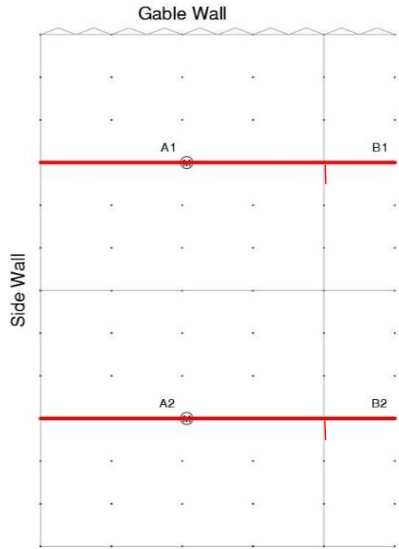


48.80.30



48.80.37

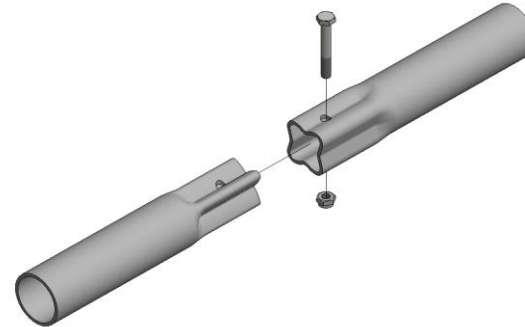




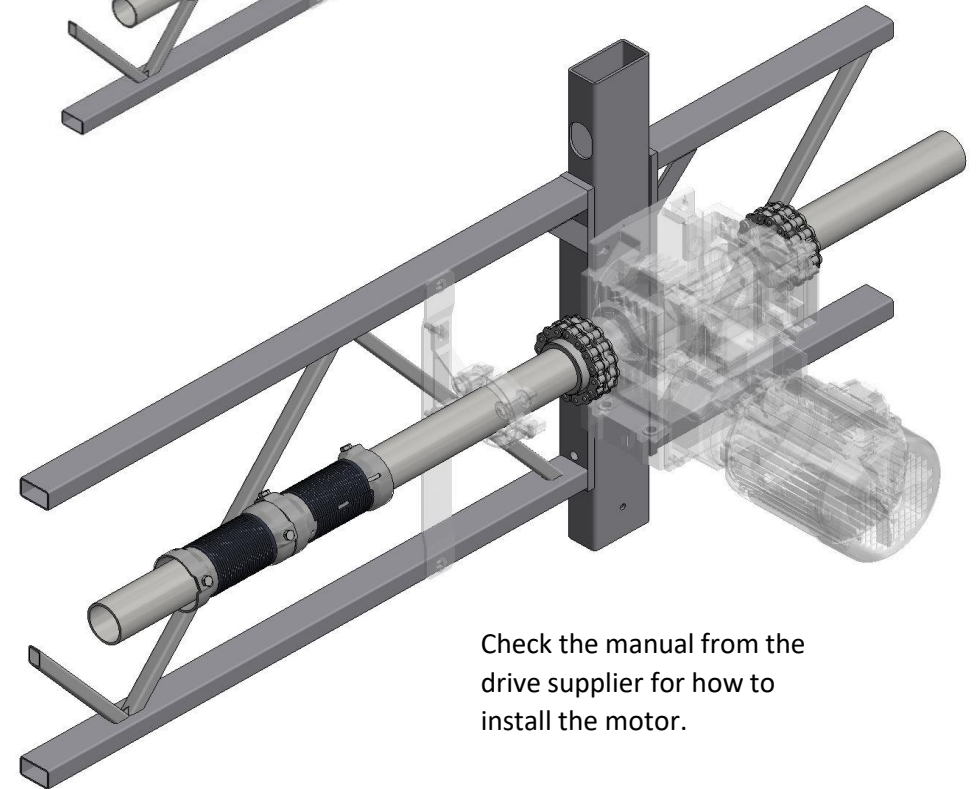
For tightening torque of the wire tensioner see chapter H.



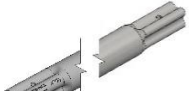








At the section separation use a end cap.

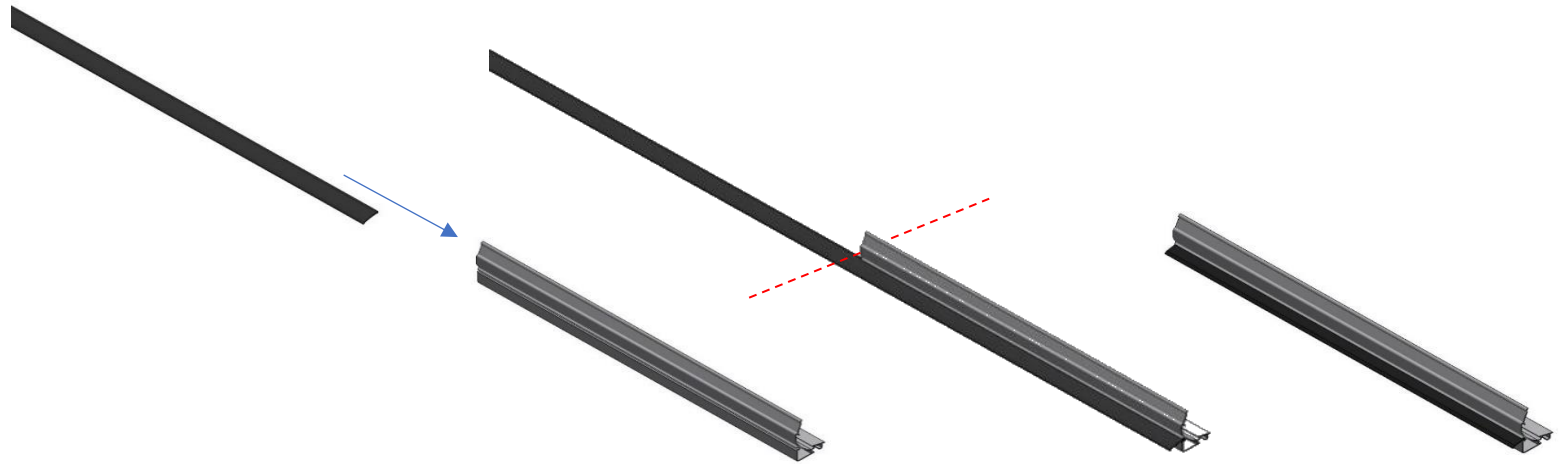
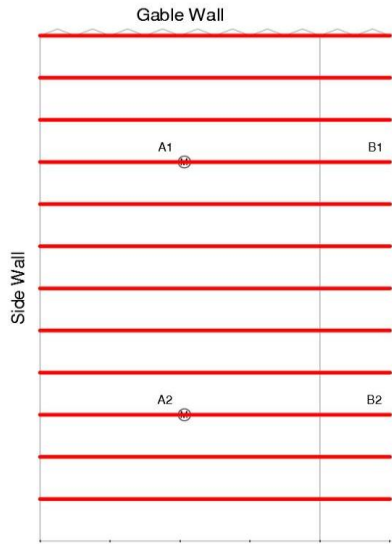


Attention: Slide the wire tensioner on the shaft before installing.

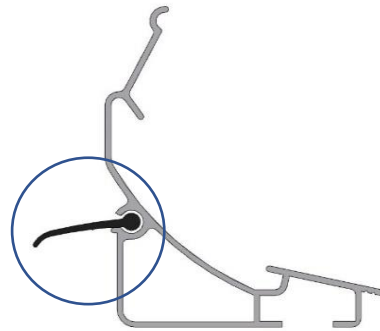


Check the manual from the drive supplier for how to install the motor.

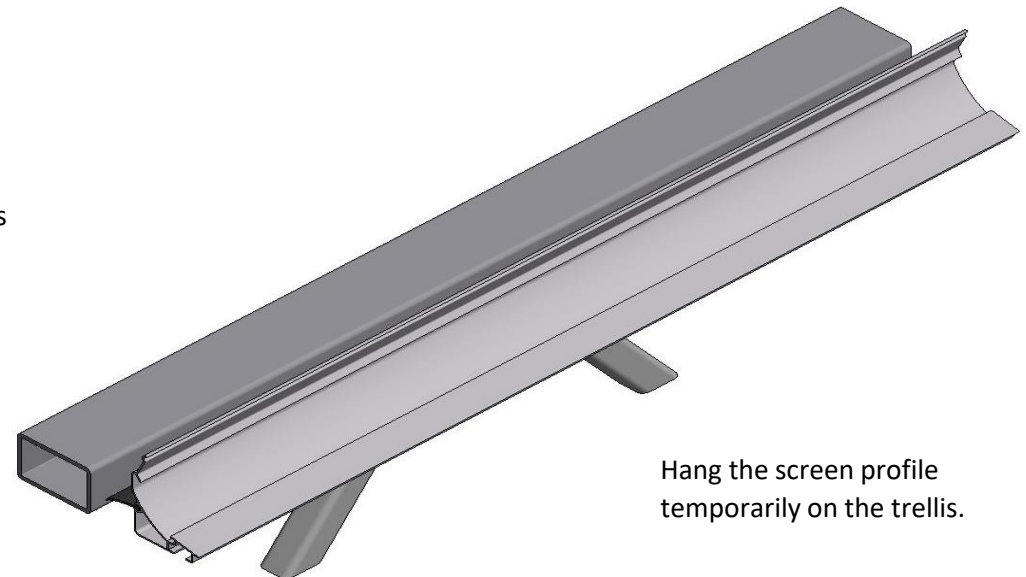
-  50.42.0-----
-  52.8--85-----
-  52.8--86-----
-  44.80.34-W
-  53.25.20 M8
-  55.40.16 M8x16
-  55.50.60 M10x60
-  55.50.05 M10
-  44.16.60



Insert and cut the rubber sealing strip before installing the profile.



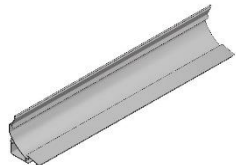
Make sure the rubber sealing strip is pointing downwards.



Hang the screen profile temporarily on the trellis.



44.10.15



(profile length)

43.10.-----

ValkClip 45 mm



(profile length)

43.15.-----

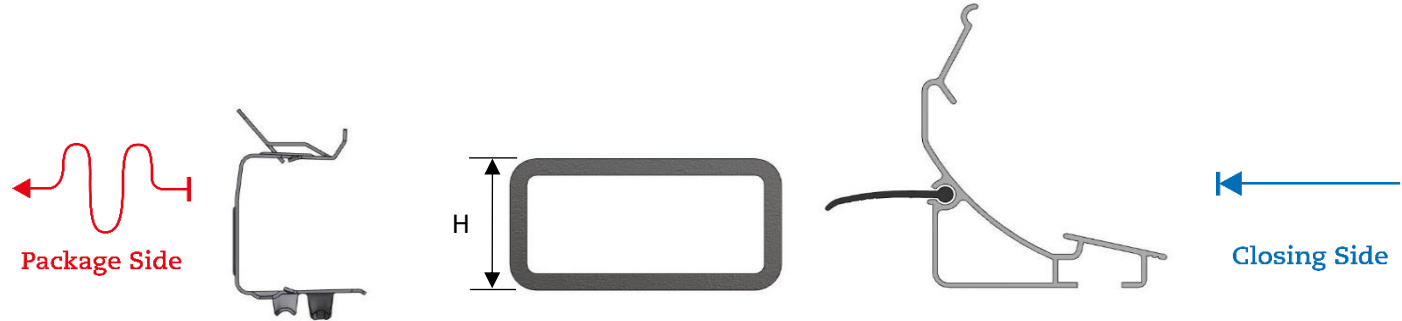
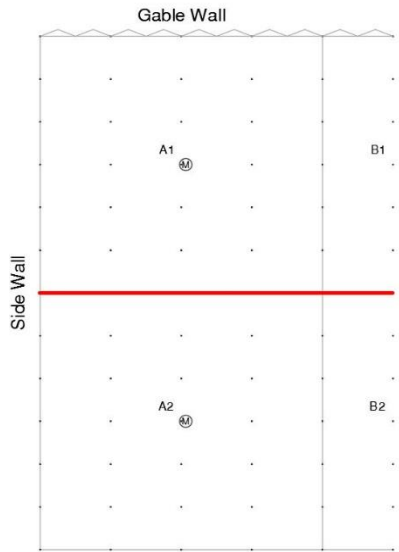
ValkClip 54 mm



