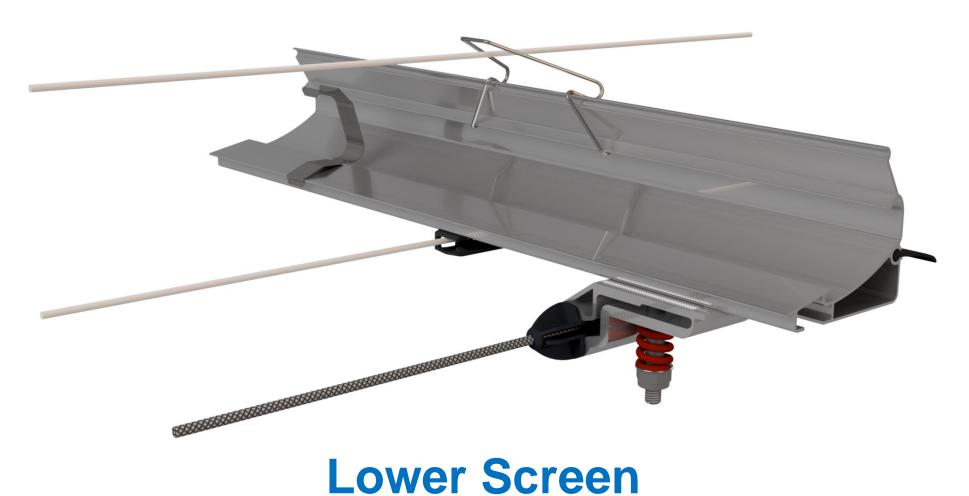
Van der Valk Horti systems



Manual - ValkClip



Van der Valk Horti Systems | ValkClip - Lower Screen | Manual v2.08



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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.

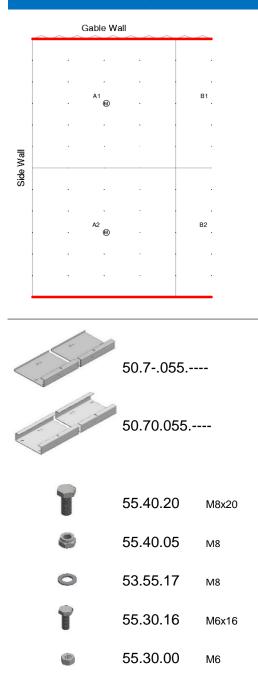
* The order of installation in this manual is carefully chosen , but could be differ depending on the installation tools used.

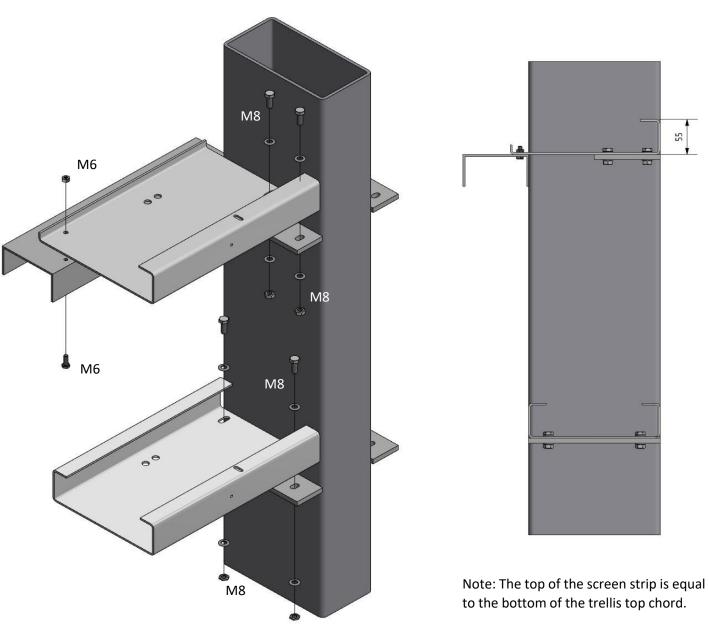


if you scan or click this QR-code you will be linked to the youtube playlist of all installation movies. you wil find a specific QR-code at the page.

