

SCHLETTER
The Solar Mounting Group

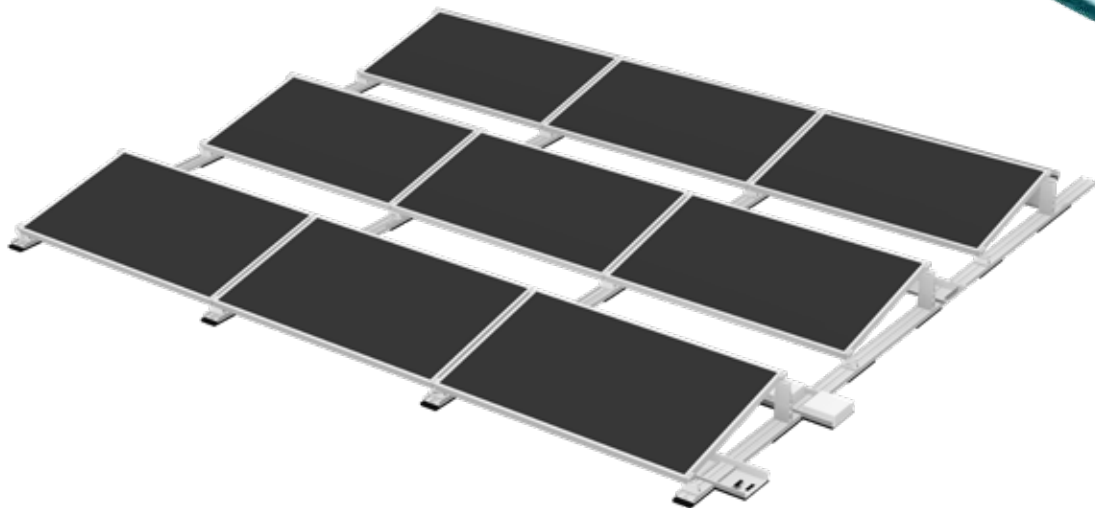
FixGrid South

(short side clamping)

FixGrid+ South

(long side clamping)

INSTALLATION MANUAL



NOTE ON USE OF ROOFS WITH SUBSTRATE OR GRAVELLED COVERING

For roofs with substrate or gravel covering, it must be considered that a low weight load for the system can only be achieved if sliding of the system sections is reliably prevented by an adequately slip-free connection for the substrate surface. For gravel roofs, flush embedding of the base beams in the gravel surface is enough. For overgrown roofs, slip resistance can be achieved with additional measures. For example, screws in the continuous beam can be used on the construction site to create a nonslip connection to the substrate.

INSTALLATION MANUAL FOR SIMPLE ALIGNMENT (E.G. SOUTH)

TOOLS NEEDED

Tape measure, screwdriver with TX drive T40 bit (module assembly) and socket wrench with SW8 socket (Windsafe installation)

OTHER NECESSARY DOCUMENTS

General installation manual – Installation and project planning
Installation manual Rapid16 module clamps
Product sheet FixGrid kit

FASTENING TORQUES

M8 screw fittings: 15 Nm
Exception: Self-drilling screws must be screwed on in the direction of the end stop.

SAFETY INSTRUCTIONS



The system must be installed with ballast according to load statics. You can get this with the system plan from the Schletter configuration tool.



Break hazard! PV modules can be damaged if they are entered.



Planning of the solar power system, installation and commissioning must be done only by qualified technical personnel. Improper execution can damage the system and endanger people.



Electrical current hazard! Installation and maintenance of the PV module must be done only by qualified professionals. Obey the PV module manufacturer's safety instructions!



Falling hazard! During all work on the roof, and when climbing up and down, there is a risk of falling. Always obey the accident prevention regulations and use appropriate fall protection equipment.



Injury hazard! People can be injured by falling objects. In the hazard area, before starting installation, set up barriers and warn people in the area.

INSTALLATION INSTRUCTIONS

-  Make sure the flat roof seal and the installation system are compatible. Roof drainage must be incorporated into the system plan.
-  For very uneven roofs or roof seals, compensation measures may need to be taken to ensure even loading.
-  The necessary gaps from the roof borders must be maintained.
-  The maximum field type depends on the type of roof.
For film roofs, it is no more than 10 m, and for concrete roofs, this can be even larger in some cases.
-  For roofs with a substrate or gravel covering, it must be ensured that the connection is slip-resistant enough.
-  Check the existing incline of the roof and whether the installation system needs to be secured against slipping.
-  The surface load must not exceed the building's remaining load capacity!
-  The partial surface pressure exerted under the base profiles and the roof cladding and insulation must never exceed the maximum permissible surface pressure.
-  Current country-specific laws and regulations must be followed!
-  Roof cleaning! To ensure flat support of the base profile, contamination like moss, leaves, dirt, stones, etc., absolutely must be removed.
-  If there is a lightning protection system, determine to what extent a certified lightning protection company must integrate it. It should also be checked whether the installation changes the lightning protection requirements.
-  For static reasons, installing a single row of modules is not permitted.
-  Before installation, the roof must be checked for all types of damage — especially water creasing and damage to the roof cladding. These should be documented with photos to protect against third-party claims.
-  The system is designed for modules with a width of 950–1050 mm (typical module dimensions according to the current state of the art). Other module dimensions are available upon request and with special verification. Observe the manufacturer's information on module clamping.
-  The FixGrid18 mounting system is fixed to the roof purely with ballast (except special cases). A detailed ballast calculation can be found in the project-related planning documents. The ballasting is calculated in such a way that sliding, tilting and lifting of the rack is avoided.
-  Install only original Schletter components!
-  No modifications to the module are required to secure them.
-  All other markings, information on the number of modules and additional information can be found in the project-specific documents.
-  Use the current installation manual!

