

# **Van der Valk Horti Systems**

DEVELOPER AND PRODUCER OF VENTILATION AND SCREENING SYSTEMS FOR GREENHOUSES

# General Installation manual Lower screen — ValkScreenVision





## **Van der Valk Horti Systems**

#### **DEVELOPER AND PRODUCER OF VENTILATION AND SCREENING SYSTEMS FOR GREENHOUSES**

## Manual based on the date below

- Use only with materials of Van der Valk Systemen.
- Dimensions in mm.
- Drive supplier Lock or Ridder.
- Position of motor to be determined by installer.
- Drawings based on 38mm profile with 2 pull wires per truss.
- Manual is, in consultation, also suitable for 22mm profile with 3 pull wires per truss.
- Hang down: other options possible

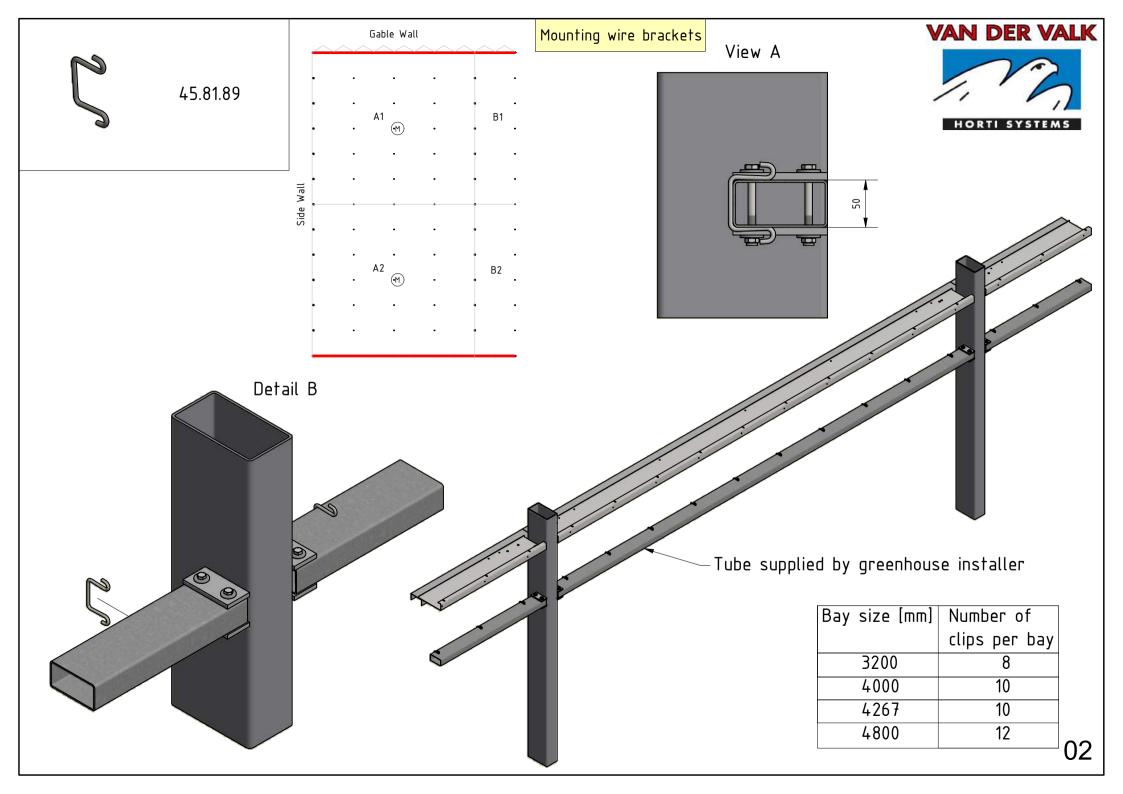
This manual is not project specific.

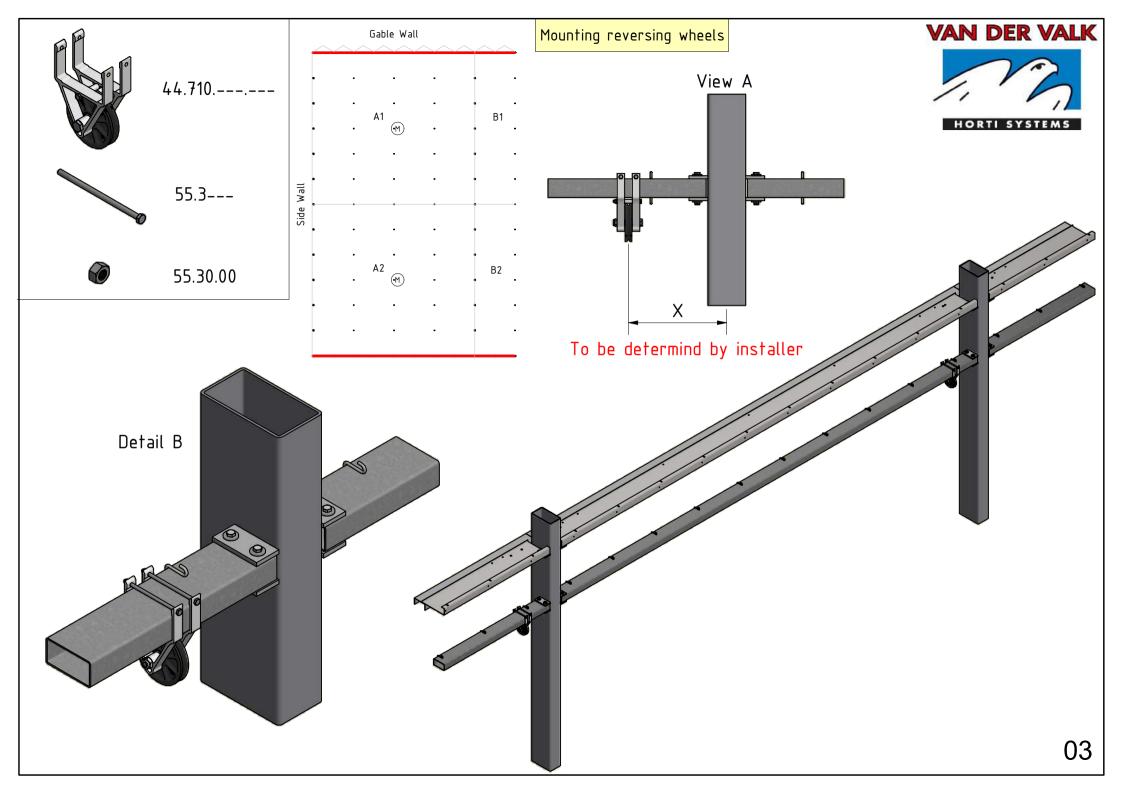
This manual is not legally binding.

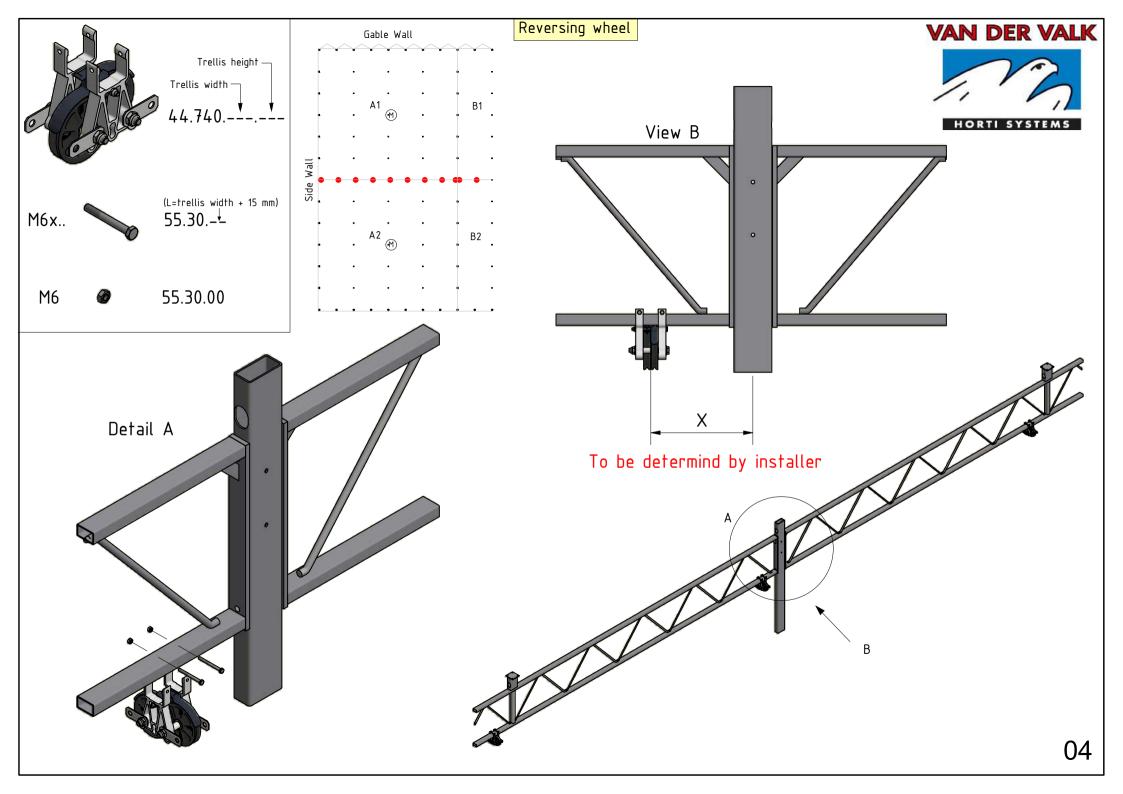
No right may be derived from this installation manual.

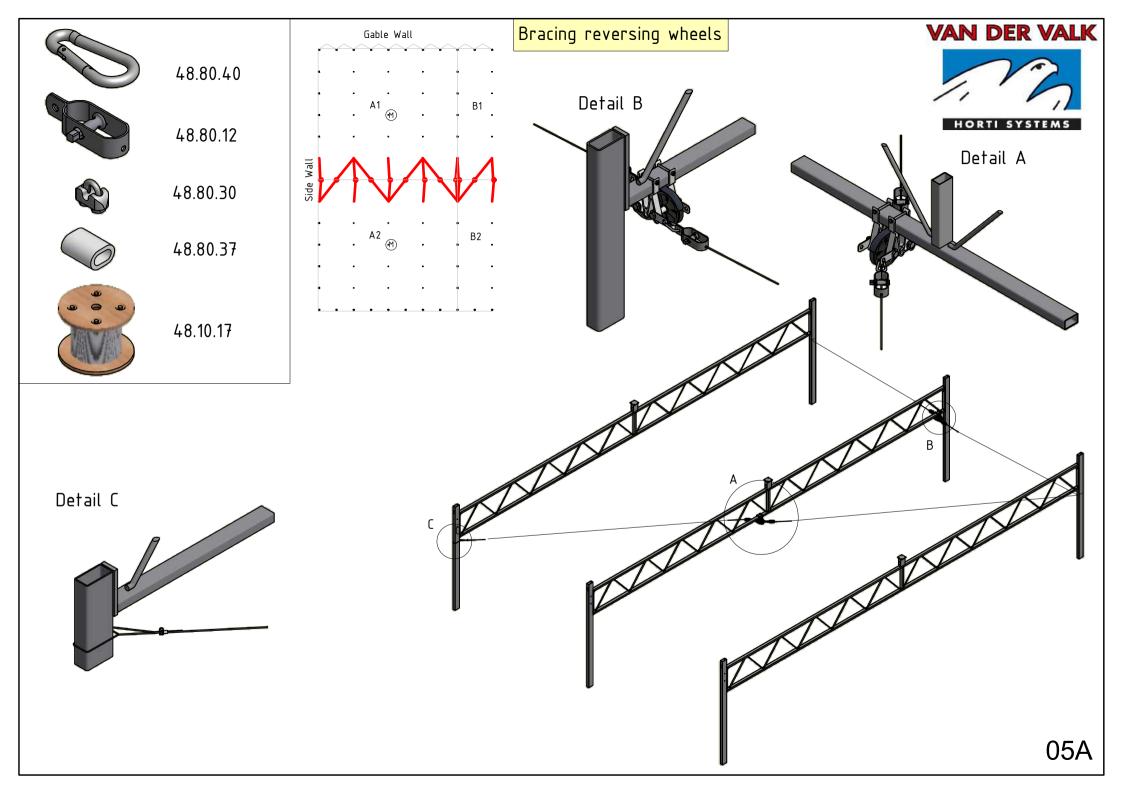
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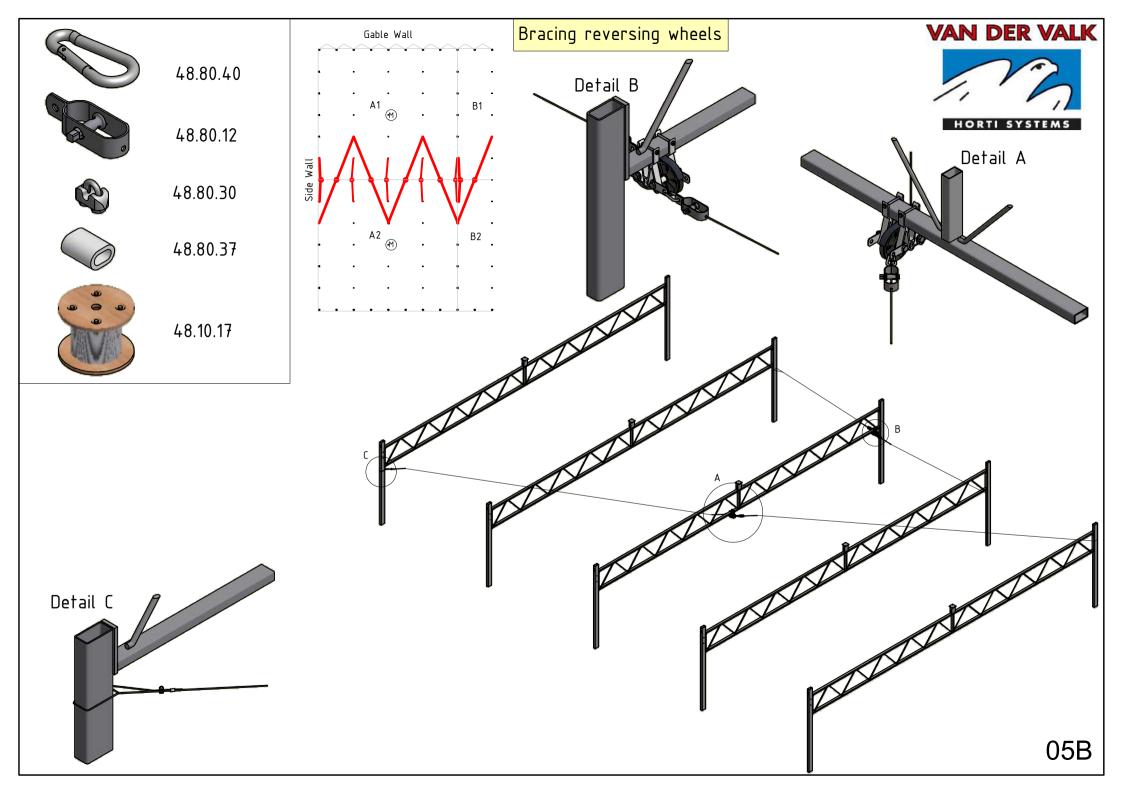
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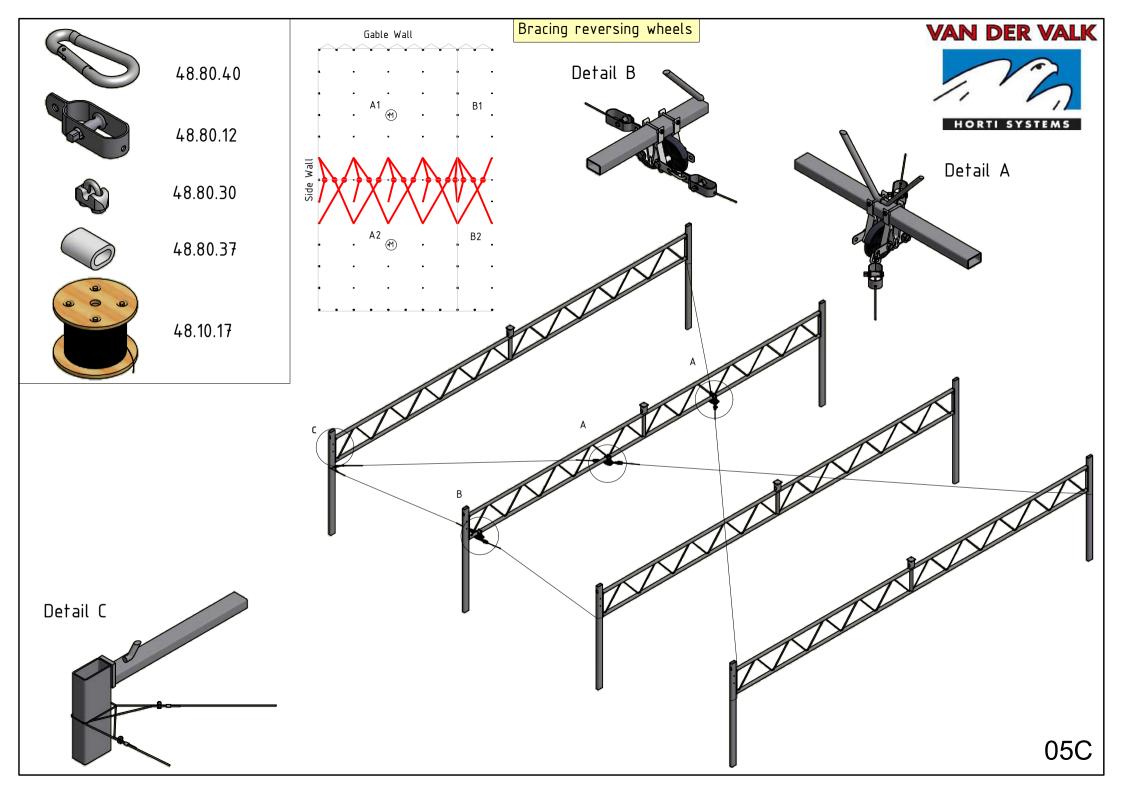