Mounting screen plate

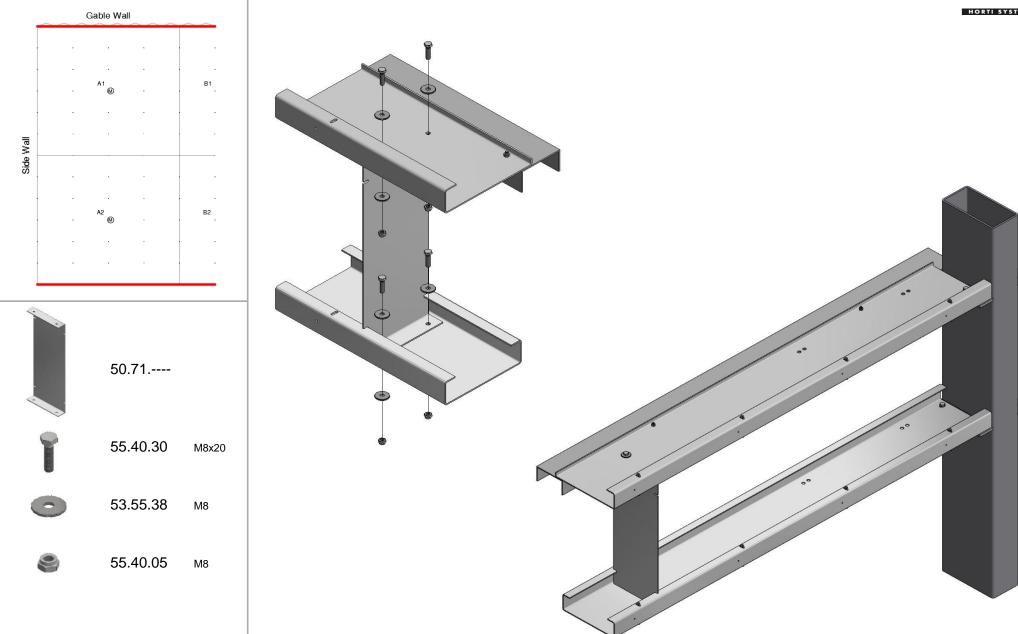






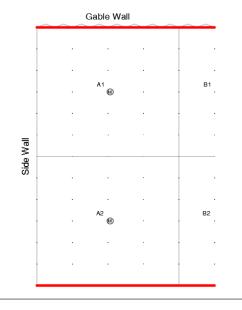
Atlas wire clip

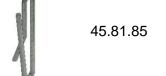


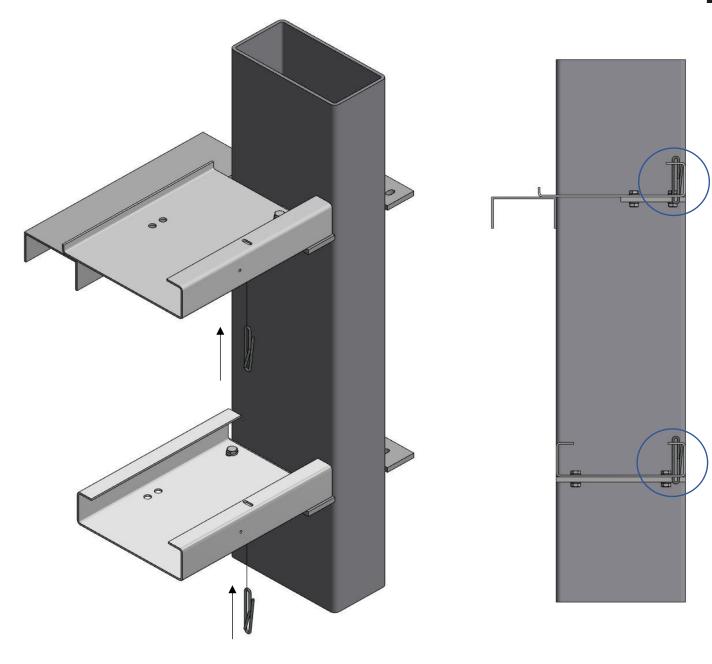


Atlas wire clip



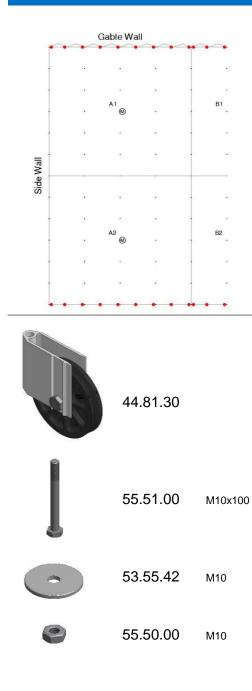


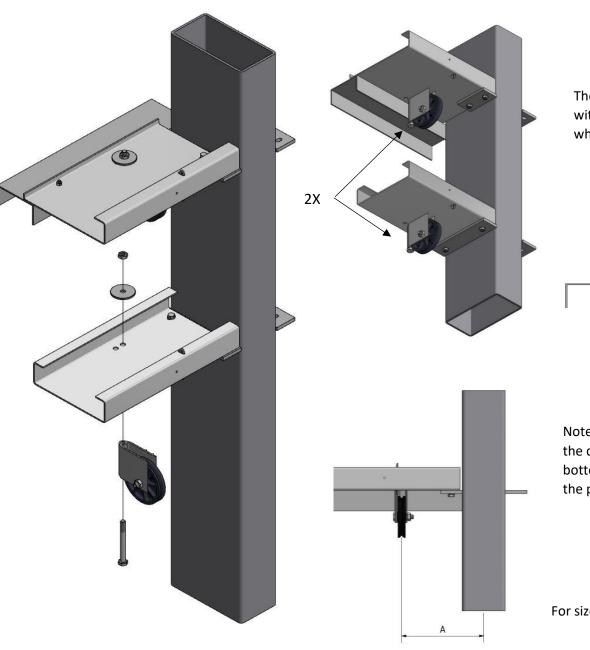




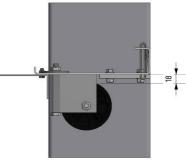
ValkReversingWheel for screen plate







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

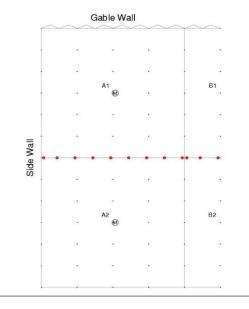


Note: When using the wire clip, the distance between the bottom of the screen plate and the pull wire is 18 mm.

For size A, see project specific file.

ValkReversingWheel Double



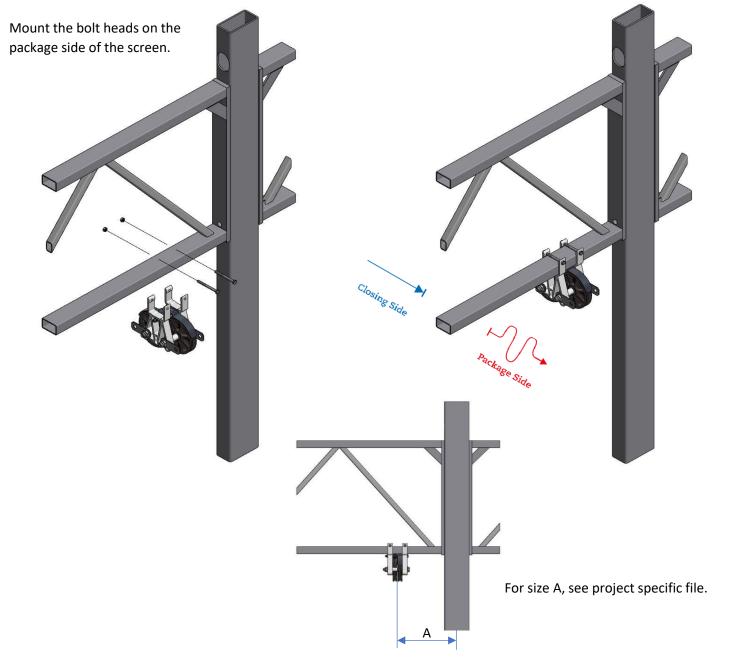


(topcord width and height) 44.740.---- black (topcord width and height) 44.750.---- gray



(trellis width + 15 mm) 55.30.--

55.30.00

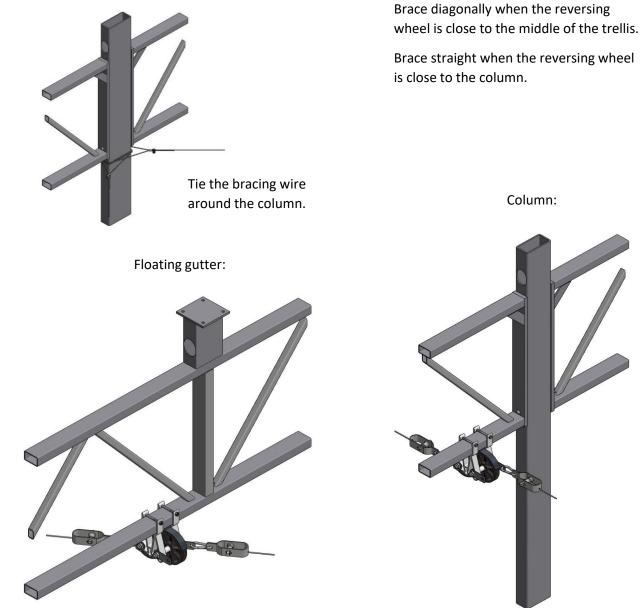


Bracing of ValkReversingWheel Double



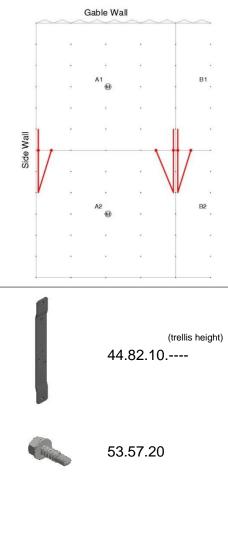


Bracing at the column:



