Installation manual for FuturaSun PV Modules

PV Module Clamping Zones

MOUNTING METHOD: CLAMPING

Top or bottom clamping methods will vary and are dependent on the mounting structures. Please follow the mounting guidelines recommended by the mounting system supplier.
Each module must be securely fastened at a minimum of four points on two opposite sides. The clamps should be positioned symmetrically. The clamps should be positioned according to the authorized position ranges.

Mounting using clamping method:

- FUTURASUN recommends the use of clamps with length ≥ 50mm.
- When using clamps, it is possible to mount the modules in horizontal (the shorter side of one module facing the shorter side of the neighboring module) or in vertical (the longer sides facing each other) configuration always observing the areas allowed for fixing. ⚠ **ATTENTION, not all modules are suitable for fixing in short side, please see the specific tables of mounting methods.** It is recommended to always use stainless steel screws and bolts.
- The modules can be mounted on continuous base structures (inclined or horizontal) such as rails or similar.
- Both base structures must be mounted at the same distance from the symmetrical axis (vertical or horizontal) of the module.
- In vertical configuration, it is strongly recommended to place the supporting elements nearby the mounting holes. This is necessary in order to maintain a correct load distribution.
- In accordance with Eurocodes - EN 1991, in the 3,4,5 area of the Alpine Region, the load capacity of module could be too low compared to what is necessary. The shape coefficient, the modules tilt and the installation layout must be taken into account. An accurate check must always be carried out by qualified technician.
- ⚠ **CAUTION, do not walk over the modules, right walkways should be considered in the installation for cleaning, repair and maintenance.**

At least 10 mm spacing must be maintained on all sides between the modules.

The specifications in the present manual are subject to revisions without further notice

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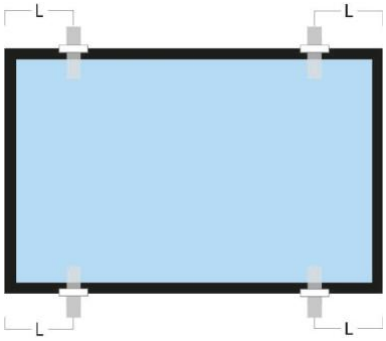
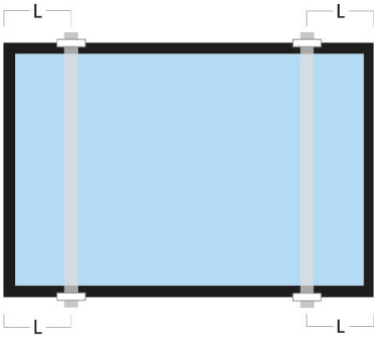
1. Four clamps on long side of frame and rails (or segment of rails) parallel to the short side frame.





Module Types	Max Mechanical Load (Pa)				
	+ 2000 / -1600	+ 2400 / - 1600	+3600 / - 1600	+5400 / - 2400	+7800 / - 5400
	L Range (mm)				
Silk® Pro 120 cells	0/250	350/520	250/350	⚠ not allowed	⚠ not allowed
Silk® Pro 144 cells	0/350	450/650	350/450	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/250	350/520	250/350	⚠ not allowed	⚠ not allowed
Silk® Plus 144 cells	0/350	450/650	350/450	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/300	450/550	300/450	⚠ not allowed	⚠ not allowed
Silk® Nova 108 cells	0/250	350/520	250/350	⚠ not allowed	⚠ not allowed
Silk® Nova 144 cells	0/350	450/650	350/450	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	-	550/640	0/300	450/550	300/450
Silk® Rhino 108 cells	-	520/620	0/300	450/520	300/450
Silk® Premium 120 cells	0/250	350/520	250/350	⚠ not allowed	⚠ not allowed
Silk® Premium 150 cells	0/350	450/650	350/450	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	0/400*	500/550*	400/500*	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	0/400*	500/600*	400/500*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	200/300*	400/500*	300/400*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 108 cells	0/400*	500/550*	400/500*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	325/475*	475/546*	546/646*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	0/400*	500/600*	400/500*	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	0/440*	540/640*	440/540*	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	0/425	525/625	425/525	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	0/390**	490/590**	390/490**	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	0/475**	575/675**	475/575**	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	0/400**	500/550**	400/500**	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	0/400**	500/600**	400/500**	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	0/360**	430/530**	360/430**	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	0/440**	540/640**	440/540**	⚠ not allowed	⚠ not allowed