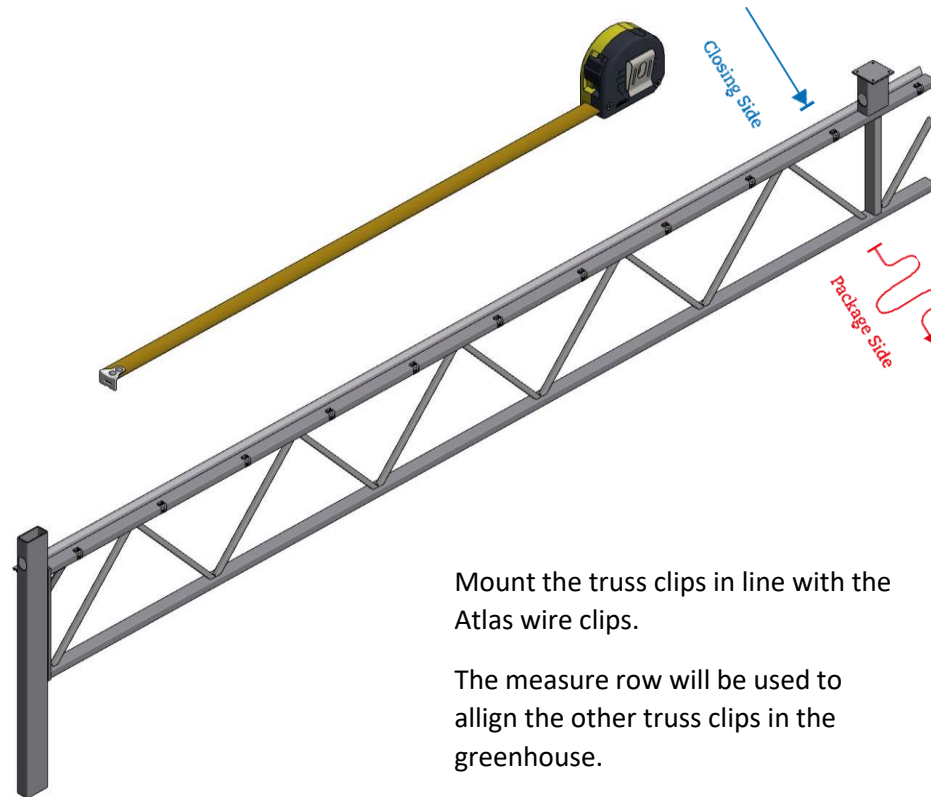
(profile length)

43.16.-----

ValkClip 65 mm

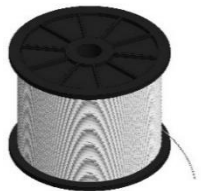
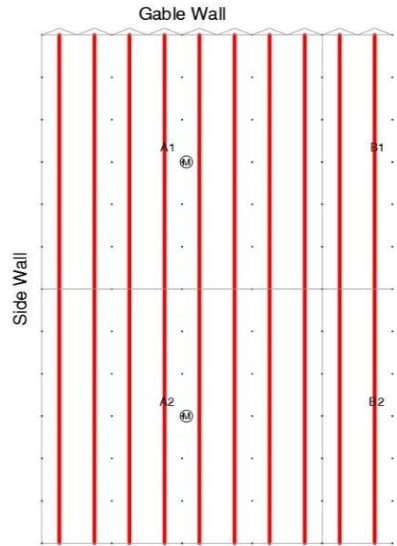


H + 2 mm
45.20.--

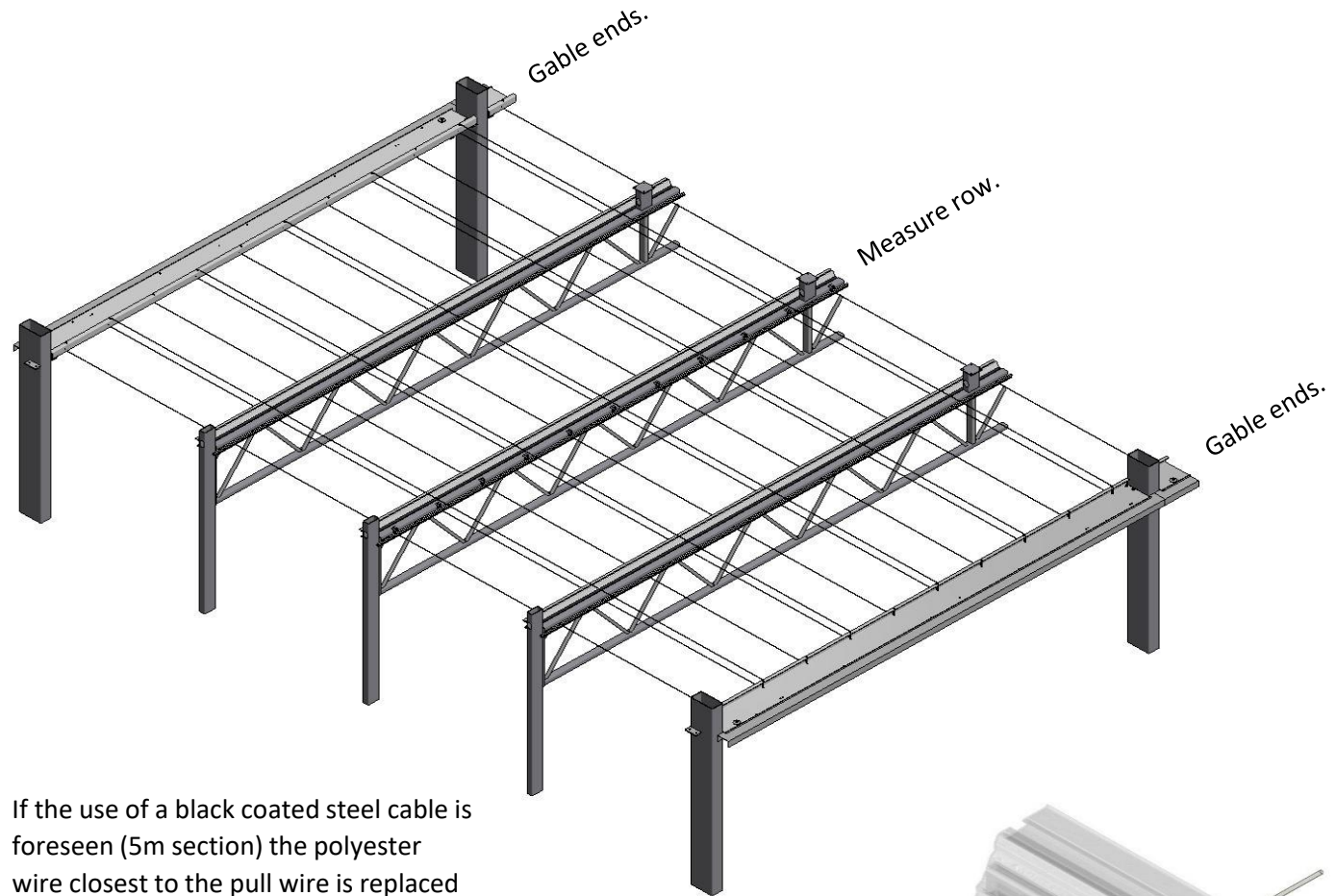


Mount the truss clips in line with the Atlas wire clips.

The measure row will be used to align the other truss clips in the greenhouse.

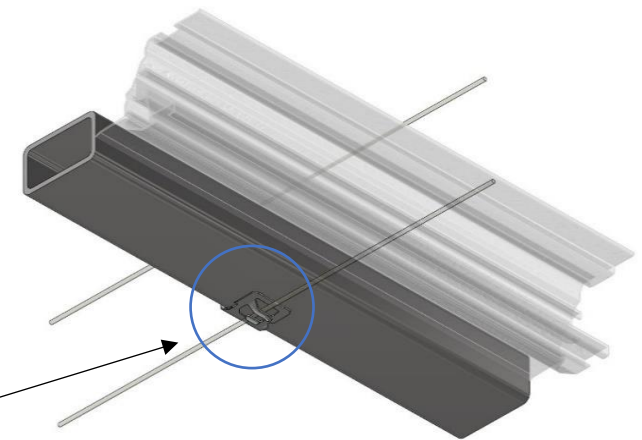


48.50.30

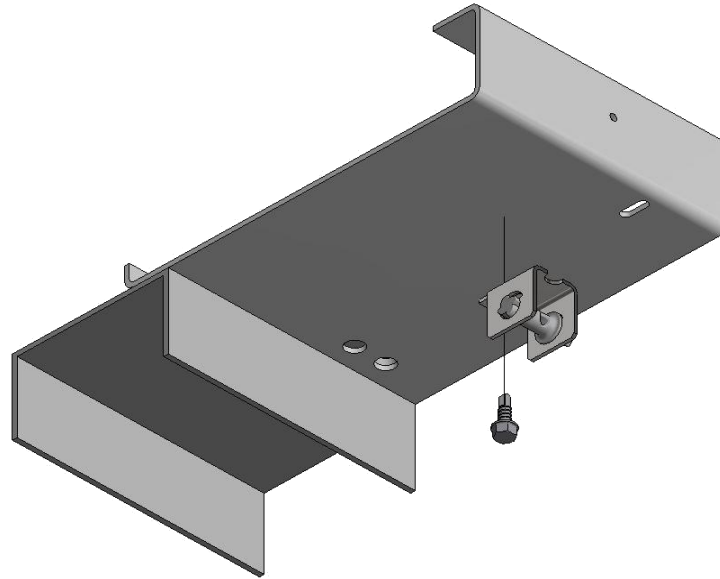
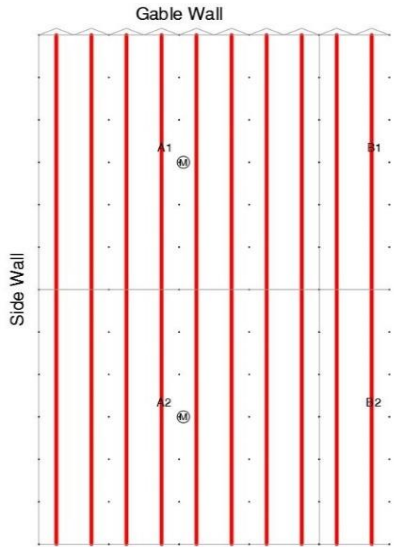


If the use of a black coated steel cable is foreseen (5m section) the polyester wire closest to the pull wire is replaced by this cable. (see next page)

"Click" the polyester wire in the truss clip at the measure row.



▶ Extra black coated steel support cable



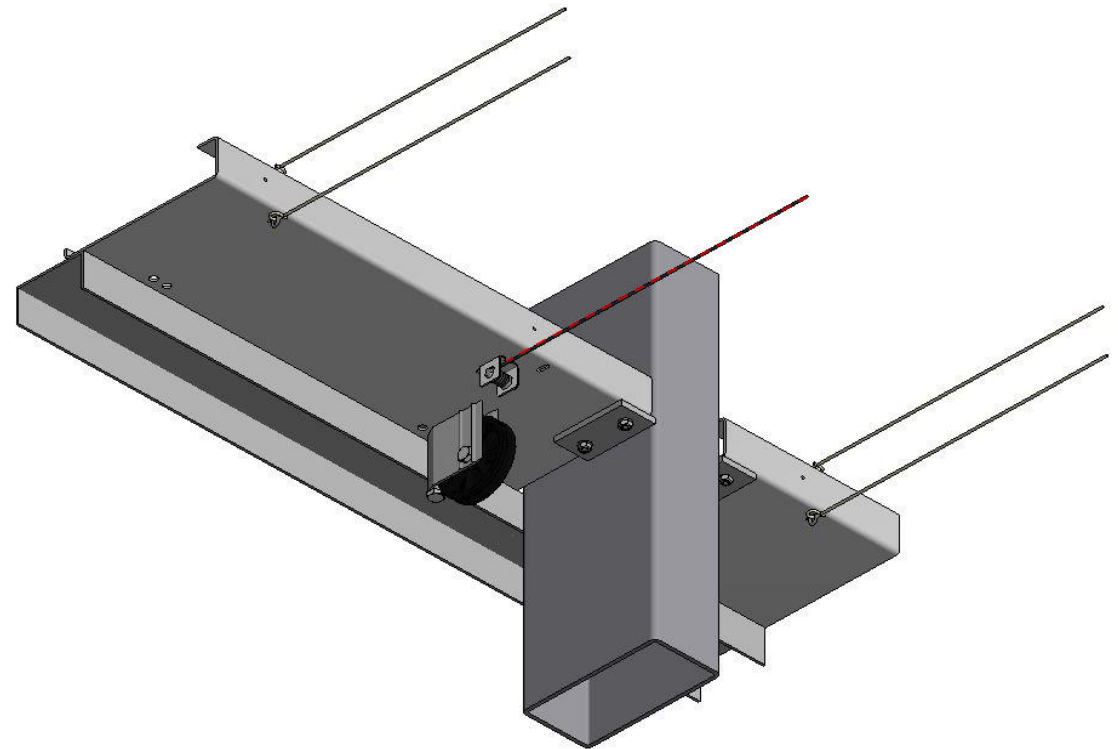
48.20.15



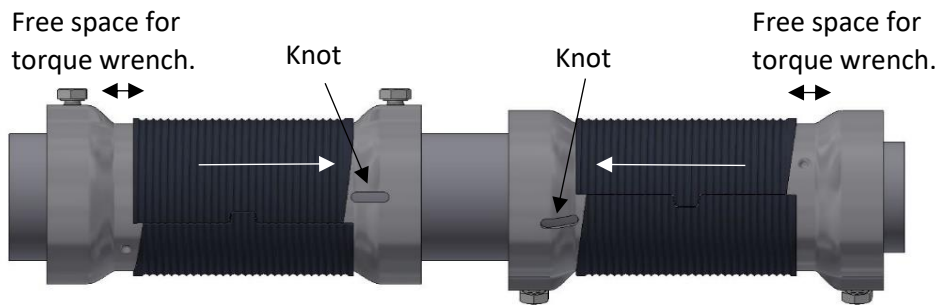
48.80.10



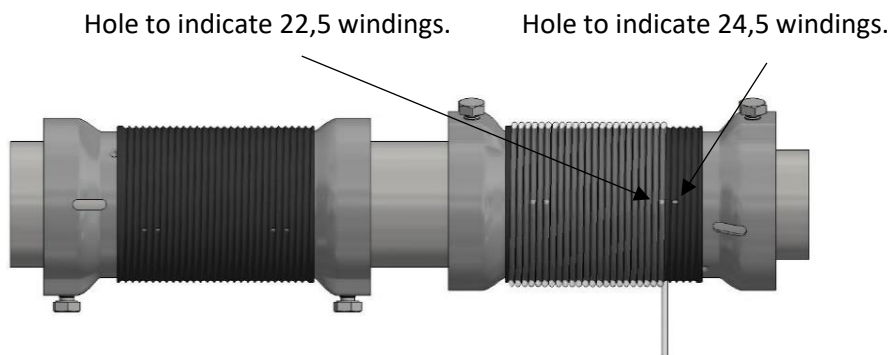
53.57.20



1. Make sure that the plastic cable drum is moved to the side where the knot will be placed, this to make sure there is enough space on the other side for the torque wrench.