Bracing of ValkReversingWheel at section ends



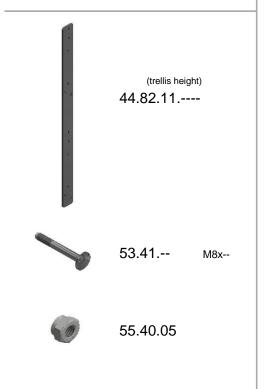


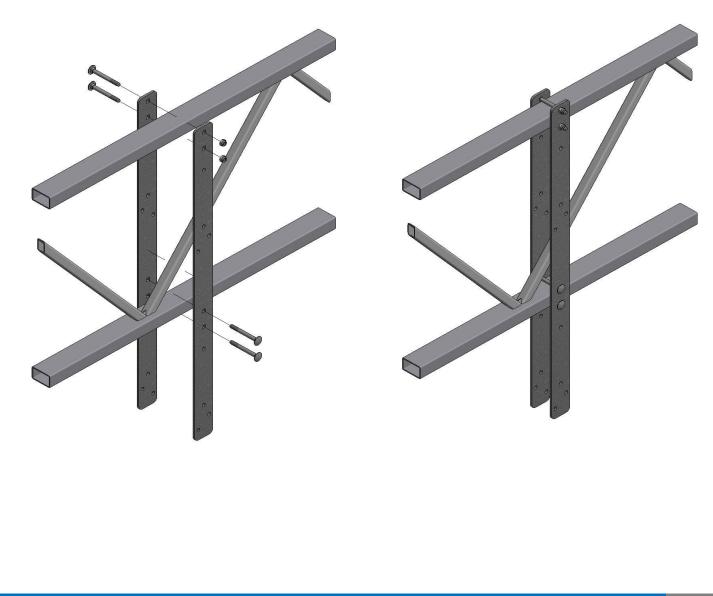


ValkBearingBracket (2") - Double bearing plate



See project drawing for position.





ValkBearingBracket (2") - Double bearing plate



See project drawing for position.







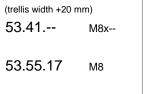
50

53.41.--

55.40.05

44.82.16

44.85.--



M8



Bracing the ValkBearingBracket - Double bearing plate



See project drawing for position.

48.10.17

48.80.40

48.80.12

48.80.30

48.80.37

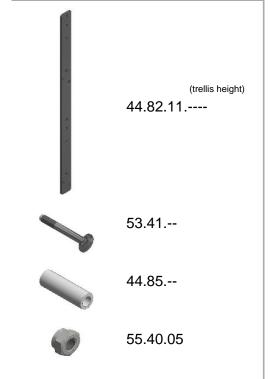
A

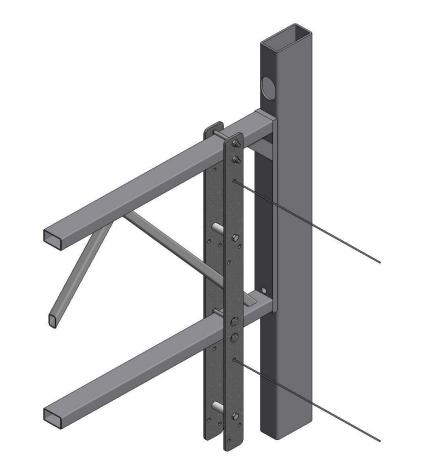


Bracing of ValkBearingBracket - Double bearing plate at section ends



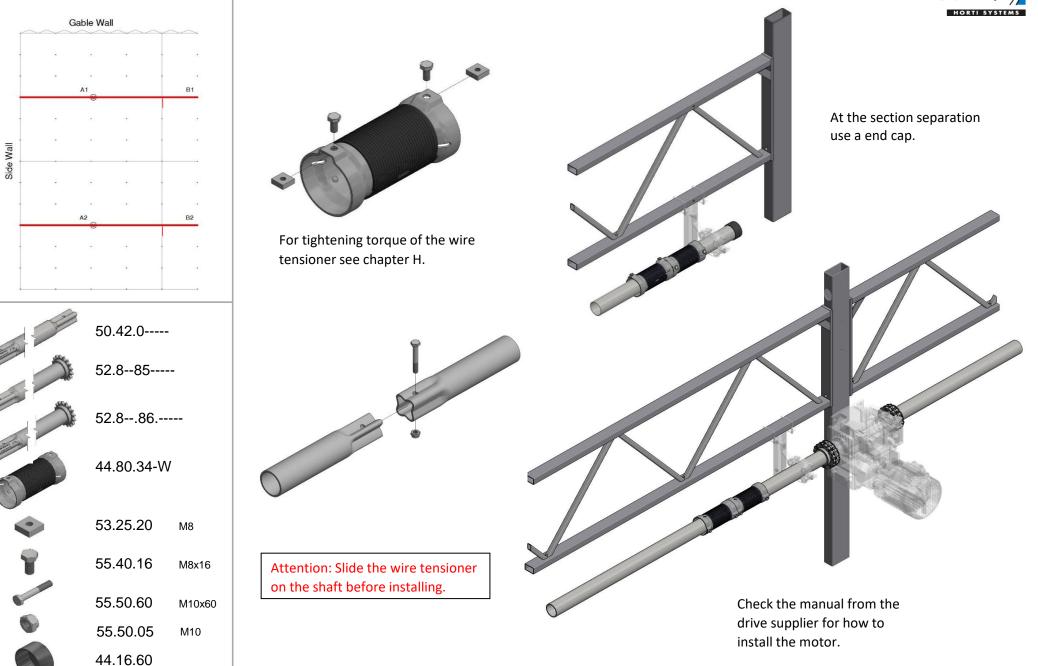
See project drawing for position.





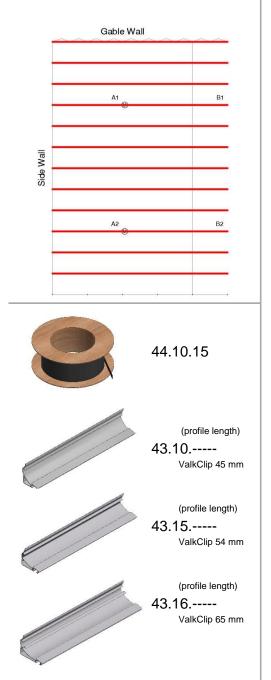
ValkDriveShaft

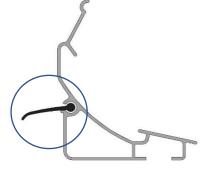




ValkScreenProfile - ValkClip







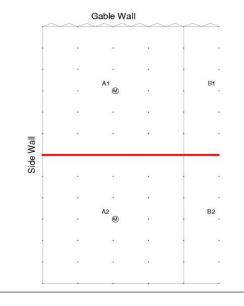
Make sure the rubber sealing strip is pointing downwards.

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

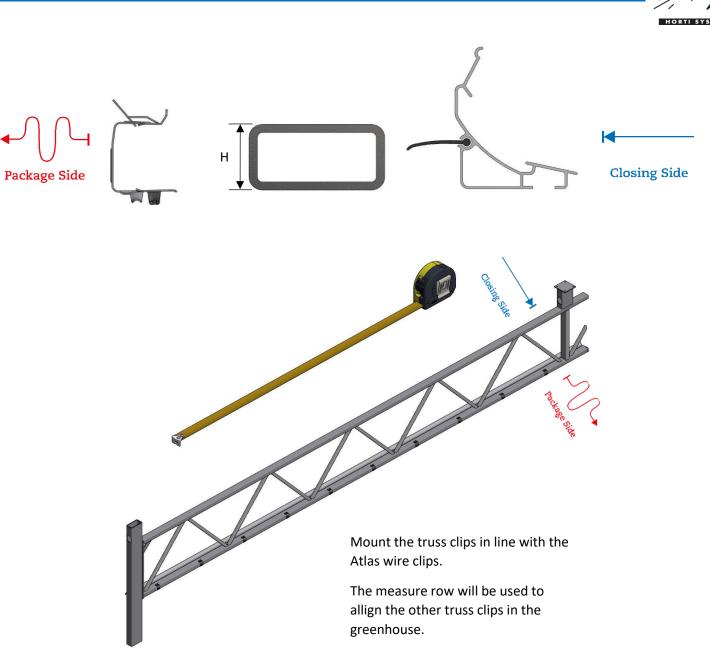
Hang the screen profile temporarily on the trellis.