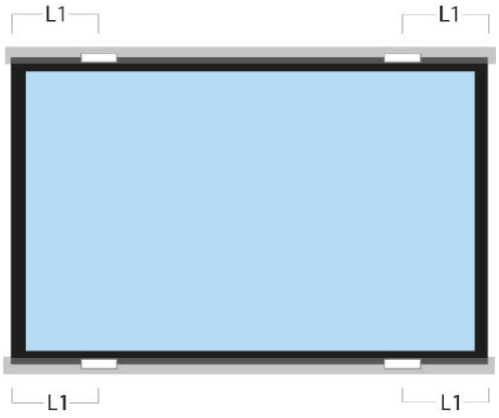
* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

2. Four clamps on short side of frame and railsparallel to the short side frame.

Module Types	Max Mechanical Load (Pa)		
	+/-1000	+/-1200	+/-1600
	L Range (mm)		
Silk® Pro 120 cells	0/100	100/200	⚠ not allowed
Silk® Pro 144 cells	0/200	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/100	100/200	⚠ not allowed
Silk® Plus 144 cells	0/200	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/100	100/200	⚠ not allowed
Silk® Nova 108 cells	0/100	100/200	⚠ not allowed
Silk® Nova 144 cells	0/200	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	-	0/100	100/200
Silk® Rhino 108 cells	-	0/100	100/200
Silk® Premium 120 cells	0/100	100/200	⚠ not allowed
Silk® Premium 150 cells	0/200	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	100/240*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	130/240*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	0/150	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

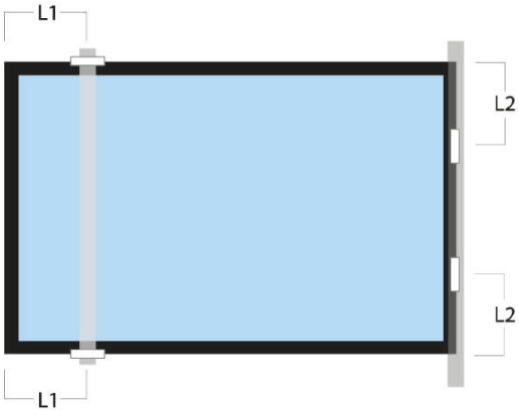
3. Four clamps on long side of frame andrails parallel to the long side frame.



Module Types	Max Mechanical Load (Pa)		
	+ 2000 / - 1600	+ 2400 / - 1600	+3600 / - 1600
	L Range (mm)		
Silk® Pro 120 cells	150/250	250/450	⚠ not allowed
Silk® Pro 144 cells	150/250	250/550	⚠ not allowed
Silk® Plus 108 cells	150/250	250/450	⚠ not allowed
Silk® Plus 144 cells	250/350	350/550	⚠ not allowed
Silk® Nova 96 cells	150/250	250/450	⚠ not allowed
Silk® Nova 108 cells	150/250	250/450	⚠ not allowed
Silk® Nova 144 cells	250/350	350/550	⚠ not allowed
Silk® Rhino 96 cells	0/300	450/550	300/450
Silk® Rhino 108 cells	0/300	450/520	300/450
Silk® Premium 120 cells	150/250	250/450	⚠ not allowed
Silk® Premium 150 cells	250/350	350/550	⚠ not allowed
Silk® Plus Duetto 108 cells	300/400*	400/500*	⚠ not allowed
Silk® Plus Duetto 144 cells	300/400*	400/500*	⚠ not allowed
Silk® Nova Duetto 96 cells	400/500*	300/400*	⚠ not allowed
Silk® Nova Duetto 108 cells	300/400*	400/500*	⚠ not allowed
Silk® Nova Duetto 132 cells	475/546*	546/646*	⚠ not allowed
Silk® Nova Duetto 144 cells	300/400*	400/500*	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	340/440*	440/540*	⚠ not allowed
ZEBRA Pro 132 cells	325/425	425/525	⚠ not allowed
Velvet Pro 120 cells	290/390**	390/490**	⚠ not allowed
Velvet Pro 144 cells	375/475**	475/575**	⚠ not allowed
Velvet Plus 108 cells	300/400*	400/500*	⚠ not allowed
Velvet Plus 144 cells	300/400*	400/500*	⚠ not allowed
Velvet Premium Max 120 cells	260/360**	360/430**	⚠ not allowed
Velvet Premium Max 132 cells	340/440**	440/540**	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