Can be found at our website: www.schletter-group.com in the FixGrid18 area.

TECHNICAL DATA

- Conforms to UL 2703
- Certified to LTR AE-001
- Fire class resistance rating: Class A when used with type I photovoltaic modules

FixGrid South (Short side clamping)

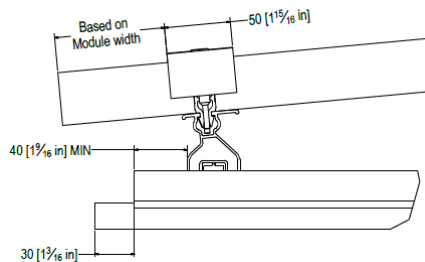
1. DEFINING BASE PROFILE LENGTHS AND MODULE SUPPORT GAPS

The length of the base profile depends on the selected shadowing distance versus the module width and the number of module rows. The shadowing distance can be calculated using the configuration tool. Distance "a" between "system profile bottom" and "system profile top" is fixed as shown below:

- For version 5: 863mm (front of lower rail to front of rear rail)
- For version 10: 900mm (front of lower rail to front of rear rail)
- For version 13: 895mm (front of lower rail to front of rear rail)

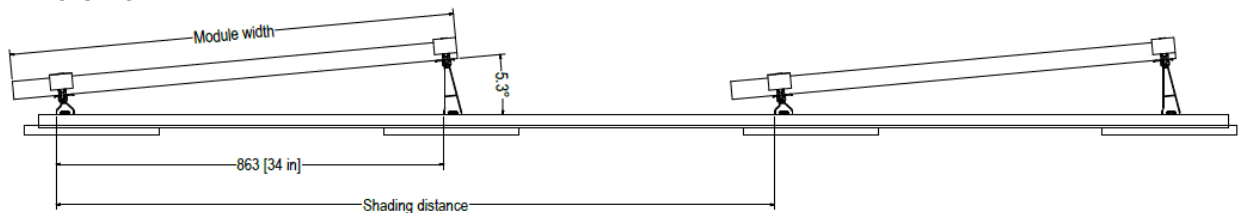
The first support must be placed at least 40 mm from the front edge of the base profile. When this rule is followed, the module frame width always closes flush with the Rapid16 module clamps (bottom and top).

The base profile length can be selected from the six standard lengths (2150, 2650, 3150, 4200, 6000, 6300 mm) and combined together. For this, the base profiles can be connected to the internal connector, item No. 129078-000. The maximum permissible field size must be observed!

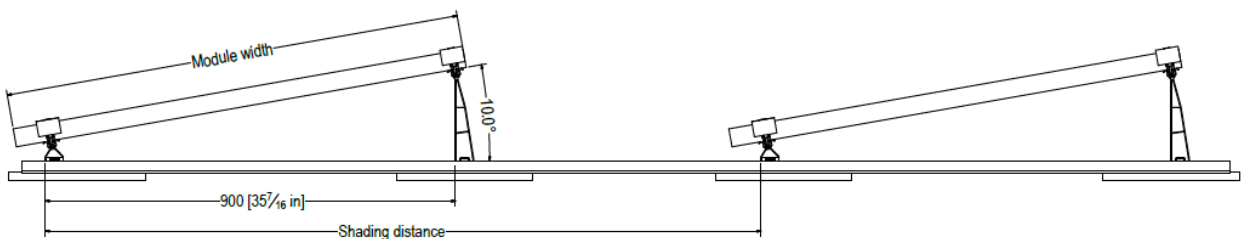


VERSION 5:

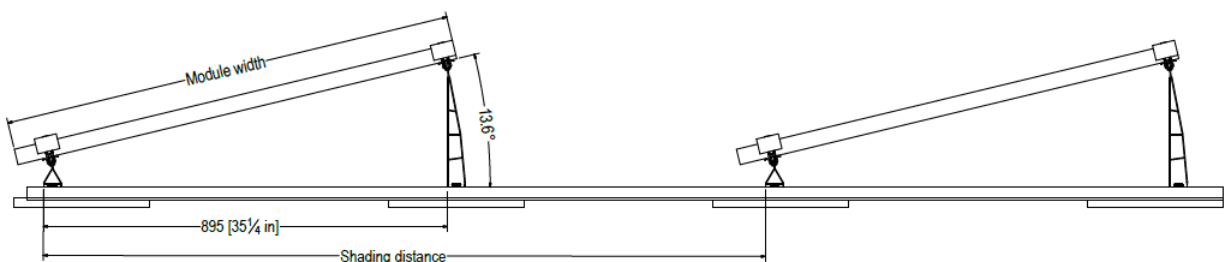
For shading distance; refer to page 3 of the structural report (Row distance S=X.XXm)



VERSION 10:



VERSION 13:



TECHNICAL DATA

- Conforms to UL 2703
- Certified to LTR AE-001
- Fire class resistance rating: Class A when used with type I photovoltaic modules

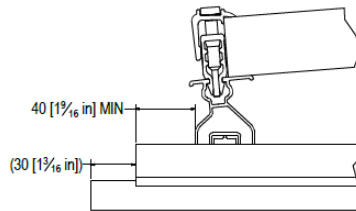
FixGrid+ South (Long side clamping)

1. DEFINING BASE PROFILE LENGTHS AND MODULE SUPPORT GAPS

The length of the base profile depends on the selected shadowing distance versus the module width and the number of module rows. The shadowing distance can be calculated using the configuration tool. Distance "a" between "system profile bottom" and "system profile top" is based on module width. (see below) :

