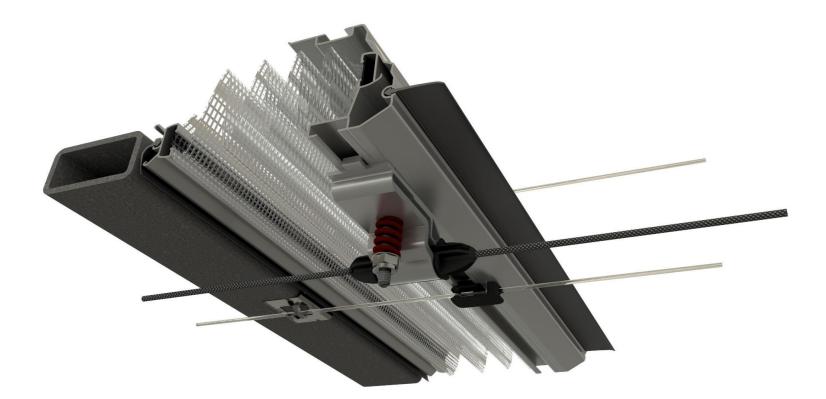
Van der Valk Horti systems



# Manual - ValkScreenVision 2.0



# **Lower Screen**

Van der Valk Horti Systems | ValkScreenVision 2.0 - Lower Screen | Manual v2.03



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#### **Disclaimer**



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.

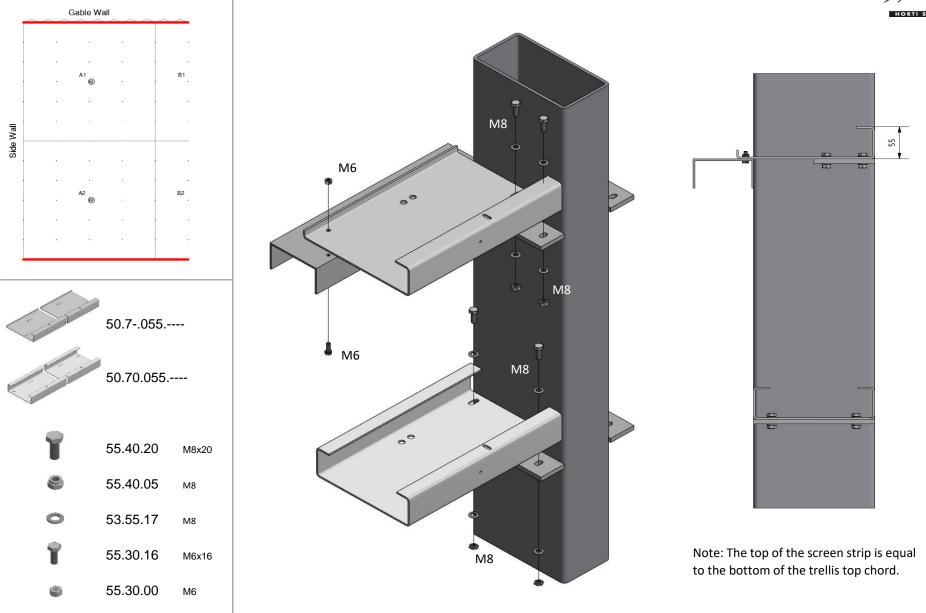
- \* This manual is not project specific.
- \* This manual is nog legally binding.
- \* No right may be derived from this installation manual.
- \* Consult the cloth and motor supplier manual for installation of their products.