4. Two clamps on the long side and two clamps on the short side of frame. Rails run parallel to the short side frame.



Module Types	Max Mechanical Load (Pa)					
	+ 1000 / - 1000		+2400 / -1600		+3600 / - 1600	
	L1 Range (mm)	L2 Range (mm)	L1 Range (mm)	L2 Range (mm)	L1 Range (mm)	L2 Range (mm)
Silk® Pro 120 cells	⚠ not allowed	⚠ not allowed	250/450	100/250	⚠ not allowed	⚠ not allowed
Silk® Pro 144 cells	250/450	100/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/250	0/100	250/450	100/250	⚠ not allowed	⚠ not allowed
Silk® Plus 144 cells	250/450	100/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/250	0/100	250/450	100/250	⚠ not allowed	⚠ not allowed
Silk® Nova 108 cells	0/250	0/100	250/450	100/250	⚠ not allowed	⚠ not allowed
Silk® Nova 144 cells	250/450	100/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	0/150	0/100	150/250	0/100	250/400	100/250
Silk® Rhino 108 cells	0/150	0/100	150/250	0/100	250/400	100/250
Silk® Premium 120 cells	⚠ not allowed	⚠ not allowed	250/450	100/250	⚠ not allowed	⚠ not allowed
Silk® Premium 150 cells	250/450	100/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	100/240*	200/500*	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	0/270	0/100	270/485	100/250	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed

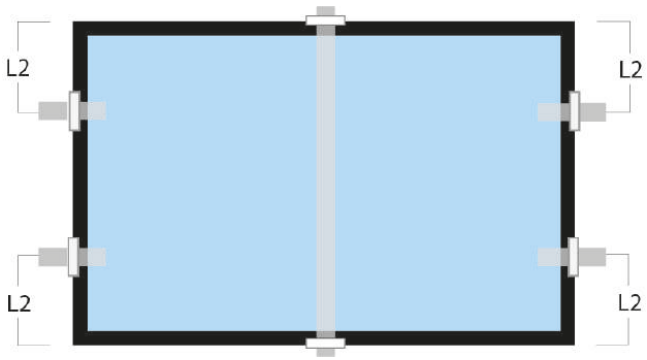
* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

5. Four clamps on short side of frame and rails (or segment of rails) parallel to the long side frame.

Module Types	Max Mechanical Load (Pa)				
	+ 1600 / - 1000	+ 2000 / - 1600	+ 2400 / - 1600	+3600 / - 1600	+5400 / - 2400
	L Range (mm)				
Silk® Pro 120 cells	0/150	-	150/250	⚠ not allowed	⚠ not allowed
Silk® Pro 144 cells	150/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/150	-	150/250	⚠ not allowed	⚠ not allowed
Silk® Plus 144 cells	150/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/235	235/335	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova 108 cells	0/150	-	150/250	⚠ not allowed	⚠ not allowed
Silk® Nova 144 cells	150/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	-	-	0/120	120/230	230/330
Silk® Rhino 108 cells	-	-	0/120	120/230	230/330
Silk® Premium 120 cells	⚠ not allowed	⚠ not allowed	150/250	⚠ not allowed	⚠ not allowed
Silk® Premium 150 cells	150/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	100/240*	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	130/240*	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	150/250	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

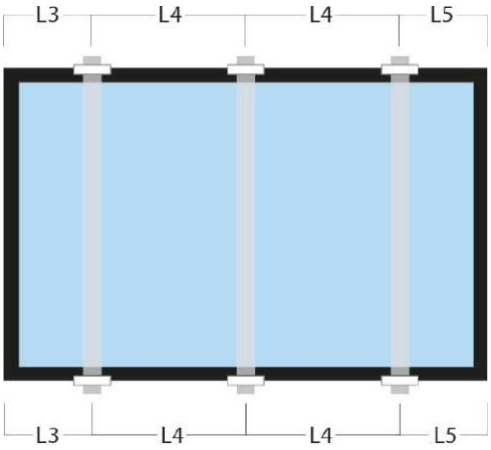
6. Four clamps mounting on short sideof frame, and an additional support barplaced below the center of the module.