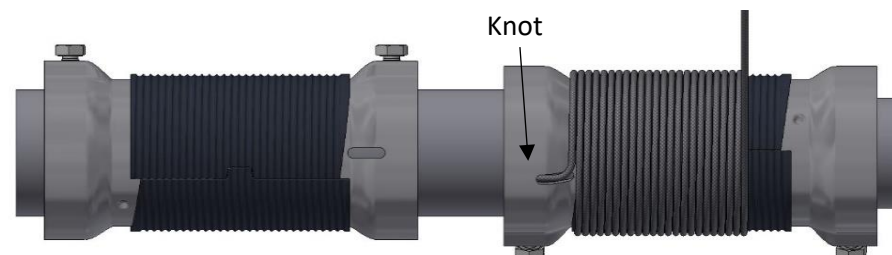


2. The holes in the plastic cable drum stand for how much wire needs to be on the wire tensioners at a certain section size.

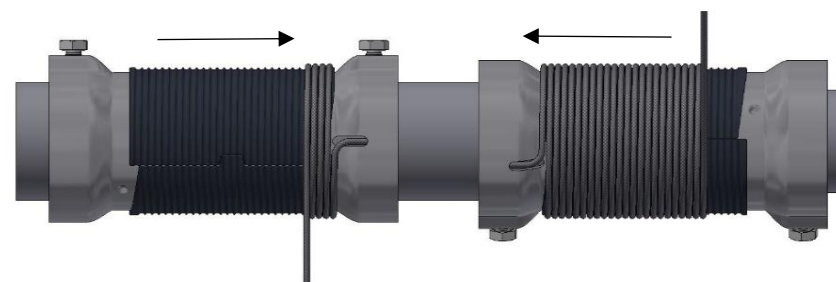


Section size [mm]	No. of windings on wire tensioner 1	No. of windings on wire tensioner 2
3200	3,5	17,5
3658	3,5	19,5
4000	3,5	20,5
4500	3,5	22,5
5000	3,5	24,5

3. Tie a knot at the end of the wire and place the required number of windings on the ValkWireTensioner.



4. Slide the ValkWireTensioners together in such a way that the knots are hidden between the tensioners.



5. Finally, the wire should be wound on the ValkWireTensioner as shown in the picture below.



For the required wire tension, see page H2 and H3



61.16.11



61.16.12



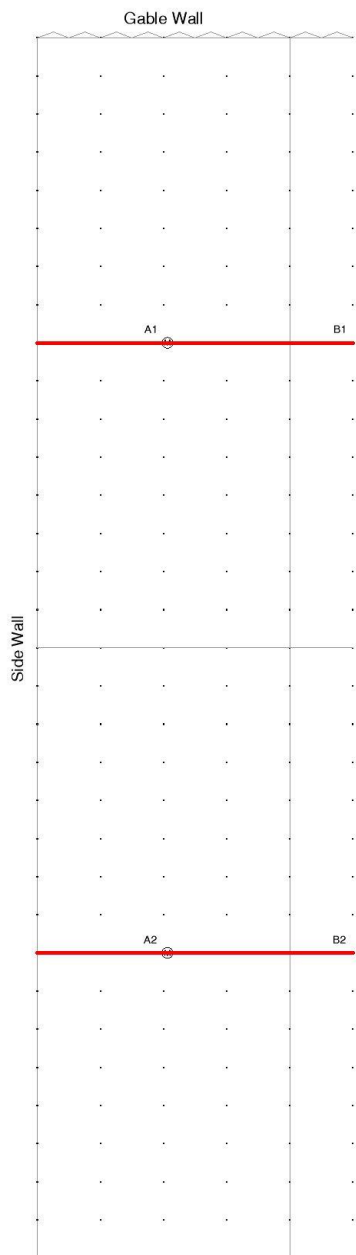
61.16.15

The tools listed above are optional and not standard provided with a screen system. You could order them at Van der Valk Systems.



Place the torque wrench 61.16.11 next to the ValkWireSleeve on the remaining piece of the ValkWireTensioner.

For the required wire tension see page H3.



ValkKliMax green has a max. skid force of 3 kg.
 ValkKliMax blank has a max. skid force of 6 kg.
 ValkKliMax red has a max. skid force of 9 kg.

In the neutral position (= mounting position) there should be a certain pre-tension applied.

This pre-tension is of great importance for the correct operation of the system.

The pre-tension depends on the number of ValkKliMax's on one steel cable.

Calculated Cable tension [kg]	Moment to set on torque wrench [Nm]
40	20
50	25
60	30
80	40
100	50
130	60

$$\text{Cable pre-tension} = \frac{(\text{number of ValkKliMax's} \times \text{max. skid force})}{2} + 20 \text{ kg}$$

Example: See greenhouse on the left with 16 sections of a blank ValkKliMax.

$$\text{Cable pre-tension} = \frac{(16 \times 6 \text{ kg})}{2} + 20 \text{ kg} = 68 \text{ kg}$$

The torque wrench must be set approximately to 35 Nm. (see table)

Attention:

When adjusting the motor in the screen system, ensure that 20 cm of pull cable is fed through the ValkKliMax's when closing the system and when forming the screen package.



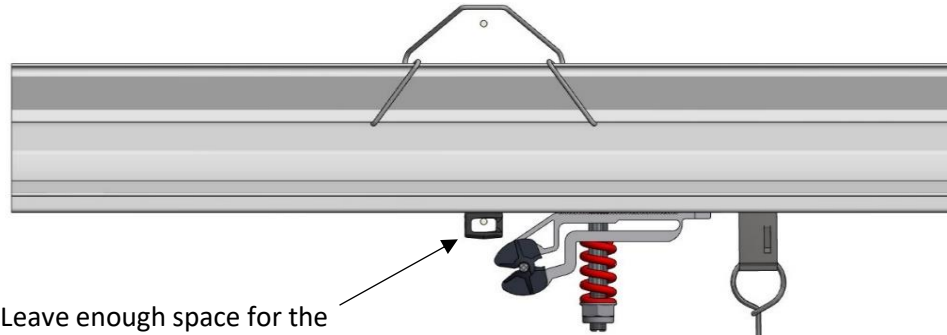
3 kg



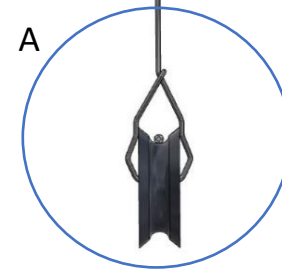
6 kg



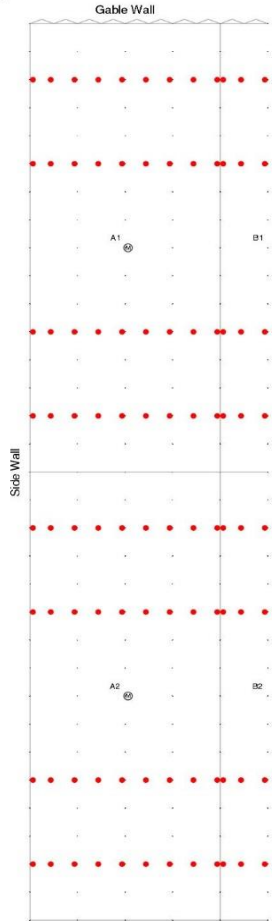
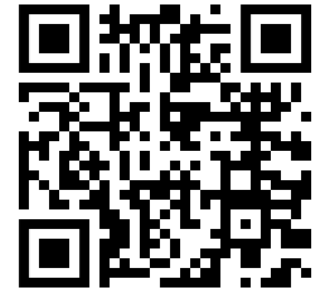
9 kg



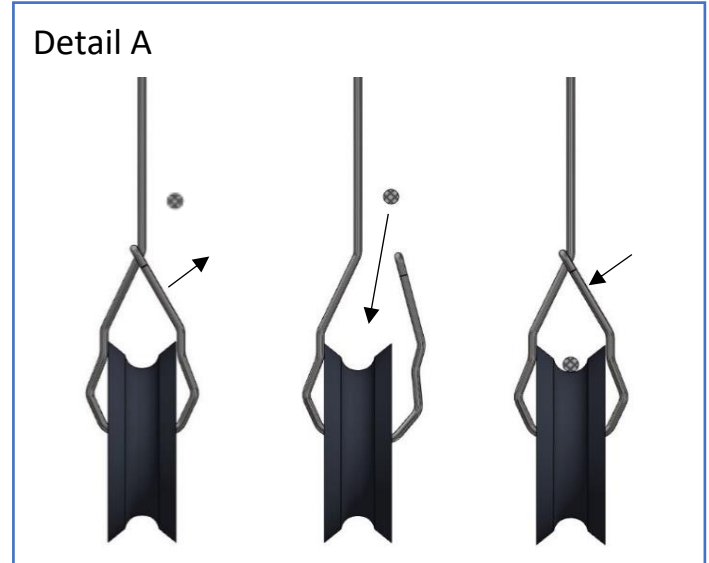
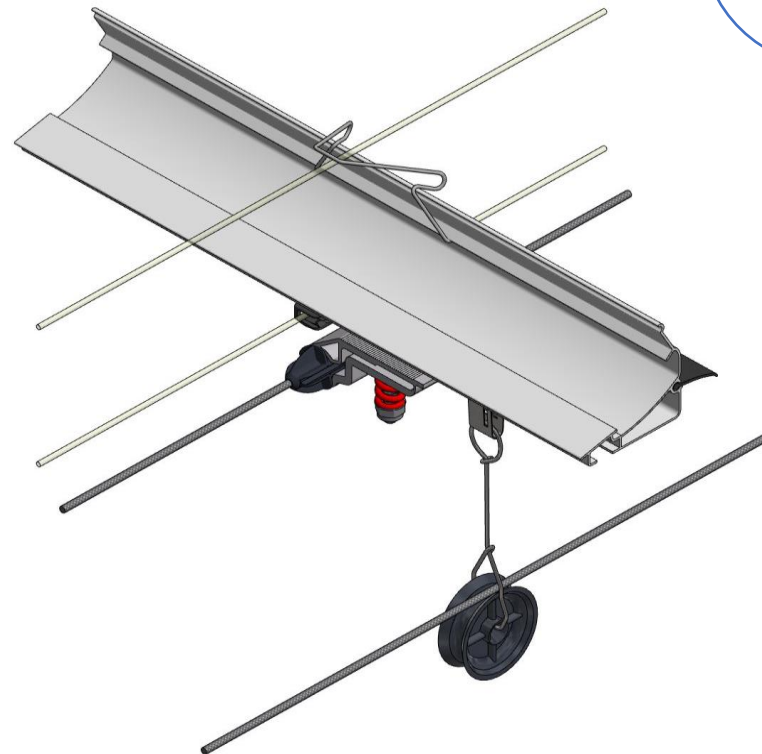
Leave enough space for the ValkWireGuide to slide.



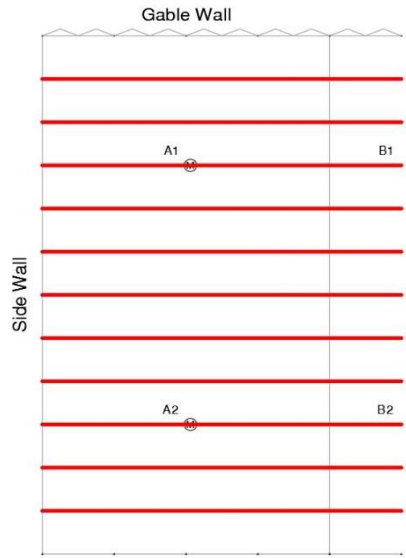
The return wire in the ValkPulley is designed to swing.