Measure row - ValkTrussClips



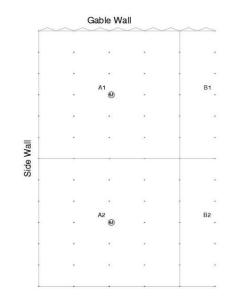




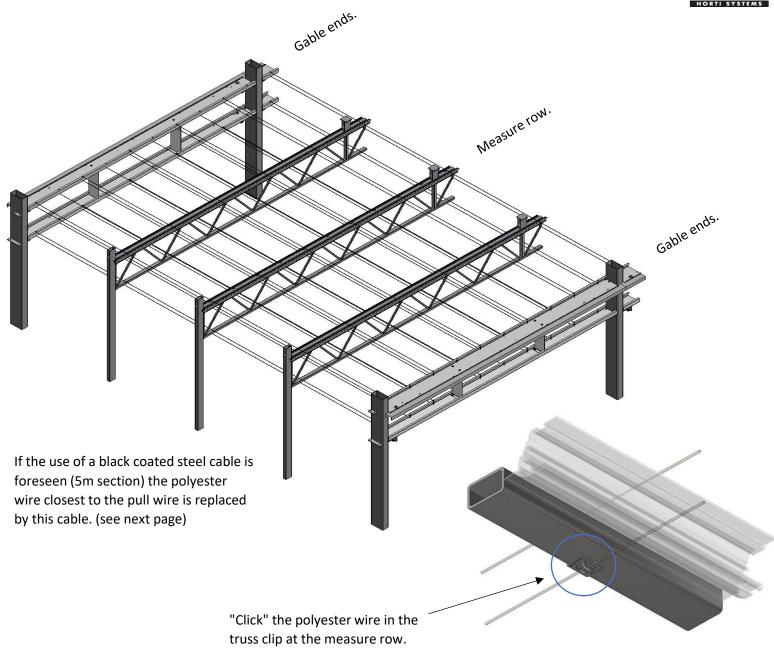


Polyester wires



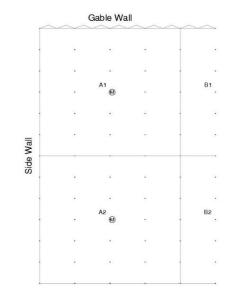


48.50.30



Extra black coated steel support cable





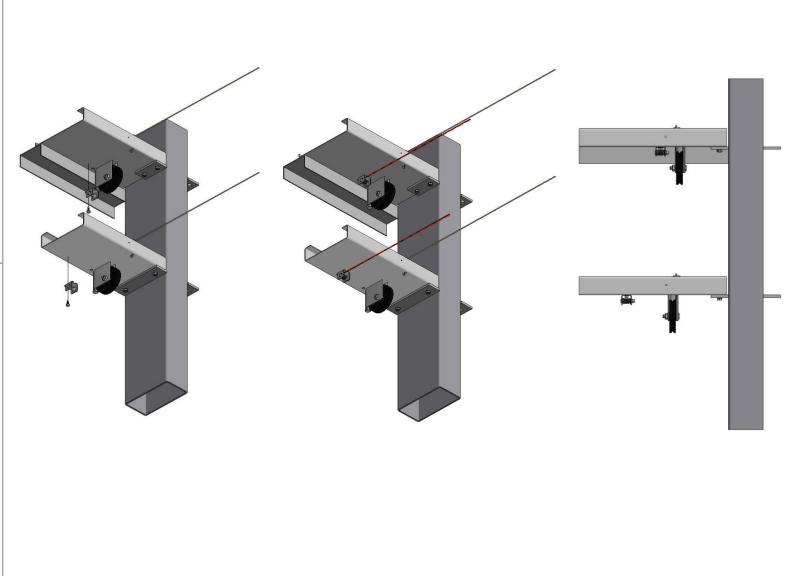




48.80.10

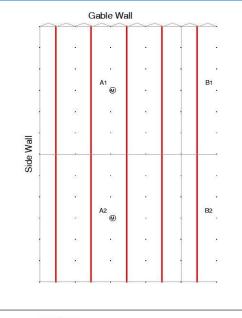


53.57.20



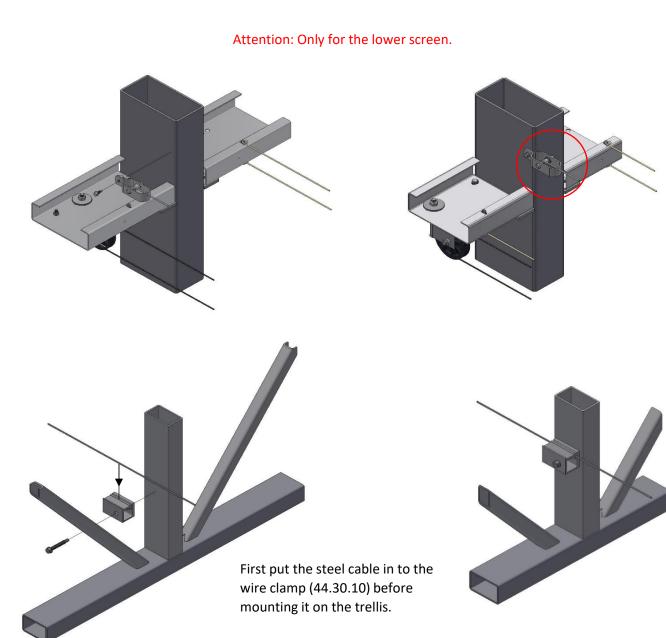
Fixation of trellis with steel cable







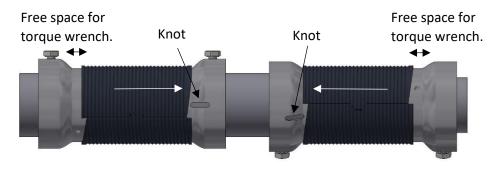




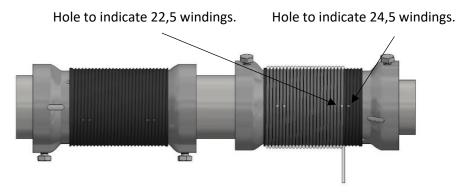
Pull wire



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.



5	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.