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

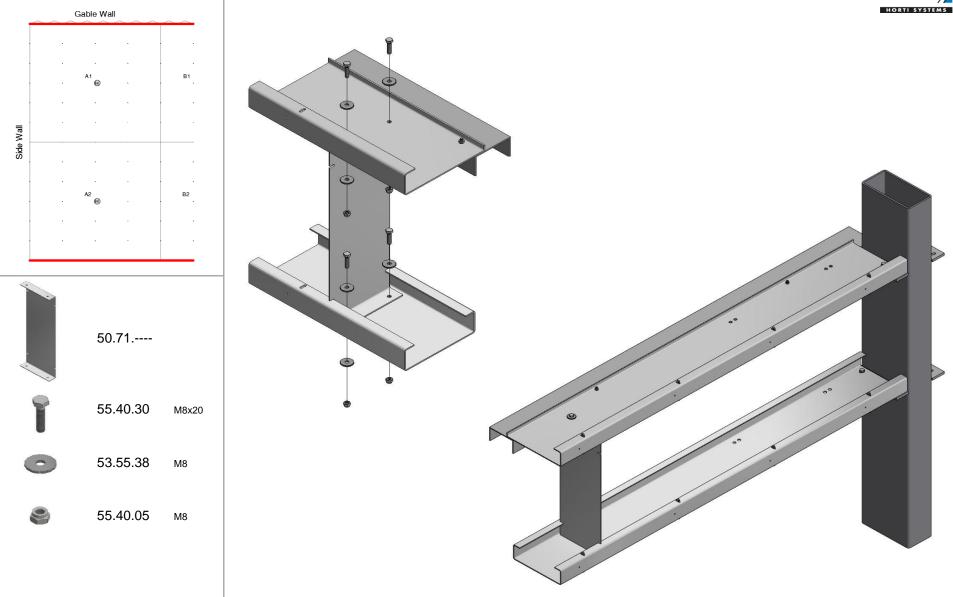
## Mounting screen plate





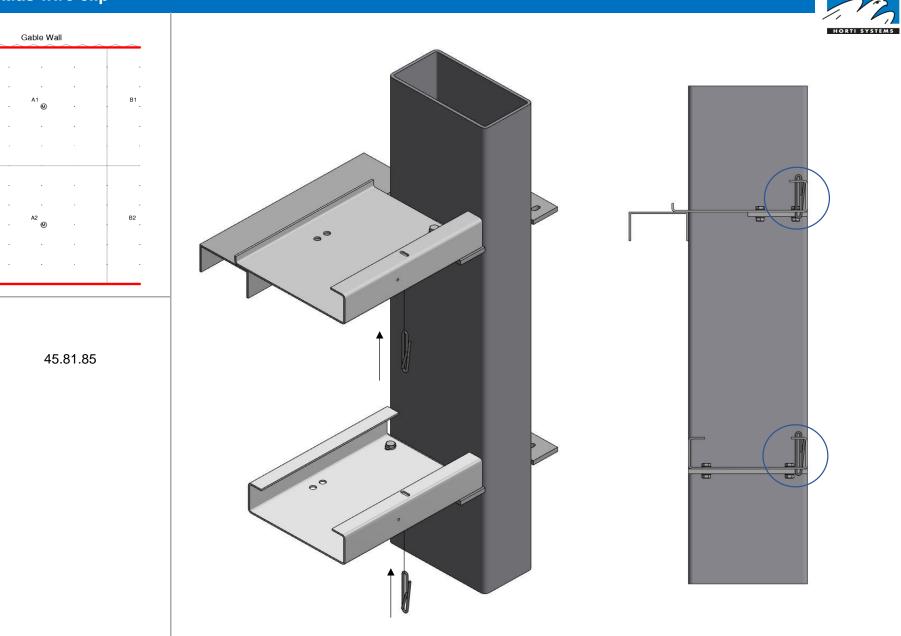
# Atlas wire clip





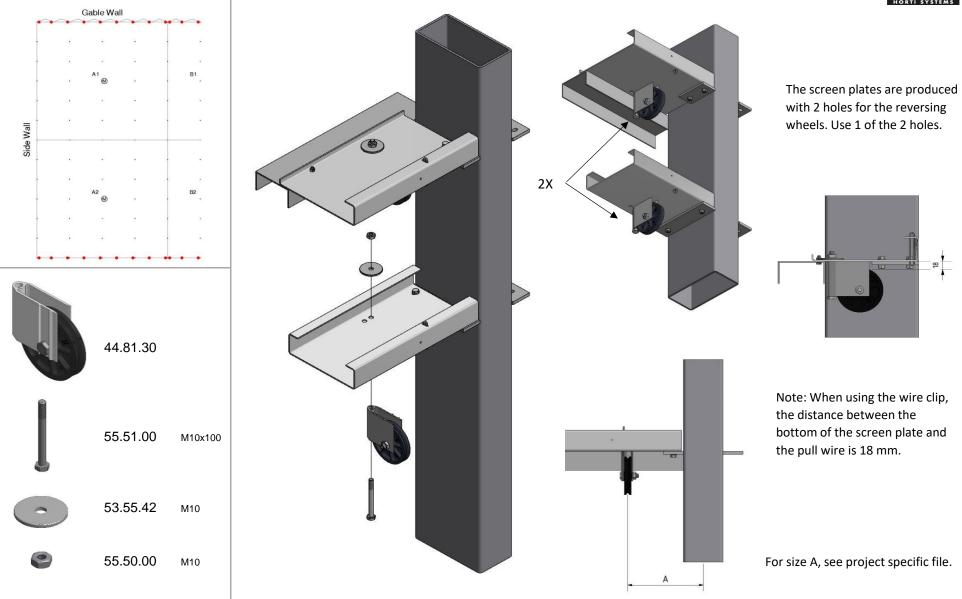
# Atlas wire clip

Side Wall



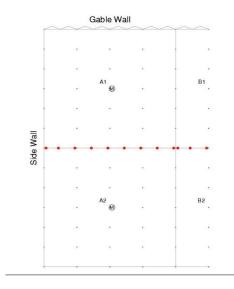
## ValkReversingWheel for screen plate





# ValkReversingWheel Double





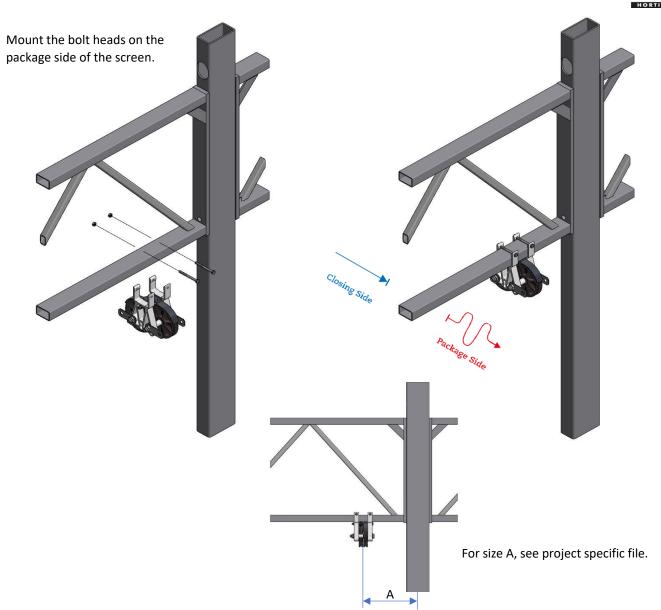
(to 4. (to 4.