Module Types	Max Mechanical Load (Pa)			
	+ 1600 / - 1600	+ 3000 / - 2400	+ 3600 / - 2400	+ 5400 / - 2400
	L Range (mm)	L Range (mm)	L Range (mm)	L Range (mm)
Silk® Pro 120 cells	-	0/200	⚠ not allowed	⚠ not allowed
Silk® Pro 144 cells	0/200	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	-	0/200	⚠ not allowed	⚠ not allowed
Silk® Plus 144 cells	0/200	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/235	235/335	⚠ not allowed	⚠ not allowed
Silk® Nova 108 cells	-	0/200	⚠ not allowed	⚠ not allowed
Silk® Nova 144 cells	0/200	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	-	0/120	120/230	230/330
Silk® Rhino 108 cells	-	0/120	120/230	230/330
Silk® Premium 120 cells	⚠ not allowed	0/200	⚠ not allowed	⚠ not allowed
Silk® Premium 150 cells	0/200	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	-	100/240*	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	130/240*	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	⚠ not allowed	0/200	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

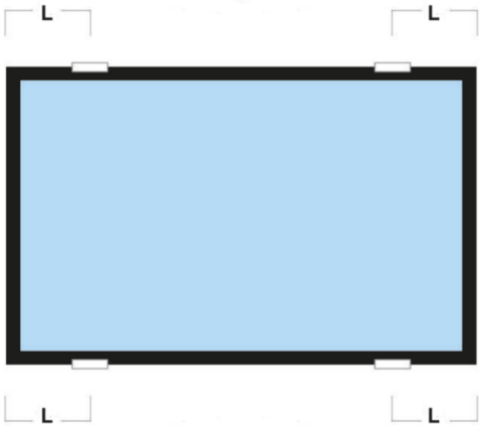
7. Six clamps on long side of frame andrails parallel to the short side frame.



Module Types	Max Mechanical Load (Pa)	
	+ 5400 / - 2400	+ 7800 / - 5400
	L3 & L5 Range (mm)	L3 & L5 Range (mm)
Silk® Pro 120 cells	0/450	⚠ not allowed
Silk® Pro 144 cells	0/550	⚠ not allowed
Silk® Plus 108 cells	0/450	⚠ not allowed
Silk® Plus 144 cells	0/550	⚠ not allowed
Silk® Nova 96 cells	0/450	⚠ not allowed
Silk® Nova 108 cells	0/450	⚠ not allowed
Silk® Nova 144 cells	0/550	⚠ not allowed
Silk® Rhino 96 cells	-	0/450
Silk® Rhino 108 cells	-	0/450
Silk® Premium 120 cells	0/450	⚠ not allowed
Silk® Premium 150 cells	0/550	⚠ not allowed
Silk® Plus Duetto 108 cells	0/450*	⚠ not allowed
Silk® Plus Duetto 144 cells	0/550*	⚠ not allowed
Silk® Nova Duetto 96 cells	200/450*	⚠ not allowed
Silk® Nova Duetto 108 cells	0/450*	⚠ not allowed
Silk® Nova Duetto 132 cells	325/646*	⚠ not allowed
Silk® Nova Duetto 144 cells	0/550*	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	0/600**	⚠ not allowed
ZEBRA Pro 132 cells	0/500	⚠ not allowed
Velvet Pro 120 cells	0/450**	⚠ not allowed
Velvet Pro 144 cells	0/550**	⚠ not allowed
Velvet Plus 108 cells	0/450**	⚠ not allowed
Velvet Plus 144 cells	0/550**	⚠ not allowed
Velvet Premium Max 120 cells	0/550**	⚠ not allowed
Velvet Premium Max 132 cells	0/600**	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