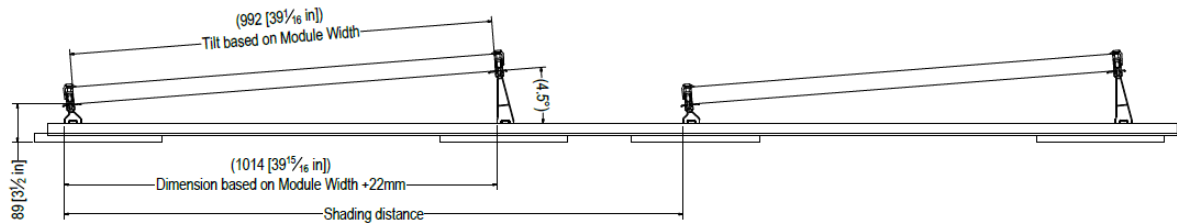
The first support must be placed at least 40 mm from the front edge of the base profile. When this rule is followed, the module frame width always closes flush with the Rapid16 module clamps (bottom and top).

The base profile length can be selected from the six standard lengths (2150, 2650, 3150, 4200, 6000, 6300 mm) and combined together. For this, the base profiles can be connected to the internal connector, item No. 129078-000. The maximum permissible field size must be observed!

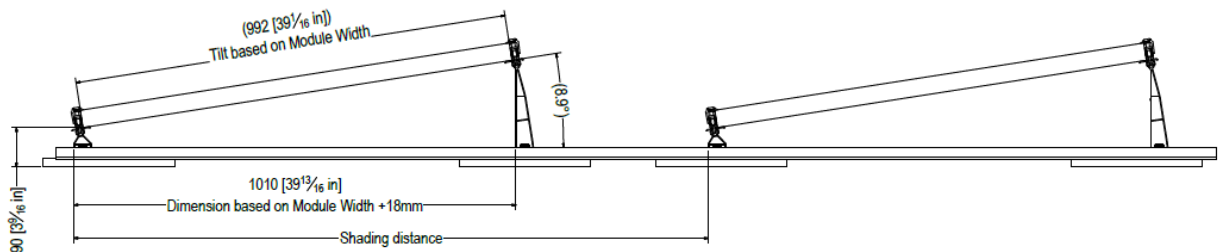


VERSION 5:

For shading distance; refer to page 3 of the structural report (Row distance S=X.XXm)



VERSION 10:

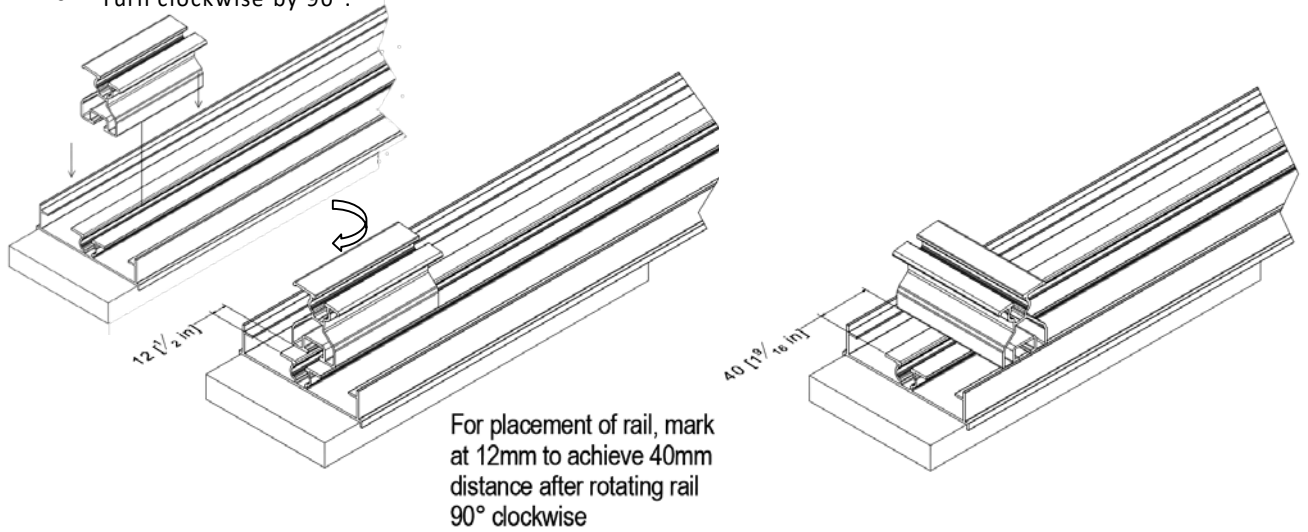




Installation times can be optimized by pre-assembling a row of base profiles side by side on assembly stands with the installation supports.