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

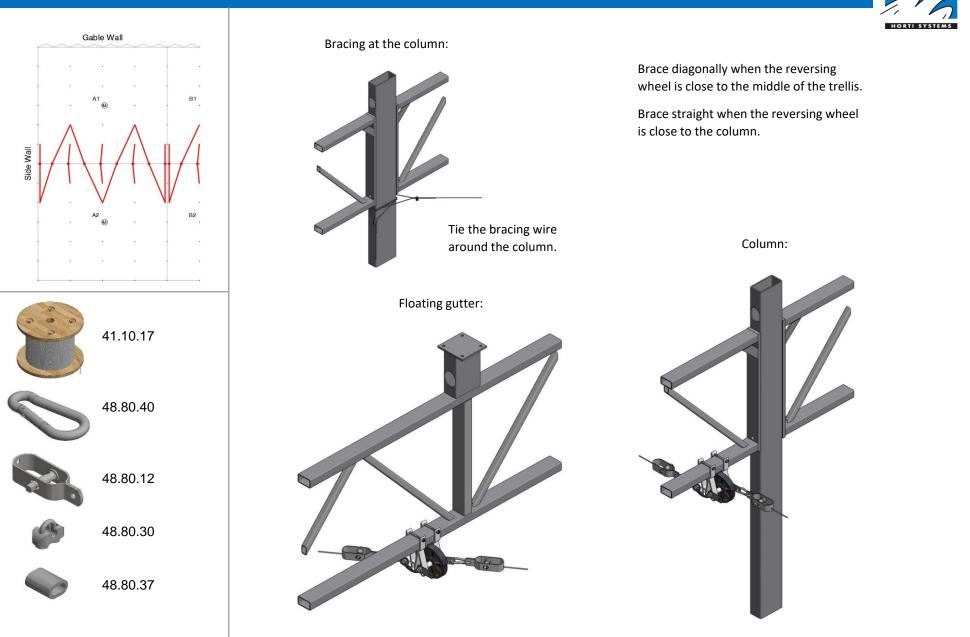


(trellis width + 15 mm) 55.30.--

55.30.00

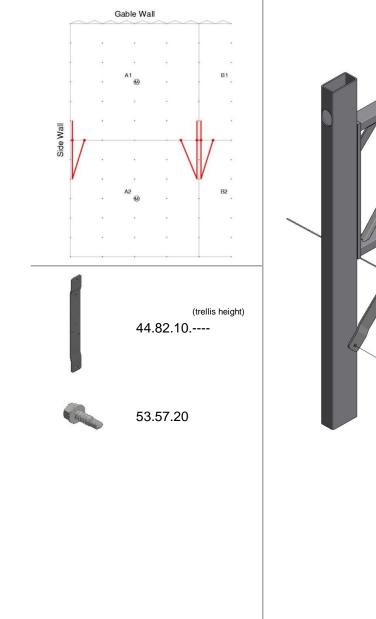


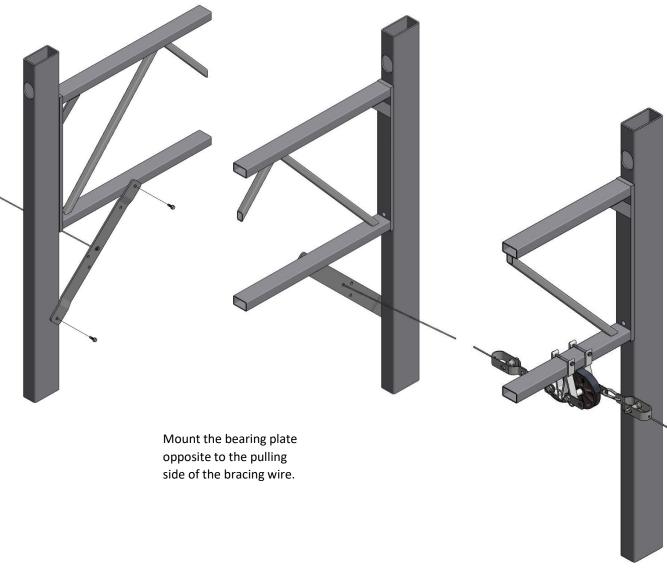
## Bracing of ValkReversingWheel Double



# Bracing of ValkReversingWheel at section ends

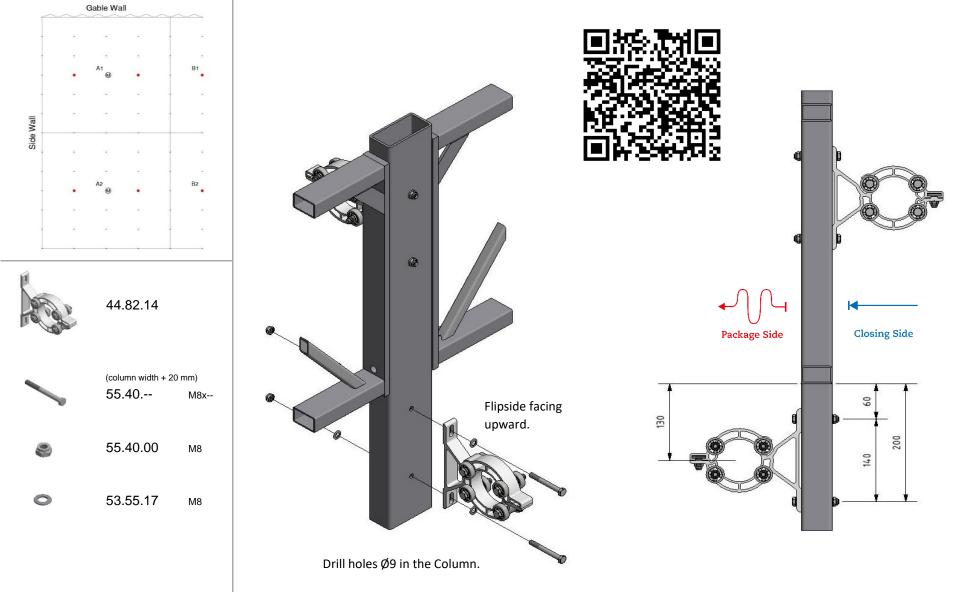






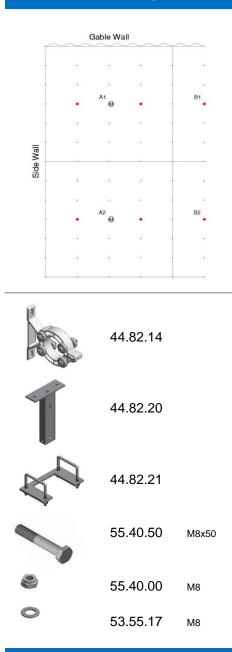






# ValkBearingBracket (2") for Lower Screen

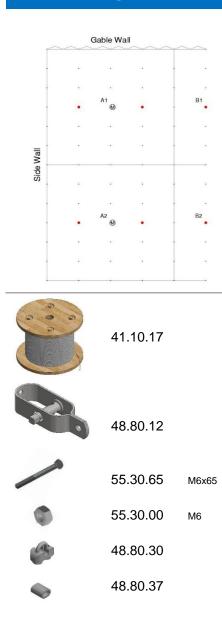






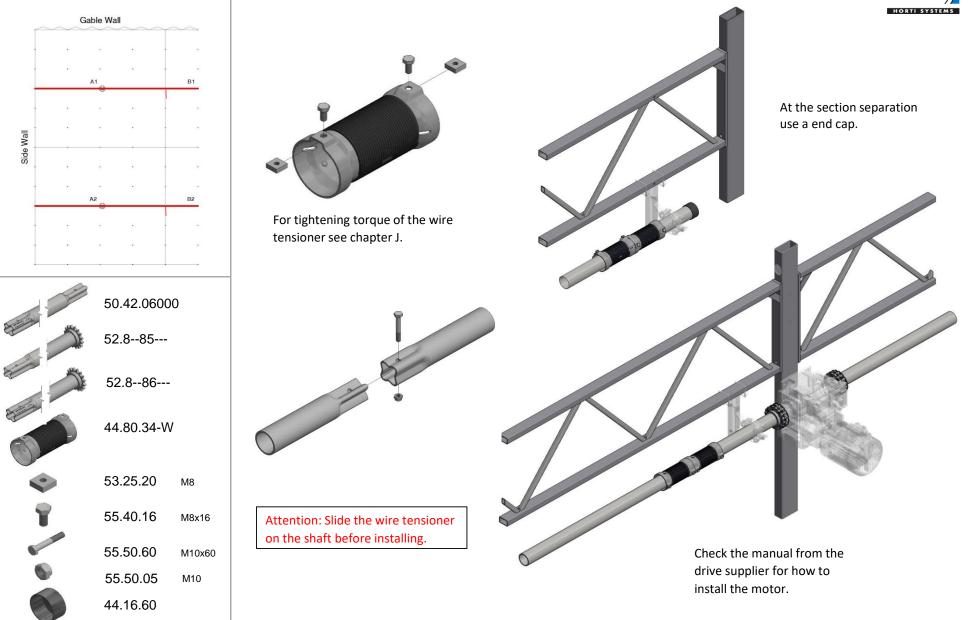
# Bracing the ValkBearingBracket for Lower Screen





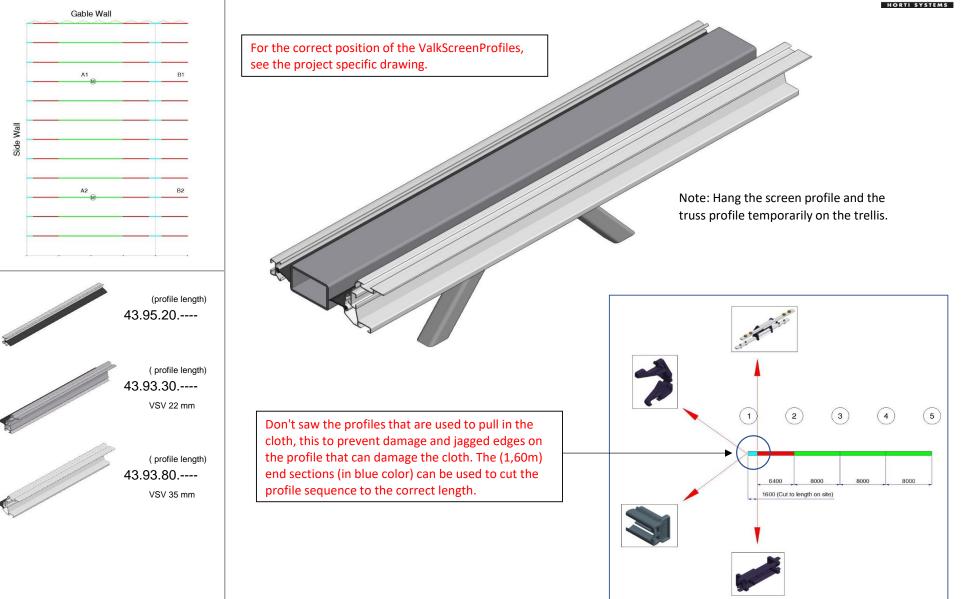


## ValkDriveShaft



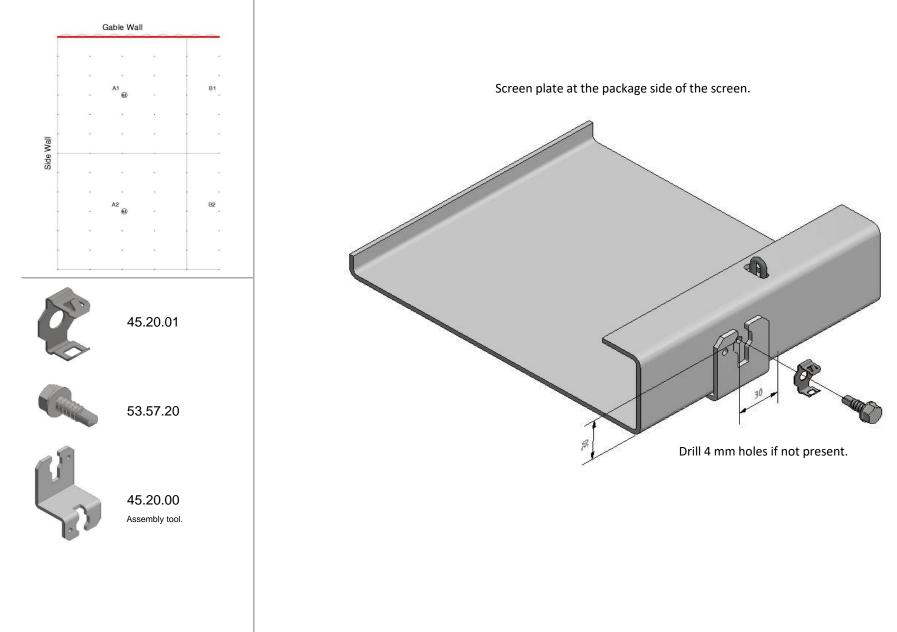
#### ValkScreenProfile - ValkScreenVision 2.0



