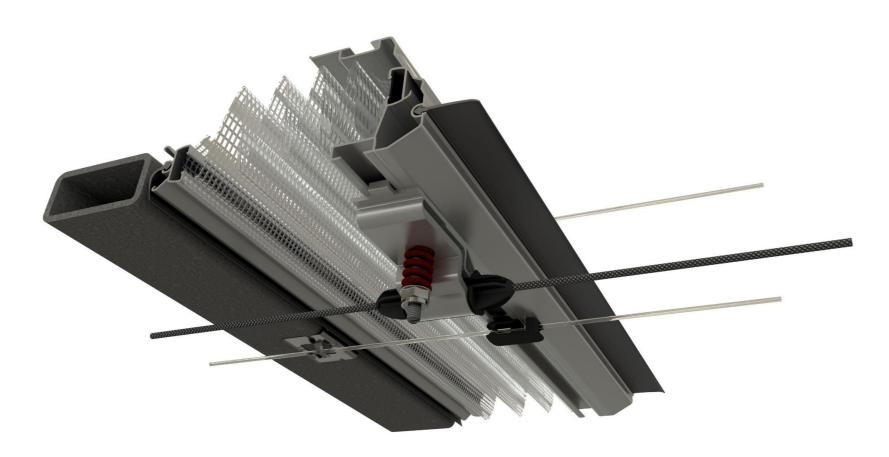


Van der Valk Horti systems





Manual - ValkScreenVision 2.0



Upper Screen

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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.
- * The order of installation in this manual is carefully chosen, but could be differ depending on the installation tools used.

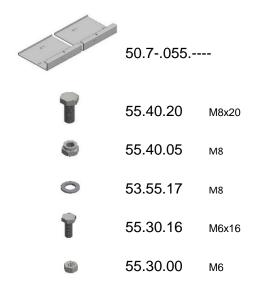


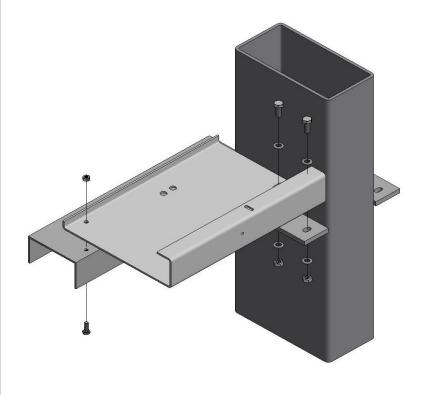
if you scan or click this QR-code you will be linked to the youtube playlist of all installation movies. you wil find a specific QR-code at the page.

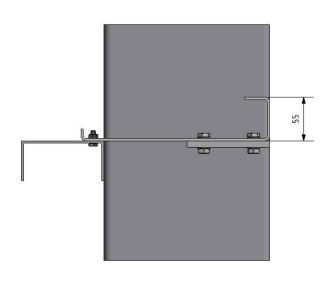
► Mounting screen plate



	(Gable Wa	I	
,				
		A1		B1
	<i>.</i>	•••		
=				
Side Wall				
S		•	-	
		A2 M	-	B2 .
		•		



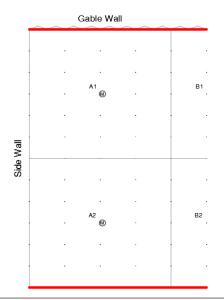




Note: The top of the screen strip is equal to the bottom of the trellis top chord.

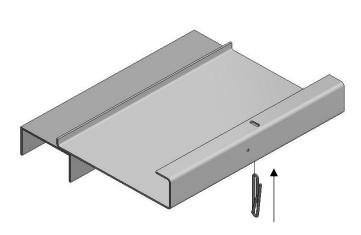
► Atlas wire clip

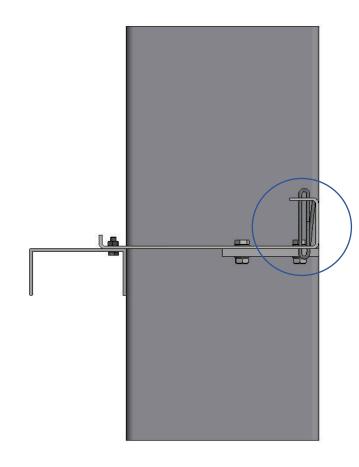






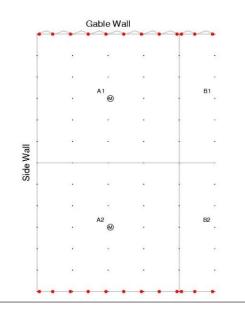
45.81.85





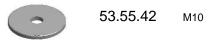
► ValkReversingWheel for screen plate

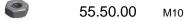


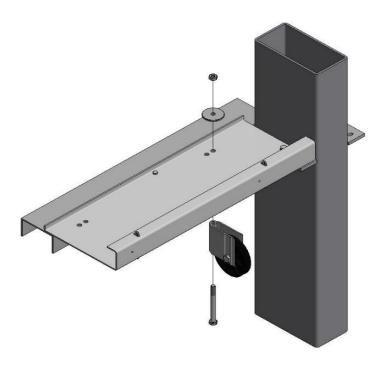


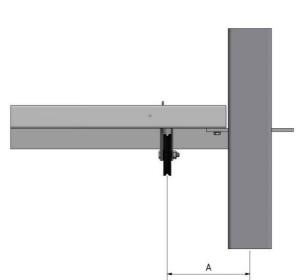




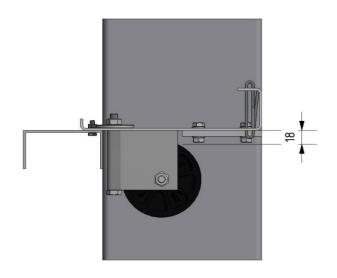








The screen plates are produced with 2 holes for the reversing wheels. Use 1 of the 2 holes.

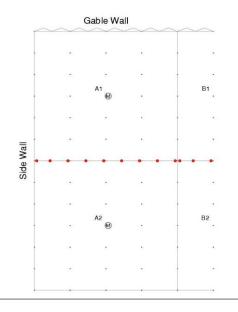


Note: When using the wire clip, the distance between the bottom of the screen plate and the pull wire is 18 mm.

For size A, see project specific file.

► ValkReversingWheel Double







(topcord width and height)

44.740.--black

(topcord width and height)

44.750.---.