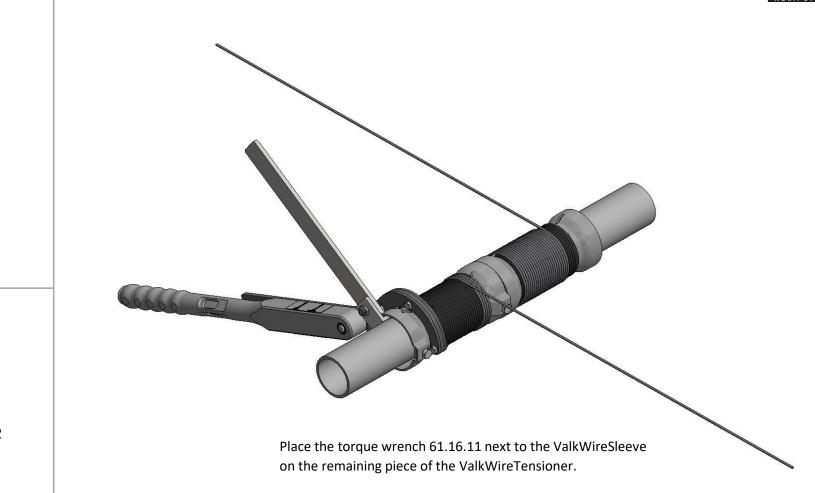
5. Finally, the wire should be wound on the ValkWireTensioner as shown in the picture below.



For the required wire tension, see page H2 and H3

Pull wire





For the required wire tension see page 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.

Pull wire



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		A1			B1
		Ĵ			
Wall					
Side Wall					
					10
					2
		A2			B2
		÷			
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		~			

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			

(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)

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.

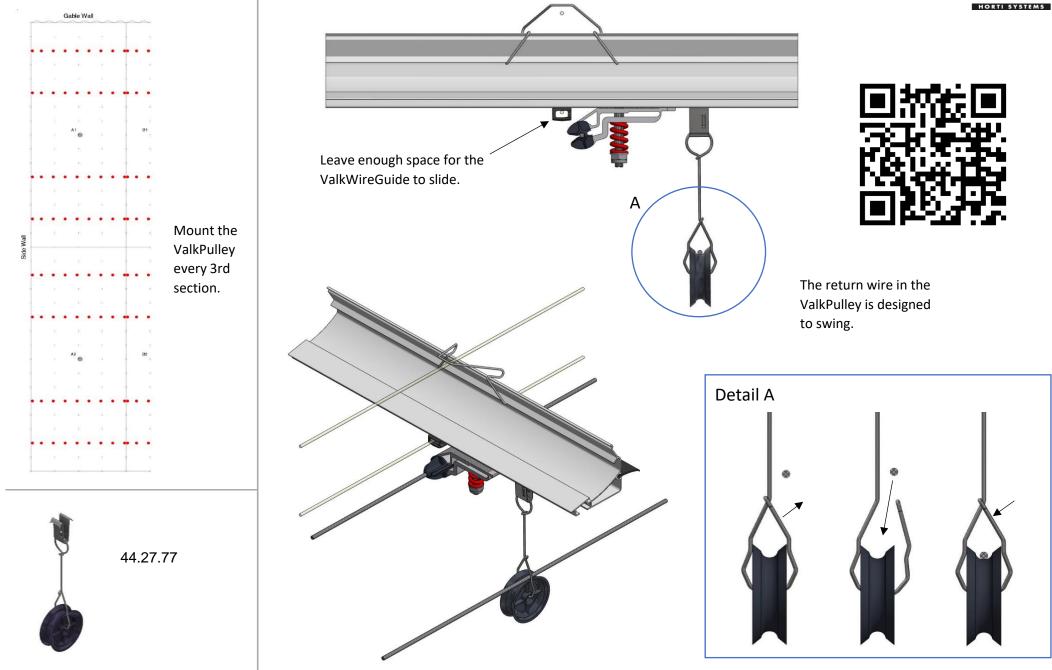






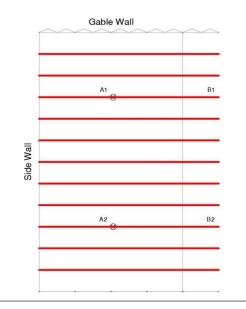
ValkPulley



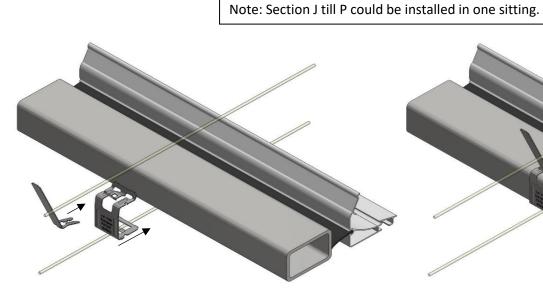


ValkTrussClip



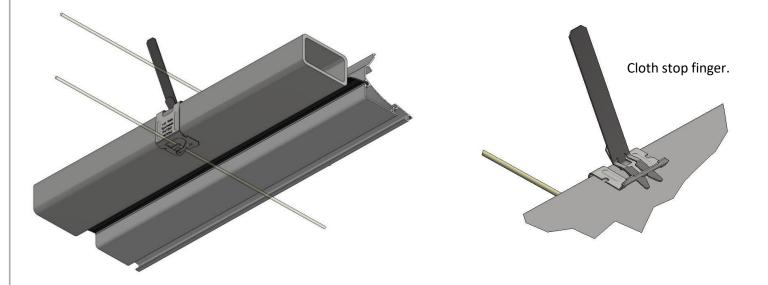




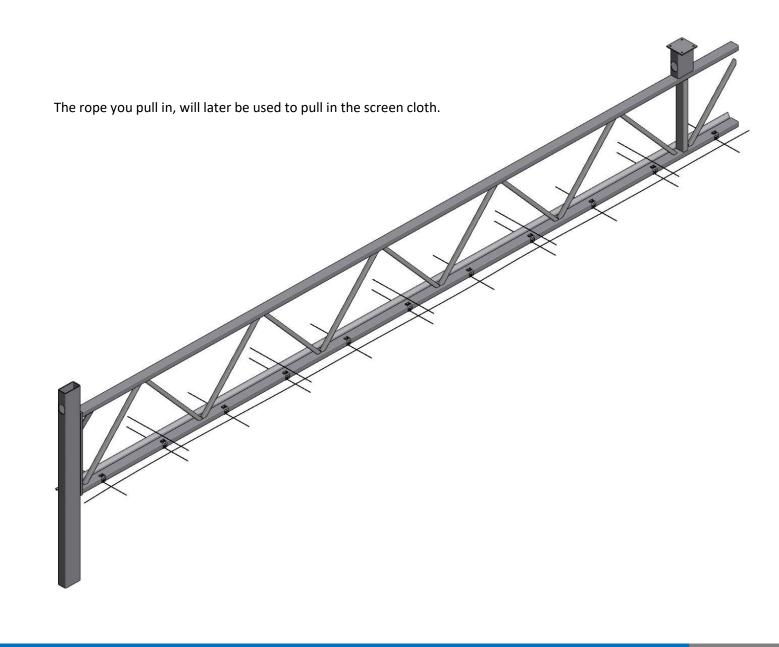


Slide the truss clip on the cord of the trellis 2.
'Click' the cloth stop finger on the truss clip.
Check if the stop finger is used every truss clip.