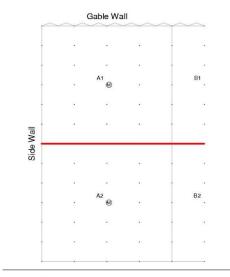


# ValkTrussClip at the gable wall

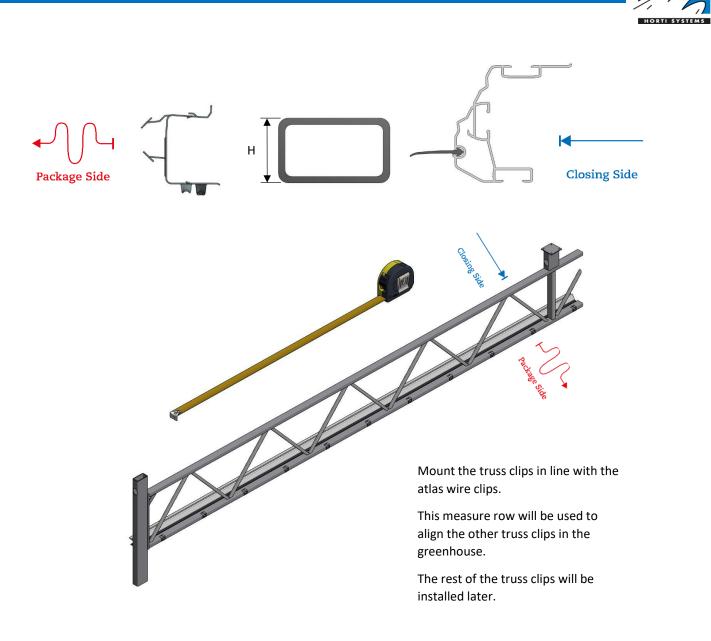




## Measure row - ValkTrussClips

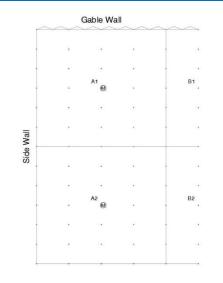




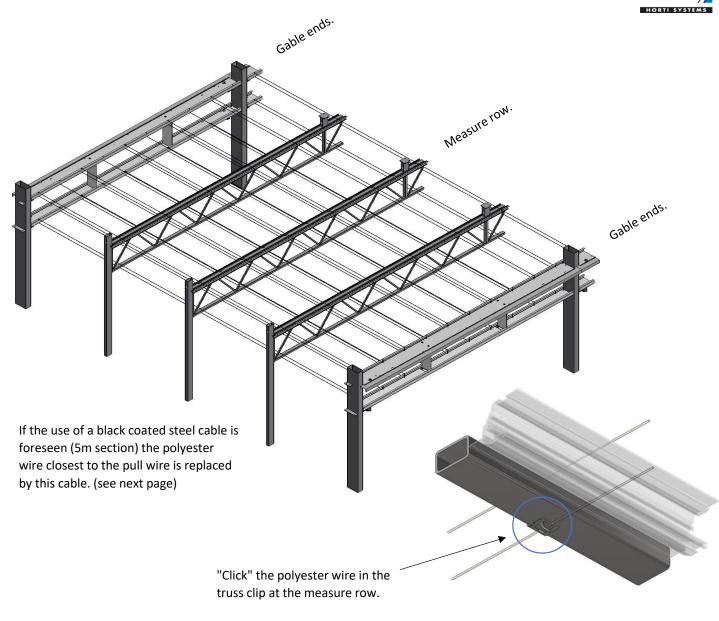


## Polyester wires

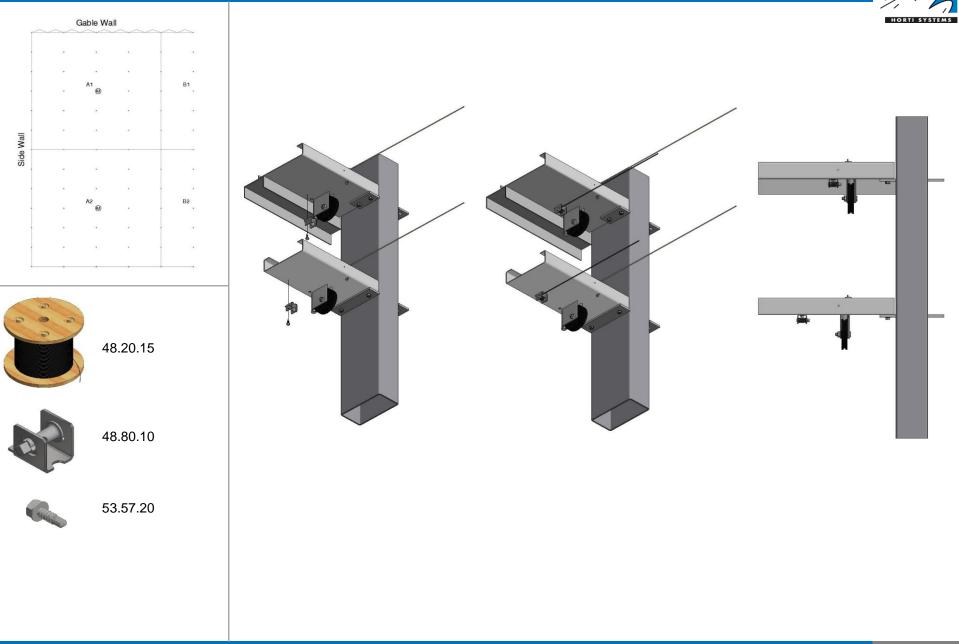




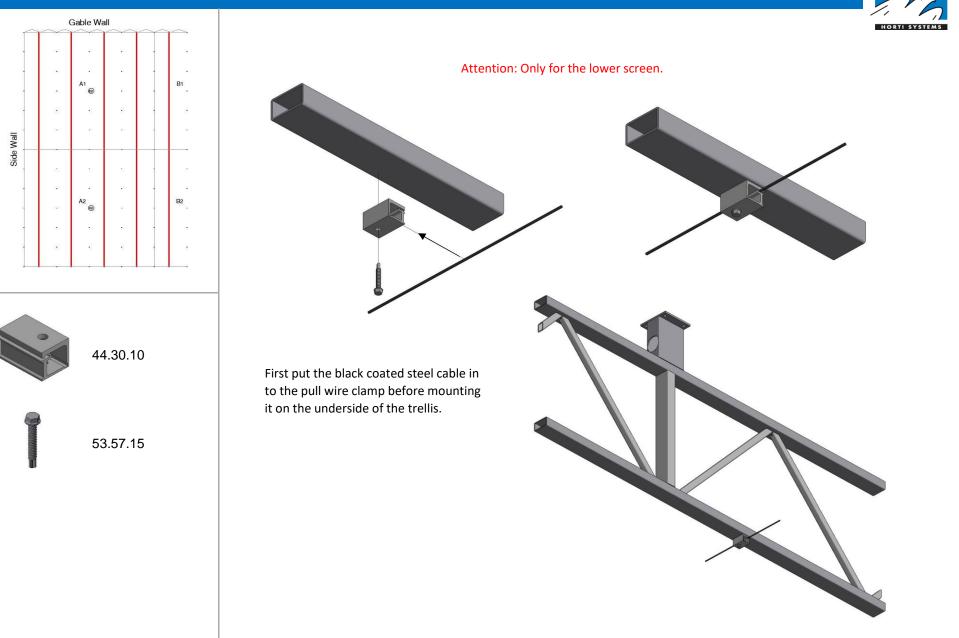
48.50.30



# Extra black coated steel support cable



#### Fixation of trellis with black coated steel cable

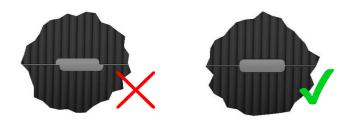




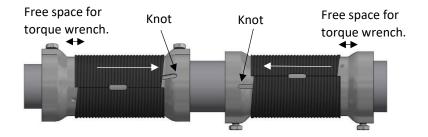
Before mounting the wire on the wire tensioners make sure that everything on page G1 - G2 is clear and understood.