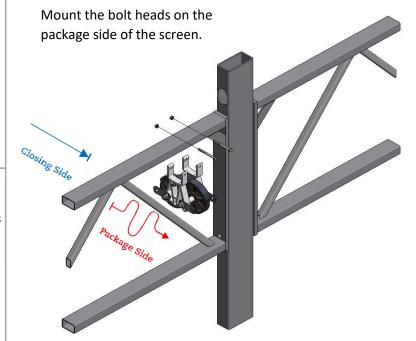


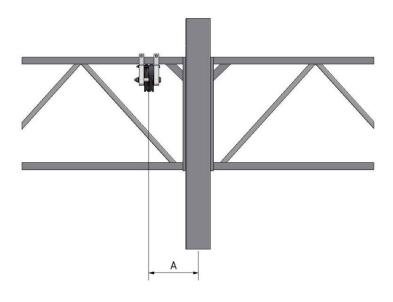
(trellis width + 15 mm)

55.30.--



55.30.00

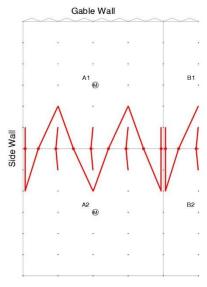


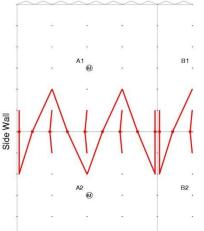


For size A, see project specific file.

► Bracing of ValkReversingWheel Double



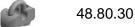






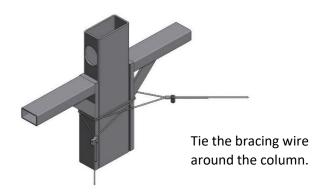






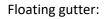


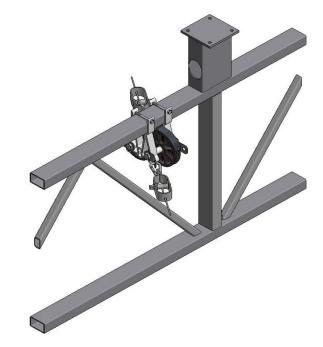
Bracing at the column:



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.



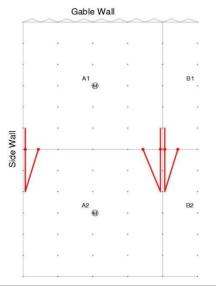






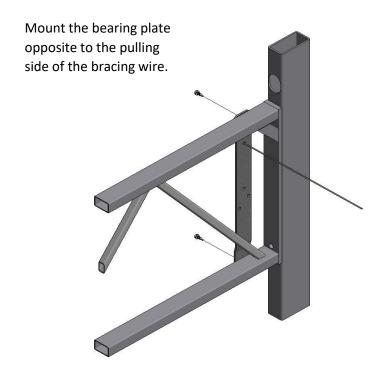
► Bracing of ValkReversingWheel at section ends









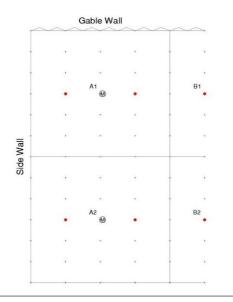




► ValkBearingBracket (2") at the post



160





44.82.16



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



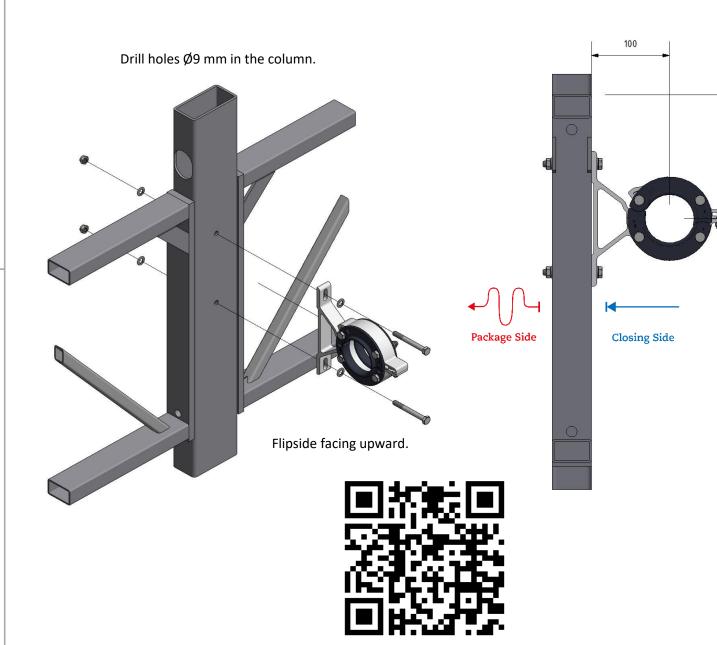
M8x----



55.40.00 M8

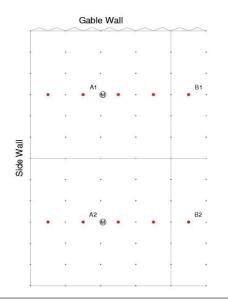


53.55.17 м8

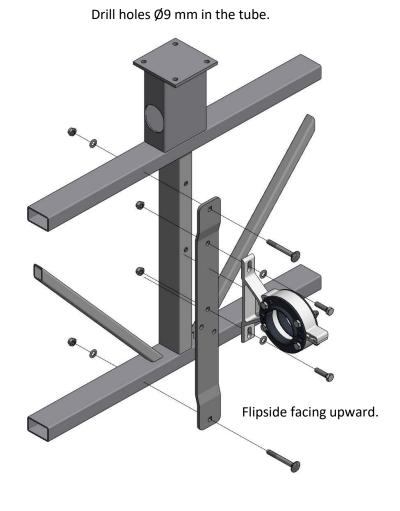


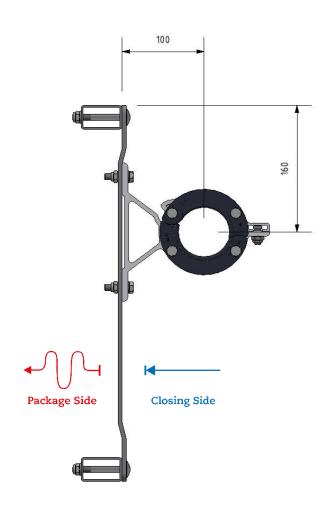
► ValkBearingBracket (2") at the floating gutter