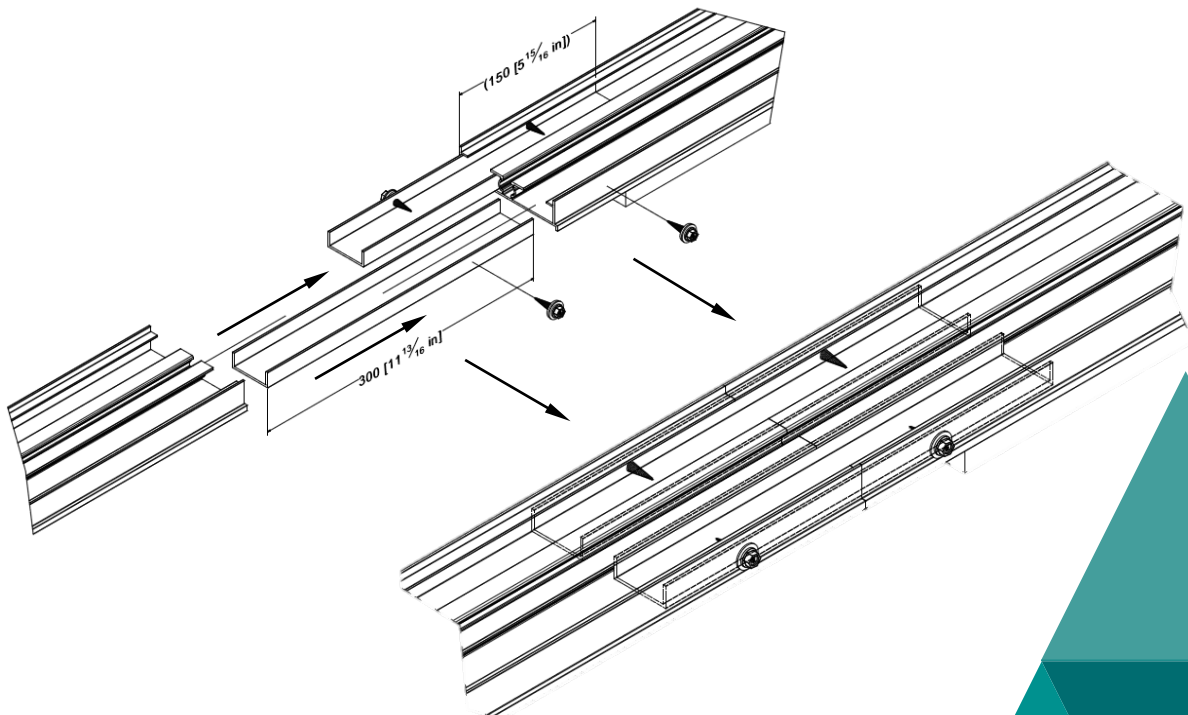
2. INSTALLATION OF THE MODULE SUPPORT WITH PRE-ASSEMBLED ONE-TURN CONNECTOR ON THE BASE PROFILE

- Marking for the mounting of the module support:
Front edge of the module support = Distance - 28 mm
- Place the front edge of the support on the mark; pay attention to the direction of rotation!
- Turn clockwise by 90°.



3. EXTENSION OF THE BASE RAILS

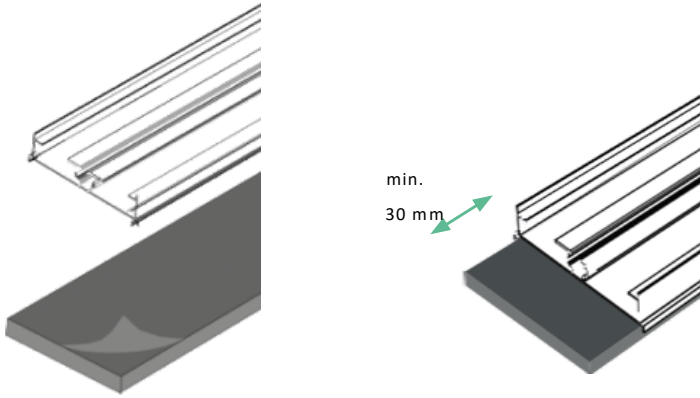
- Insert splice section 150mm into the base rail as shown below.
- Secure splice in place using self drilling screws provided, 1 per base rail per splice.



Observe the suitable module and row distances for profile and module installation.

4. INSTALLATION OF THE STRUCTURE PROTECTION MAT

Adhere the structure protection mat (300/110/20 mm) after removing the protective film on the base profile. Observe the structure protection mat's minimum 30 mm excess length at the profile ends.



The structure protection mat installation distances below the base profile are based on the selected installation version.

VERSION A:

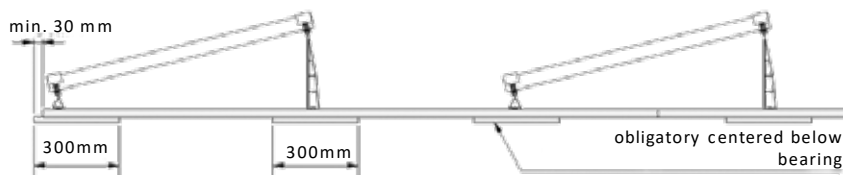
- Place 20 mm thick, 300 mm long strips centrally under under each support.
- Load placement on small surface (for light loads and/or firm substrate)
- Under impact from the base profiles, an additional structure protection mat should be positioned!
- For transverse flowing roof water, almost unhindered drainage is possible.



The permissible surface pressure of the roof must be checked!



Adequate drainage of precipitation water must be ensured!

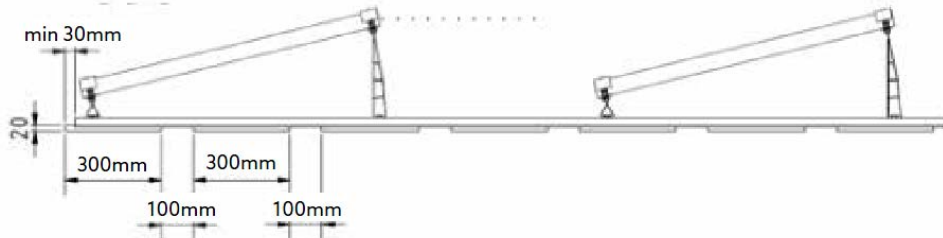


VERSION B:

- Place 20 mm thick, 300 mm long strips with a distance of 100 mm between them.
- Load distribution on a large surface (for high loads and/or soft substrate with low permissible surface pressure).
- Also suitable for transversely draining roof water.



The permissible surface pressure of the roof must be checked!