Make sure that the plastic cable drum is placed correctly. The plastic cable drum is correctly placed when the rectangular is aligned.



2. 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.



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

Hole to indicate 22,5 windings.

Hole to indicate 24,5 windings.



Bay 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		

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



4.



- 5. Slide the ValkWireTensioners together in such a way that the knots are hidden between the tensioners.
- **6.** Finally, the wire should be wound on the ValkWireTensioner as shown in the picture below.

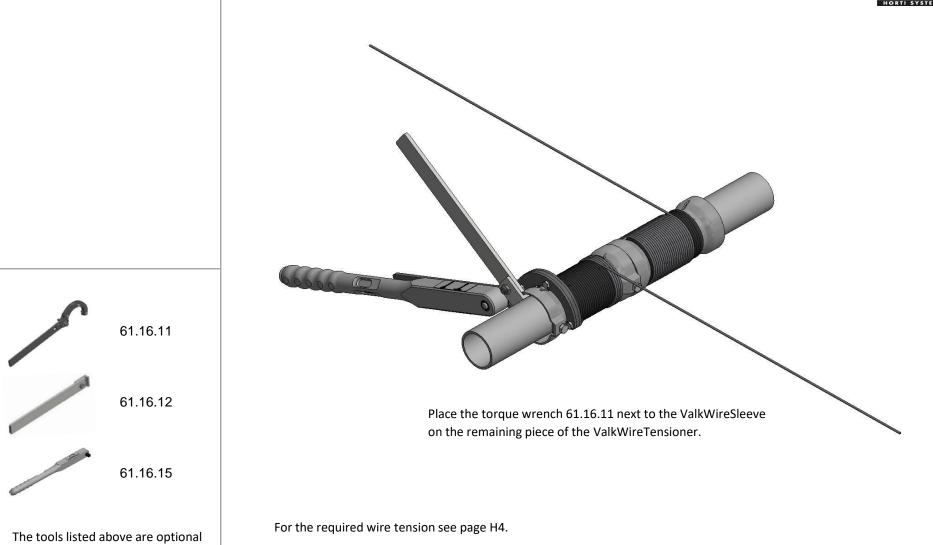




For the required wire tension, see page H3 and H4.

and not standard provided with a screen system. You could order them at Van der Valk Systems.





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ValkKliMax green has a max. skid force of 3,5 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	Moment to set on torque wrench
[kg]	[Nm]
40	20
50	25
60	30
80	40
100	50
130	60

(number of ValkKliMax's x max. skid force)

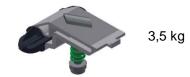
Cable pre-tension = -----+ 20 kg

2

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

(16 x 6 kg) Cable pre-tension = -----+ 20 kg = 68 kg 2

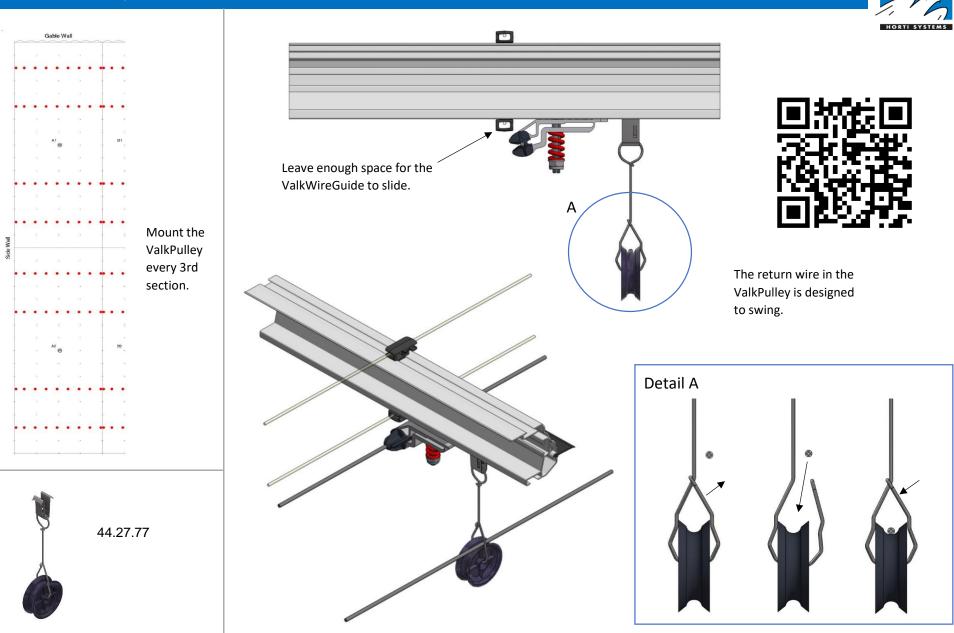
The torque wrench must be set approximately to 35 Nm. (see table)



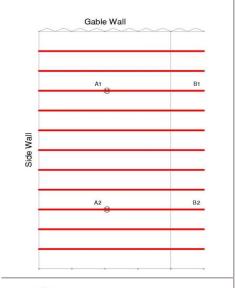




## ValkPulley



# VSV ValkTrussClip



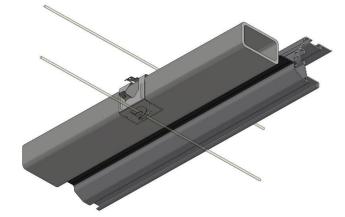




Slide the truss clip on the cord of the trellis

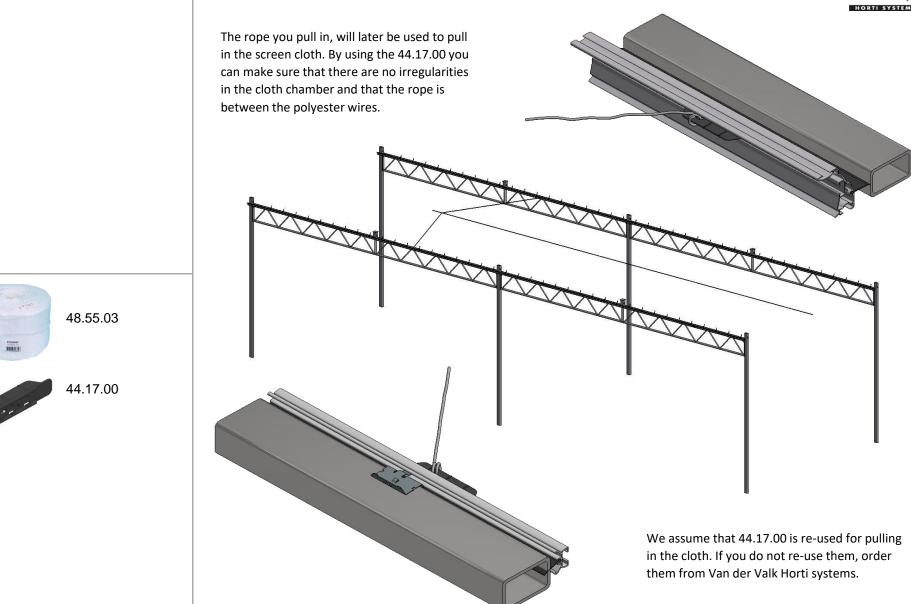


Make sure the polyester wire is secured by the 2 lips in the truss clip.