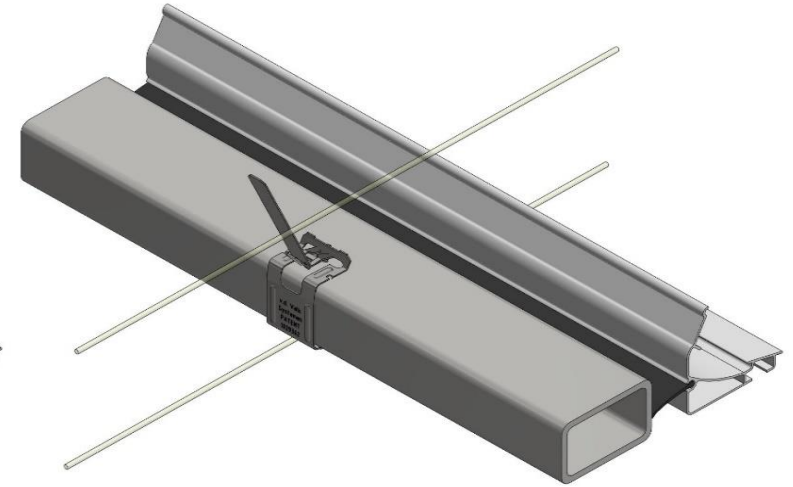
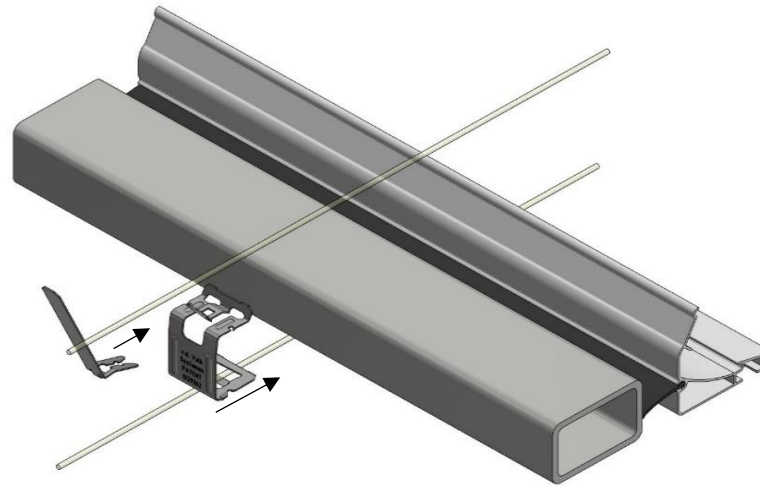
Mount the ValkPulley every 3rd section.



44.27.77



Note: Section J till P could be installed in one sitting.



1. Slide the truss clip on the cord of the trellis.
2. 'Click' the cloth stop finger on the truss clip.
3. Check if the stop finger is used every truss clip.

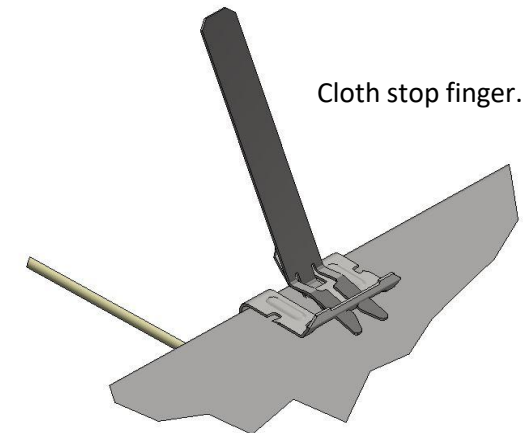
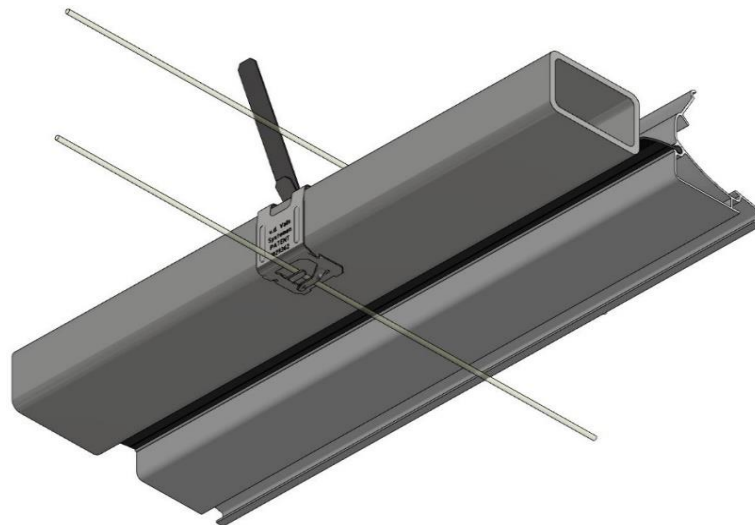
Note: Make sure the polyester wire is in the bottom of the truss clip.



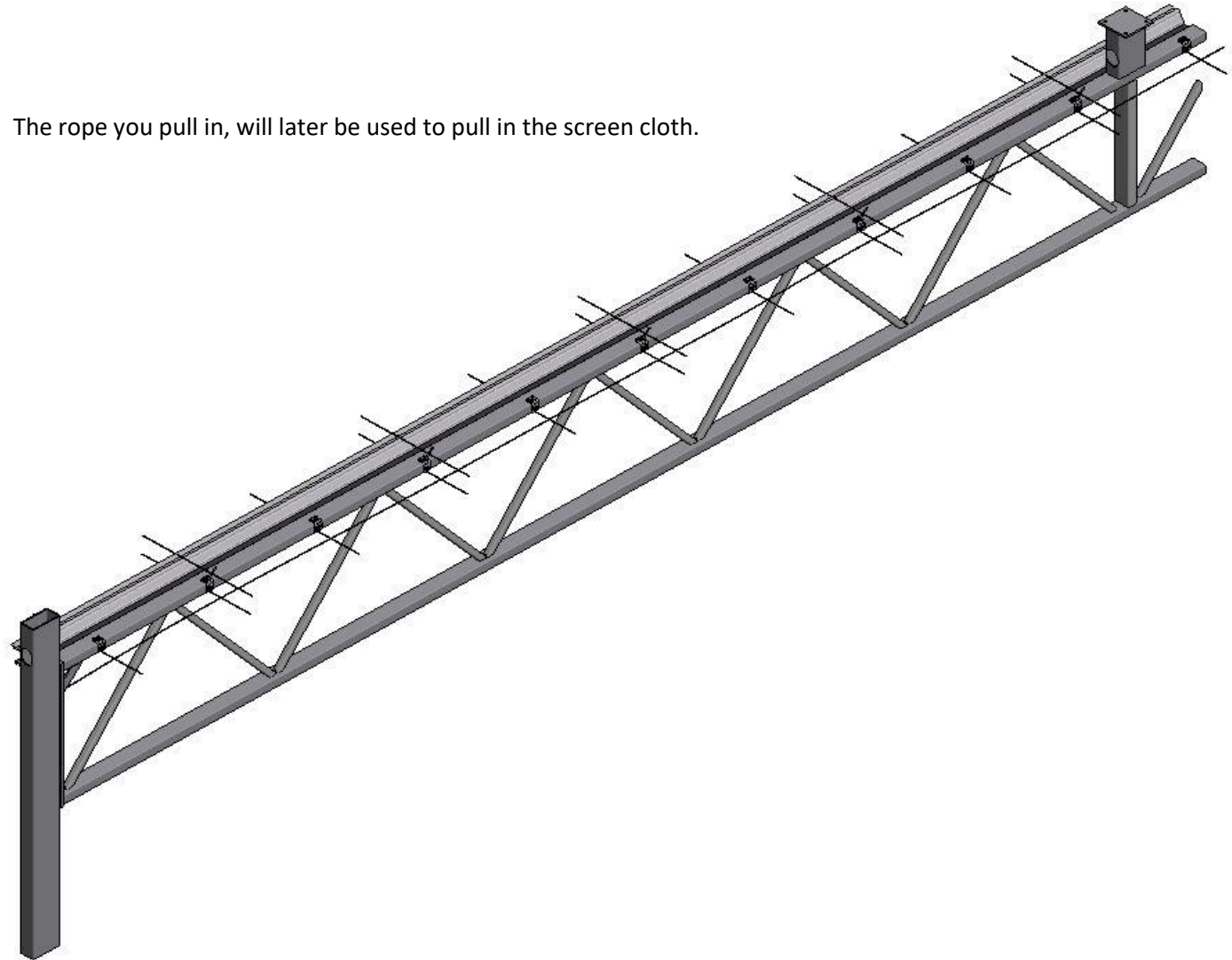
H + 2 mm
 45.20.--



45.22.10

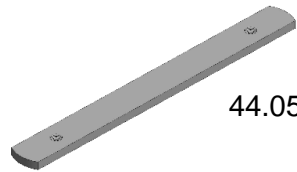
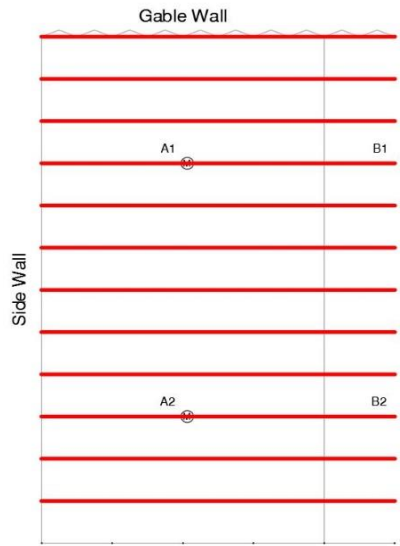


The rope you pull in, will later be used to pull in the screen cloth.