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



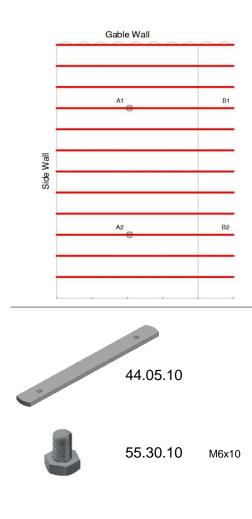


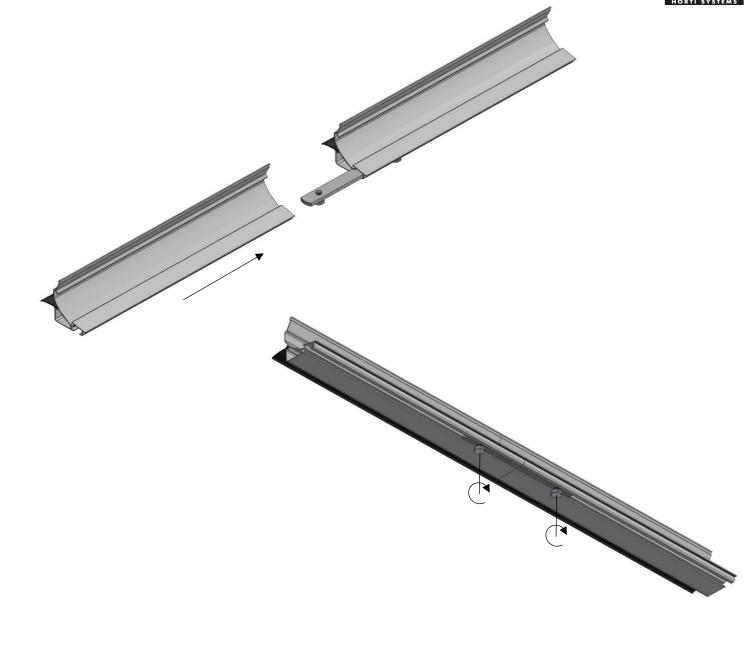




Coupling ValkClip profile

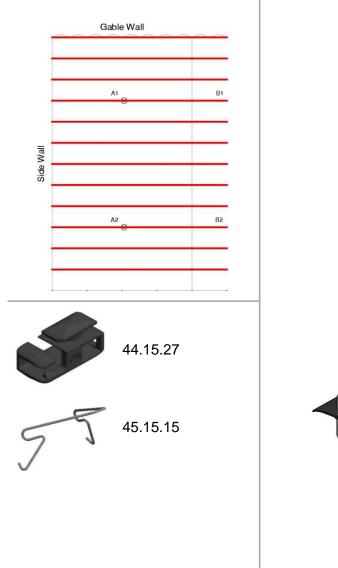


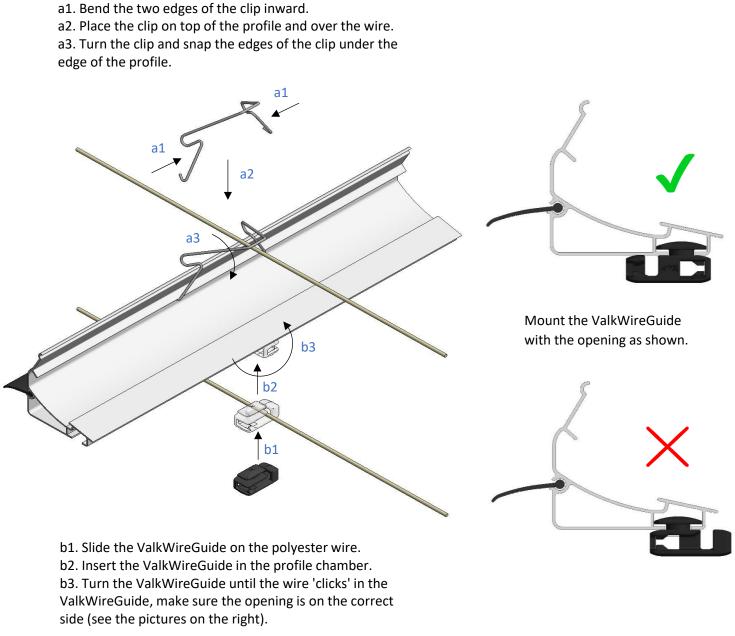




ValkWireGuide

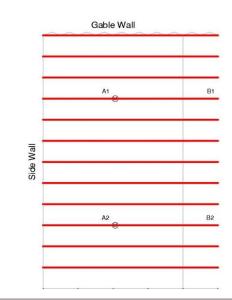




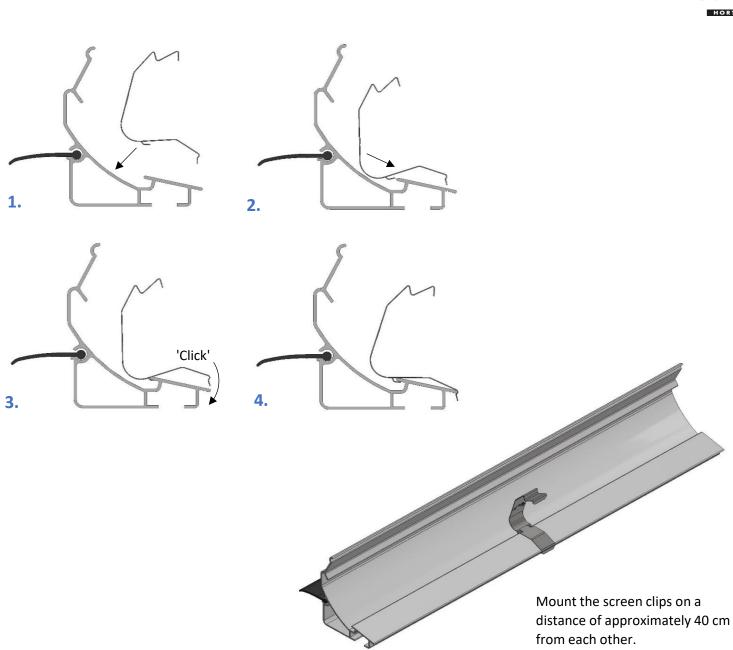


ValkScreenClip



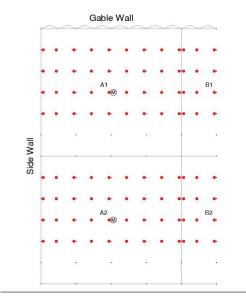






ValkKliMax



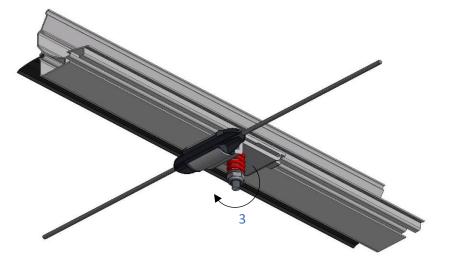




44.40.34 (green spring 3 kg) 44.40.35 (blank spring 6 kg) 44.40.36 (red spring 9 kg) See project specific drawing for mounting the correct ValkKliMax at the correct location!

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

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



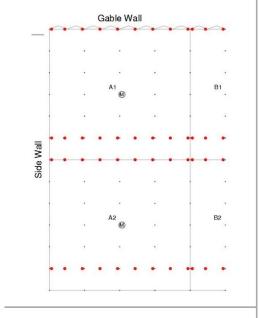
 'Click' the pull wire in the ValkKliMax.
Mount the ValkKliMax in the profile chamber.
Tighten the bolt with a maximum torque of 6 N/m, do NOT use an impact wrench.