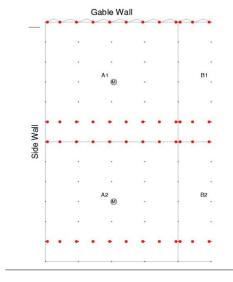


## Cloth pull rope





## ValkKliMax Slide



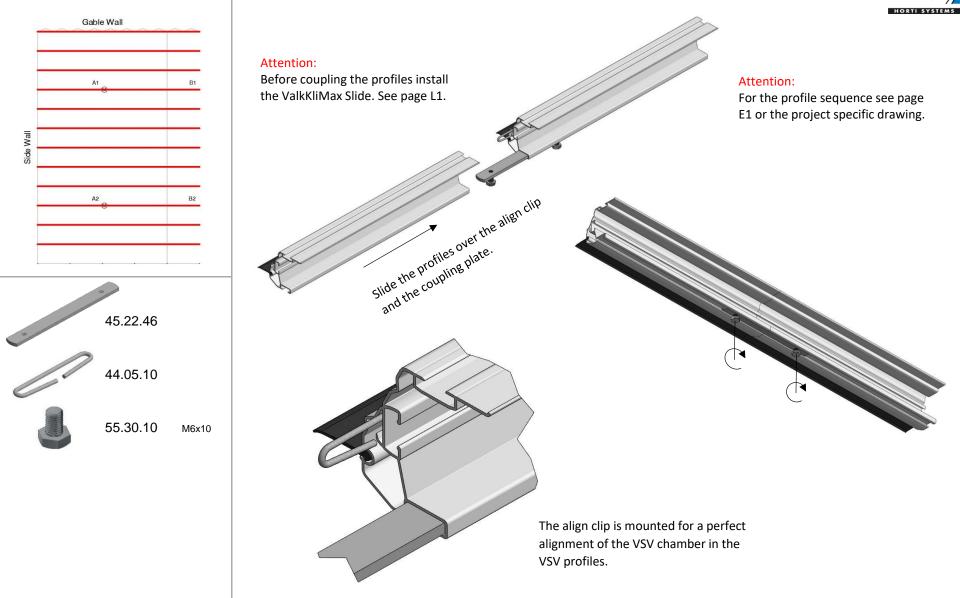


44.40.44 (green spring) 44.40.45 (blank spring) 44.40.46 (red spring) See project specific drawing for mounting the correct ValkKliMax Slide at the correct location! Slide the Vakkkii Max Slide in the profile. Attention: Mount the ValkKliMax Slide before coupling the profiles. Attention: Polyester wire. Maximum tightening torque 6 Nm, do NOT use an impact wrench. Mount the ValkKliMax Slide with the head towards the polyester wire.