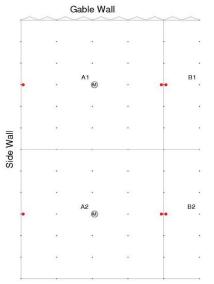




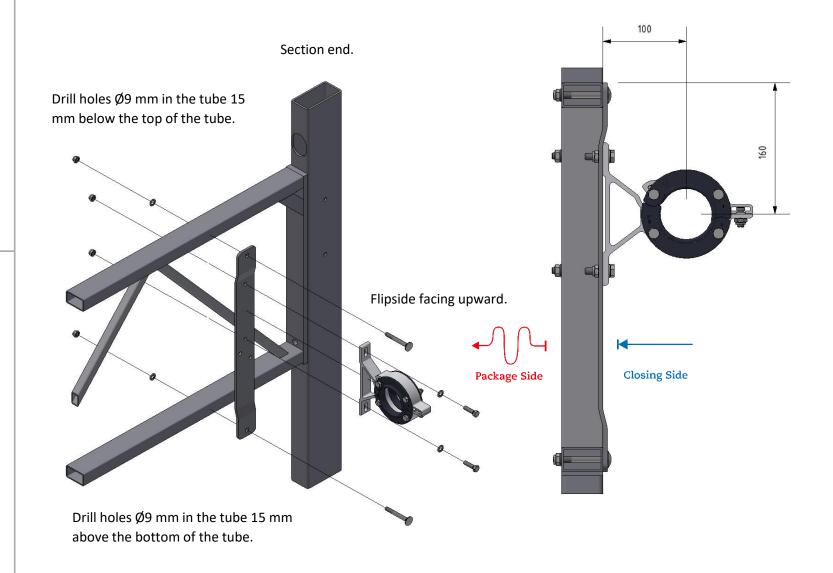


► ValkBearingBracket (2") at the section end



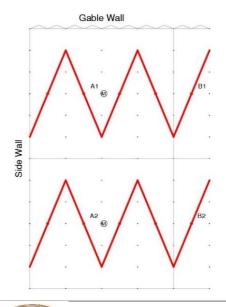






► Bracing the ValkBearingBracket at the floating gutter







48.10.17



48.80.40



48.80.12

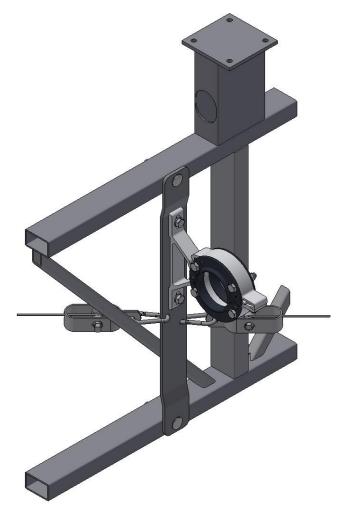


48.80.30



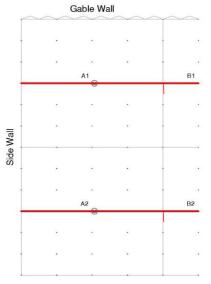
48.80.37





▶ ValkDriveShaft

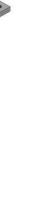




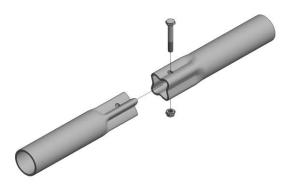




For tightening torque of the wire tensioner see chapter H.



At the section separation use a end cap.

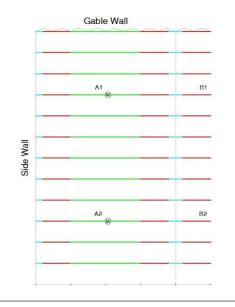


Attention: Slide the wire tensioner on the shaft before installing.

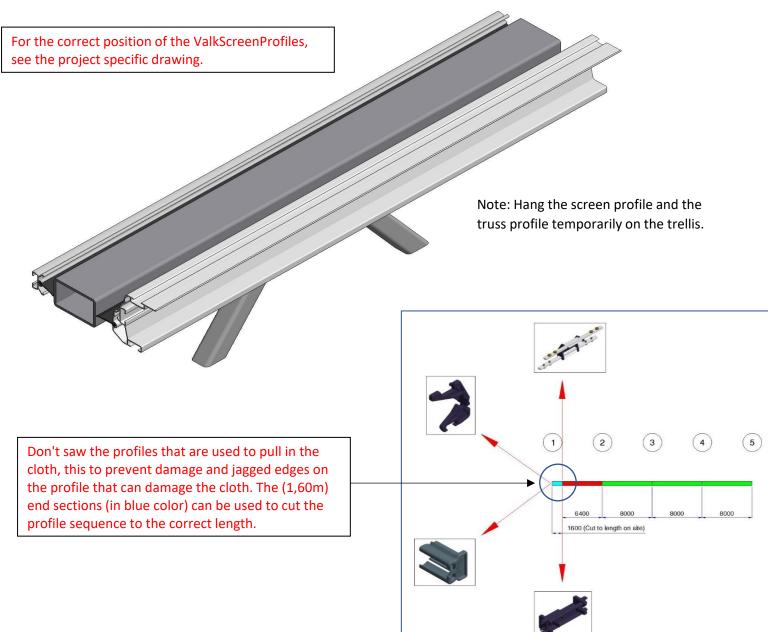


► ValkScreenProfile - ValkScreenVision 2.0



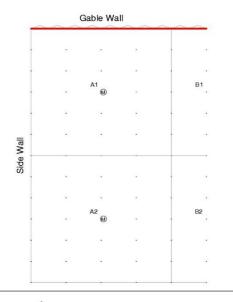






► ValkTrussClip at the gable wall







45.20.01

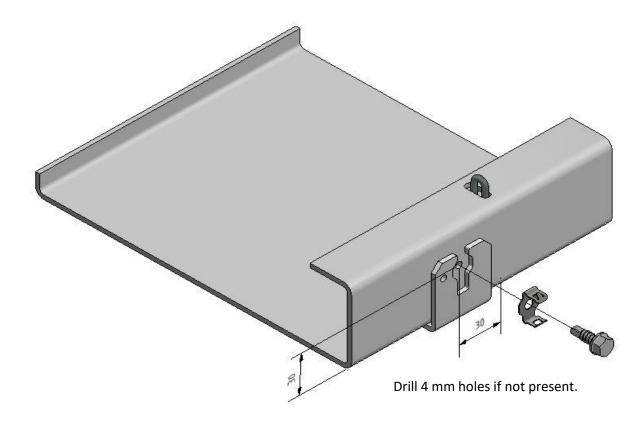


53.57.20



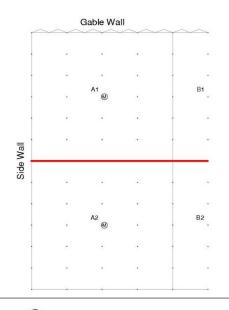
45.20.00 Assembly tool.

Screen plate at the package side of the screen.