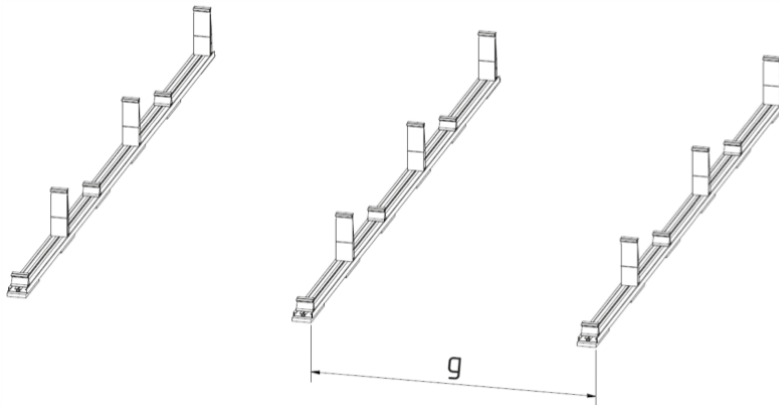


With transverse draining precipitation water, adequate distance must be ensured. This must be measured on site according to the local pre-cipitation quantity.

4. ALIGNING THE BASE PROFILES

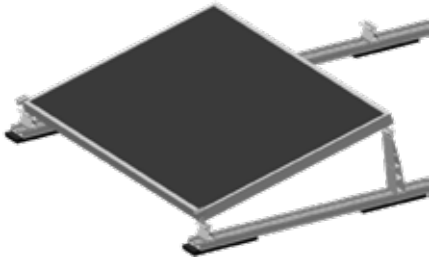
(Before base rail placement all gravel is to be cleared for flush placement on the roof)

- Align the base profiles parallel to each other, the FixZ system profile aligned and at a right angle to the base profiles on the substrate.
- Distance $g = \text{Module length} + 23 \text{ mm}$



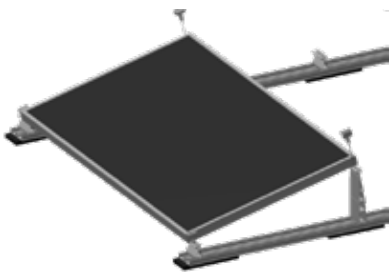
5. PLACING THE FIRST MODULE

- Snap in and position the Rapid16 end clamps on the module field border. Also click the Rapid16 middle clamp with a generous gap, so that the module can be inserted between the clamps.
- Place the module on the FixZ system profile and align the lower edge with the previously inserted Rapid16 clamps. Observe the module alignment according to the module row.



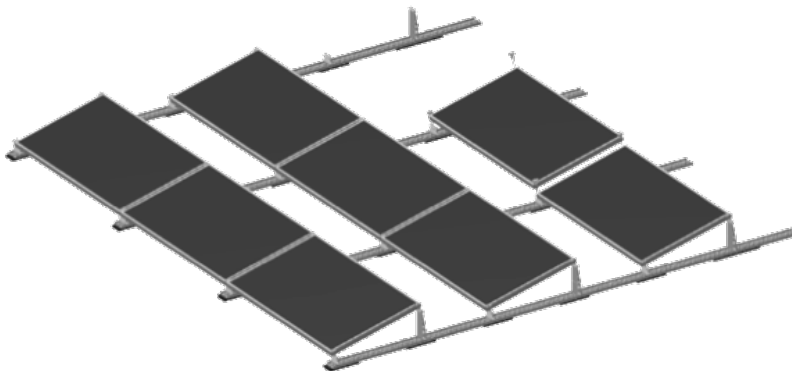
6. INSTALLING THE FIRST MODULE

- Place and tighten the end clamps (bottom and top) on the module, fasten with M8 (T40) screws.
- Place the central module clamp on the module but do not tighten.
- Connect the module cable according to the plan.



7. Installing further modules

- Installing another module.
- Tighten the middle clamps (bottom and top) between the modules with M8 screws (T40).
- Pre-install further middle clamps on the free side of the module.
- Connect the module cable according to the plan.
- Repeat the steps in order until the last module.

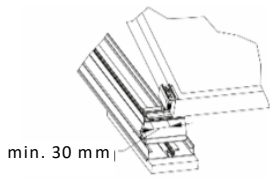


INSTALLING THE LAST MODULE OF THE ROW

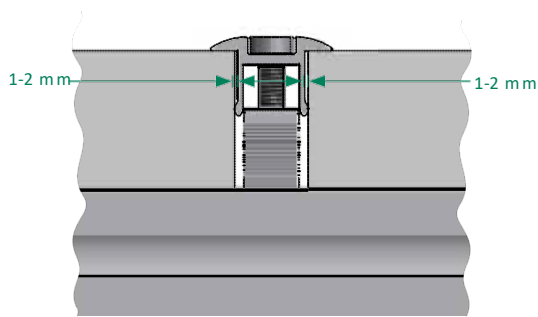
- Place the last module
- Tighten the middle clamps (bottom and top) between the modules with M8 screws (T40).
- Install the end clamps on the free side of the module and tighten.
- Connect the module cable according to the plan.



Insert end clamps at least 30 mm from the end of the profile.



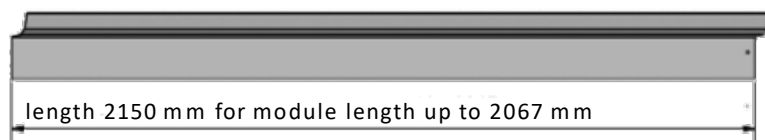
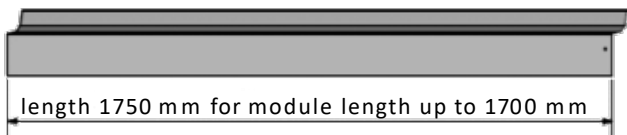
Observe the module distance for middle clamps.