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



ValkKliMax Slide

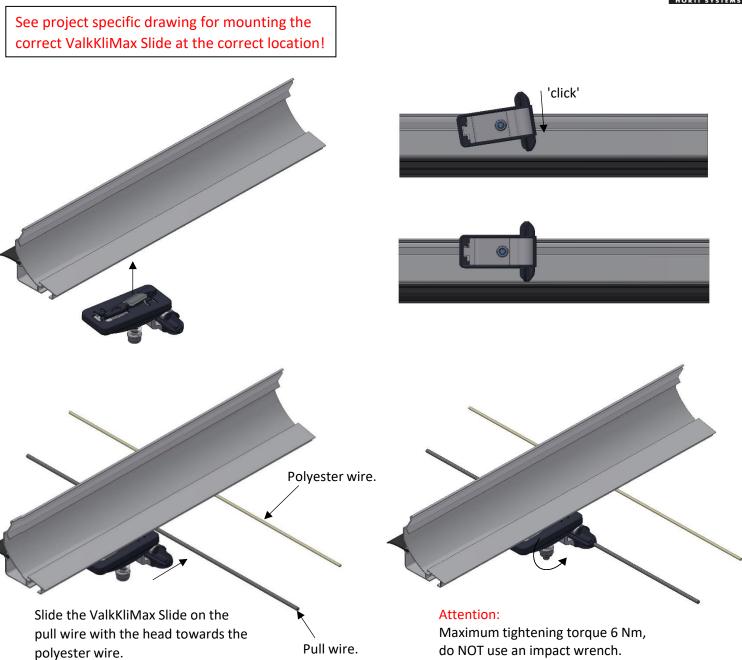






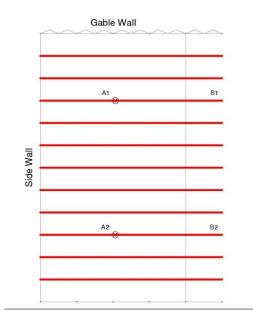
44.40.44 (green spring 3 kg) 44.40.45 (blue spring, 6 kg) 44.40.46 (black spring 9 kg)



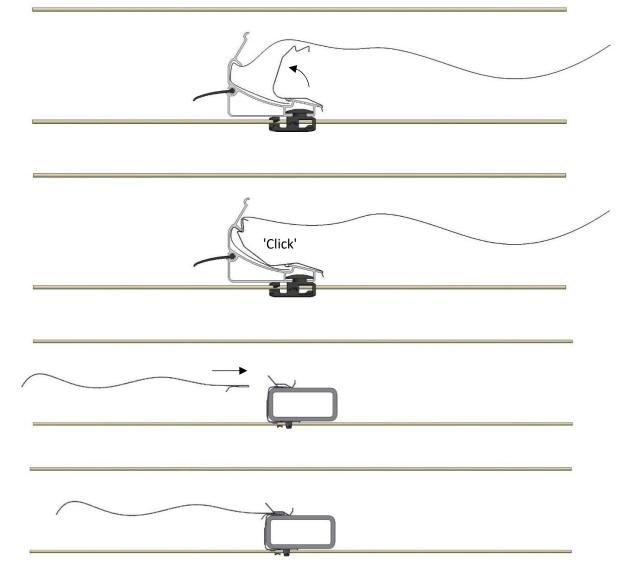


Attachment of cloth to ValkScreenProfile and trusses





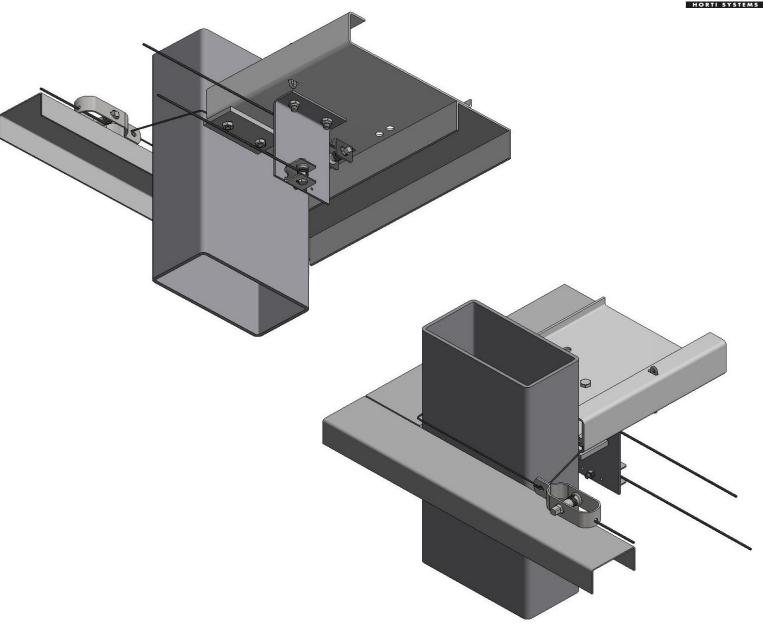
Retract the screen cloth according to the regulations from your cloth supplier.



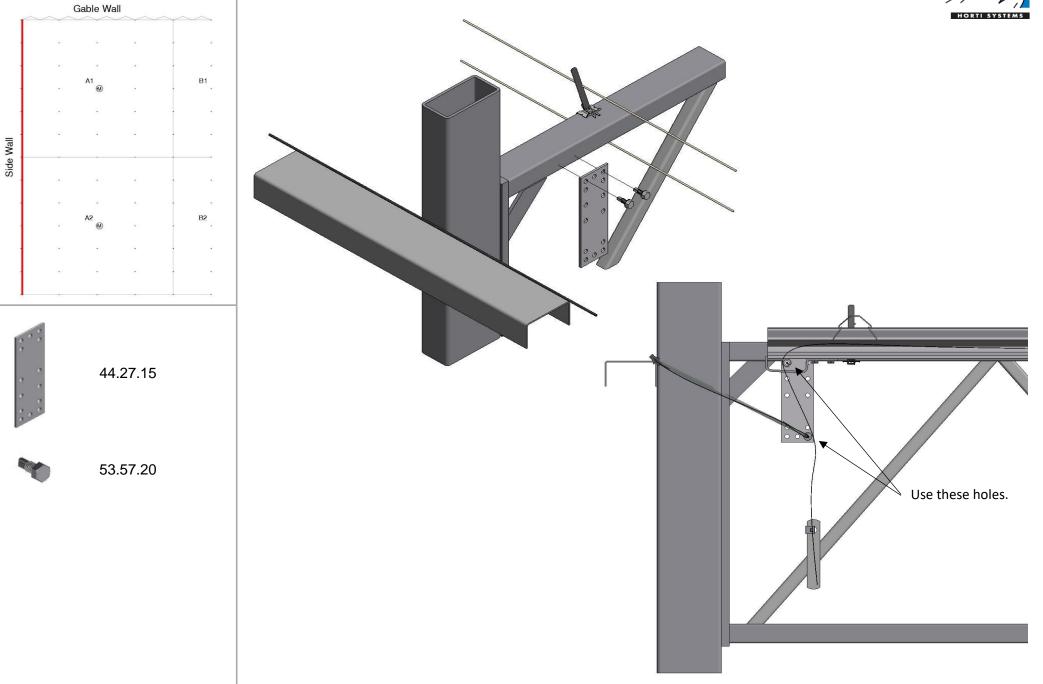
To attach the cloth to the ValkTrussClips, use for example a flexible putty knife.