48.55.03

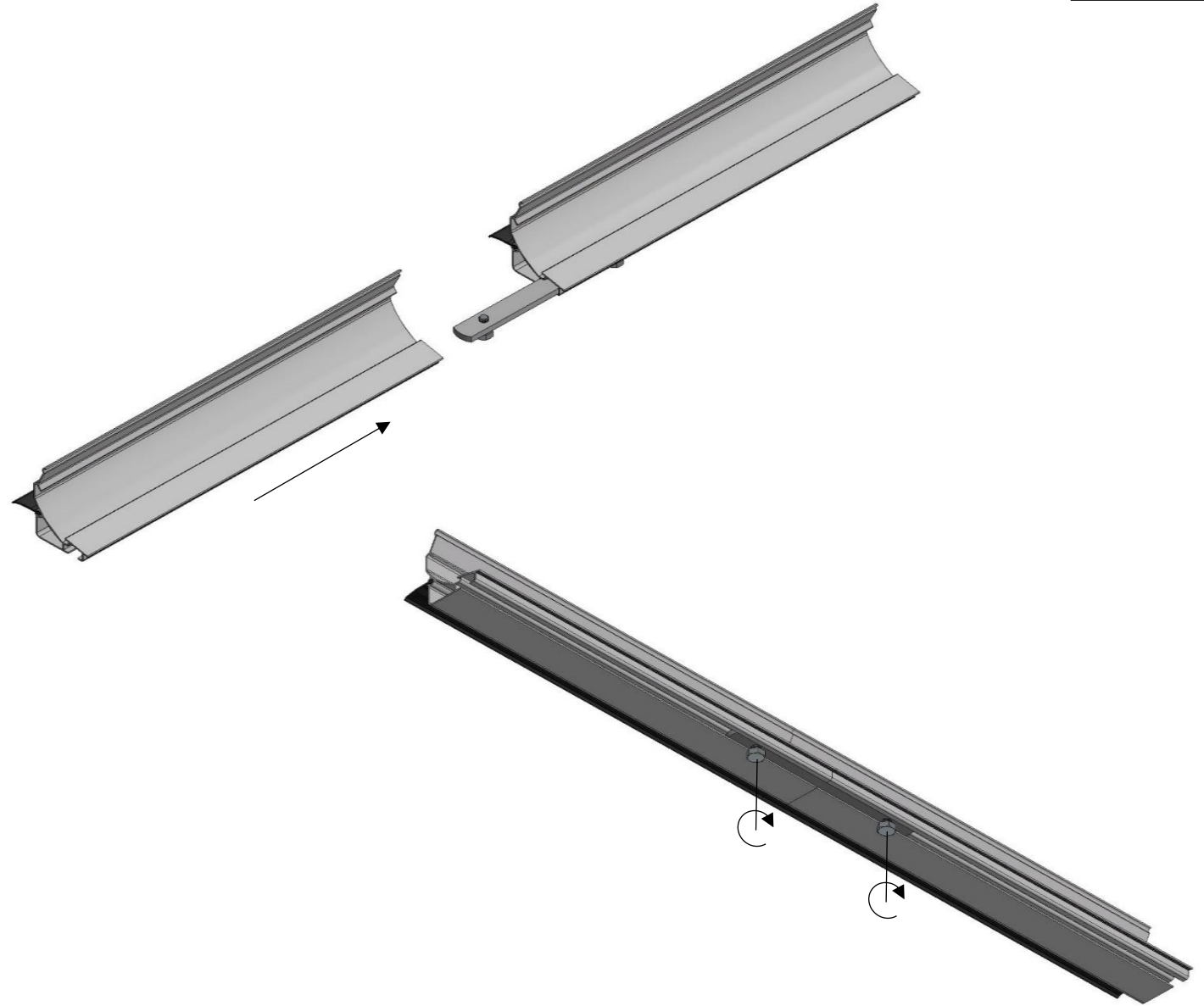
▶ Coupling ValkClip profile

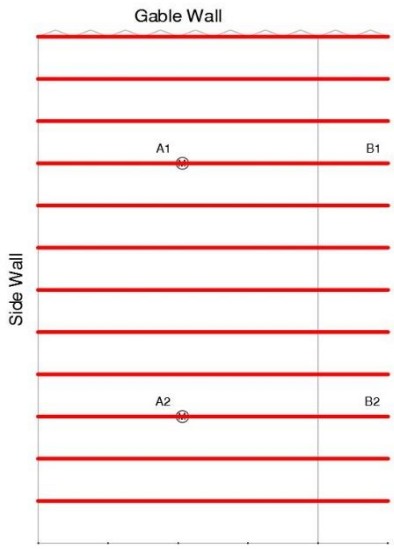


44.05.10

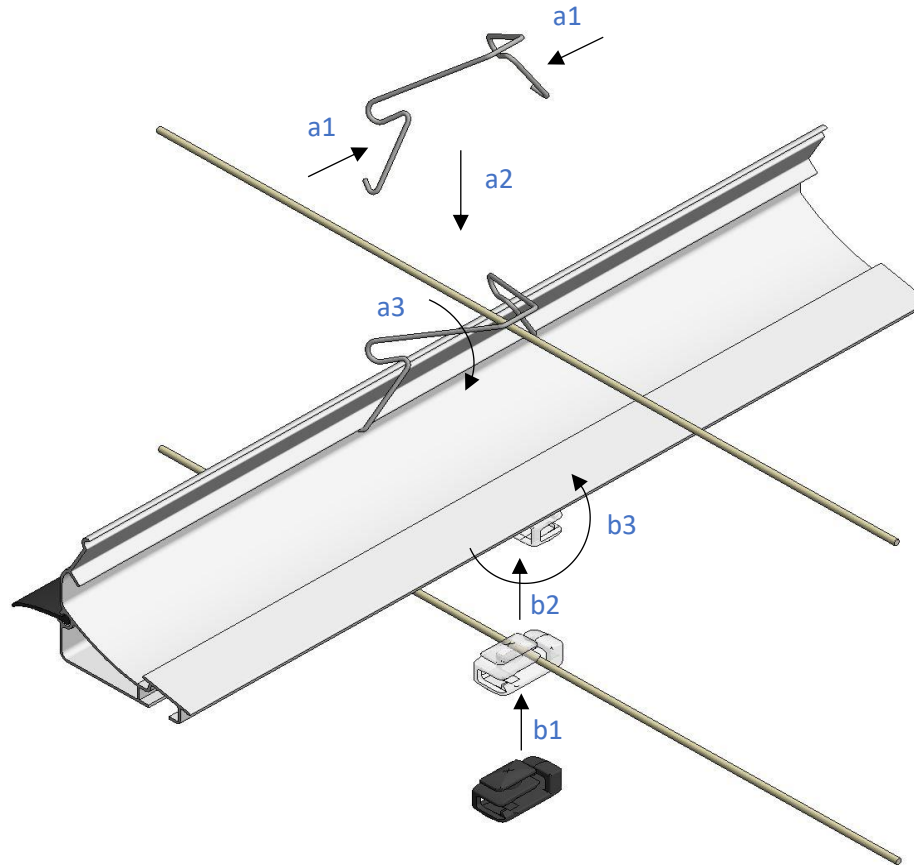


55.30.10 M6x10





- a1. Bend the two edges of the clip inward.
- a2. Place the clip on top of the profile and over the wire.
- a3. Turn the clip and snap the edges of the clip under the edge of the profile.



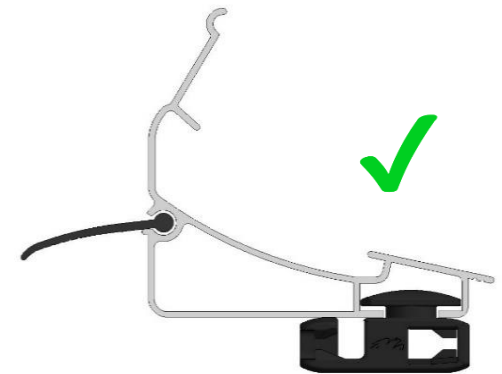
- b1. Slide the ValkWireGuide on the polyester wire.
- b2. Insert the ValkWireGuide in the profile chamber.
- b3. Turn the ValkWireGuide until the wire 'clicks' in the ValkWireGuide, make sure the opening is on the correct side (see the pictures on the right).



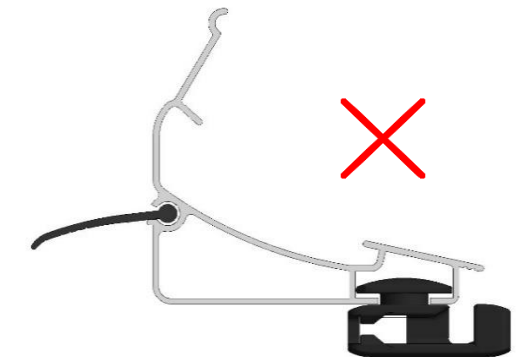
44.15.27

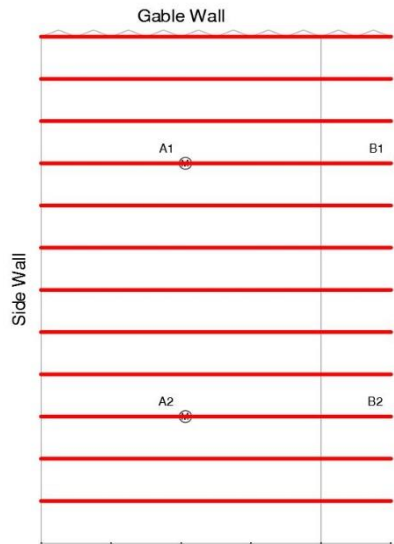


45.15.15

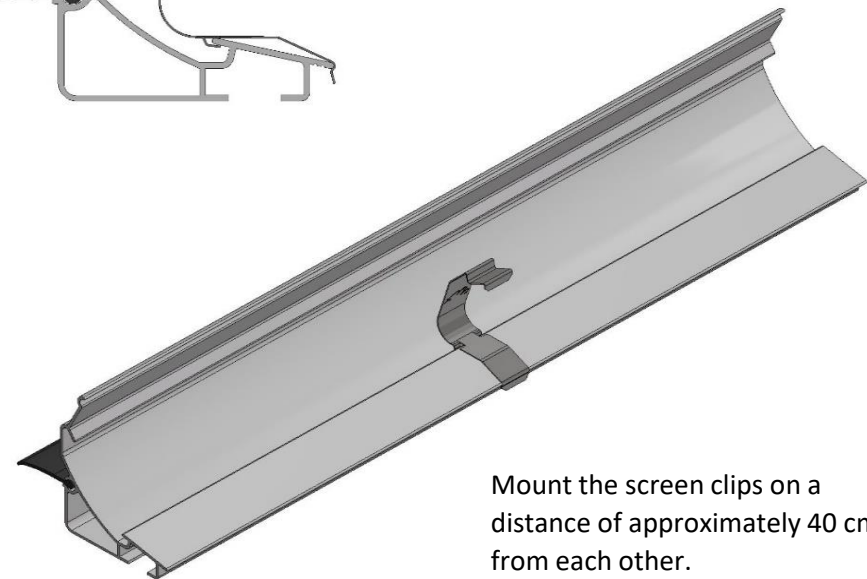
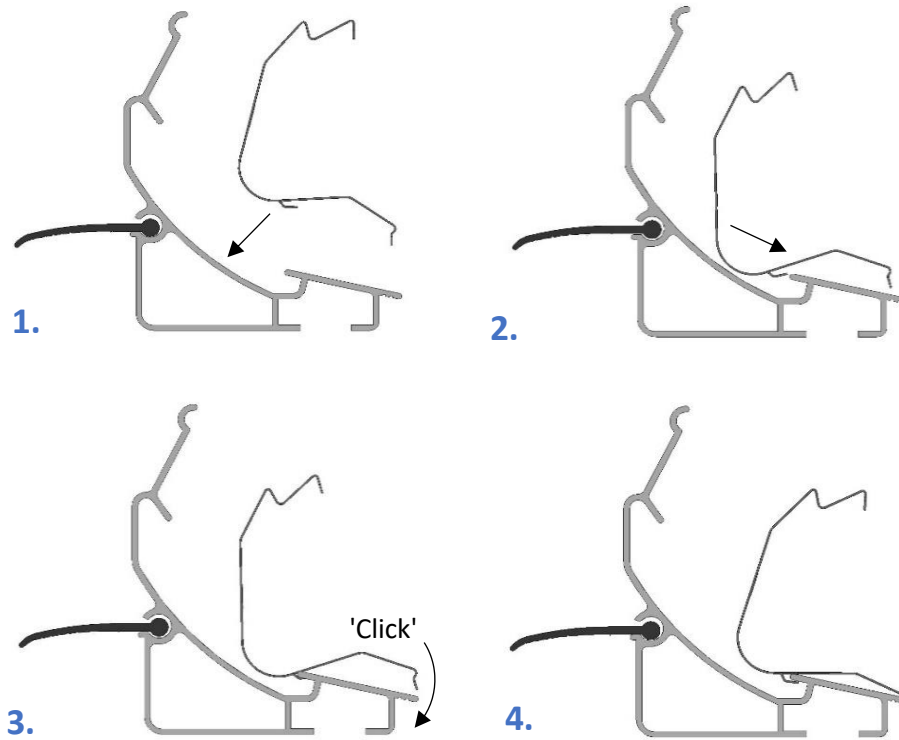


Mount the ValkWireGuide with the opening as shown.

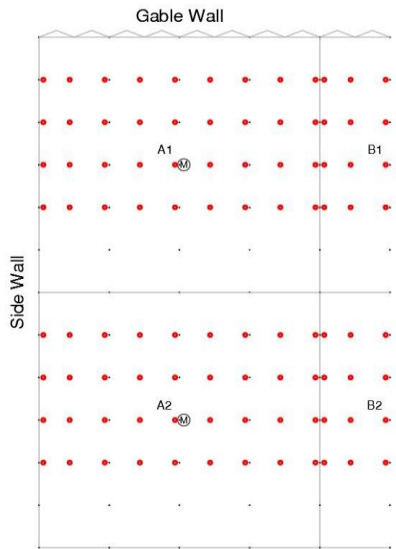




45.25.10



Mount the screen clips on a distance of approximately 40 cm from each other.



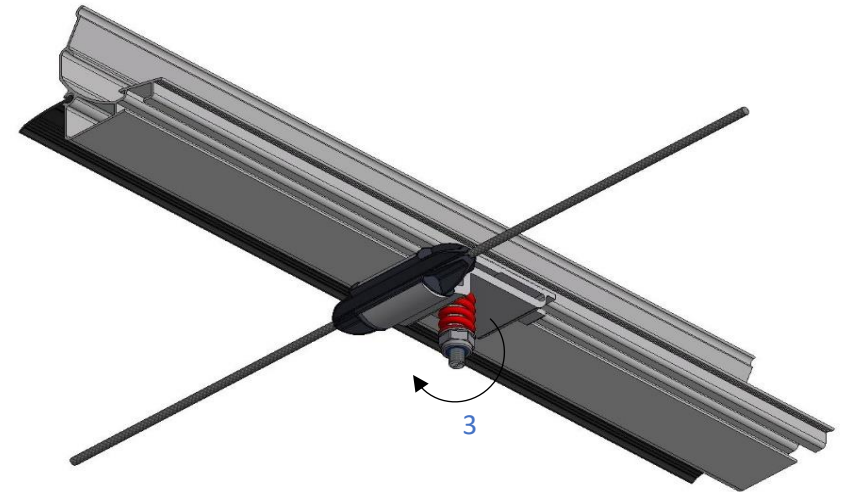
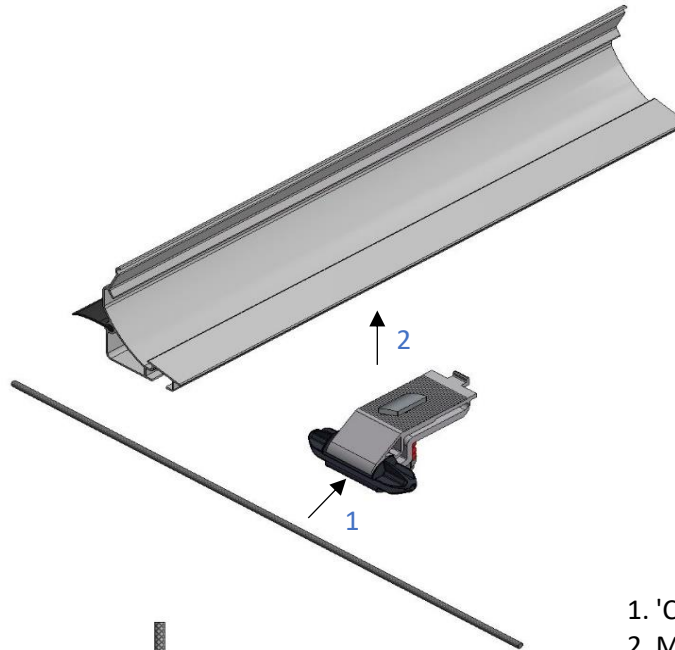
See project specific drawing for mounting the correct ValkKliMax at the correct location!