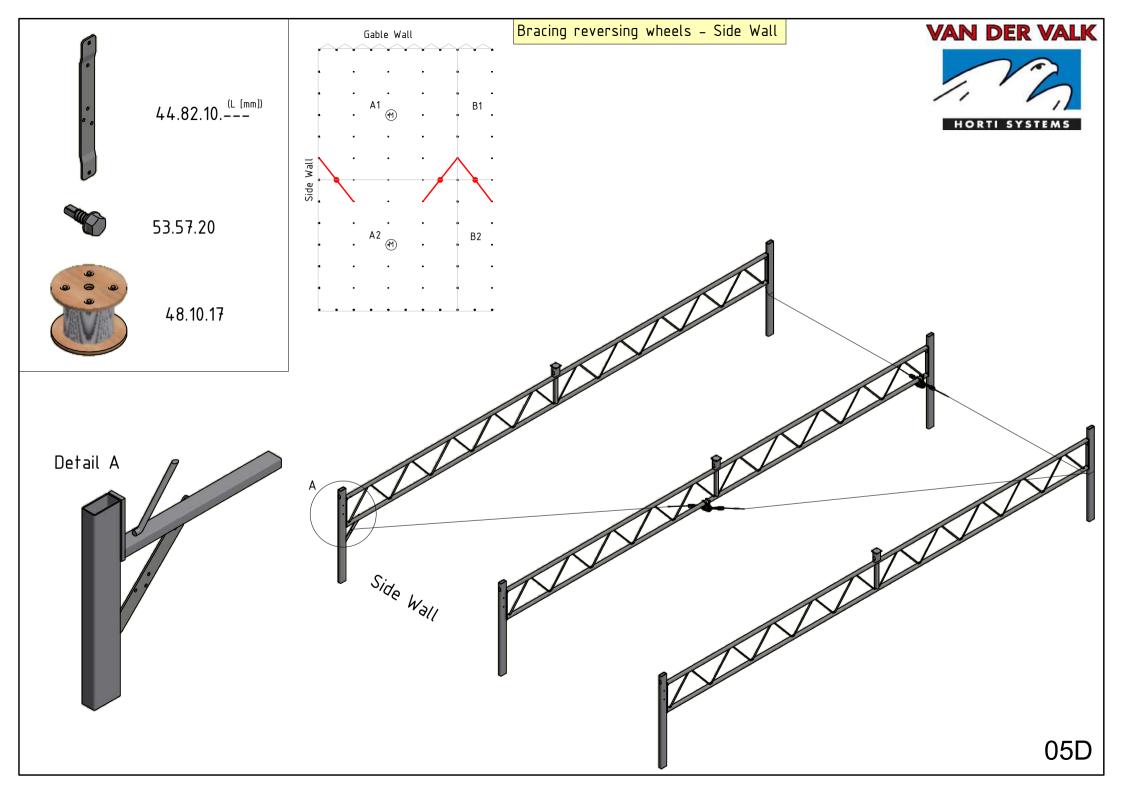


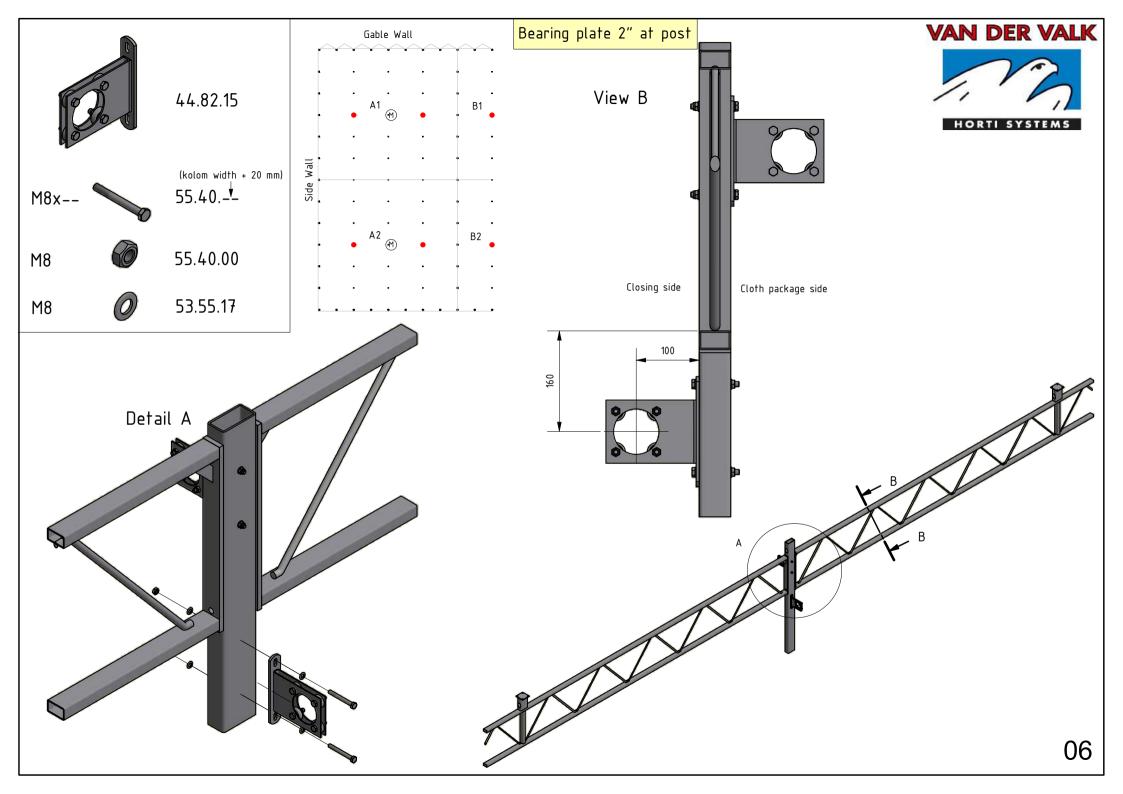


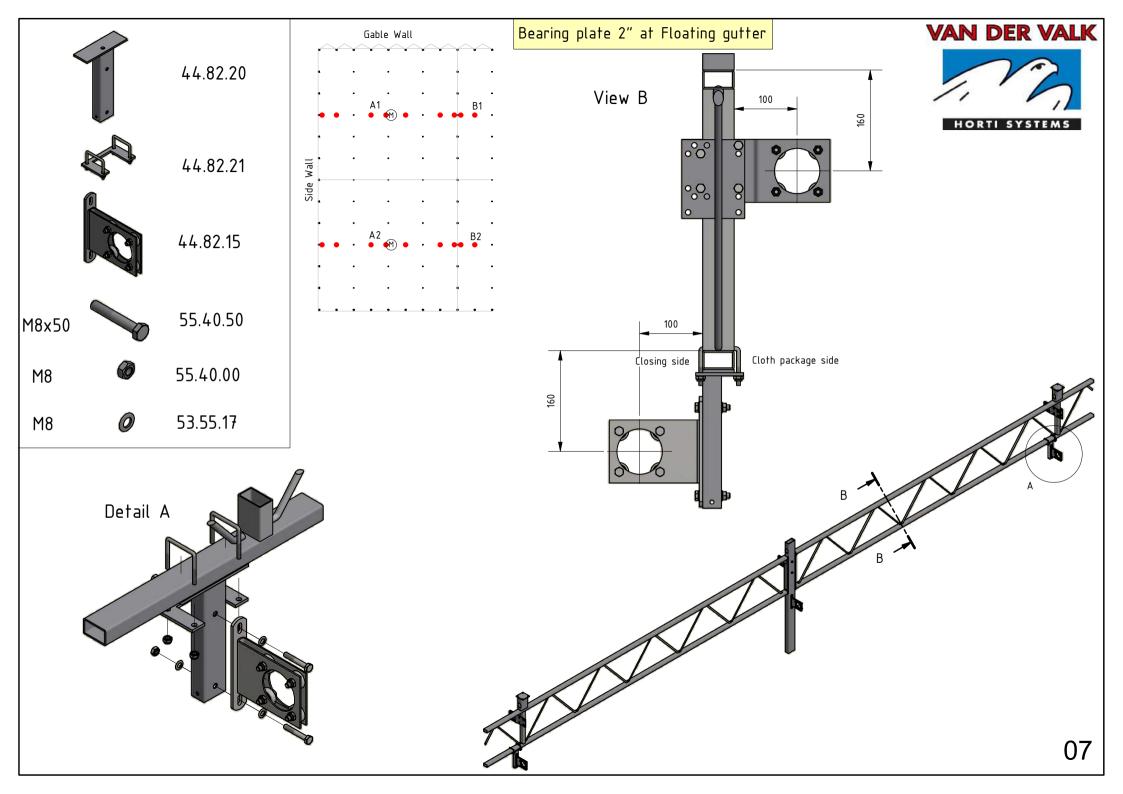


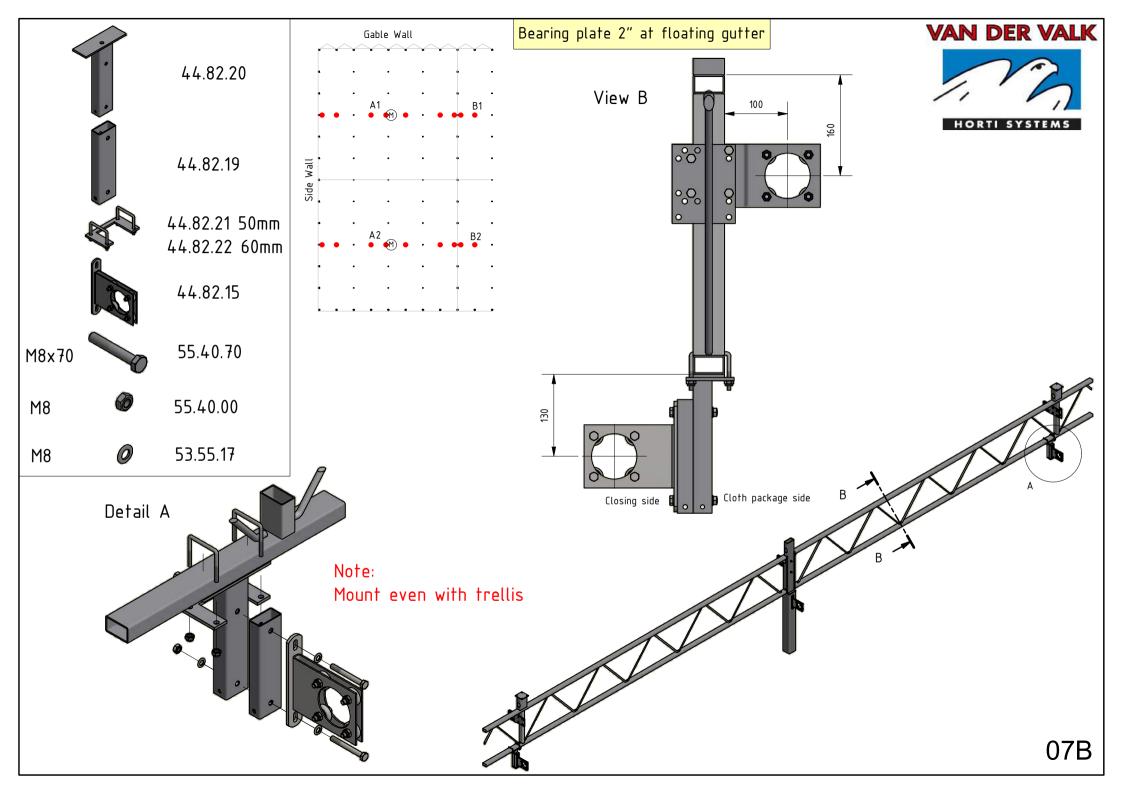


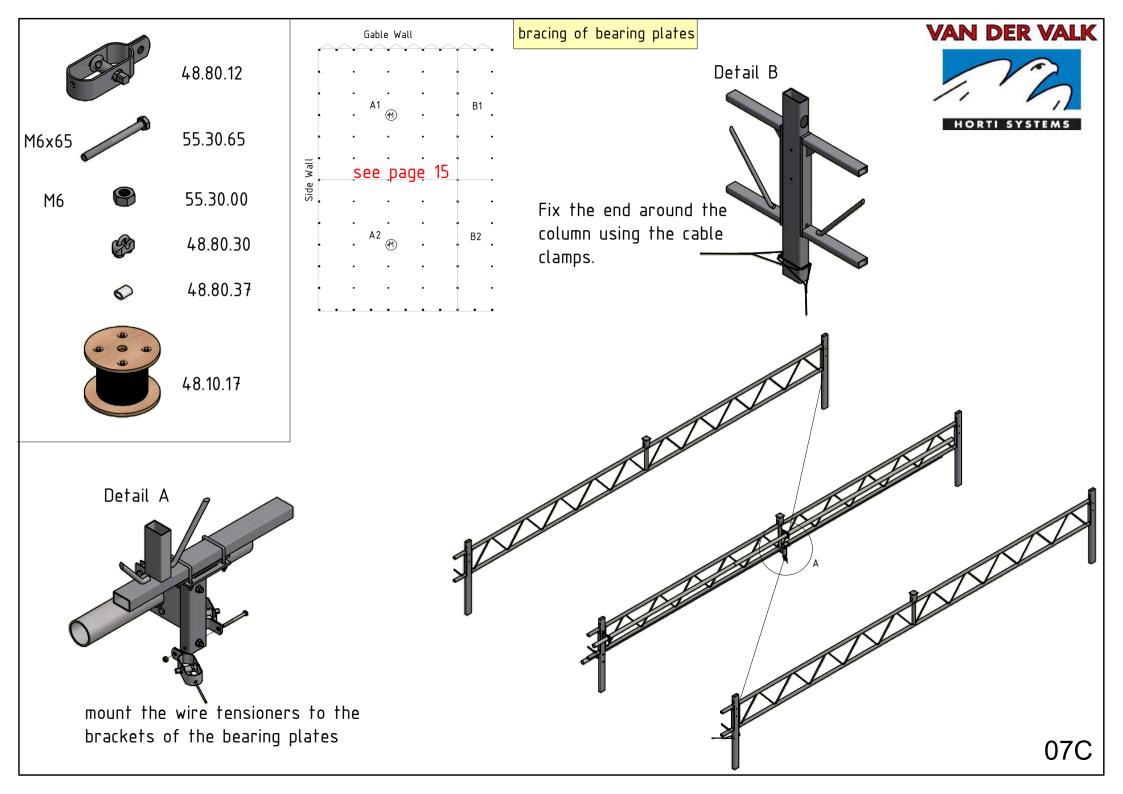


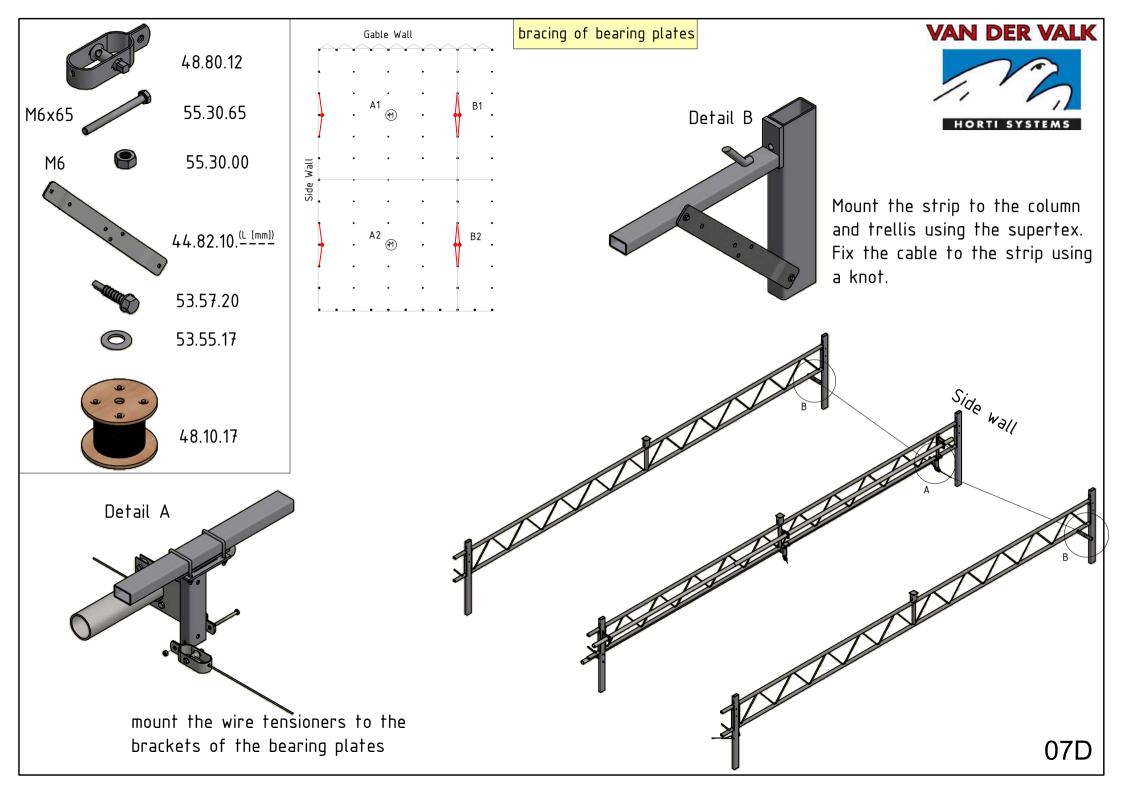


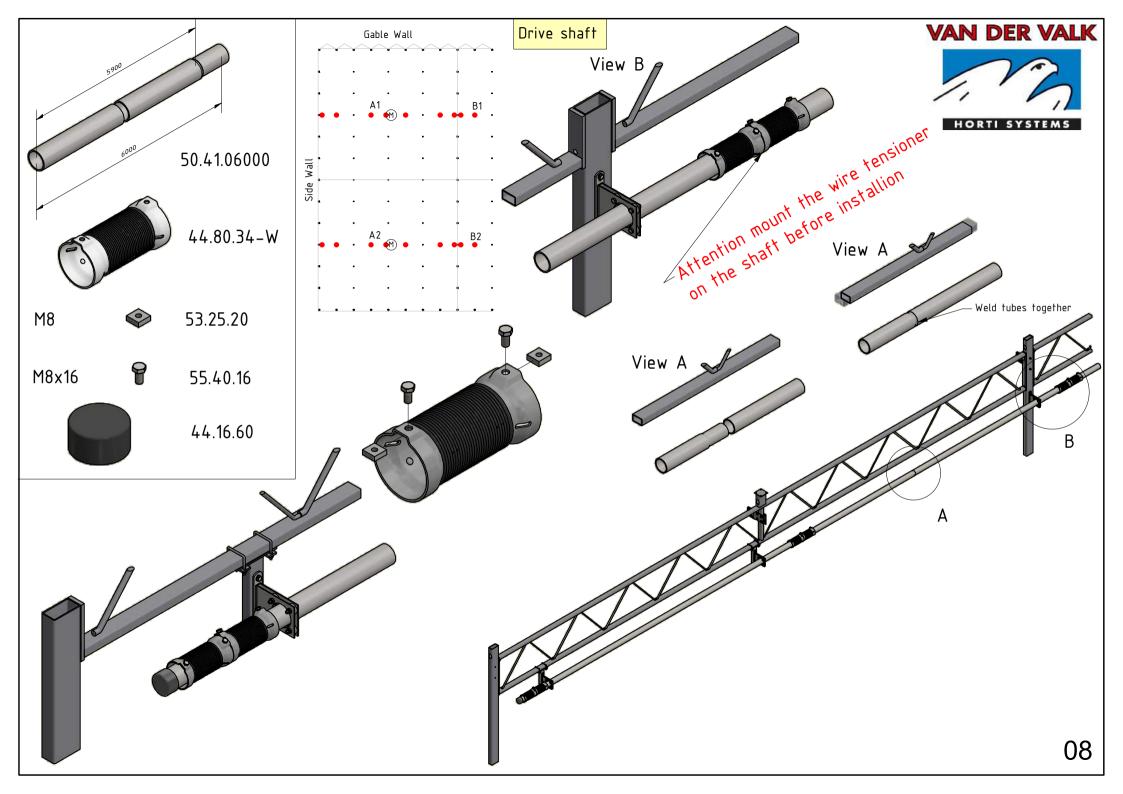