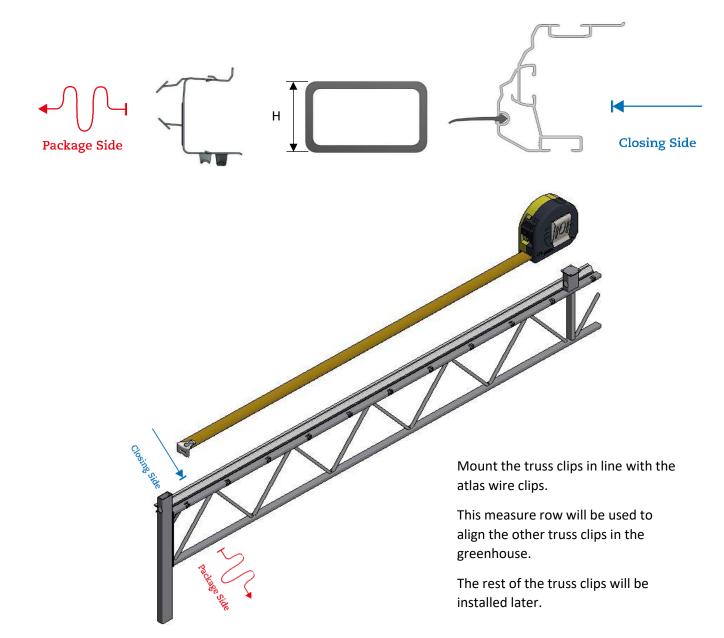
► Measure row - ValkTrussClips





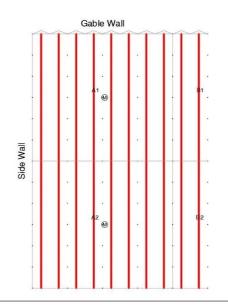


H+3 mm 45.20.--

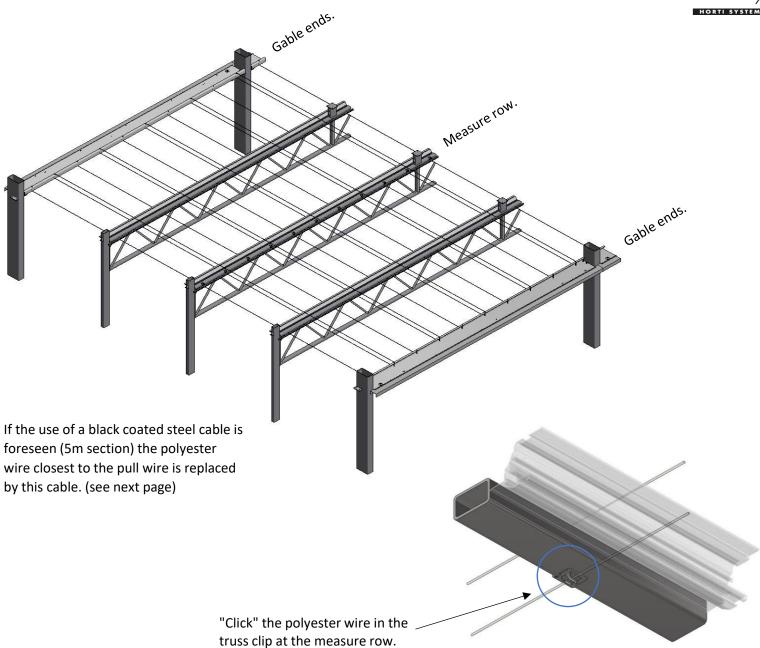


▶ Polyester wires



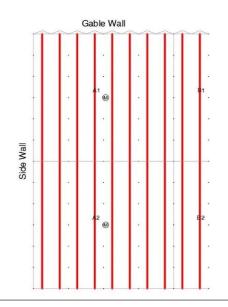






► Extra black coated steel support cable







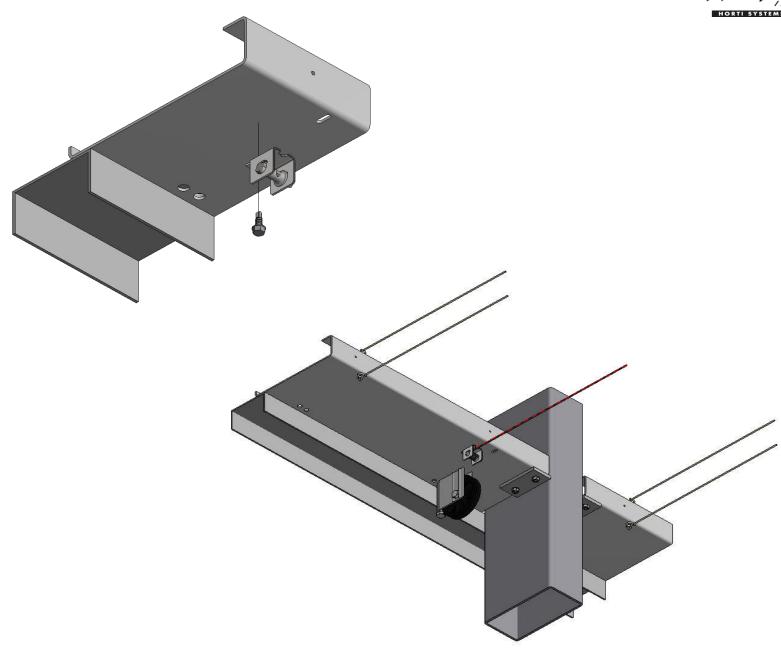
48.20.15



48.80.10



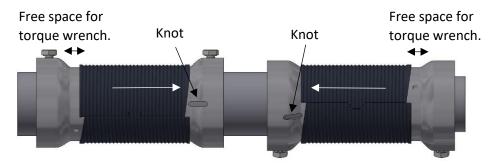
53.57.20



▶ Pull wire



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.

Hole to indicate 22,5 windings. Hole to indicate 24,5 windings.



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.

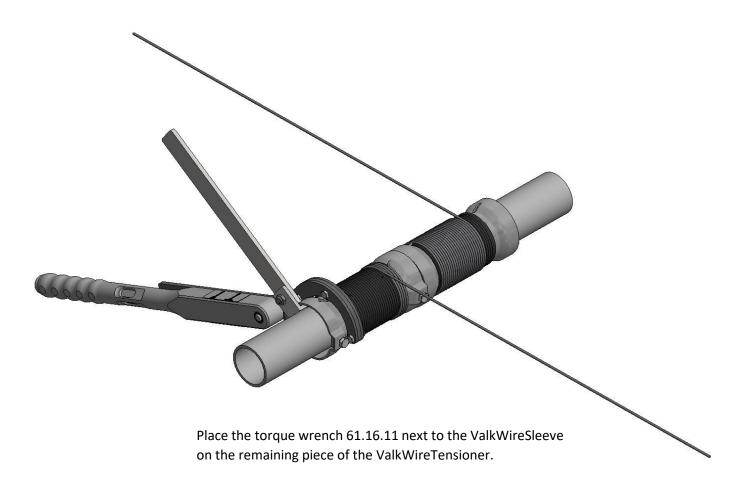


For the required wire tension, see page H2 and H3



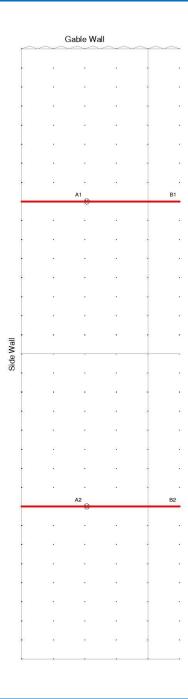


The tools listed above are optional and not standard provided with a screen system. You could order them at Van der Valk Systems.



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



3 kg

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



6 kg

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

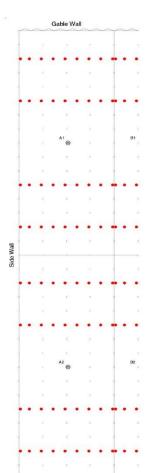


Attention:

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.