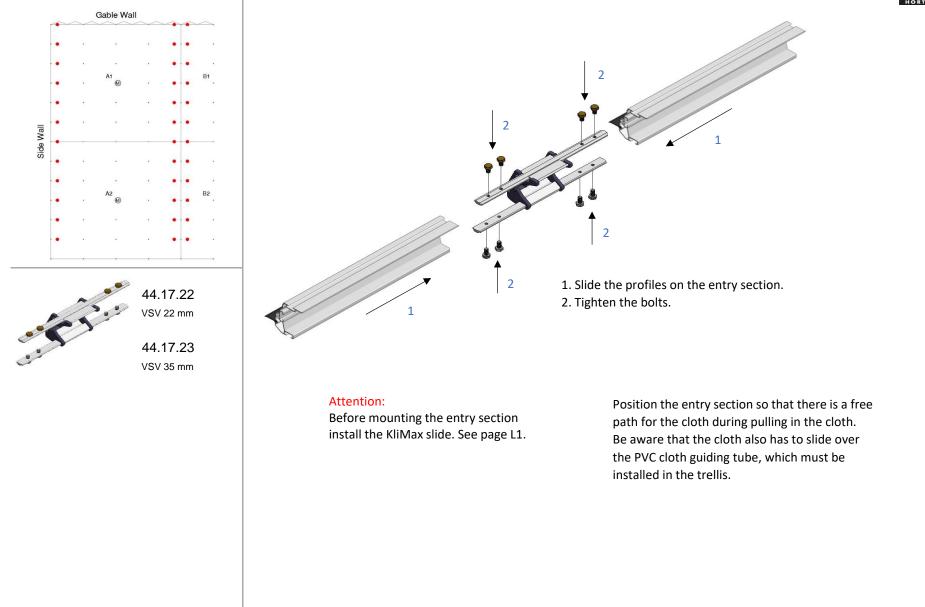
## Coupling ValkScreenVision profile





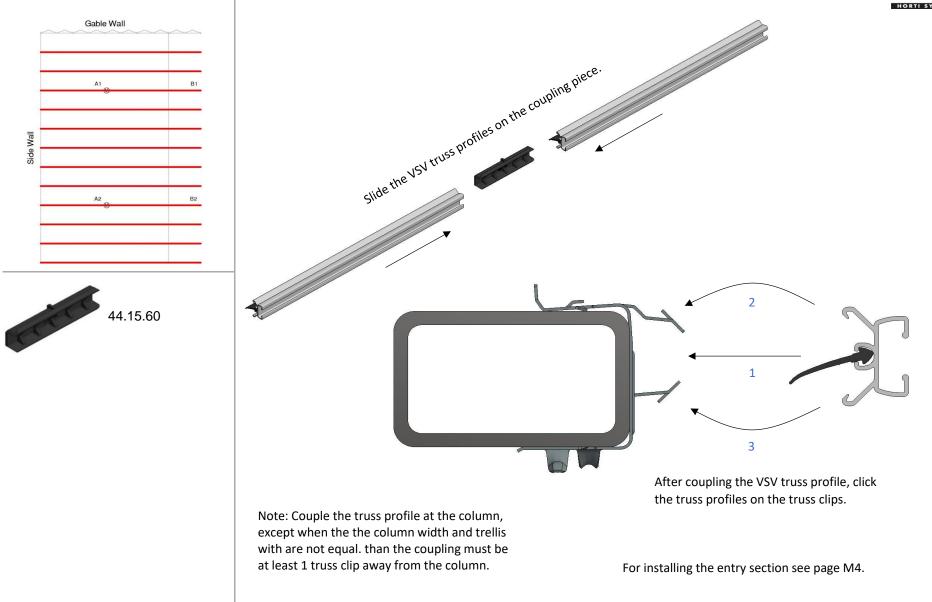
## **Entry section VSV 2.0 profile**



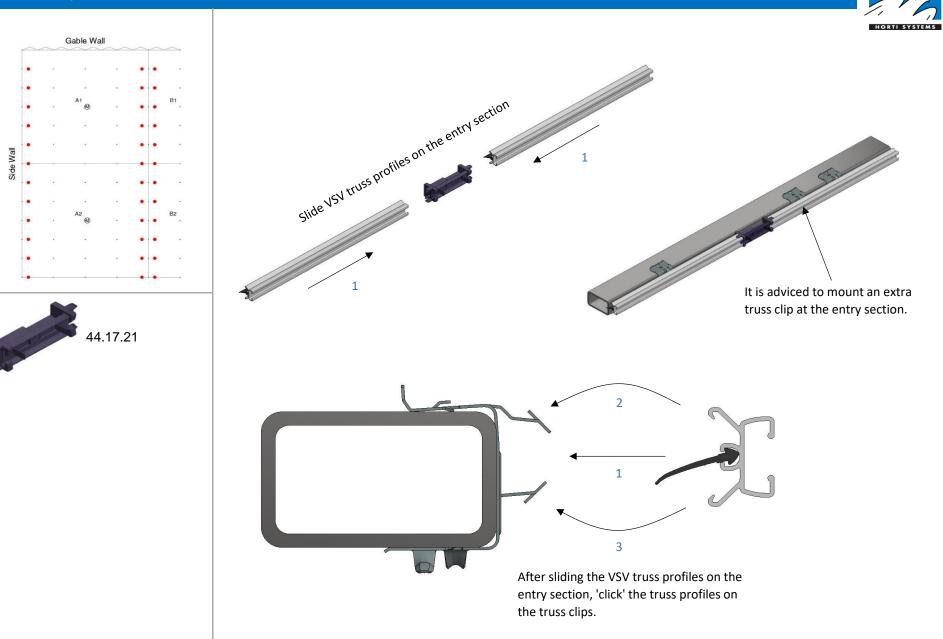


## Coupling VSV 2.0 ValkTrussProfile



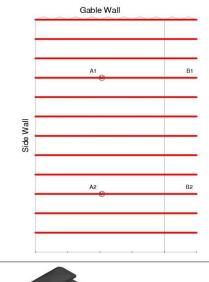


## Entry section VSV 2.0 ValkTrussProfile

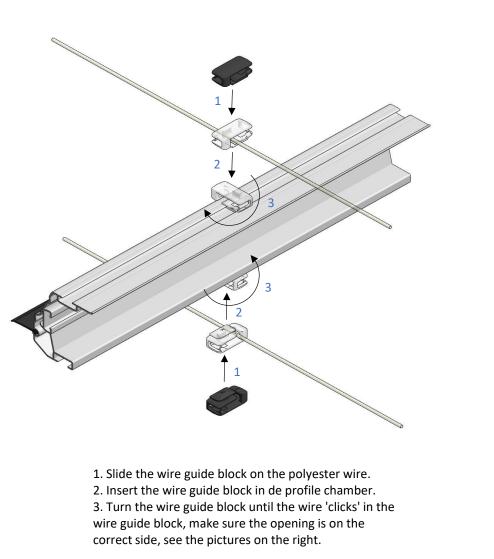


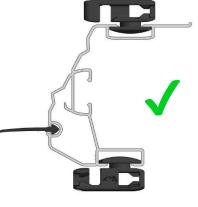
### ValkWireGuide

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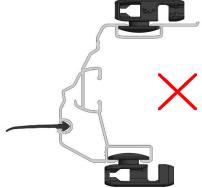


44.15.27



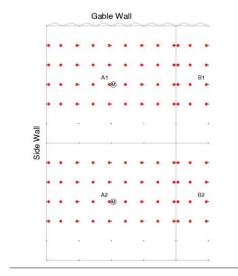


Mount the wire guide blocks with the opening as shown.



#### ValkKliMax

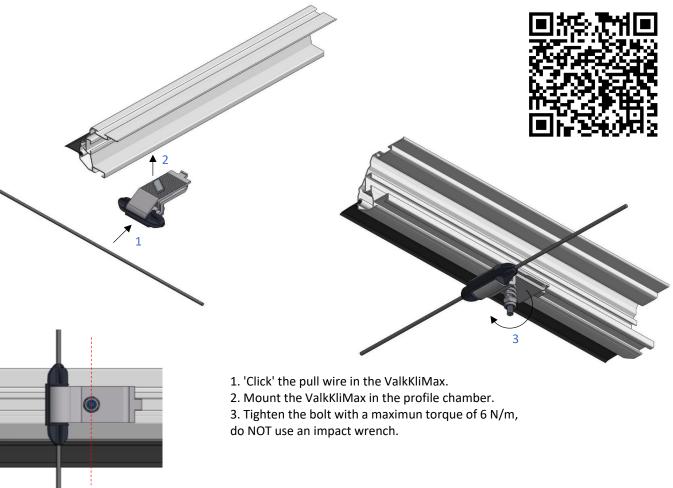






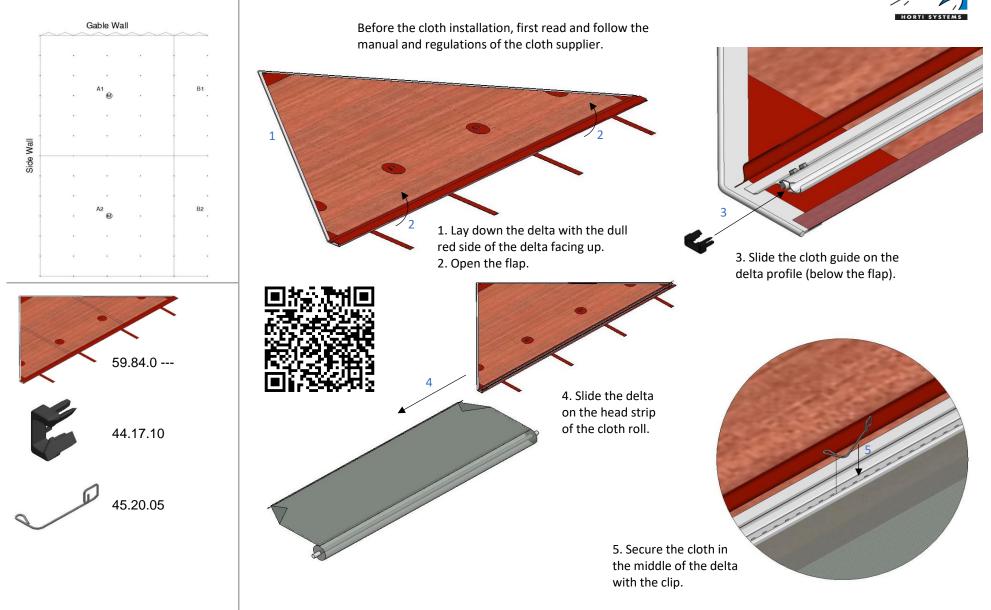
44.40.34 (green spring) 44.40.35 (blank spring) 44.40.36 (red spring) See project specific drawing for mounting the correct ValkKliMax at the correct location!

The ValkKliMax in the sections next to the reversing wheel are slidable. The side wall ValkKliMax's are red spring ValkKliMax's.



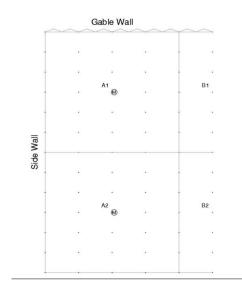
Make sure that the line on the bottom of the bolt is parallel to the cable.

#### Delta



#### Front runner









Mount the winch beam with the straps to the trellis in such a way that when the cloth comes out the insert, it can run in a clear way to the winch. "Click" the front runners at the front end of the strips for a smooth conduction trough the profiles.

Mount with the protruding part of the front runners facing each other so that the front runners fits trough the profile chambers. Before clicking the front runners on the strips check the top and bottom side of the cloth.

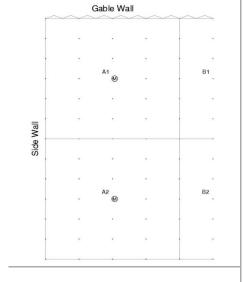
The winch is not supplied by van der Valk horti systems.

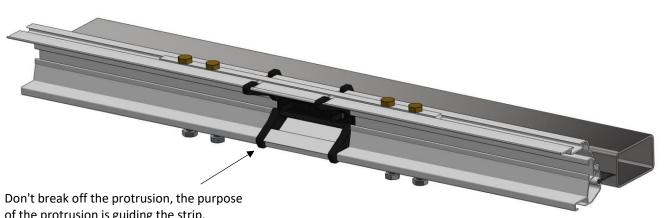
Mount the cloth guiding tube with the straps to the trellis in such a way the cloth that comes from the cloth roll can run in a clear way to the insert.

> Lay the cloth roll on bearings for friction less rolling. Not supplied by Van der Valk horti systems.