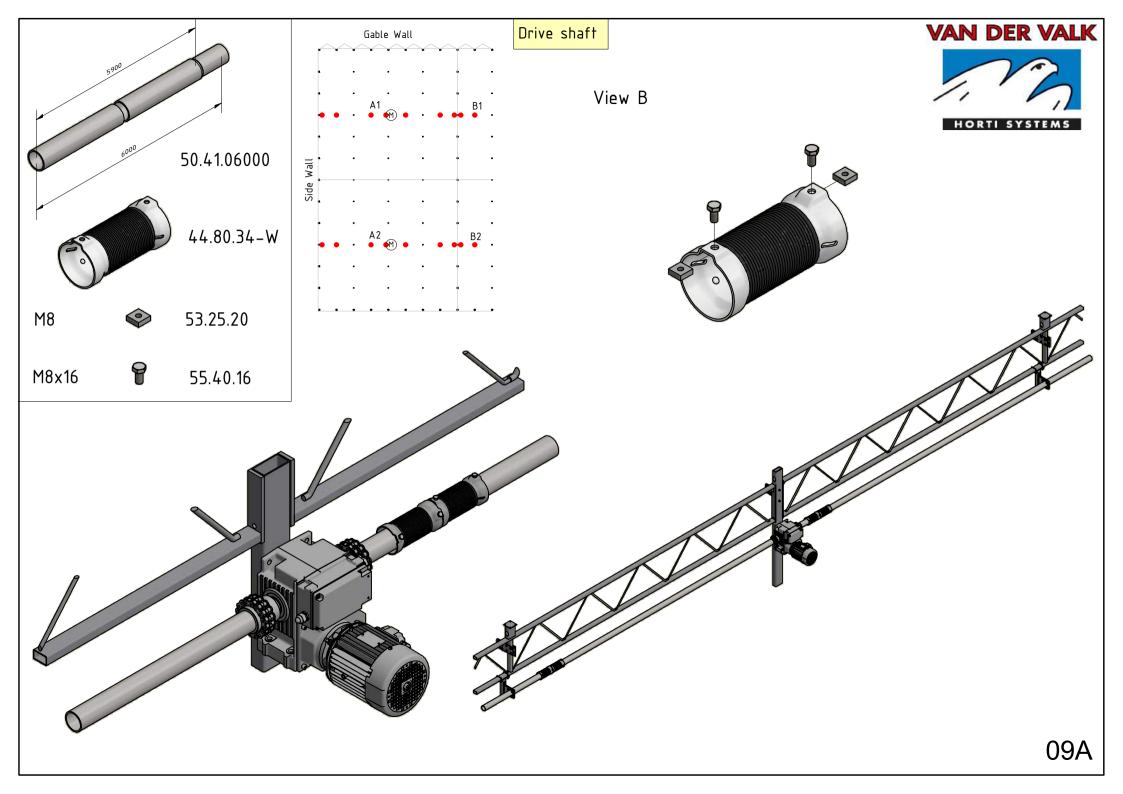


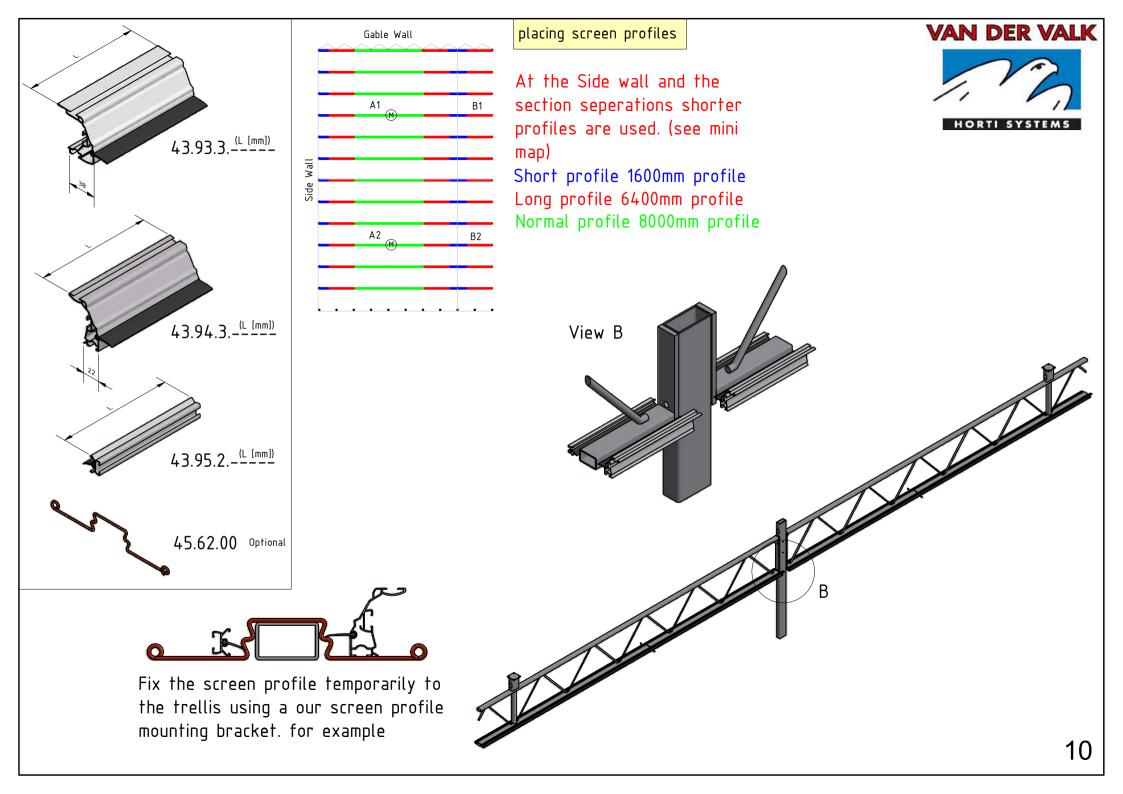


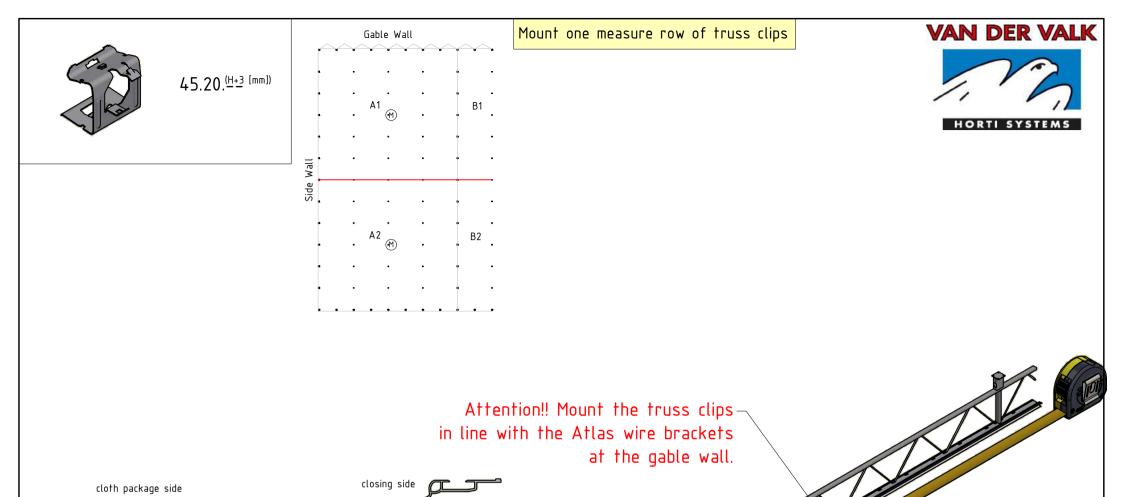


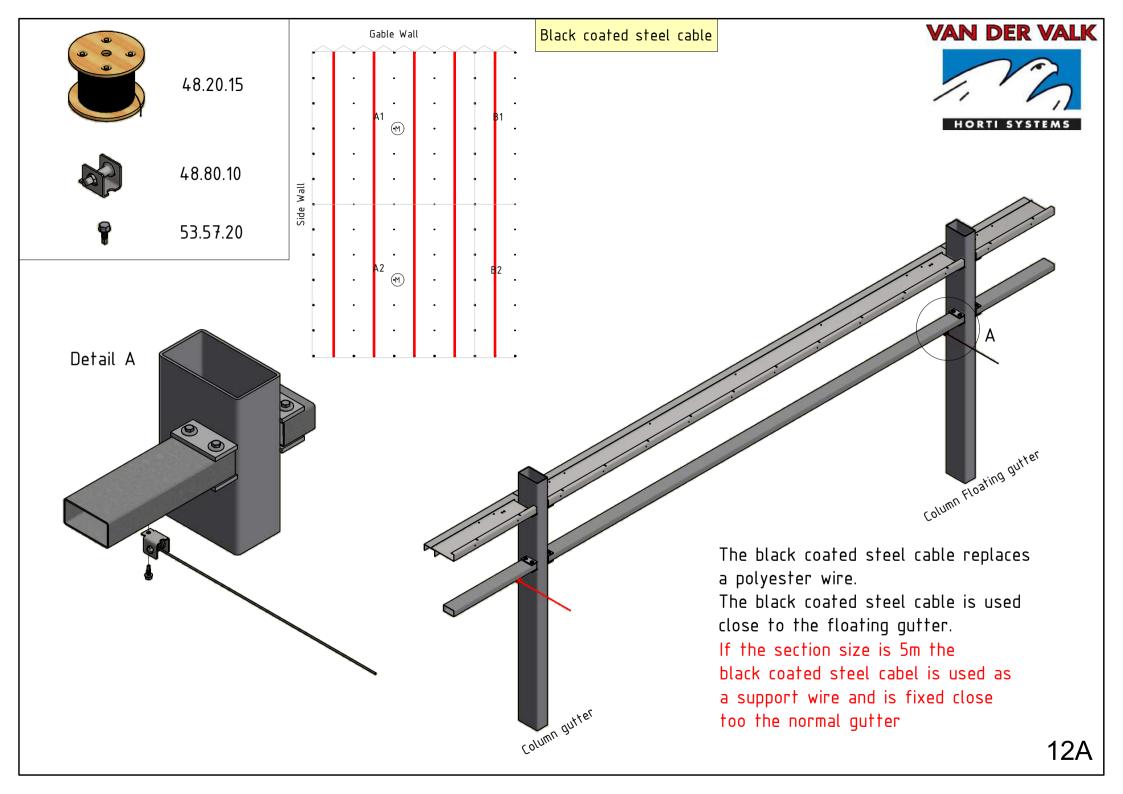


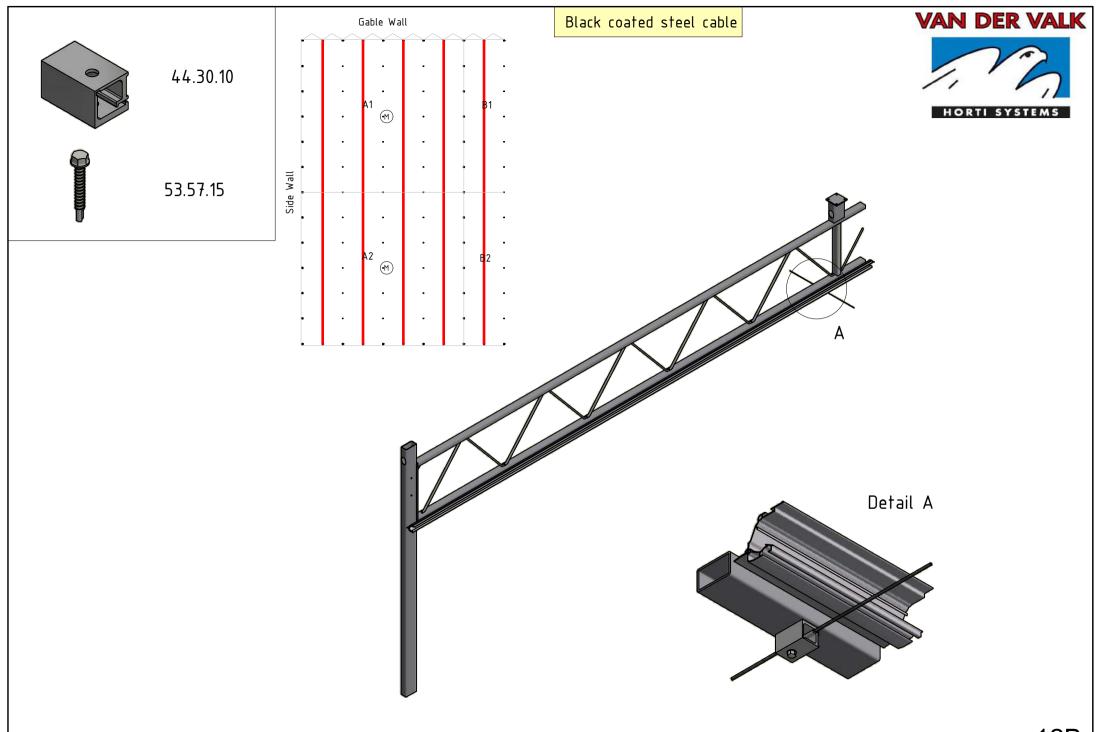


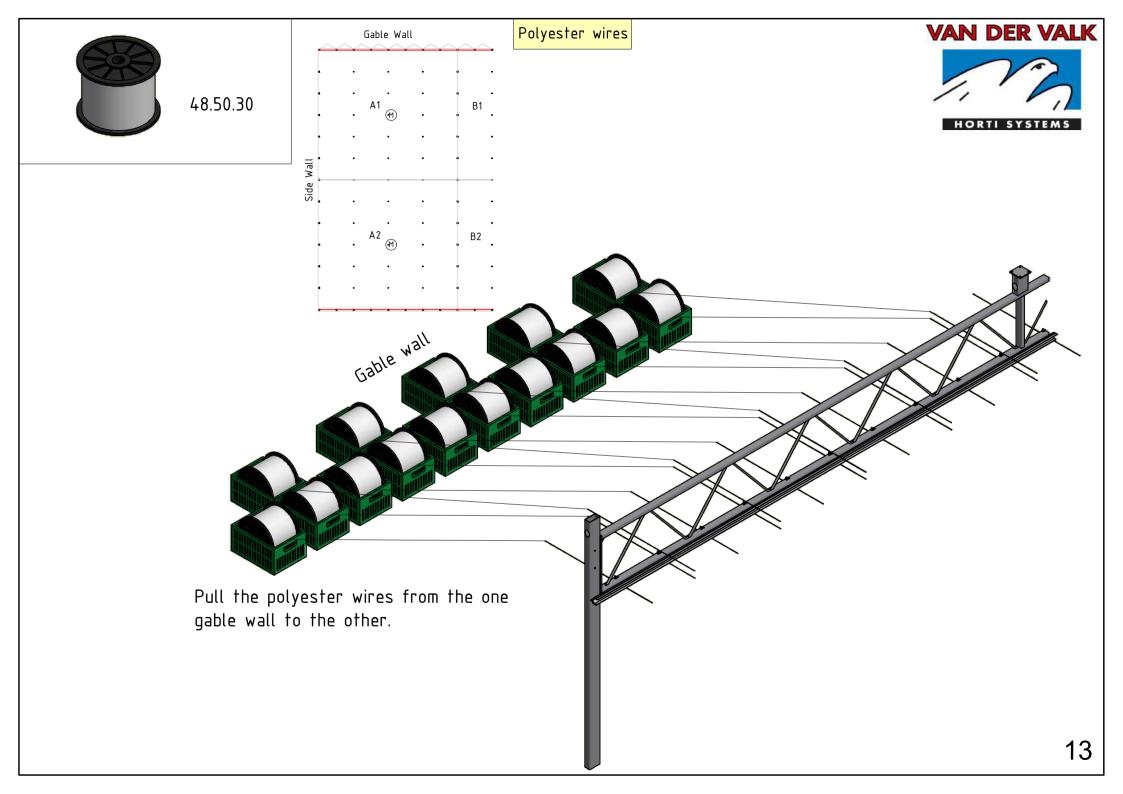


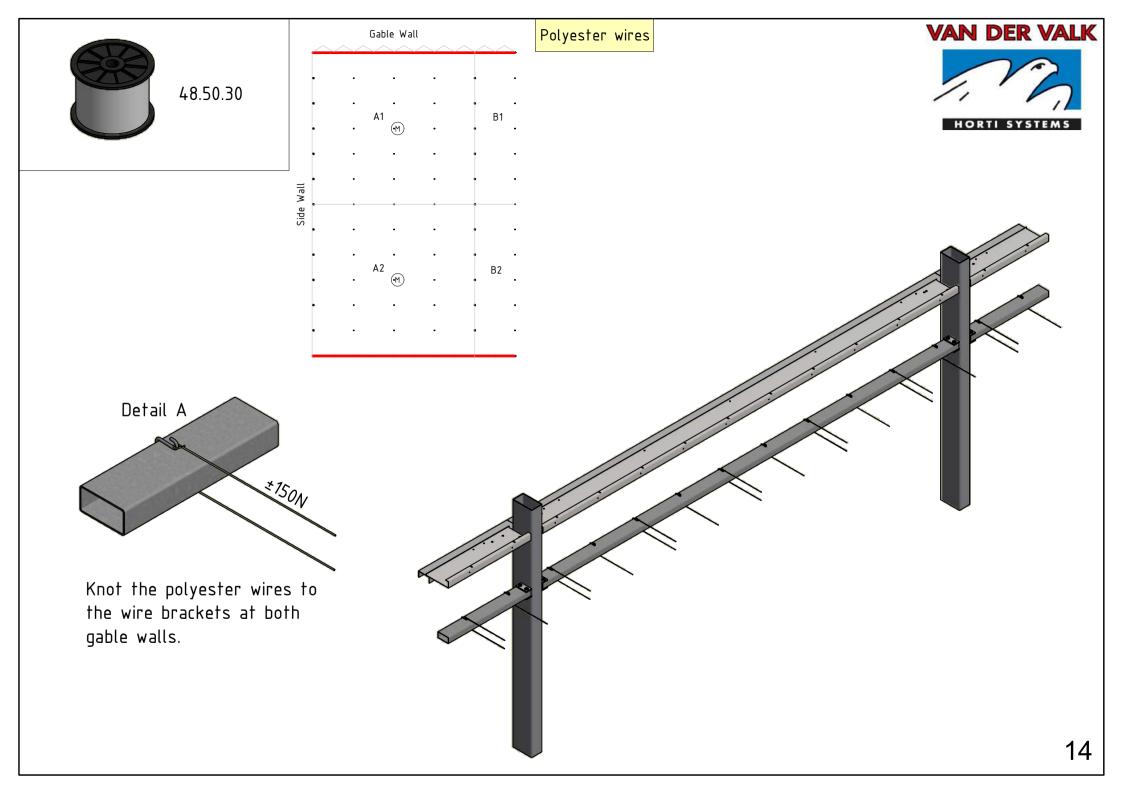