The ValkKliMax in the sections next to the reversing wheel are slidable.

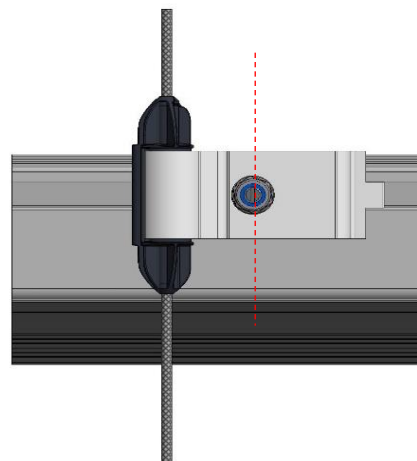
The side wall ValkKliMax's are red spring ValkKliMax's.



- 44.40.34 (green spring 3 kg)
- 44.40.35 (blank spring 6 kg)
- 44.40.36 (red spring 9 kg)

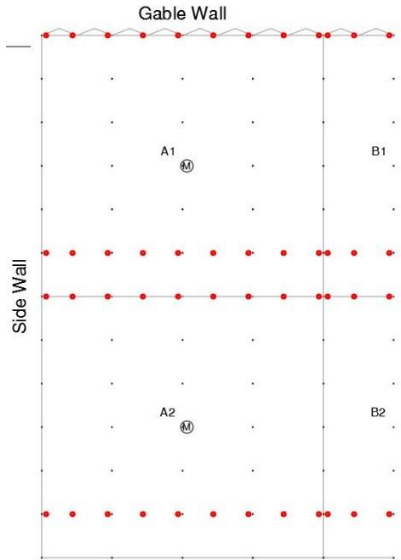


1. 'Click' the pull wire in the ValkKliMax.
2. Mount the ValkKliMax in the profile chamber.
3. Tighten the bolt with a maximum torque of 6 N/m, do NOT use an impact wrench.



Note: Make sure that the line on the bottom of the bolt is parallel to the cable.

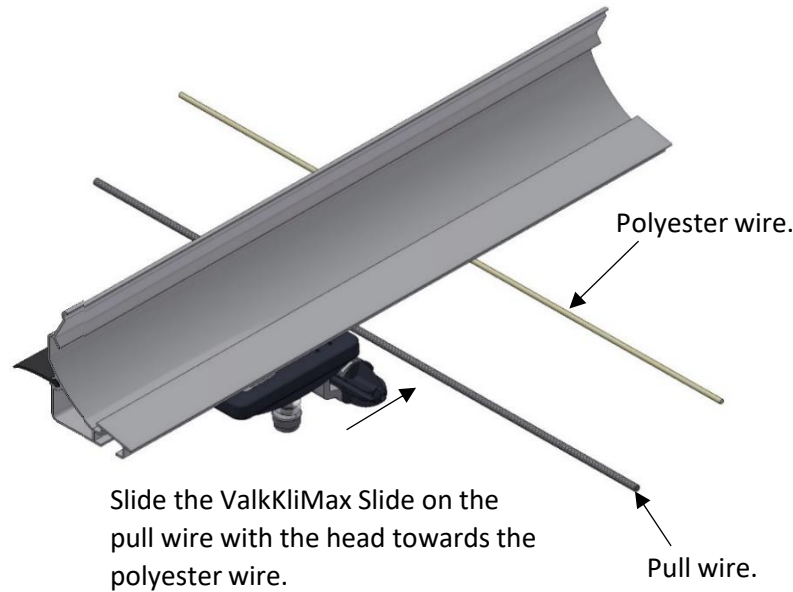
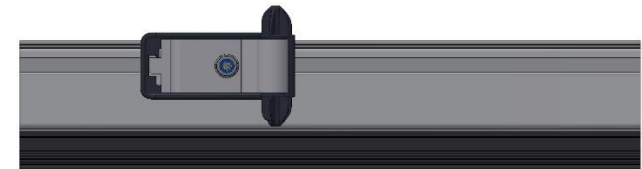




See project specific drawing for mounting the correct ValkKliMax Slide at the correct location!

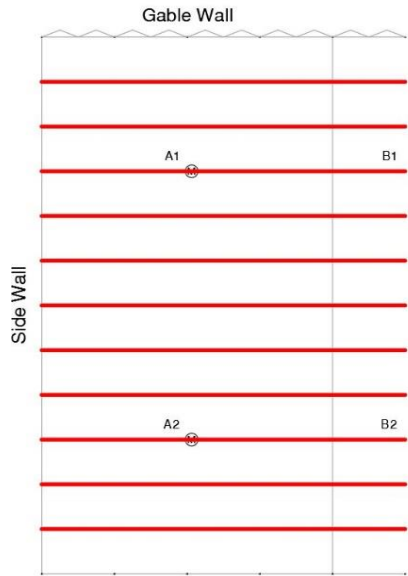


- 44.40.44 (green spring 3 kg)
- 44.40.45 (blue spring, 6 kg)
- 44.40.46 (black spring 9 kg)

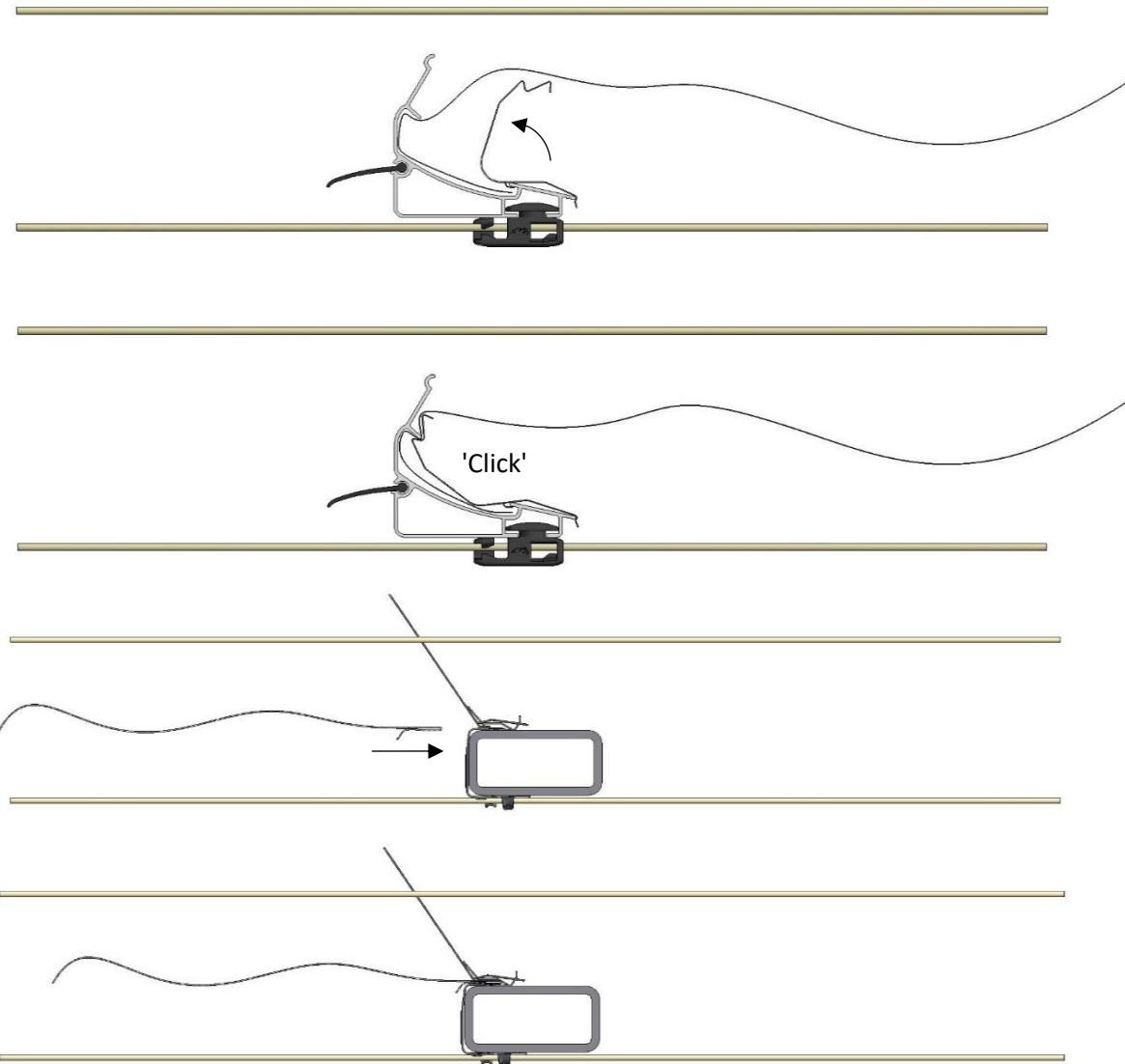


Attention:
Maximum tightening torque 6 Nm, do NOT use an impact wrench.

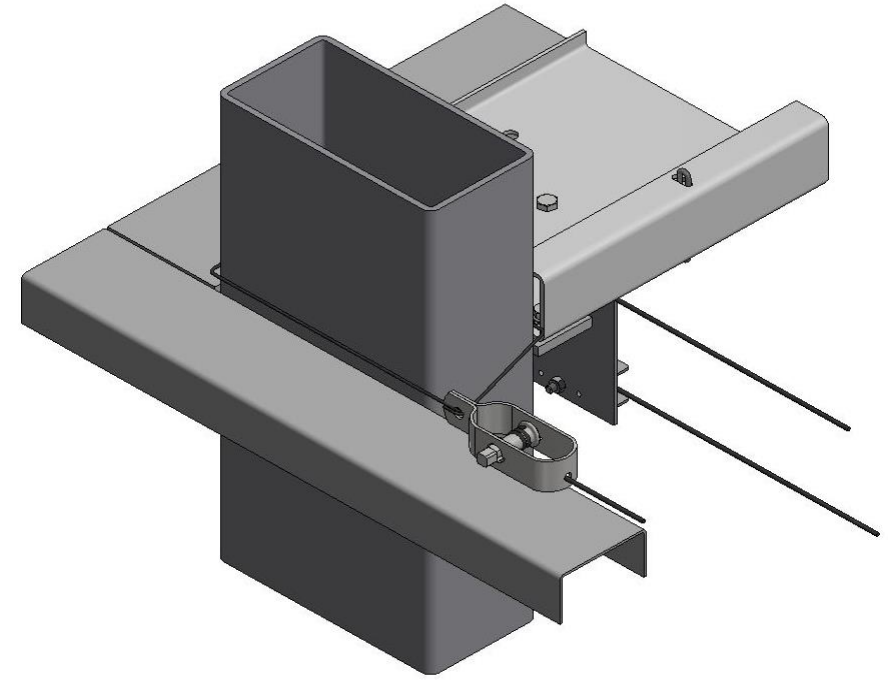
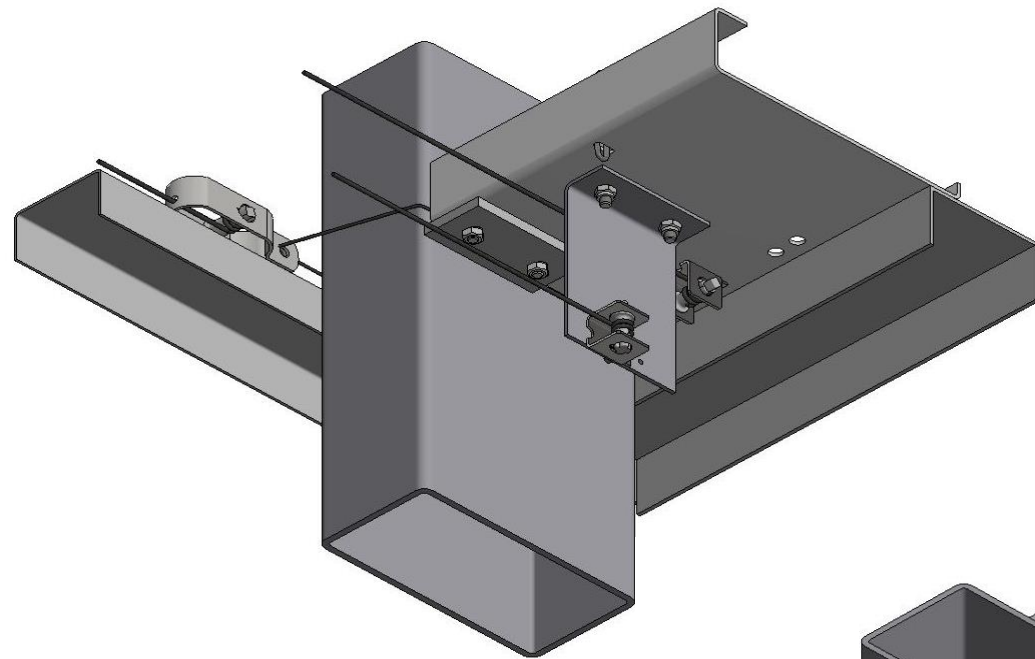
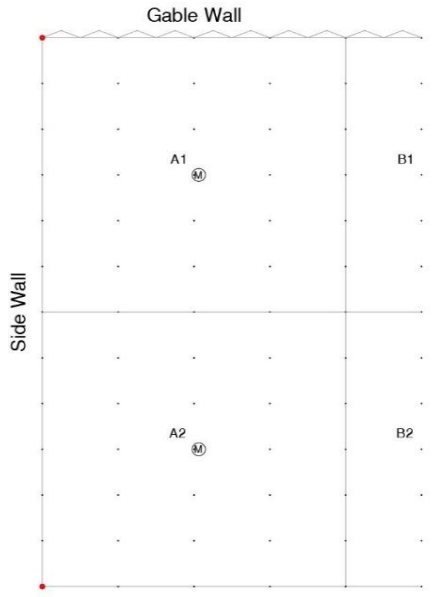
▶ Attachment of cloth to ValkScreenProfile and trusses