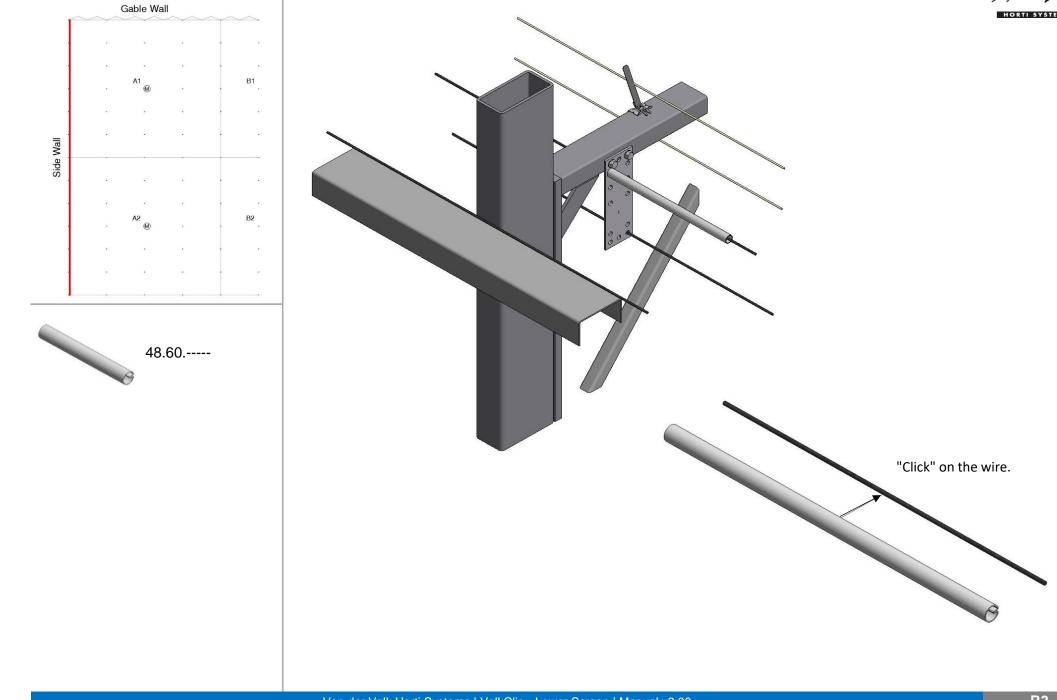


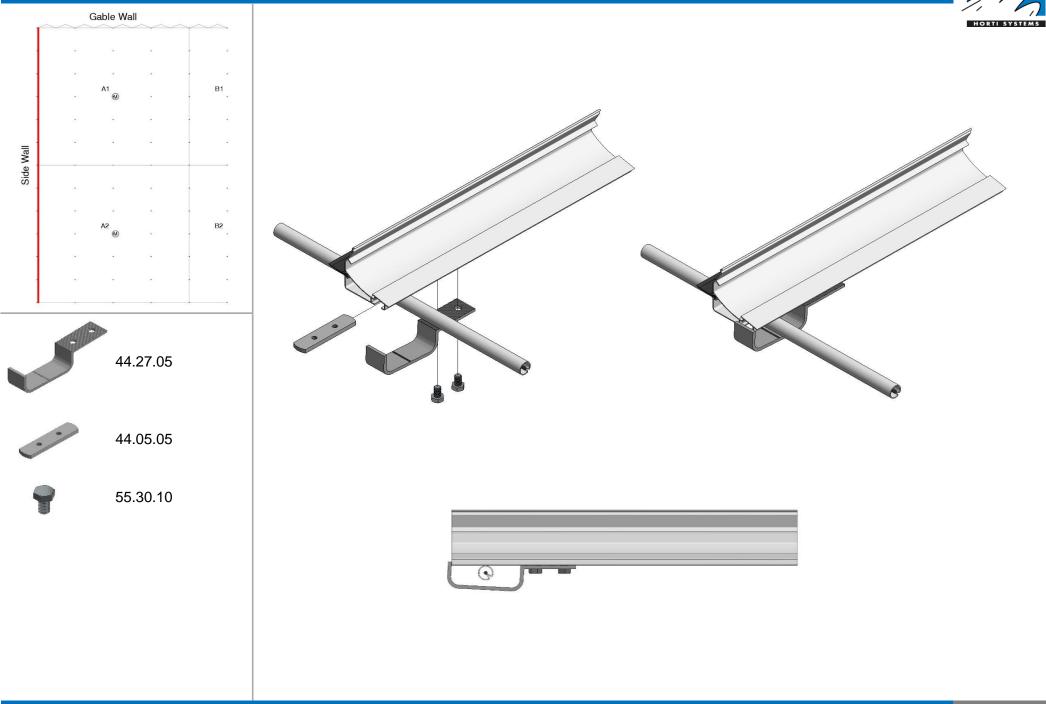








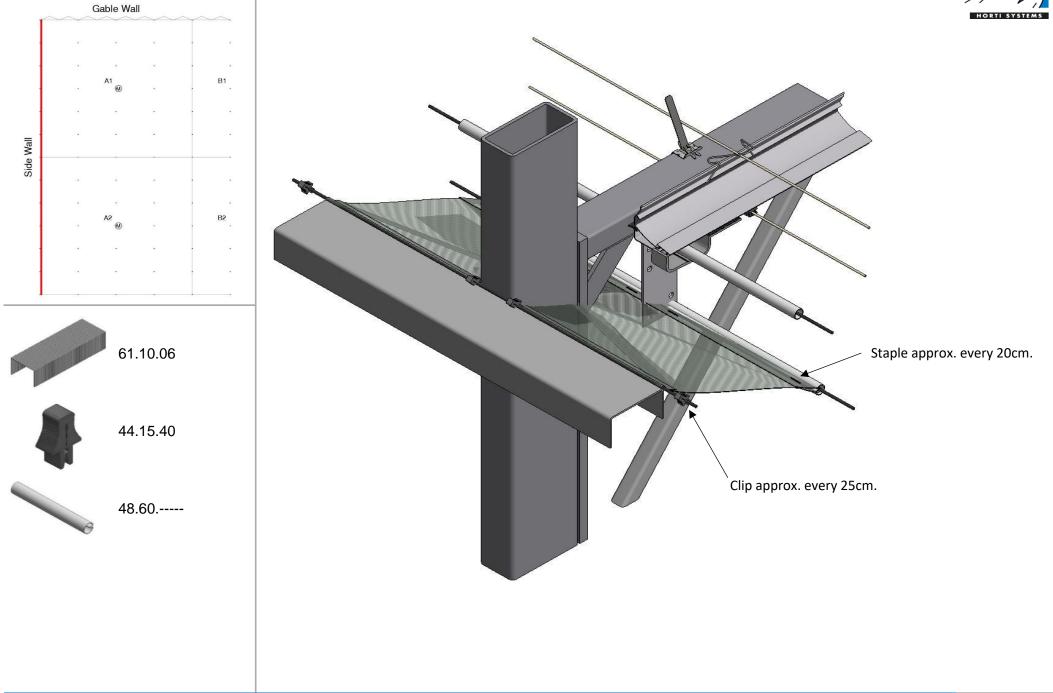




VAN DER VALK

Cloth hangdown - ValkClip - Side wall





Cloth hangdown - ValkClip - Side wall