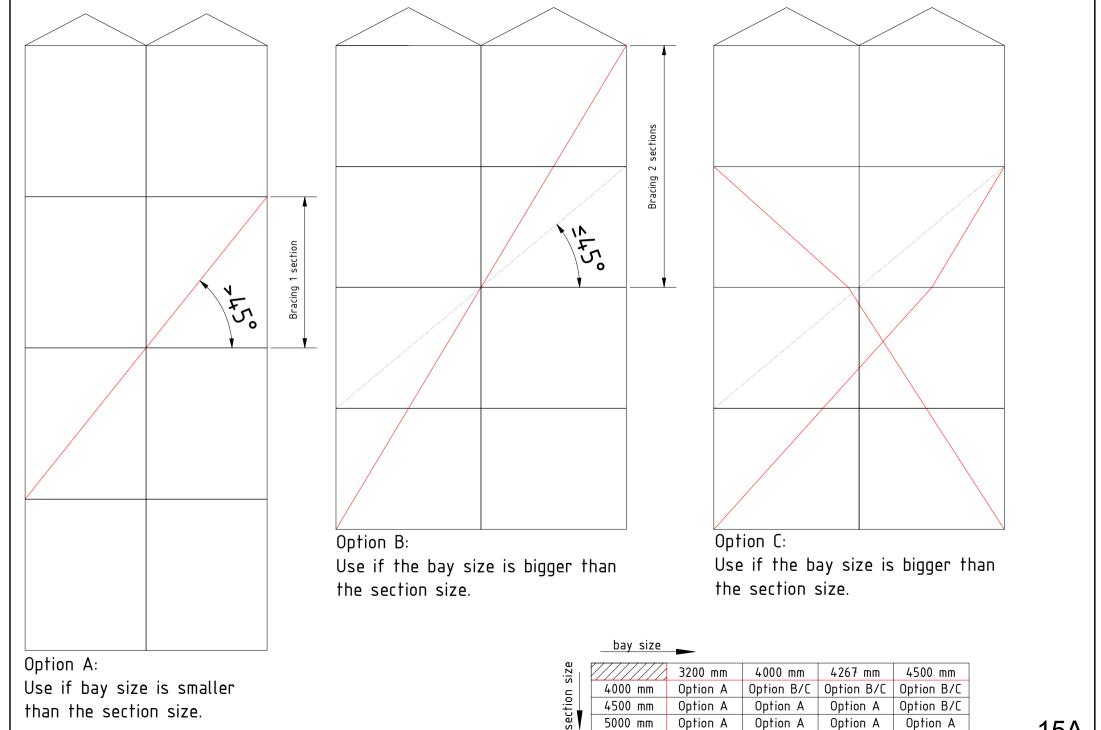


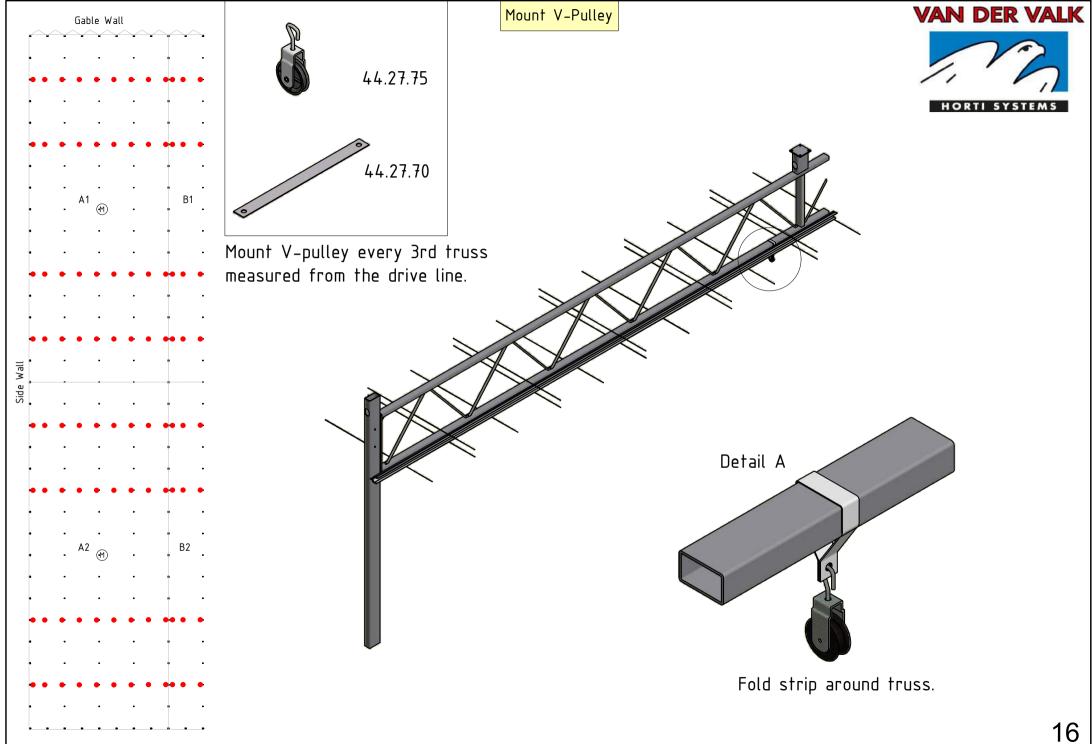






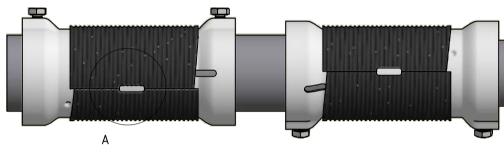


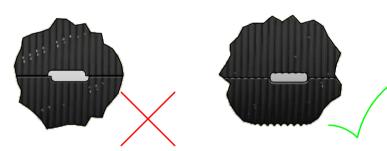




Before mounting the wire on the wire tensioners make sure that everything on page 19/19B is clear and understood.