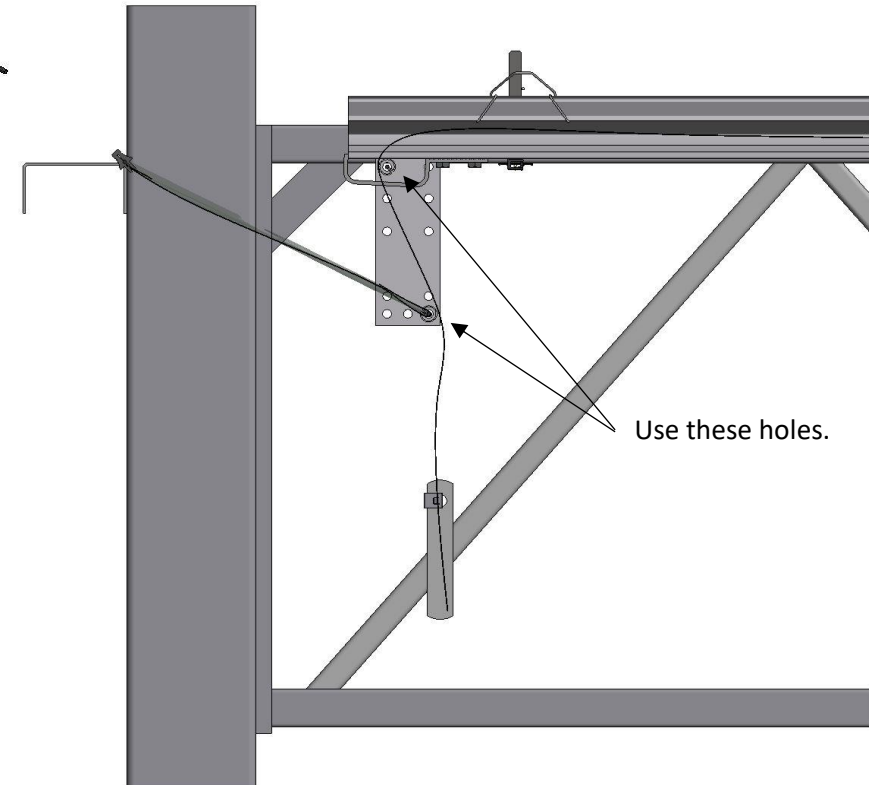
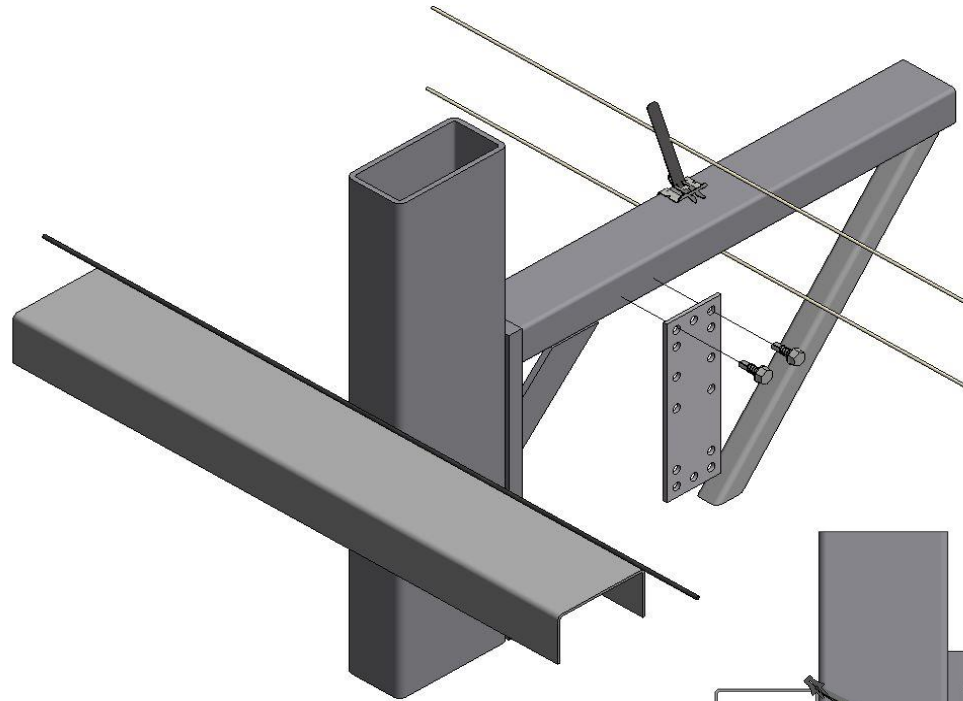
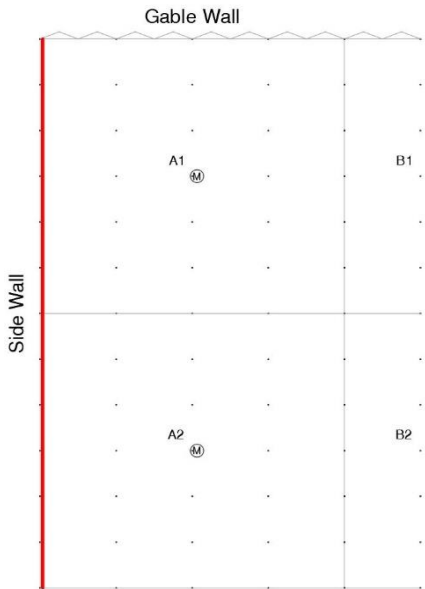
Retract the screen cloth according to the regulations from your cloth supplier.



To attach the cloth to the ValkTrussClips, use for example a flexible putty knife.



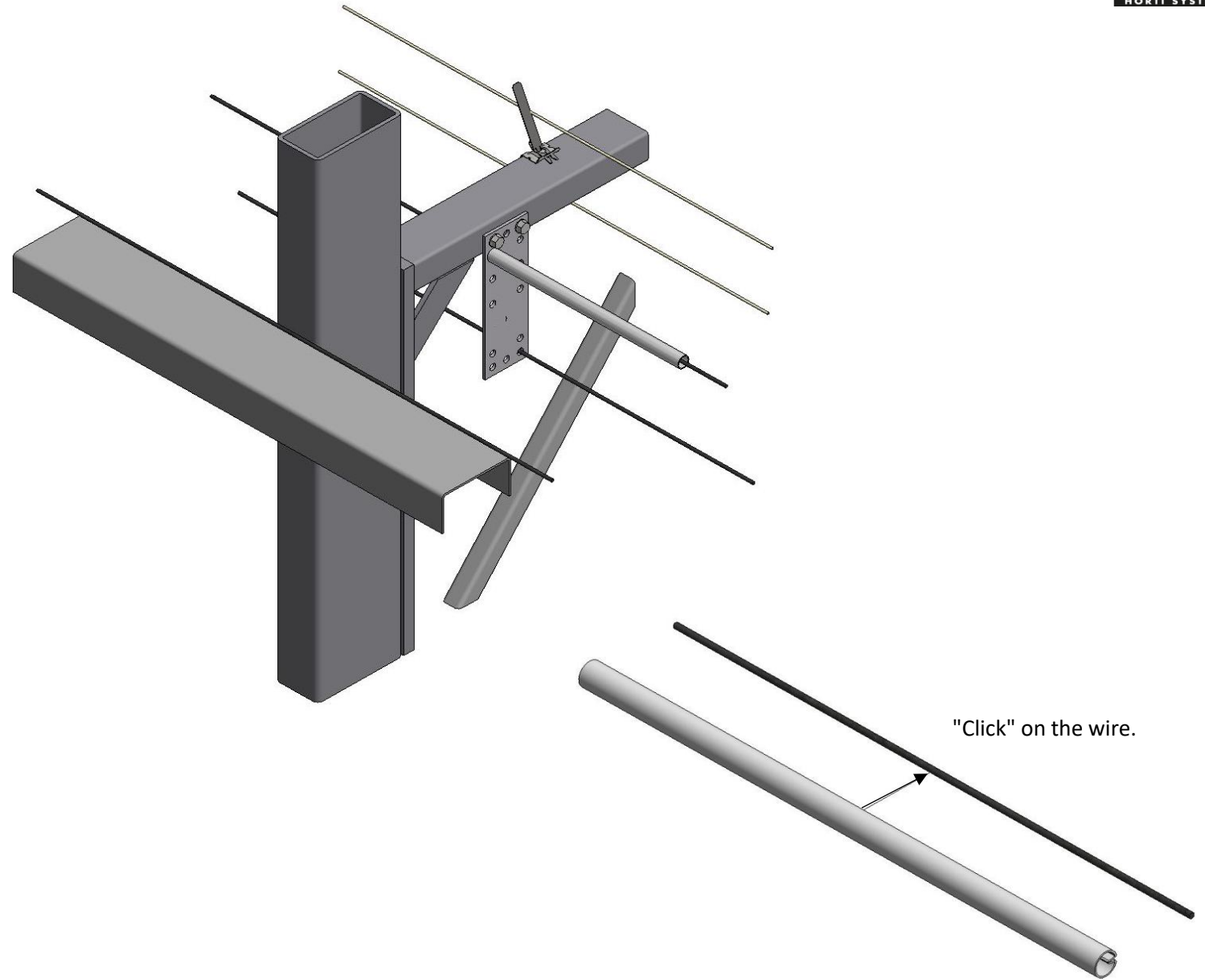
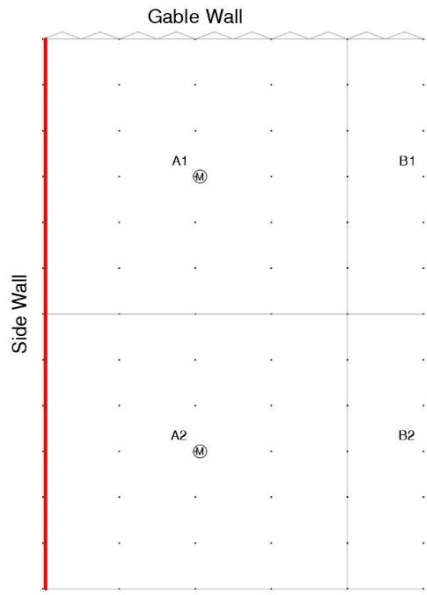
- | | | |
|--|----------|-------|
| | 44.84.25 | |
| | 55.40.20 | M8x20 |
| | 55.40.05 | M8 |
| | 48.80.10 | |
| | 55.30.16 | M6x16 |
| | 55.30.00 | M6 |
| | 48.80.12 | |
| | 48.20.15 | |