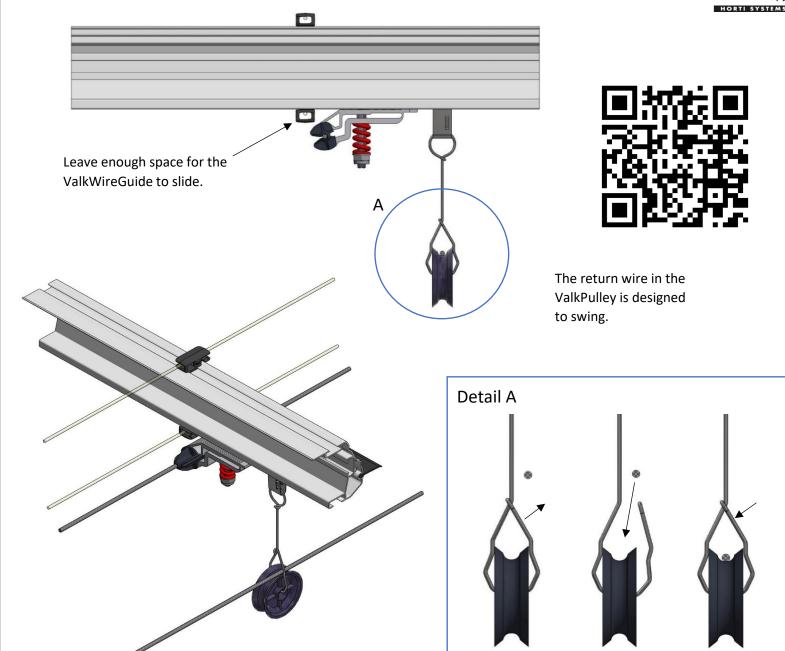
► ValkPulley





Mount the ValkPulley every 3rd section.

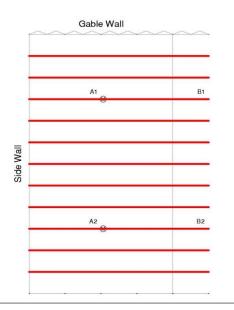




► VSV ValkTrussClip

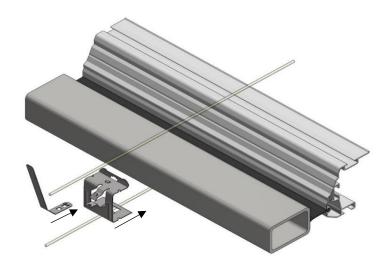


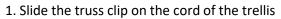
Note: Section J till P could be installed in one sitting.



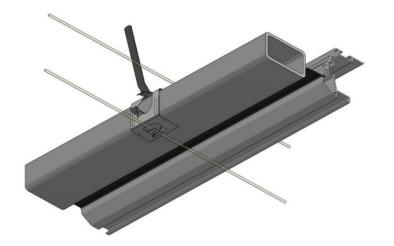


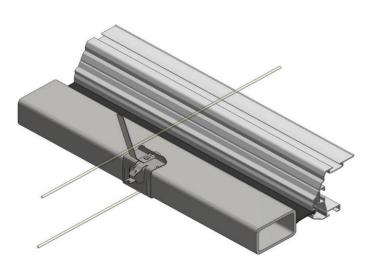
45.22.12



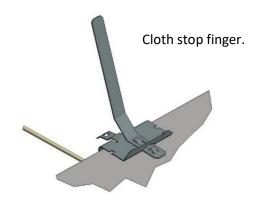


- 2. 'Click' the cloth stop finger on the truss clip.
- 3. Check if the stop finger is used every truss clip.



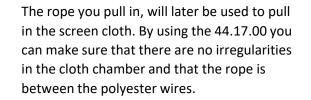


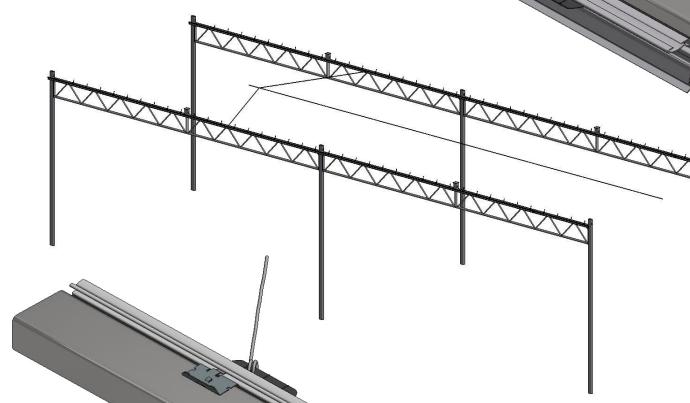
Make sure the polyester wire is secured by the 2 lips in the truss clip.



▶ Cloth pull rope









48.55.03

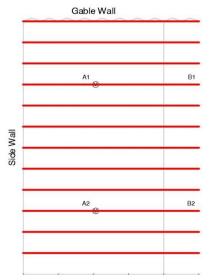


44.17.00

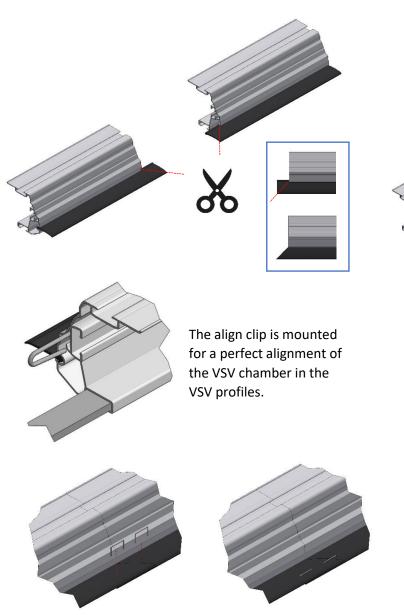
We assume that 44.17.00 is re-used for pulling in the cloth. If you do not re-use them, order them from Van der Valk Horti systems.

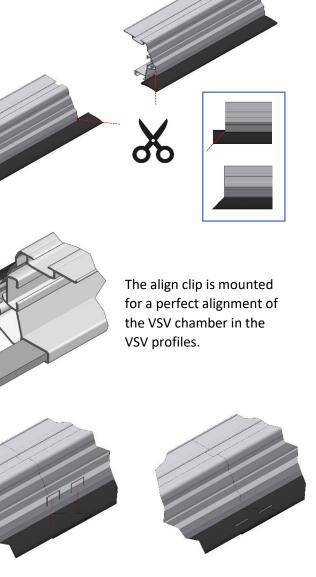
► Coupling ValkScreenVision profile















For the profile sequence see page E1 or the project specific drawing.

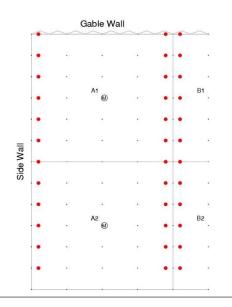
Slide the profiles over the align clip

and the coupling plate.