# Cloth pulling in





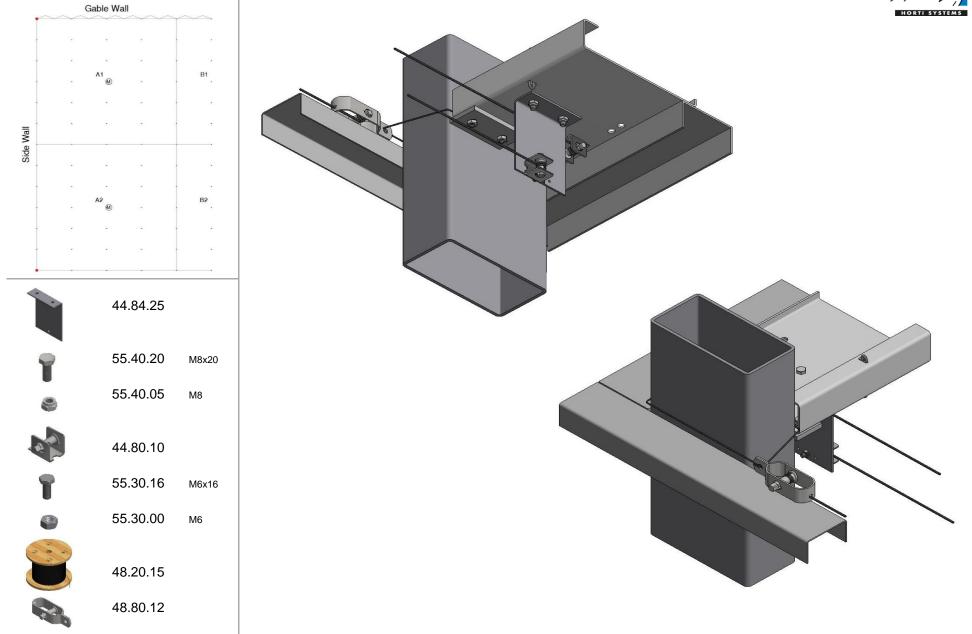


of the protrusion is guiding the strip.

Insert the front runner in the insert. The insert at the end of the profiles forces out the strip again.

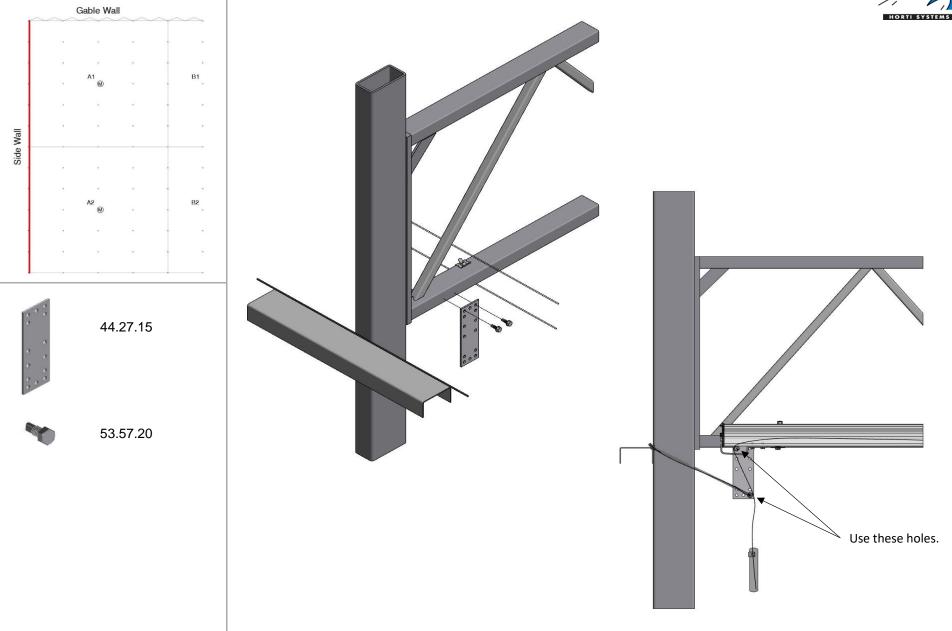
# Cloth hangdown - VSV



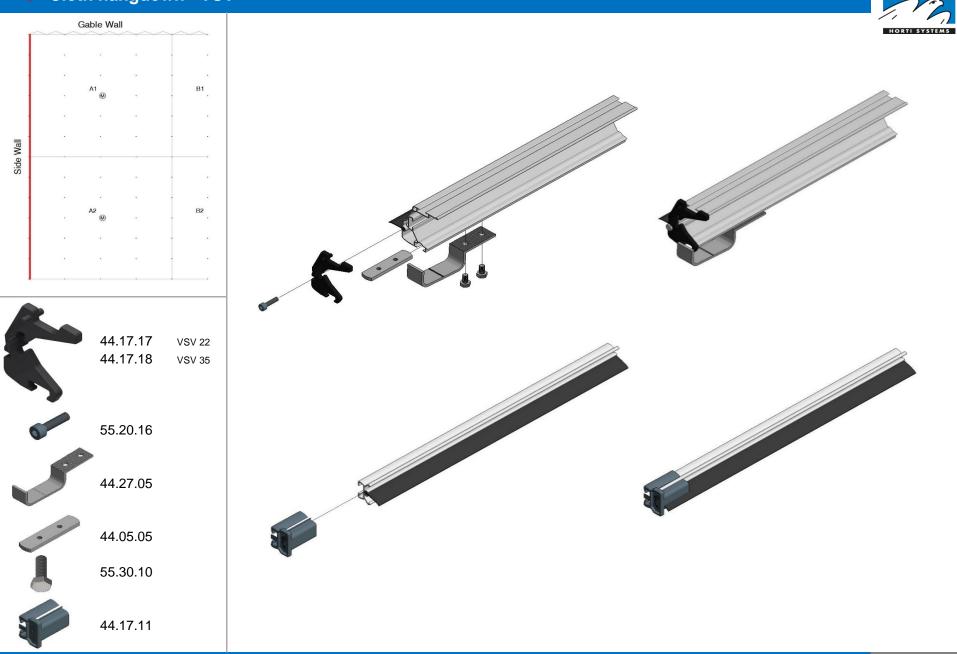


# Cloth hangdown - VSV



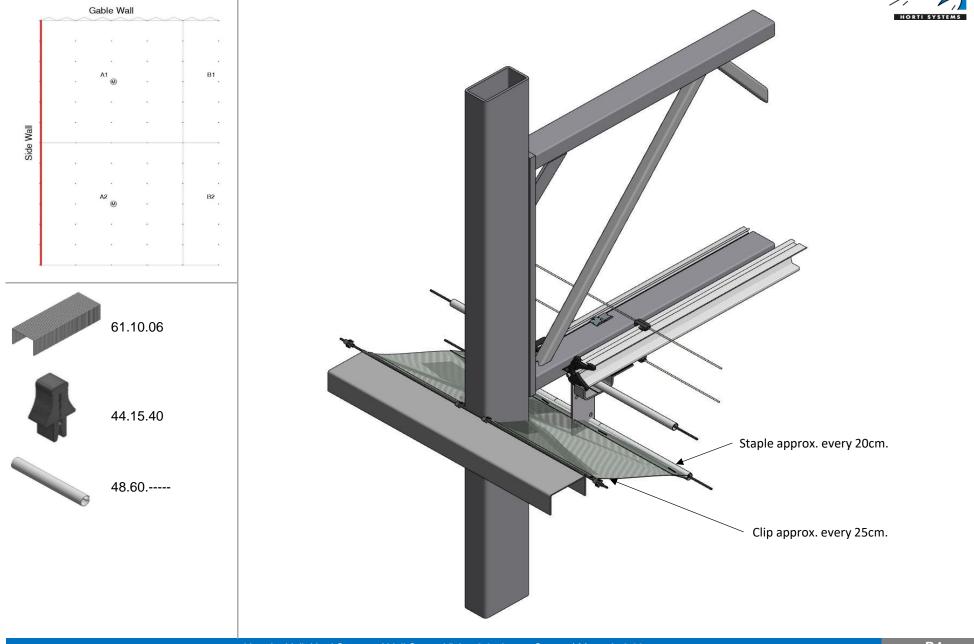


# Cloth hangdown - VSV



# Cloth hangdown - Fixed cloth - Side wall





# Cloth hangdown - Fixed cloth side wall