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





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



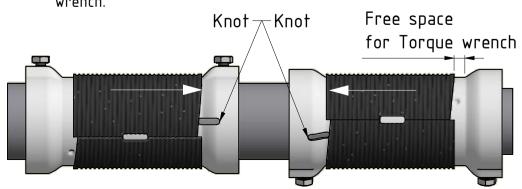
**VAN DER VALK** 

24.5 windings = ±4500mm

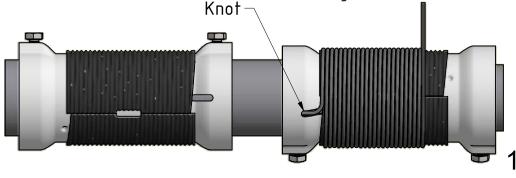
22.5 windings = ±4500mm

Bay size [mm]	No. of windings	No. of windings	
	on wire tensioner 1	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	

Make sure that the plastic cable drum is moved to the side where the knot will be placed. So that on the other side is enough space for the Torque wrench.

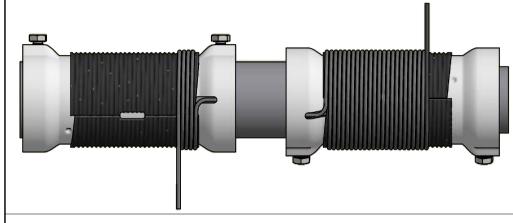


Tie a knot at the end of the wire and place the required number of windings on the wire tensioner . Knot  $\neg$ 

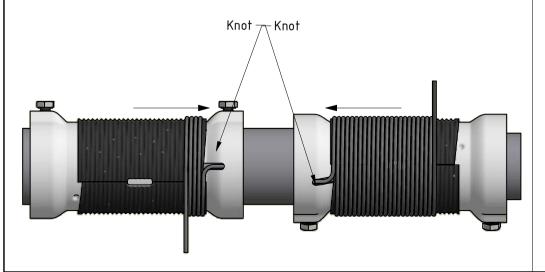


Before mounting the wire on the wire tensioners make sure that everything on page 19/19B is clear and understood.

Make sure that there is ca. one meter extra wire available for the 3,5 windings on the other wire tensioner, as shown below.



6 Slide the wire tensioners together so that the knots are hidden between the two wire tensioners.

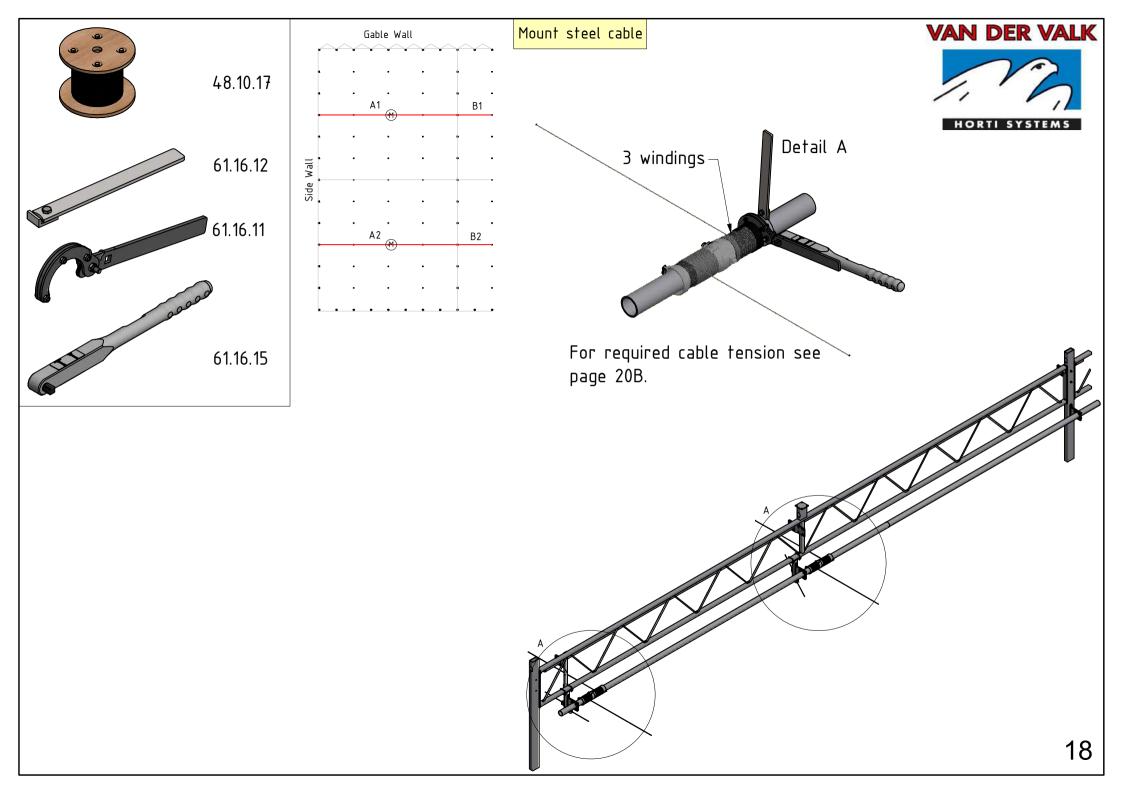


In the end the wire has to be on the wire tensioners as is shown in the drawing below.





When finished page 19/19B continue to page 20 for tensioning of the wire.



Gable Wall

KLIMAX g

KLIMAX b

KLIMAX r

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KLIMAX green has a max. skid force of 3,5 kg KLIMAX blank has a max. skid force of 6 kg KLIMAX red has a max. skid force of 9 kg

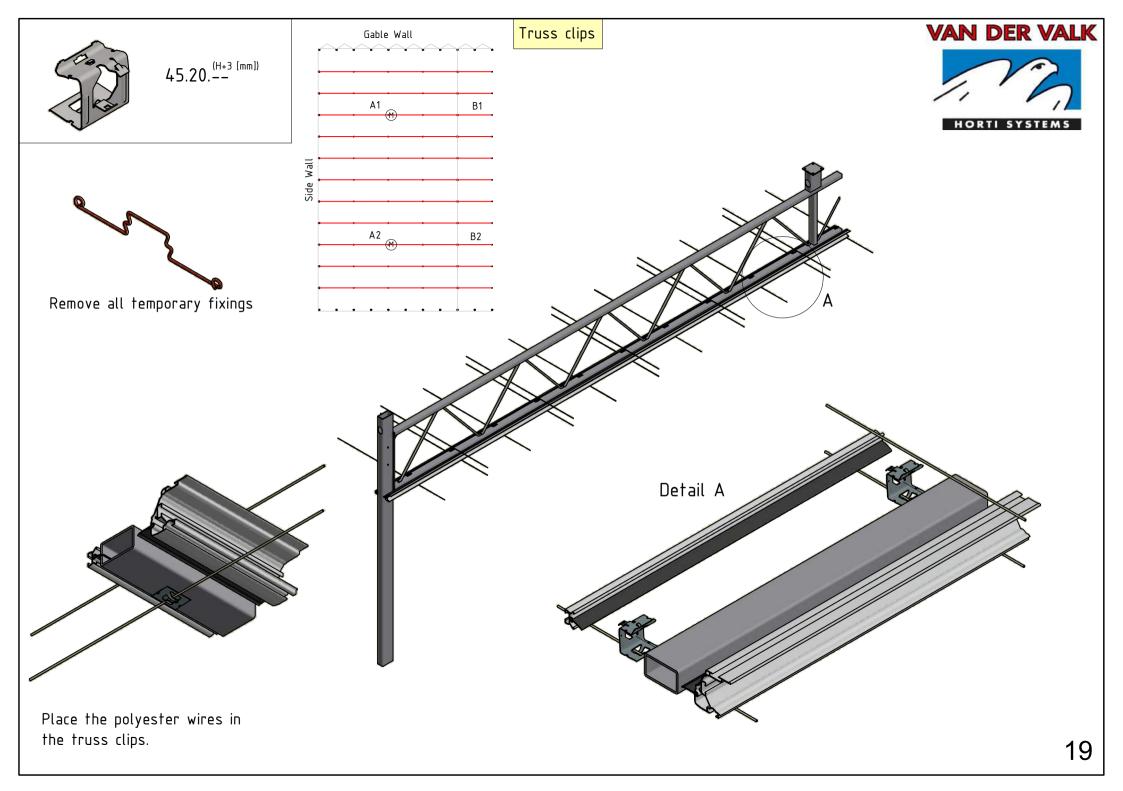


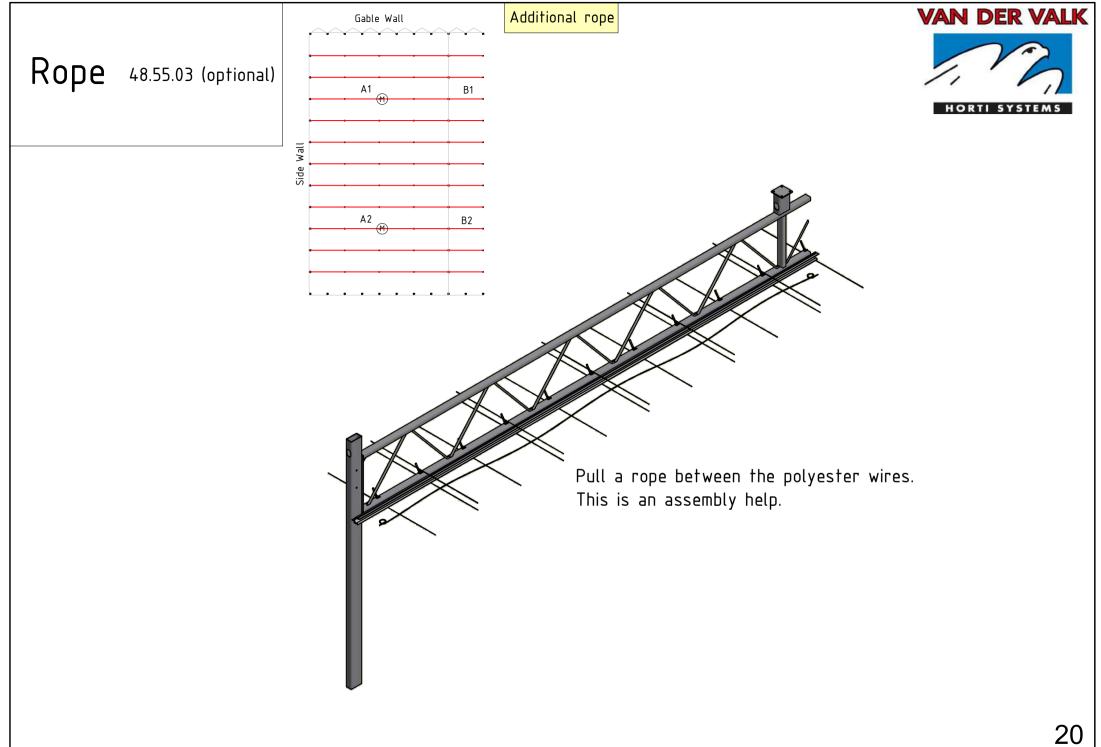
In the neutral position (= mounting position) there should be a certain tension to be applied. This tension (= pretension) is of great importance for the correct operation of the system. The pretension depends on the number of slip blocks on one steel cable.