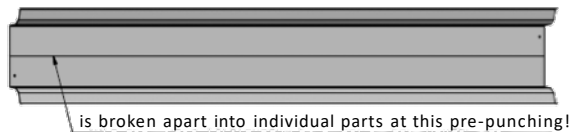
9. INSTALLING WINDSAFES

For each incline variant, there are two length types for Windsafe sheets:

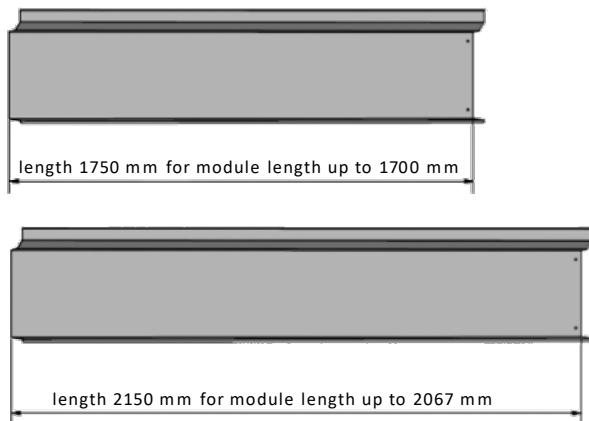
VERSION 5°:



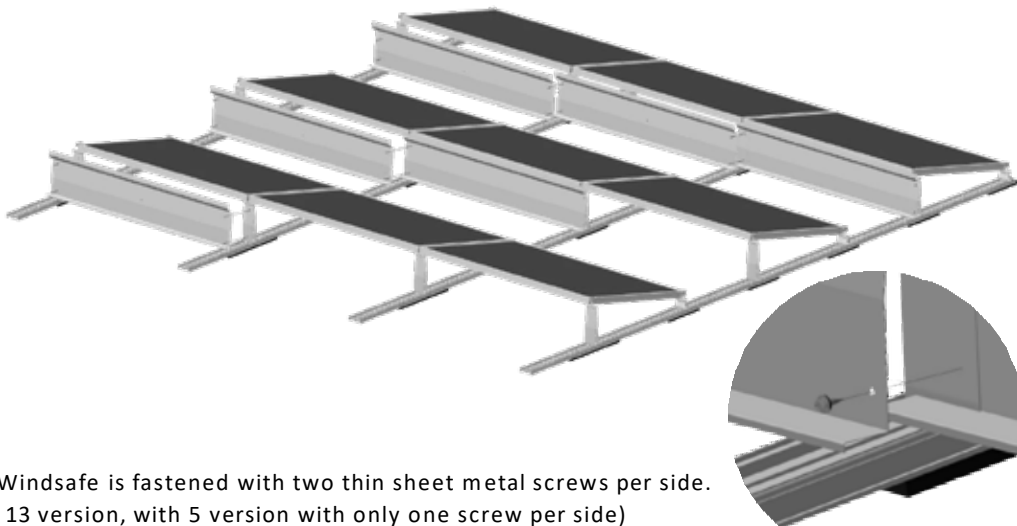
Delivery state as double element: pre-punched in the middle



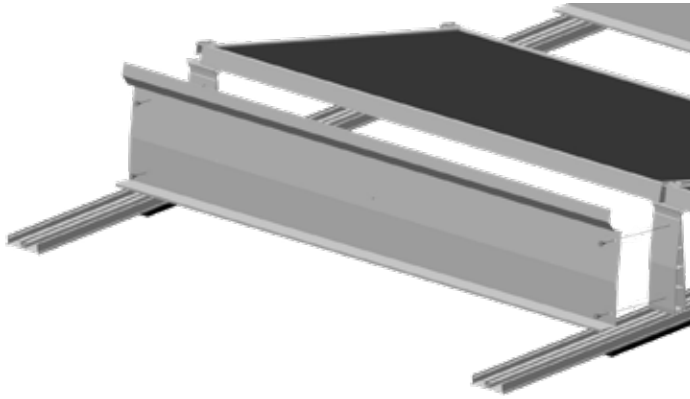
VERSION 13°:



- The Windsafes of the 5 version are fastened with one self-drilling screw, and the 10 & 13 versions with 2 self drilling screws per module support.
- Viewed from the back, the Windsafes are installed from right to left. For this, the first Windsafe must be placed on the base profile and distributed on the two supports.
- With thin sheet metal screws, the Windsafe is screwed on through the two holes (13 version) on the right side onto the upper FixZ system profile. (5 version with only one screw)
- Place further Windsafes on the base profile, align them laterally, and screw them on to the right through the holes of the upper Windsafe, both Windsafes on the FixZ system profile. The last Windsafe on the left side must be fastened with two thin sheet metal screws at the same height.



One Windsafe is fastened with two thin sheet metal screws per side.
(10 & 13 version, with 5 version with only one screw per side)



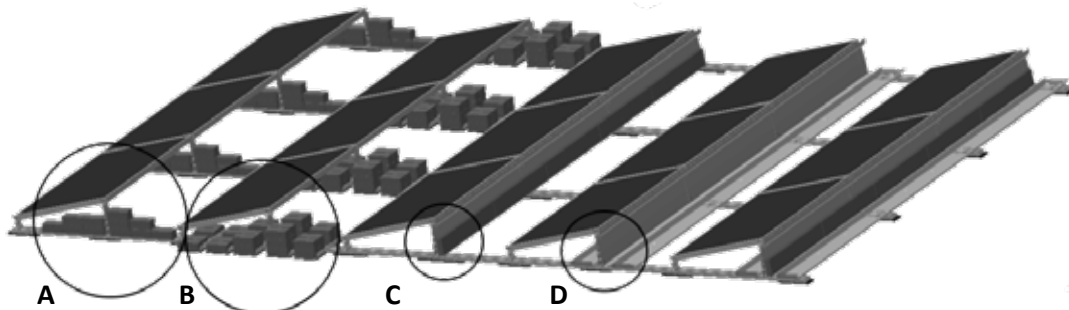
Windsafes are to be installed only at the intended locations according to the static layout. Inside the module field, in many cases no Windsafes are necessary.