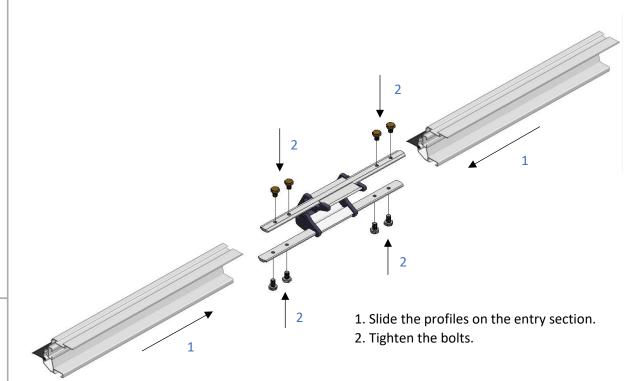
Attach the 2 rubber ends together with 2 staples.

► Entry section VSV 2.0 profile





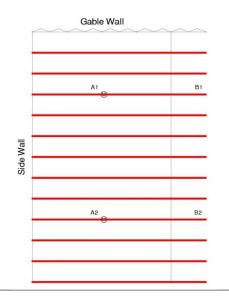




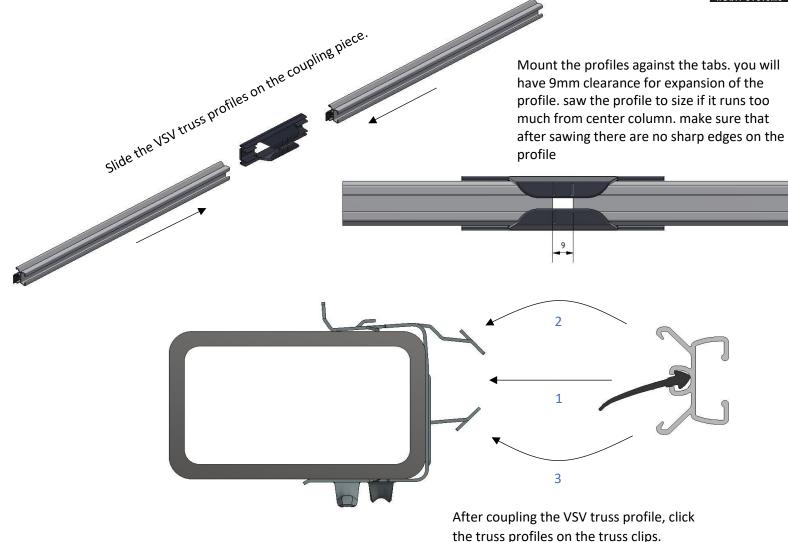
Position the entry section so that there is a free path for the cloth during pulling in the cloth. Be aware that the cloth also has to slide over the PVC cloth guiding tube, which must be installed in the trellis.

► Coupling VSV 2.0 ValkTrussProfile







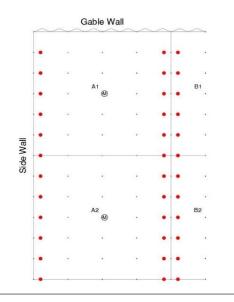


Note: Couple the truss profile at the column, except when the the column width and trellis with are not equal. than the coupling must be at least 1 truss clip away from the column.

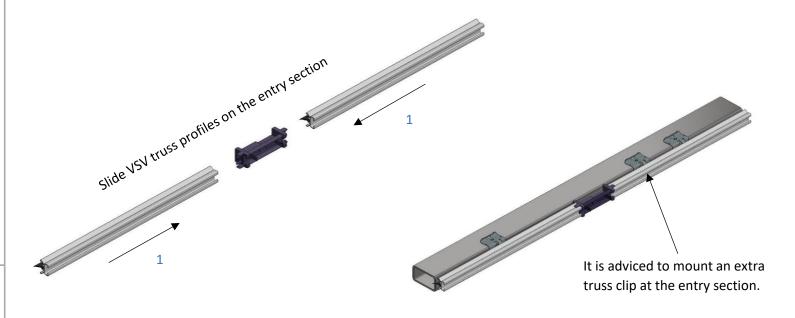
For installing the entry section see page M4.

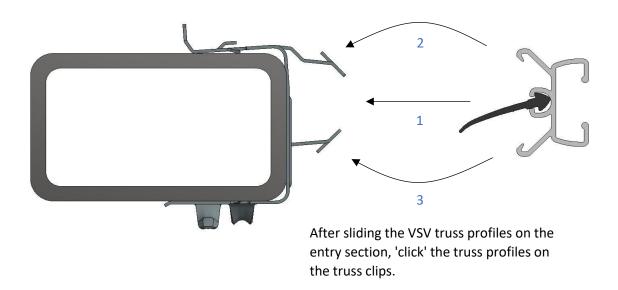
► Entry section VSV 2.0 ValkTrussProfile





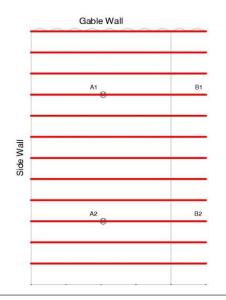






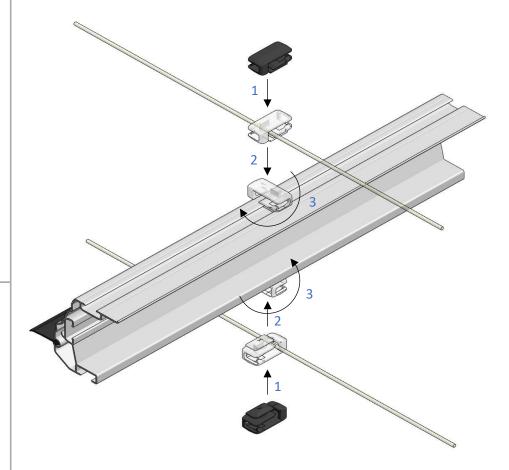
▶ ValkWireGuide





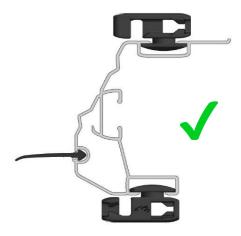


44.15.27

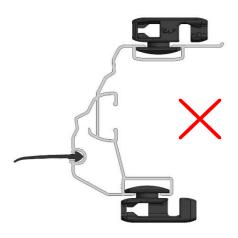




- 2. Insert the wire guide block in de profile chamber.
- 3. Turn the wire guide block until the wire 'clicks' in the wire guide block, make sure the opening is on the correct side, see the pictures on the right.

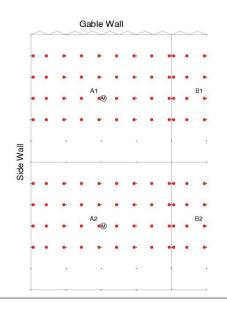


Mount the wire guide blocks with the opening as shown.