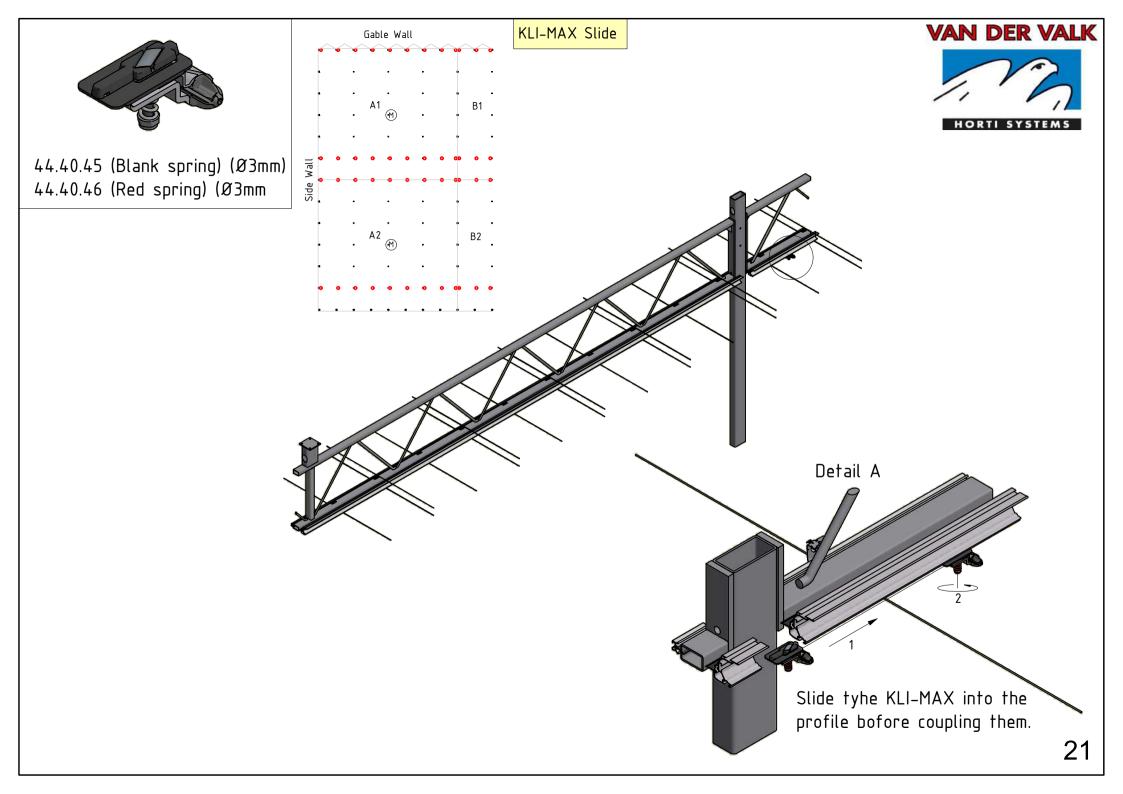
Example: See greenhouse on the left with 16 sections and a blank KLIMAX

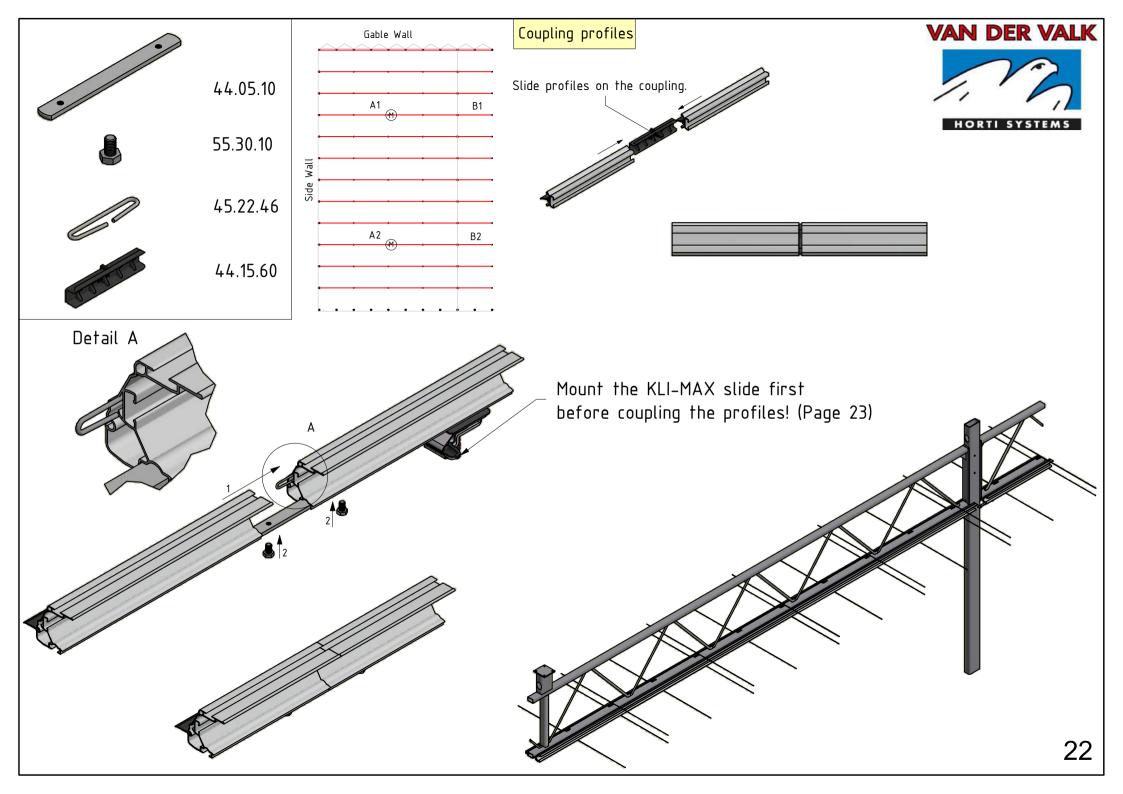
(16x6kg)		
Cable pre tension = + preload of 20 kg = 68 kg	9	
the torque wrench must be set to 35 Nm (See tabel)		

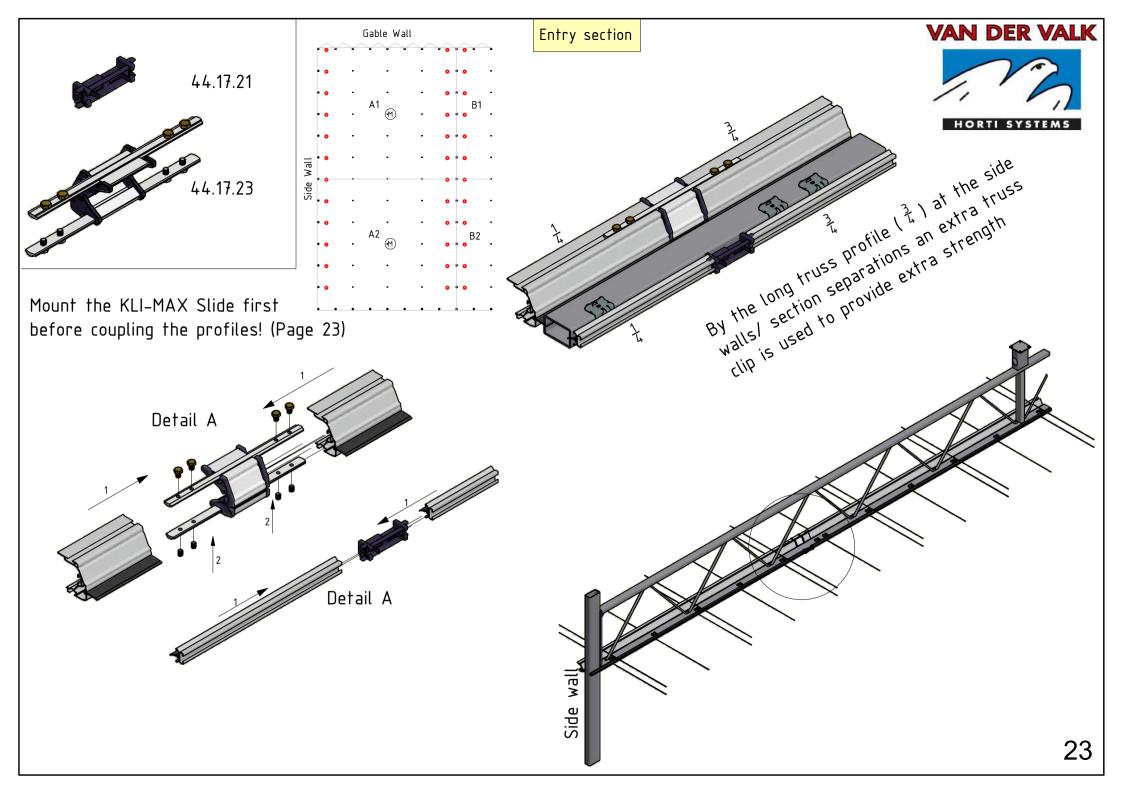
Cable tension	Moment	
[kg]	[Nm]	
40	20	
50	25	
60	30	
80	40	
100	50	
130	60	