10. INSTALLING THE BALLAST

There are basically 4 possibilities for ballast installation:

- Ballast with concrete stones 100 mm wide on the base profiles (see detail A)
- Ballast with additional troughs (see detail B)
- Ballast with standing lawn edging stones on the Windsafe (see detail C, for 13° version only, securing the stones against tipping over is recommended)
- Ballast with additional ballast shafts (see detail D)

or ballast from a combination of the four options



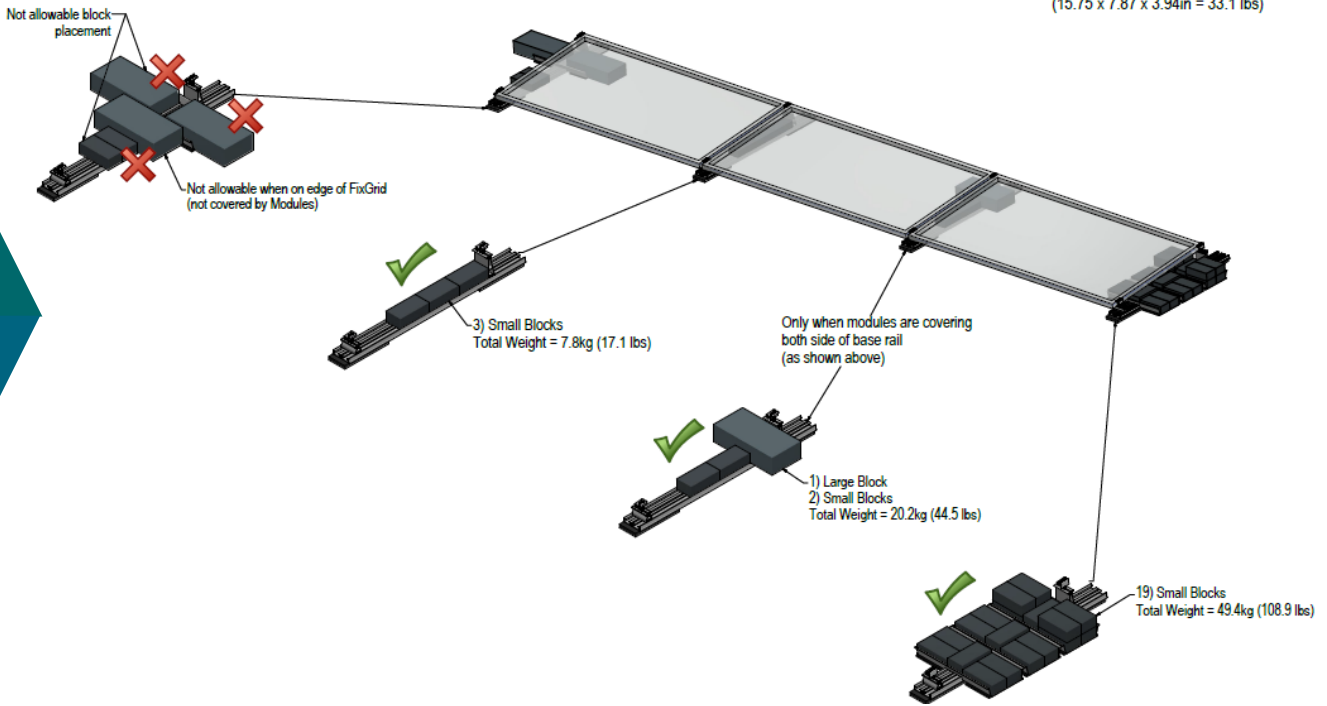
The information on ballast can be taken from the system plan from the Schletter configuration tool.



Fasten the structure protection mat pieces to the additional troughs with the fastening flaps. (Ballast does not come with delivery.)