▶ ValkKliMax



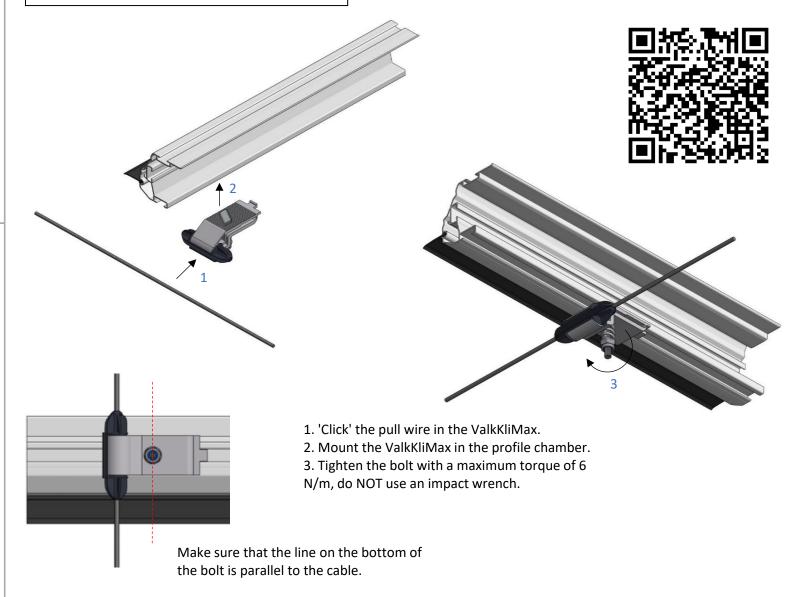




44.40.34 (green spring 3 kg) 44.40.35 (blank spring 6 kg) 44.40.36 (red spring 9 kg)

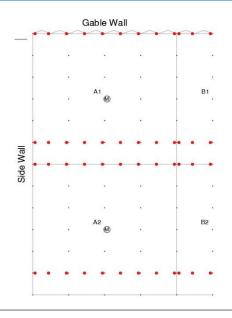
See project specific drawing for mounting the correct ValkKliMax at the correct location!

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



► ValkKliMax Slide





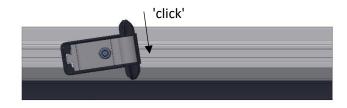


44.40.44 (green spring, 3 kg) 44.40.45 (blue spring, 6 kg) 44.40.46 (black spring, 9 kg)

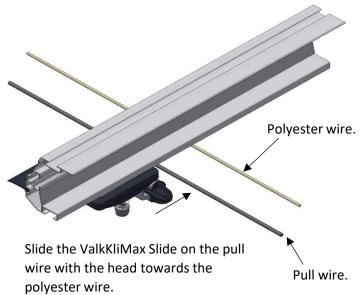


See project specific drawing for mounting the correct ValkKliMax Slide at the correct location!





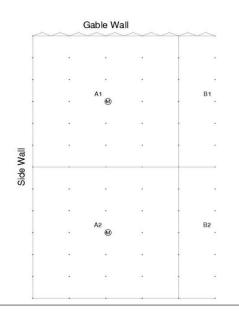


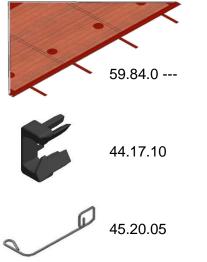


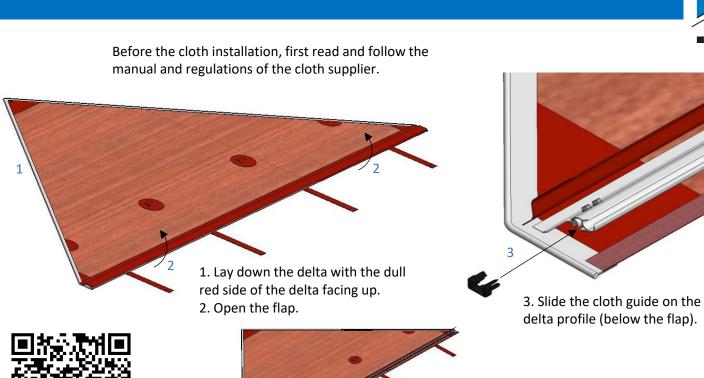


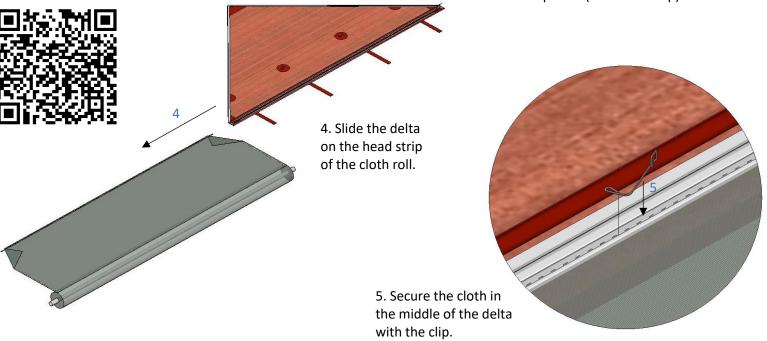
Maximum tightening torque 6 Nm, do NOT use an impact wrench.





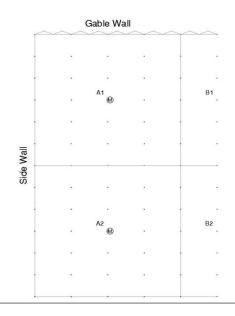




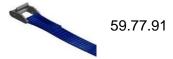


► Front runner











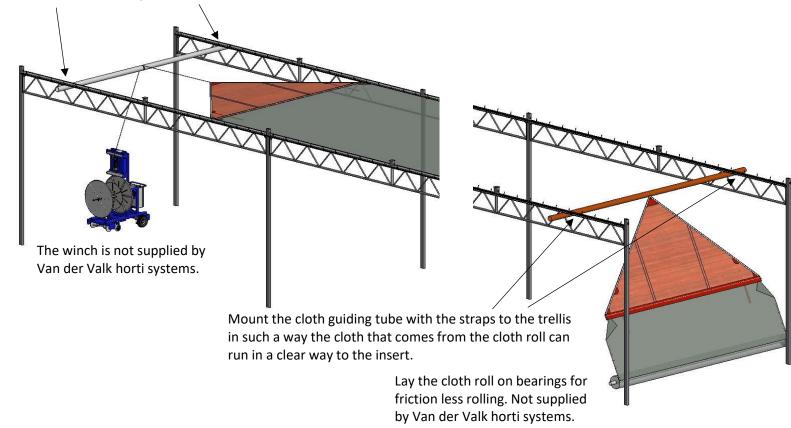




"Click" the front runners at the front end of the strips for a smooth conduction trough the profiles.

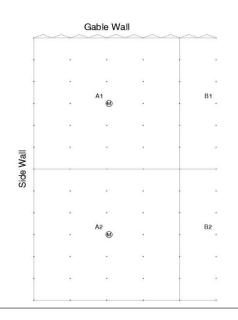
Mount with the protruding part of the front runners facing each other so that the front runners fits trough the profile chambers. Before clicking the front runners on the strips check the top and bottom side of the cloth.

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.