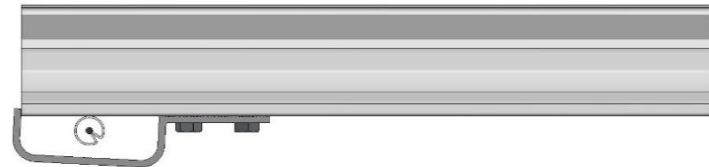
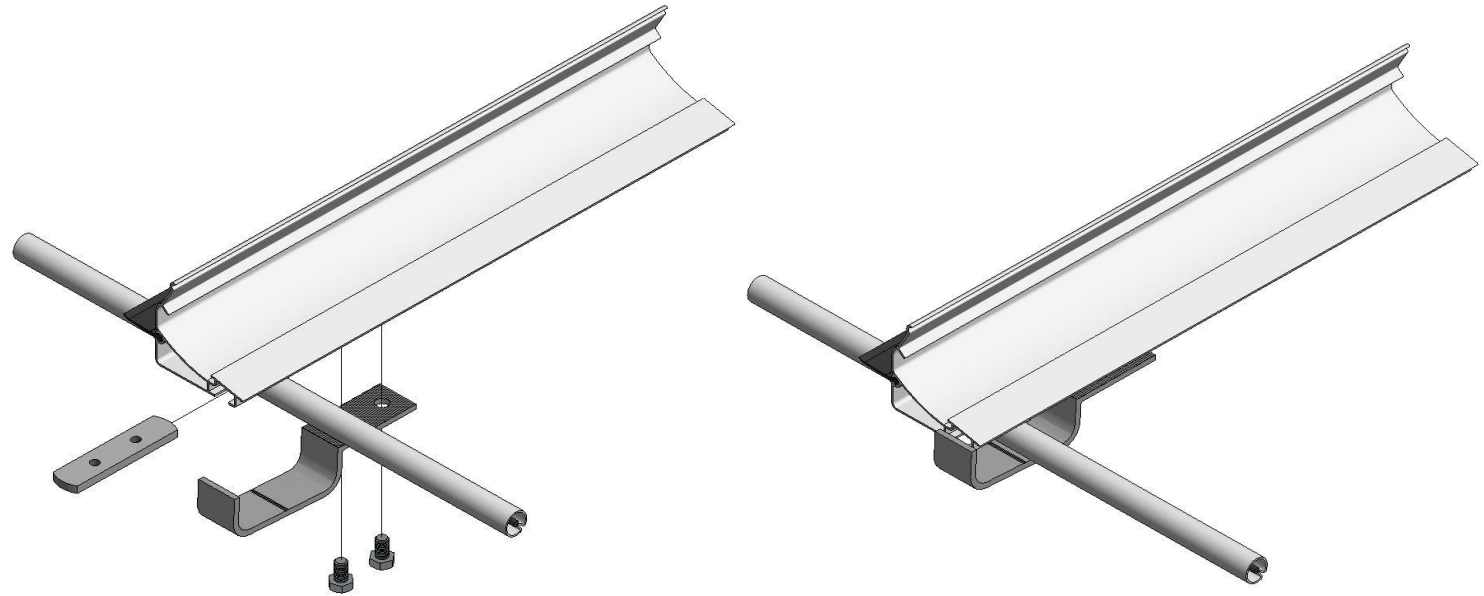
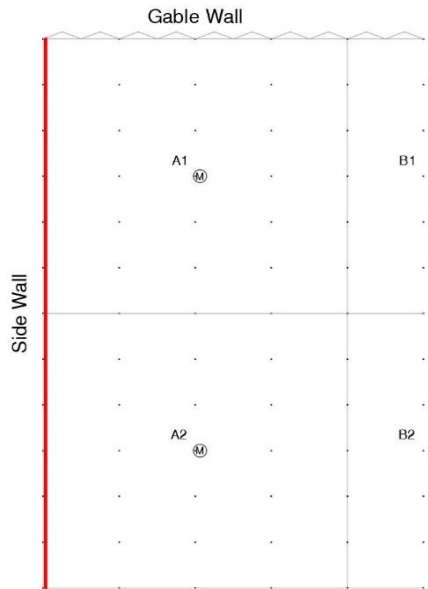


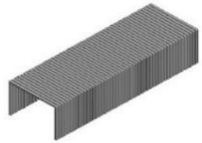
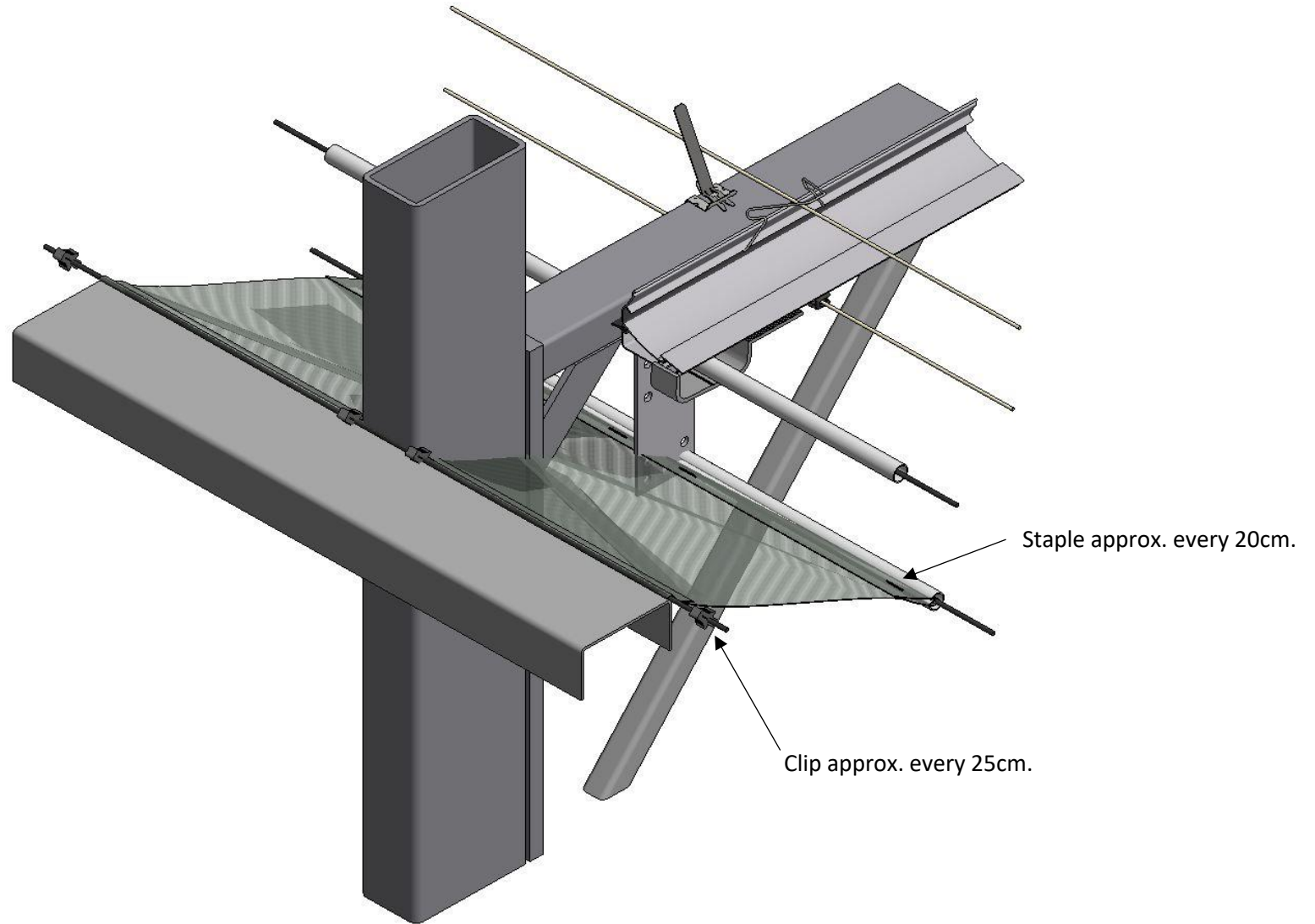
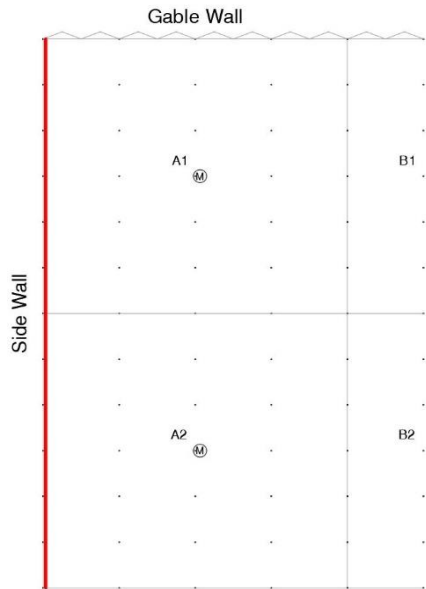
44.27.15

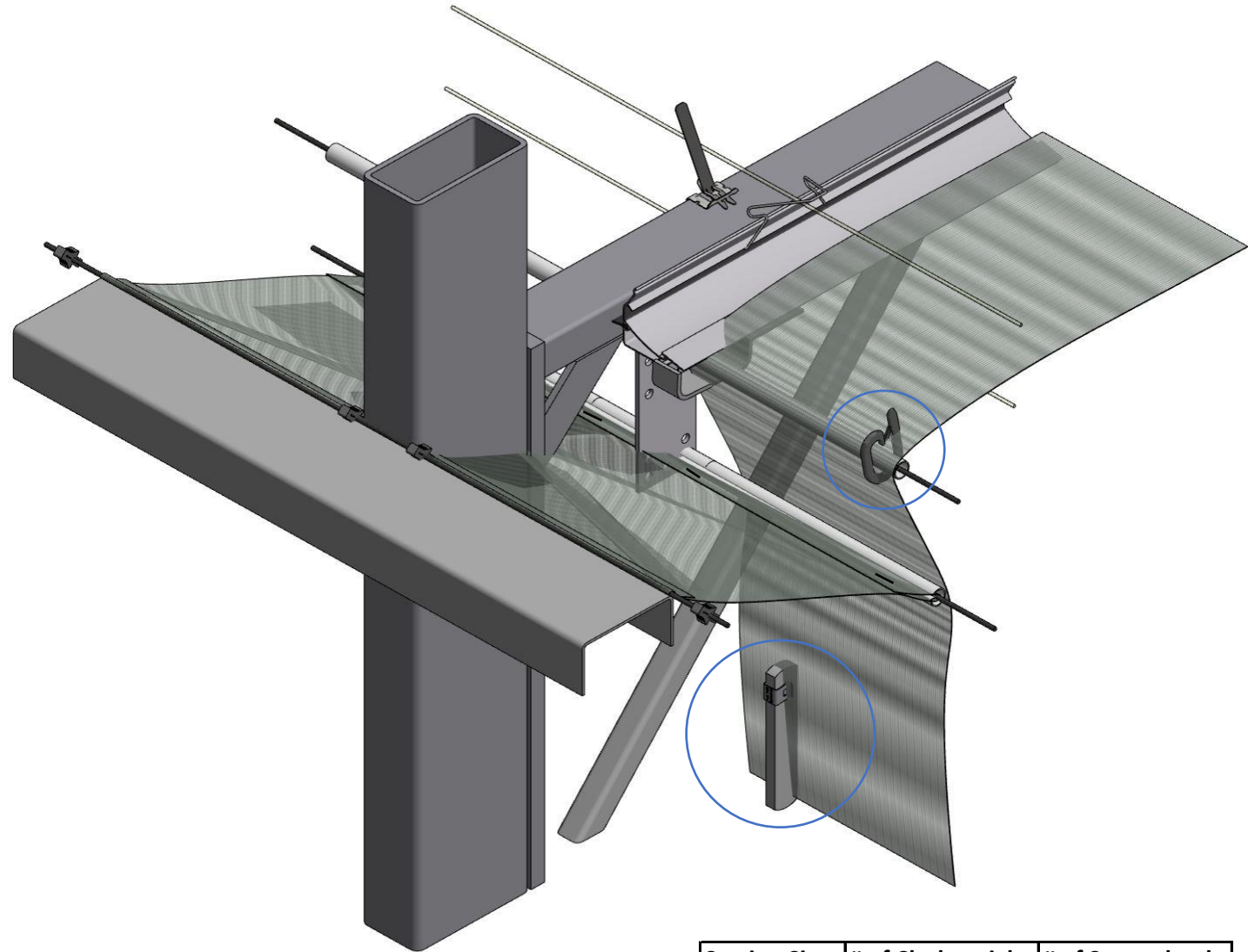
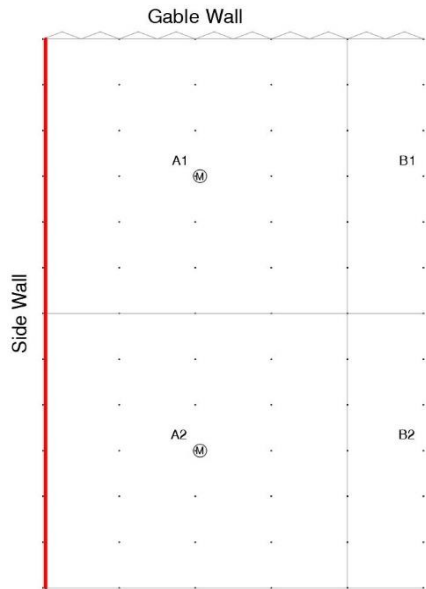





53.57.20









-  44.70.25
-  45.45.50
-  44.15.20

Section Size	# of Cloth weight	# of Screen hook
3658	5	7
4000	6	8
4500	7	9
5000	8	10