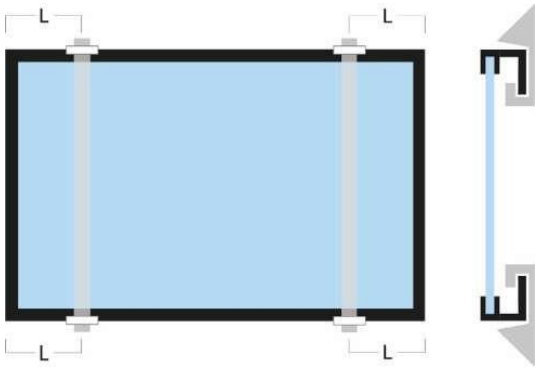
8. Rail-less clamping



Module Types	Max Mechanical Load (Pa)			
	+ 1600 / - 1600	+ 2000 / - 1600	+ 2400 / - 1600	+ 3600 / - 1600
	L Range (mm)			
Silk® Pro 120 cells	0/150	150/240	240/340	⚠ not allowed
Silk® Pro 144 cells	0/427	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/220	220/320	320/430	⚠ not allowed
Silk® Plus 144 cells	0/464	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	0/220	220/320	320/430	⚠ not allowed
Silk® Nova 108 cells	0/220	220/320	320/430	⚠ not allowed
Silk® Nova 144 cells	0/464	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	0/120	120/220	220/320	320/430
Silk® Rhino 108 cells	0/120	120/220	220/320	320/430
Silk® Premium 120 cells	0/150	150/240	240/340	⚠ not allowed
Silk® Premium 150 cells	0/437	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	0/220*	220/320*	320/430*	⚠ not allowed
Silk® Plus Duetto 144 cells	0/464*	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	200/300*	400/500*	300/400*	⚠ not allowed
Silk® Nova Duetto 108 cells	0/220*	220/320*	320/430*	⚠ not allowed
Silk® Nova Duetto 132 cells	325/475*	475/546*	546/646*	⚠ not allowed
Silk® Nova Duetto 144 cells	0/464*	⚠ not allowed	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	-	0/368	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	0/150**	150/240**	240/340**	⚠ not allowed
Velvet Pro 144 cells	0/427**	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	0/220**	220/320**	320/430**	⚠ not allowed
Velvet Plus 144 cells	0/464**	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed	⚠ not allowed	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

9. Frame foot interlock four clamps on long side of frame, the fixing points are on the foot of frame.



Module Types	Max Mechanical Load (Pa)	
	+ 2000 / -1600	+ 2400 / - 1600
	L Range (mm)	
Silk® Pro 120 cells	0/341	⚠ not allowed
Silk® Pro 144 cells	⚠ not allowed	⚠ not allowed
Silk® Plus 108 cells	0/320	⚠ not allowed
Silk® Plus 144 cells	⚠ not allowed	⚠ not allowed
Silk® Nova 96 cells	450/550	300/450
Silk® Nova 108 cells	0/320	⚠ not allowed
Silk® Nova 144 cells	⚠ not allowed	⚠ not allowed
Silk® Rhino 96 cells	450/550	300/450
Silk® Rhino 108 cells	0/320	320/430
Silk® Premium 120 cells	0/341	⚠ not allowed
Silk® Premium 150 cells	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 108 cells	⚠ not allowed	⚠ not allowed
Silk® Plus Duetto 144 cells	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 96 cells	300/400*	⚠ not allowed
Silk® Nova Duetto 108 cells	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 132 cells	⚠ not allowed	⚠ not allowed
Silk® Nova Duetto 144 cells	⚠ not allowed	⚠ not allowed
Silk® Nova Premium Max Duetto 132 cells	⚠ not allowed	⚠ not allowed
ZEBRA Pro 132 cells	⚠ not allowed	⚠ not allowed
Velvet Pro 120 cells	⚠ not allowed	⚠ not allowed
Velvet Pro 144 cells	⚠ not allowed	⚠ not allowed
Velvet Plus 108 cells	⚠ not allowed	⚠ not allowed
Velvet Plus 144 cells	⚠ not allowed	⚠ not allowed
Velvet Premium Max 120 cells	⚠ not allowed	⚠ not allowed
Velvet Premium Max 132 cells	⚠ not allowed	⚠ not allowed

* With clamps length ≥ 80 mm
** With clamps length ≥ 60 mm

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