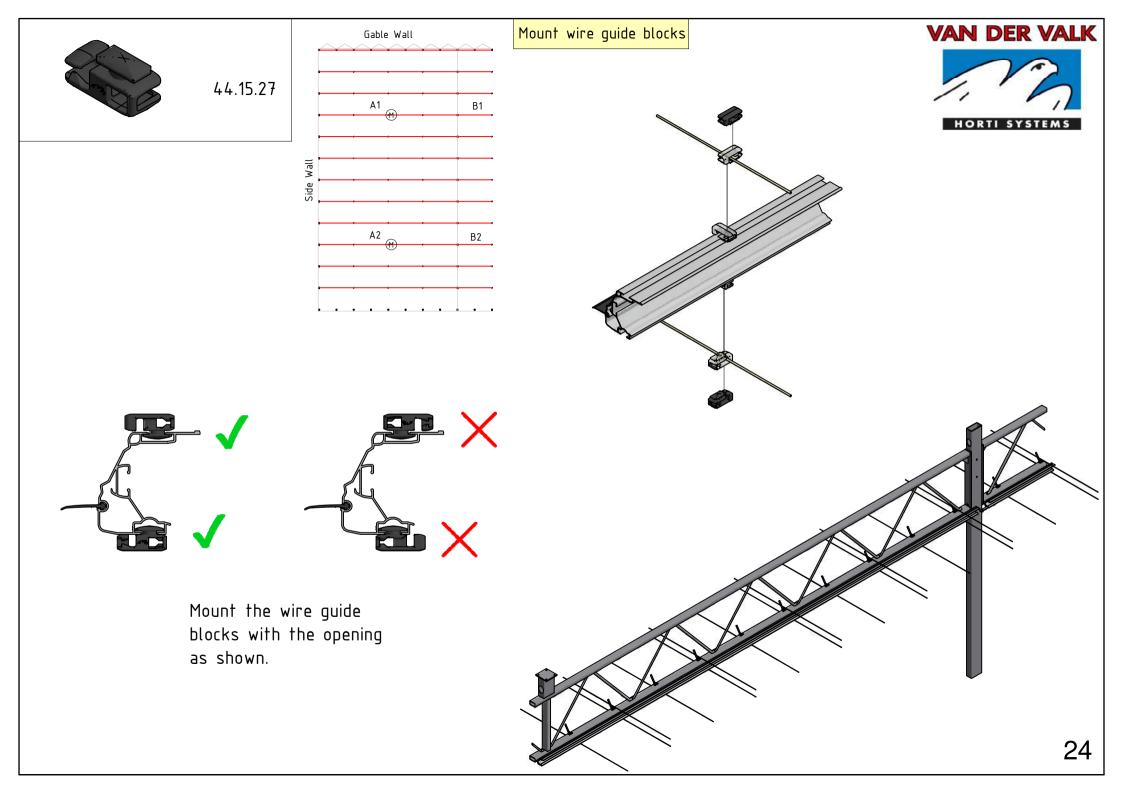


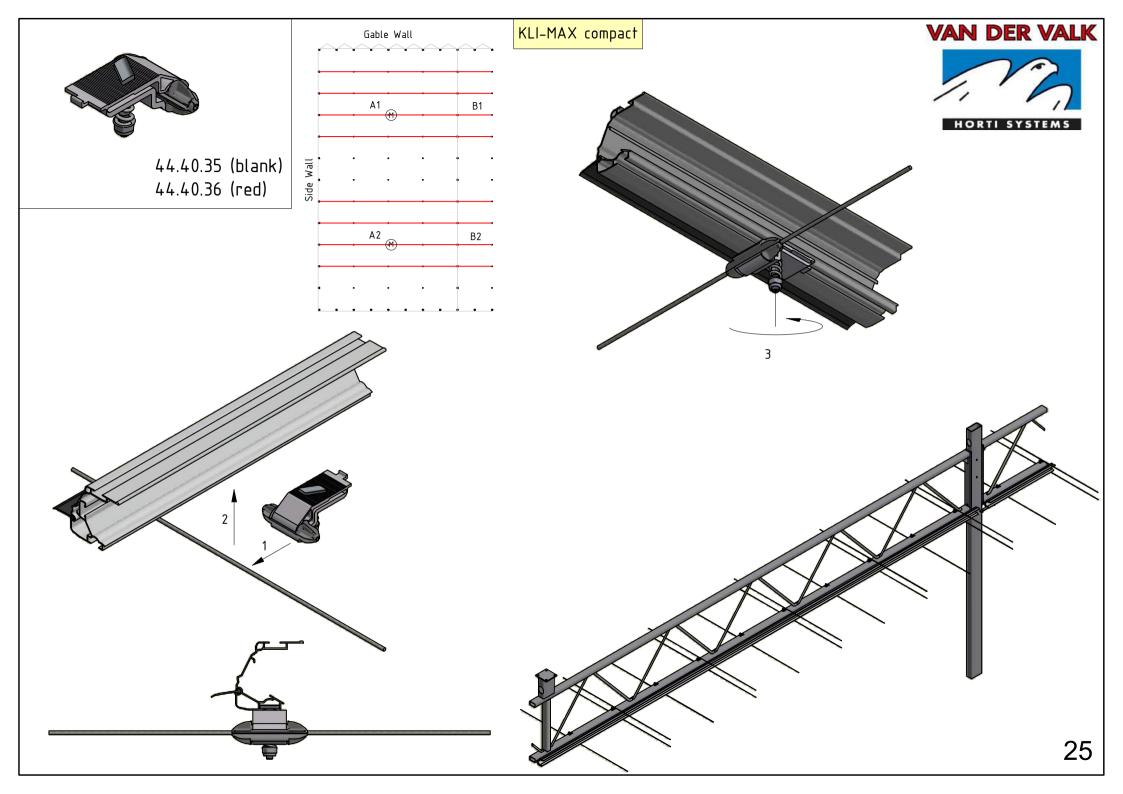


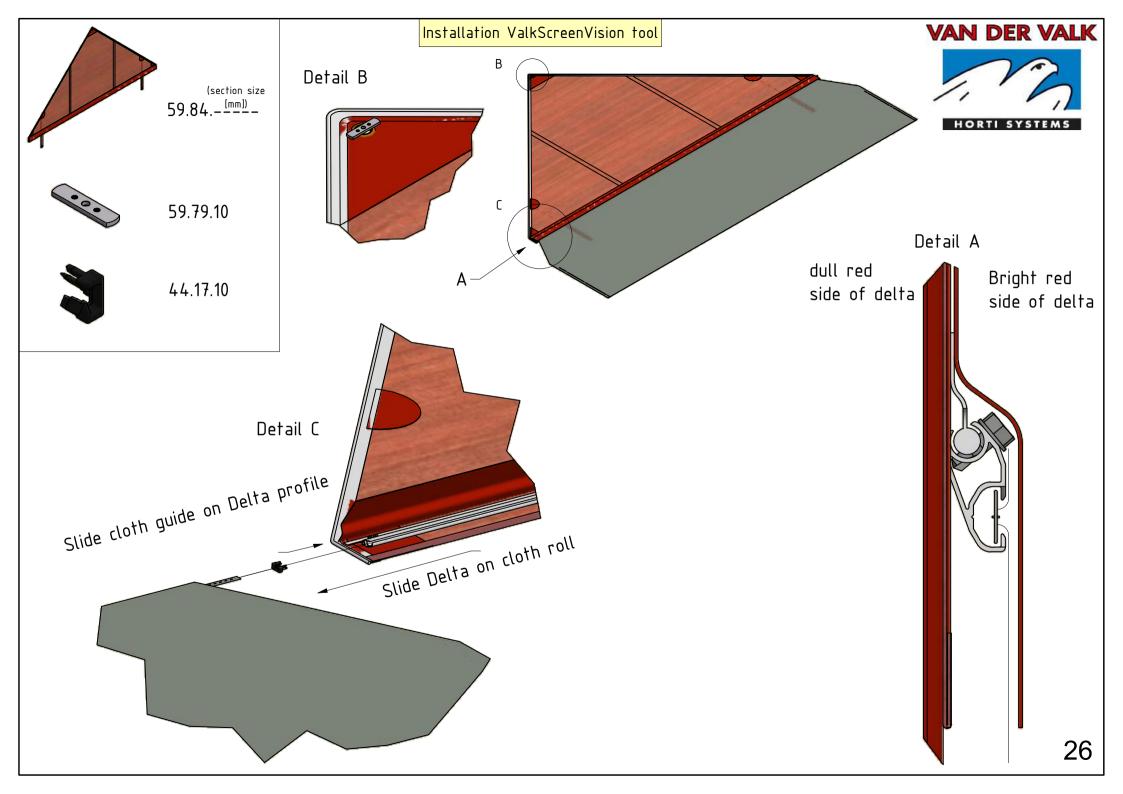


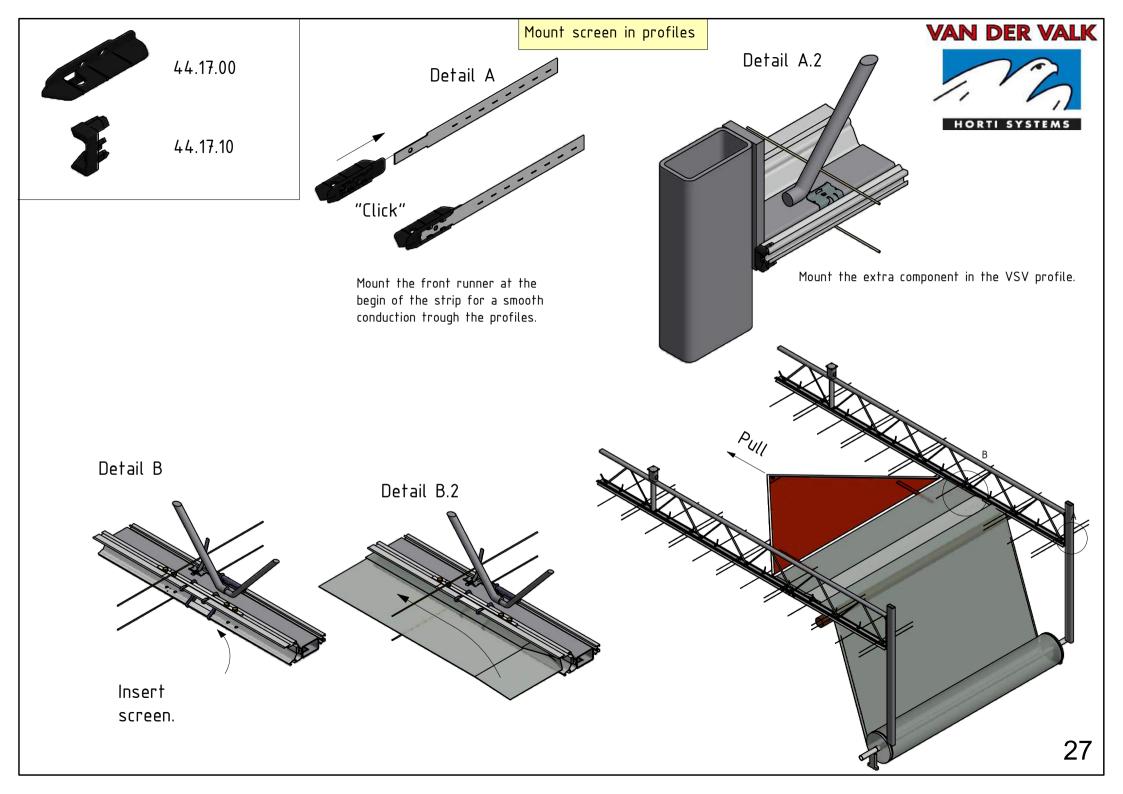


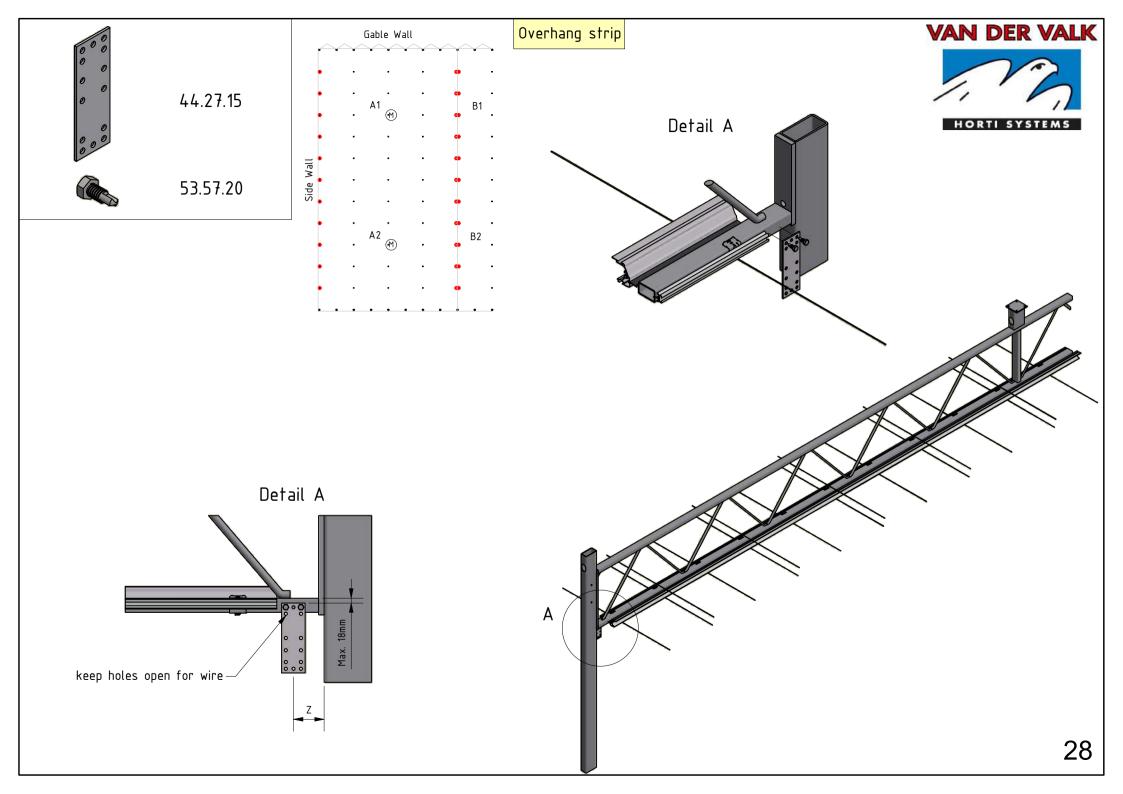


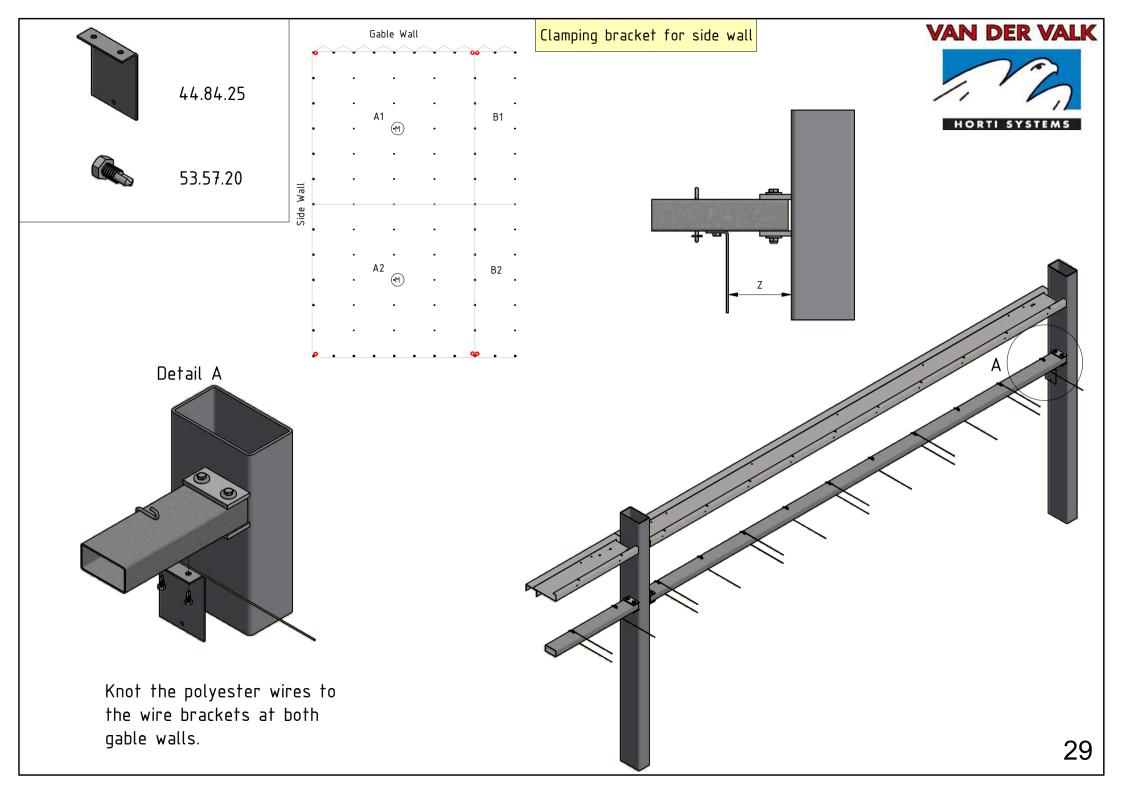


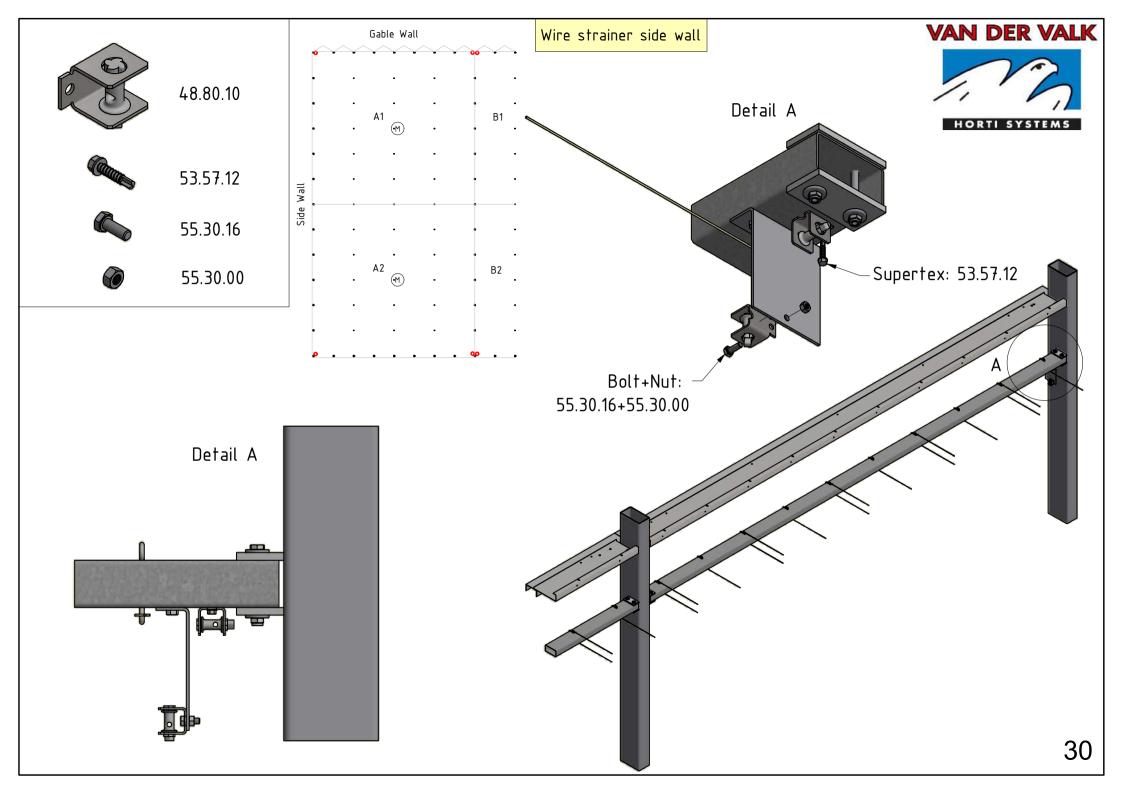


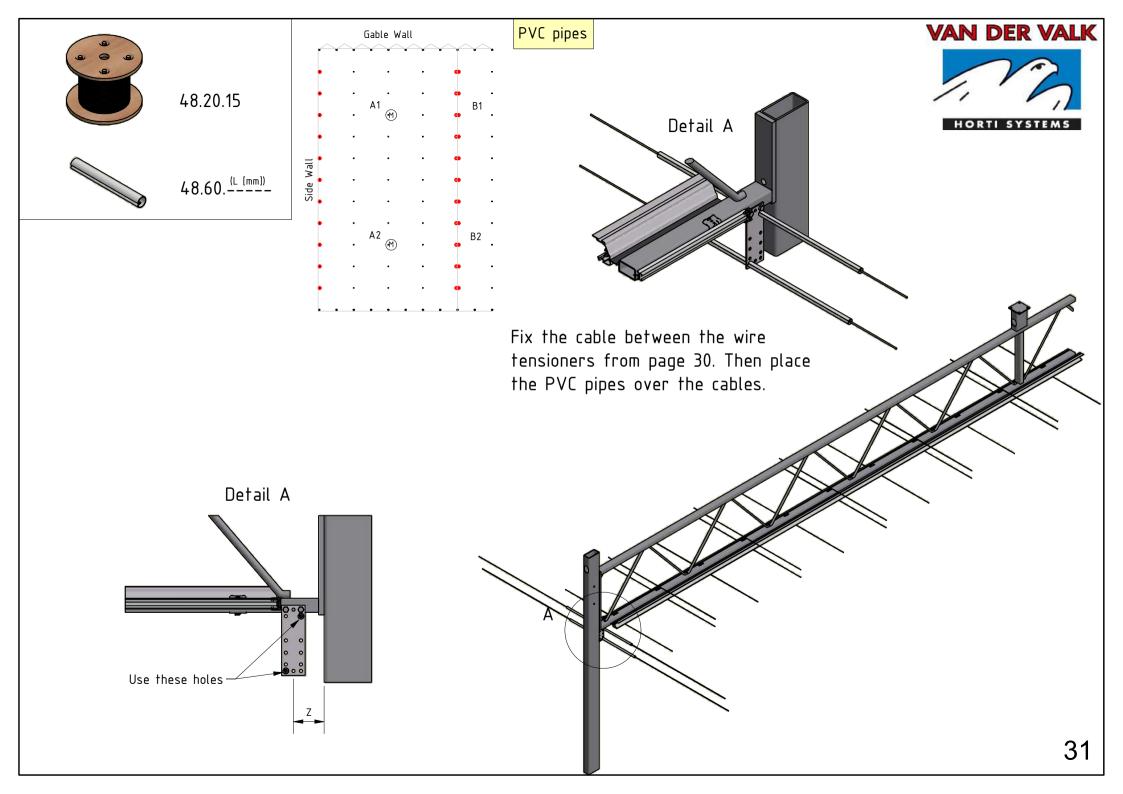


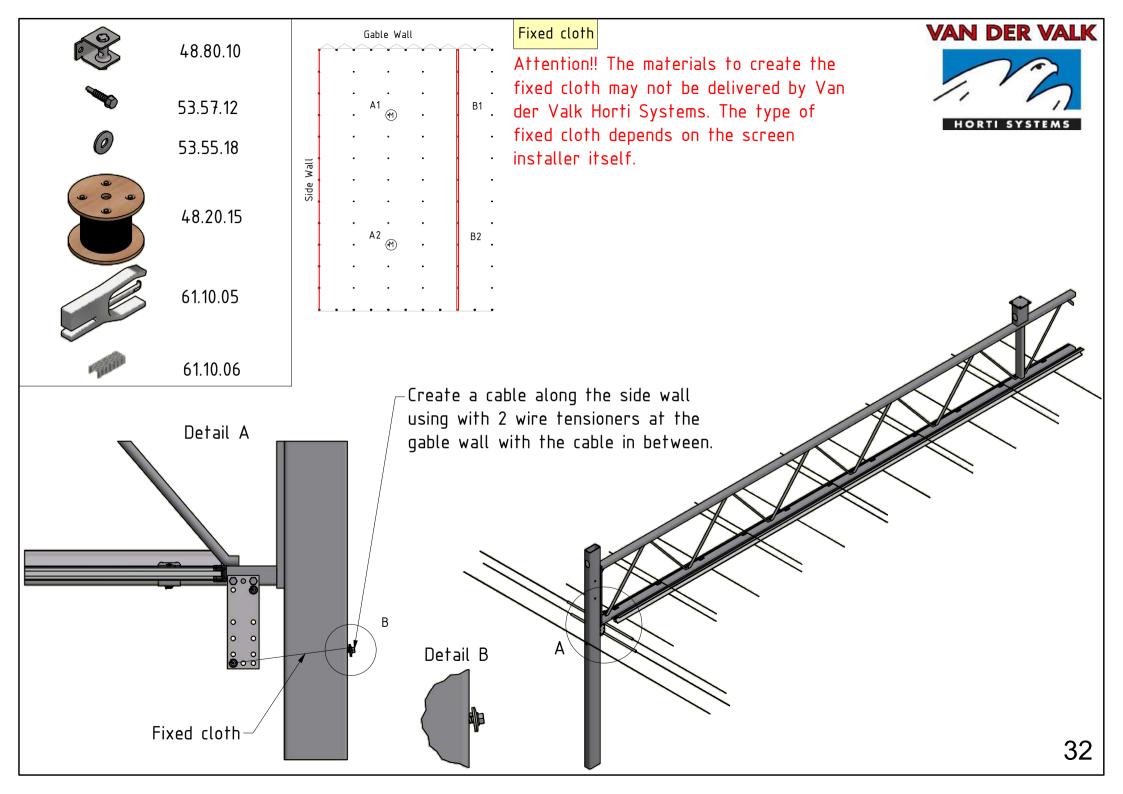


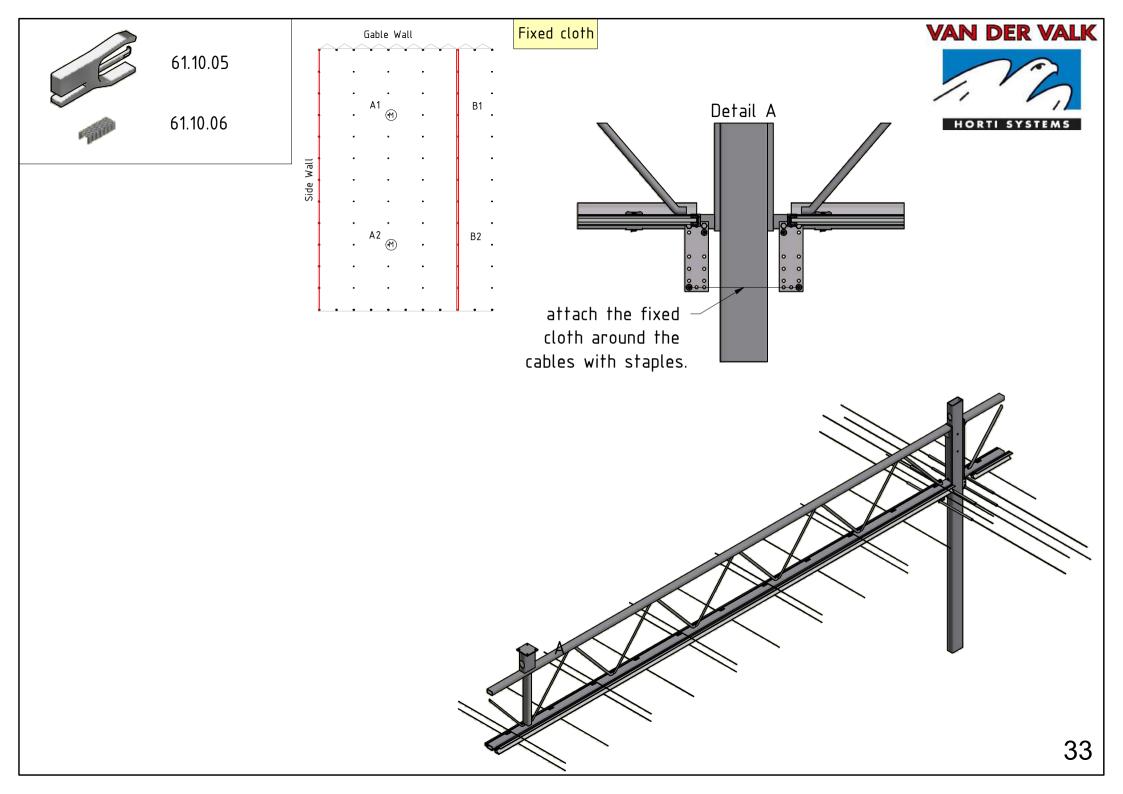


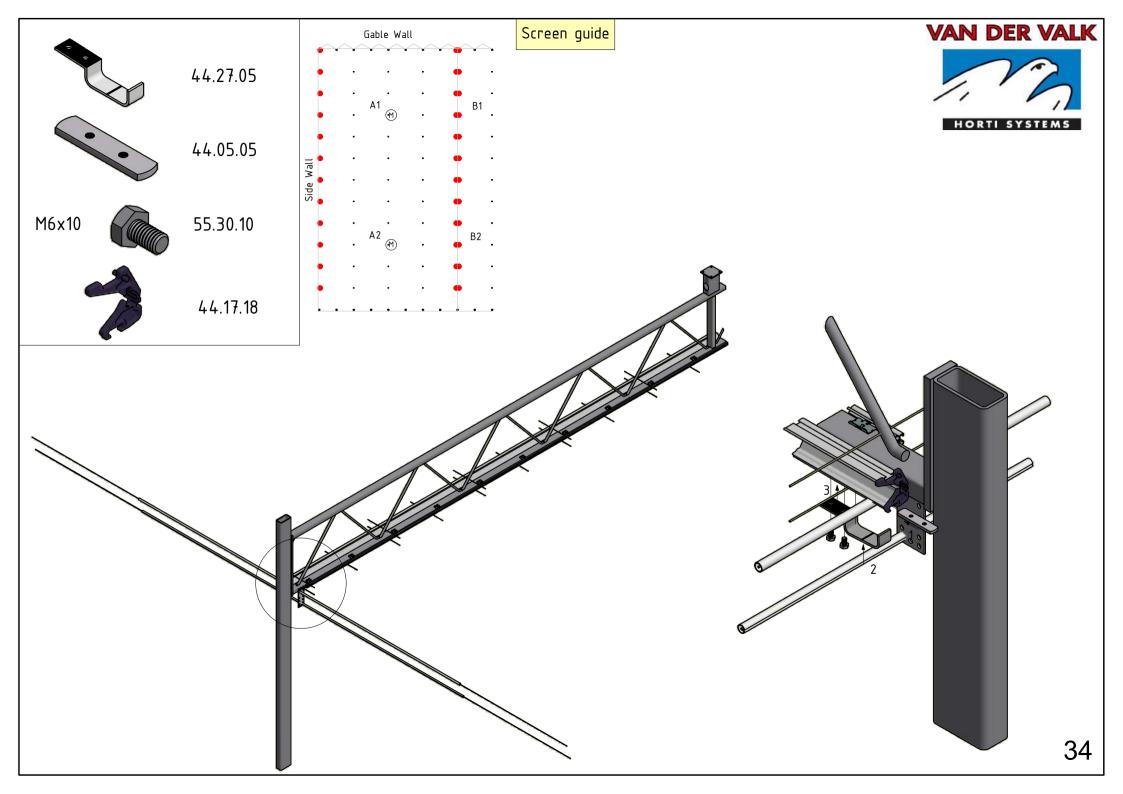


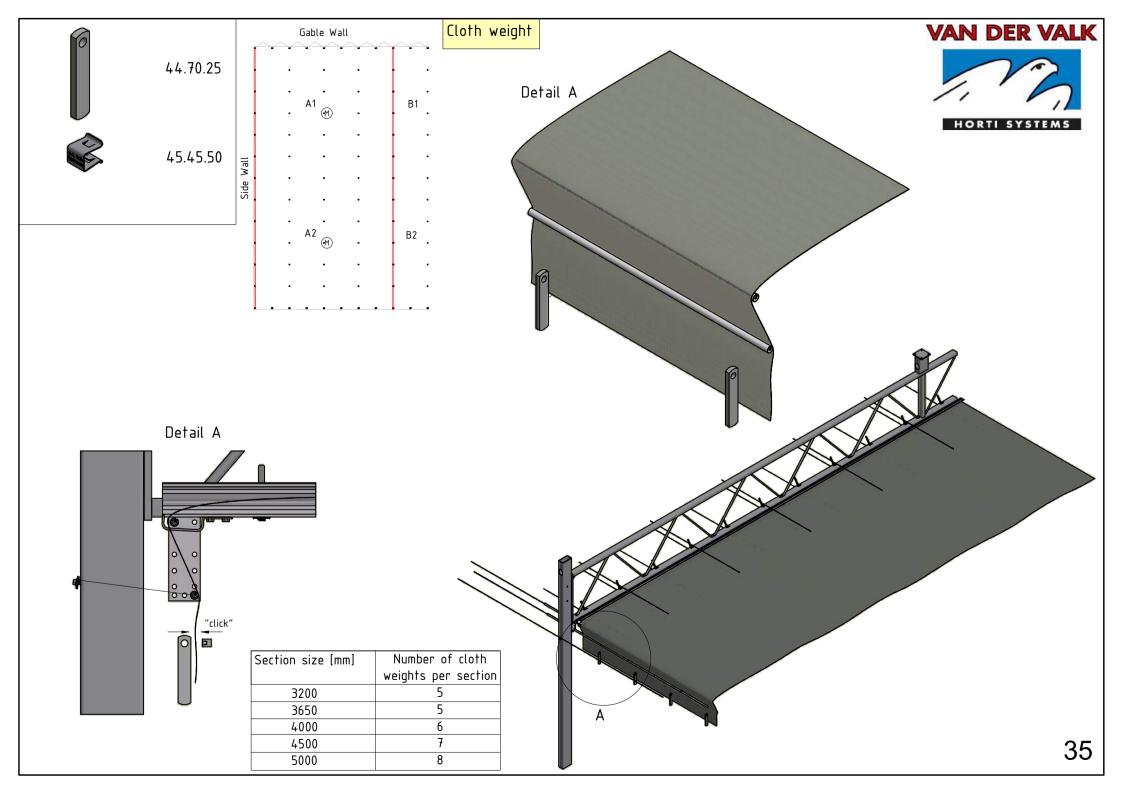


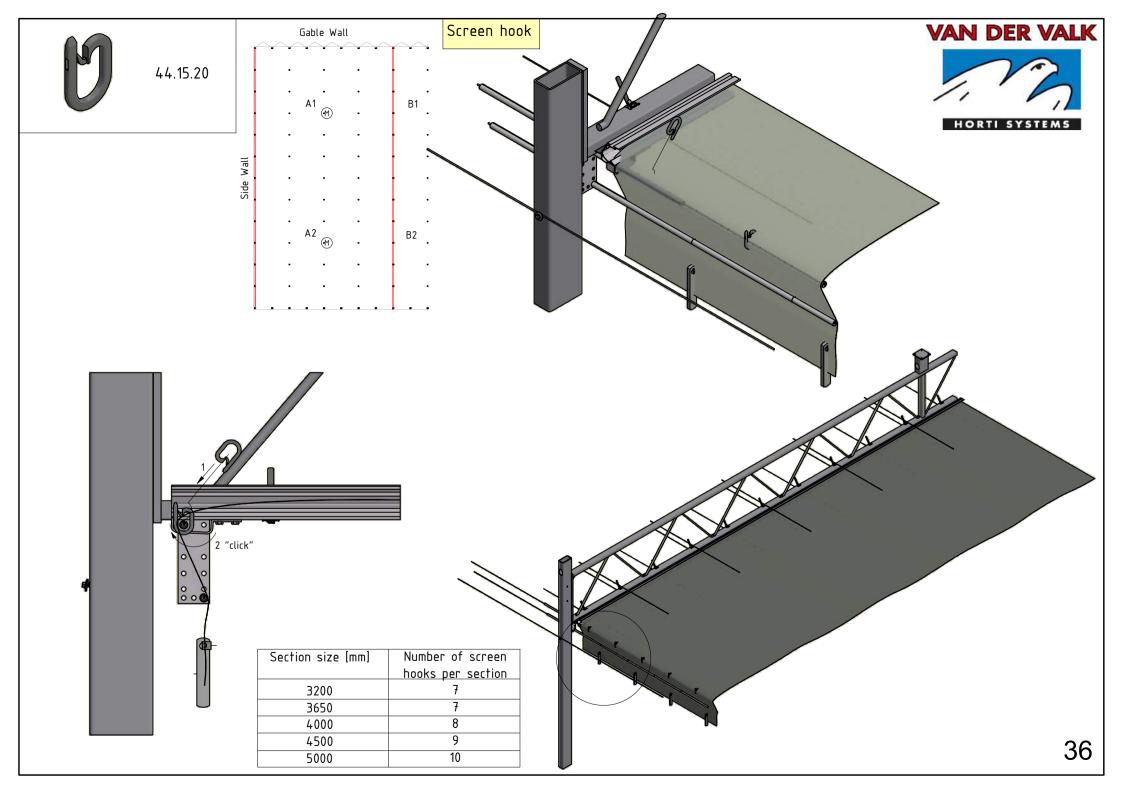














## Van der Valk Horti Systems

Van der Valk Horti Systems has been a familiar name in the greenhouse industry for many years. In fact, we are the only specialised company that has completely dedicated itself to the development and production of vent-opening and screen mechanisms. That is why our systems can be found in so many greenhouses. Our high-quality components not only get your business moving, but more importantly, keep it moving.

Greenhouses are becoming increasingly larger and more complex. And consequently the thousands of components are increasingly less accessible for maintenance. You must be able to blindly trust these. That is why at Van der Valk Horti Systems we go to extreme lengths with each new product development.

The development of new products and systems is a core activity. Each component clearly sets itself apart with its own carefully considered details. Moreover our products are fully tested and approved before they arrive in your greenhouse. Van der Valk Horti Systems, your guarantee for operational continuity.



PLEASE CONTACT VAN DER VALK HORTI SYSTEMS OR YOUR GREENHOUSE BUILDER/INSTALLER FOR MORE INFORMATION.