▶ Cloth pulling in

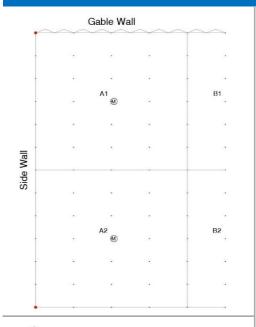






Cloth hangdown - VSV







44.84.25



55.40.20 M8x20



55.40.05 M8



48.80.10



55.30.16 M6x16



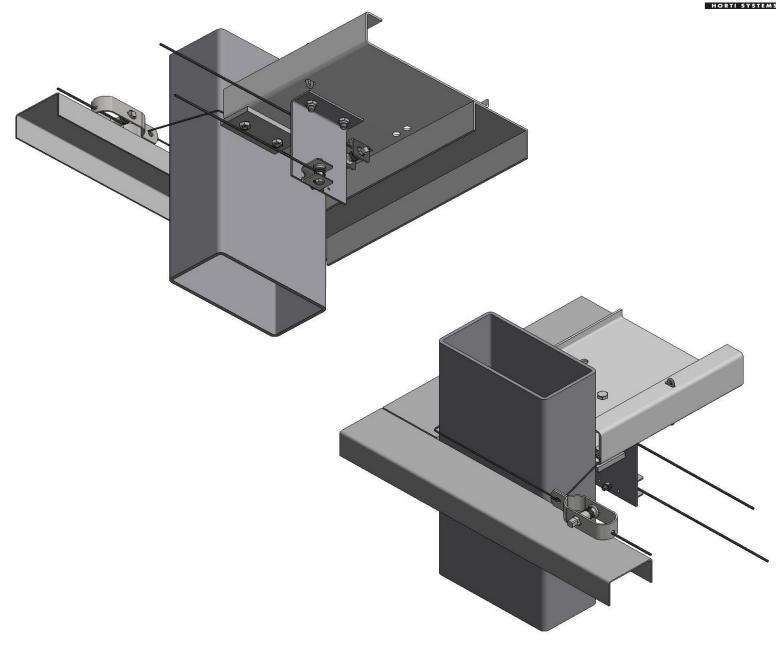
55.30.00 M



48.20.15

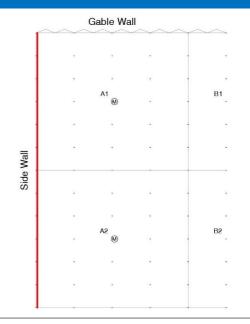


48.80.12



► Cloth hangdown - VSV



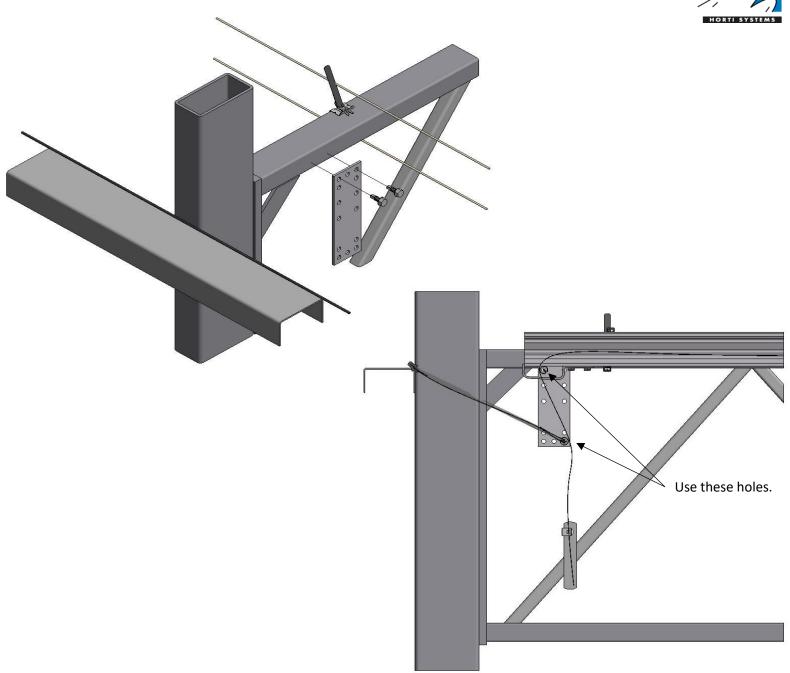




44.27.15

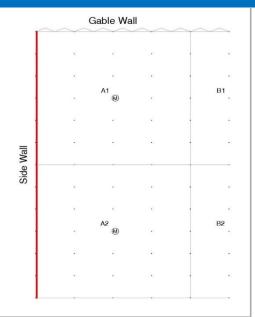


53.57.20



► Cloth hangdown - VSV









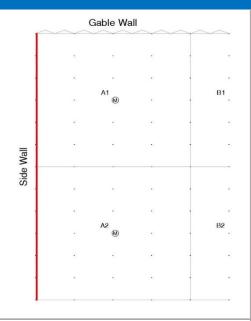


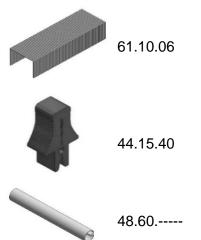
44.17.11

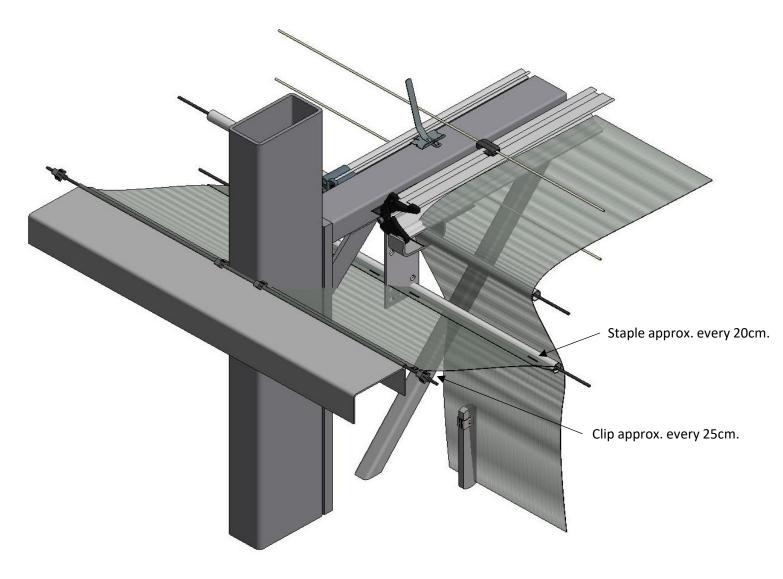


► Cloth hangdown - Fixed cloth - Side wall



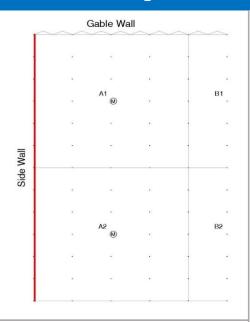






► Cloth hangdown - Fixed cloth side wall







44.70.25



45.45.50



44.15.20