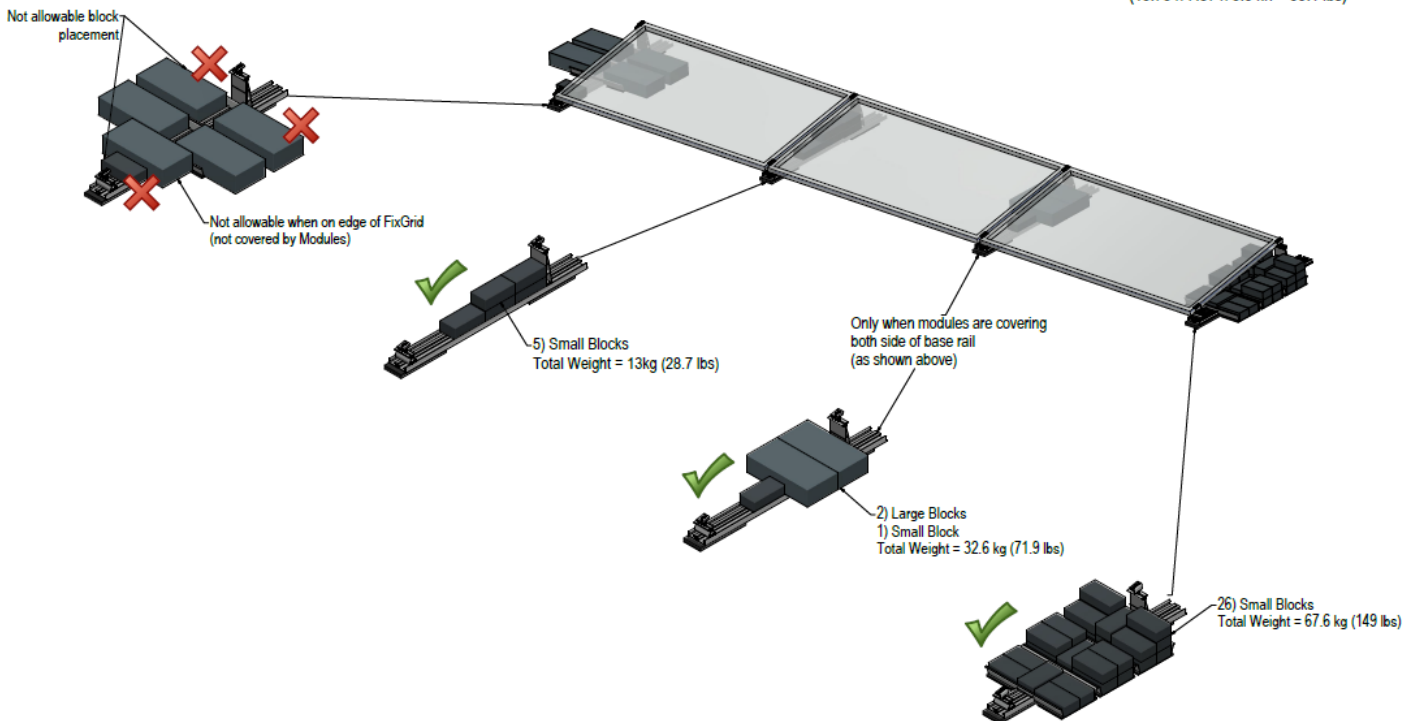
BALLAST EXAMPLES FIXGRID 5 SOUTH:

Concrete Block Sizes:
 Small Block: 20 x 10 x 6cm = 2.6 kg
 (7.87 x 3.94 x 2.36in = 5.7 lbs)
 Large Block: 40 x 20 x 10cm = 15 kg
 (15.75 x 7.87 x 3.94in = 33.1 lbs)

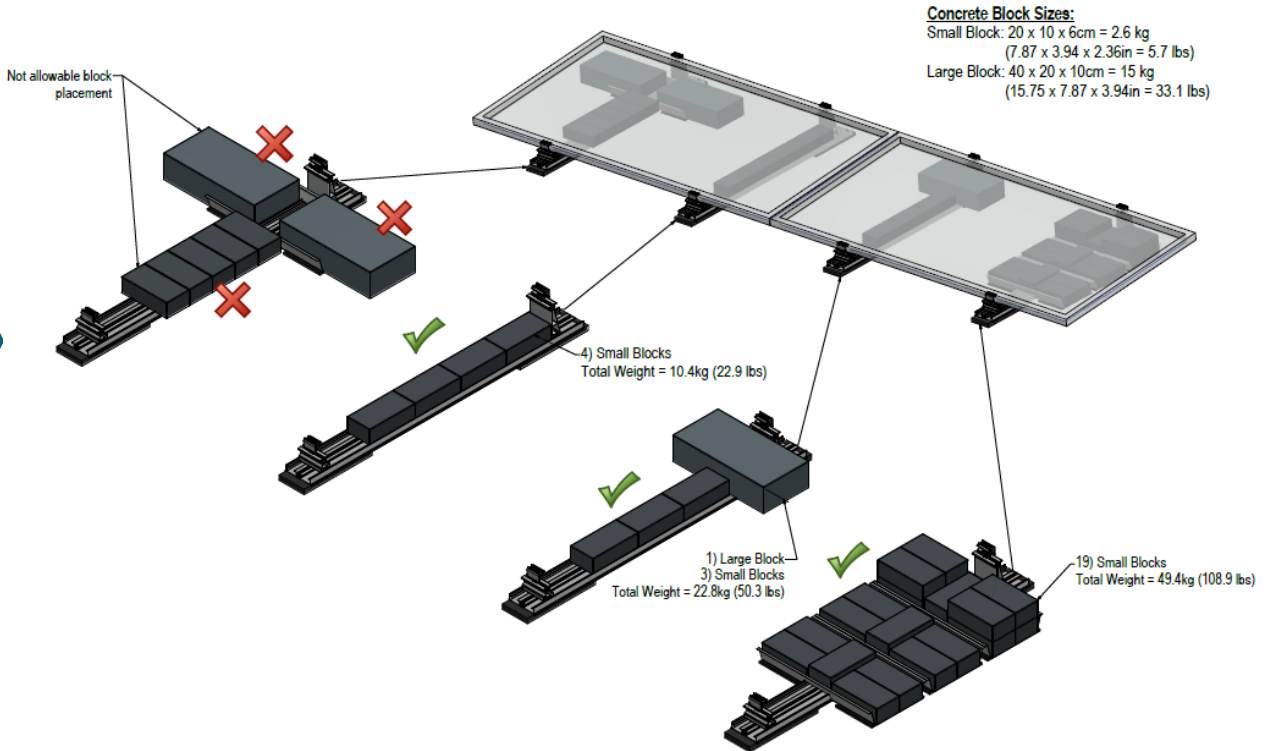


BALLAST EXAMPLES FIXGRID 10 SOUTH:

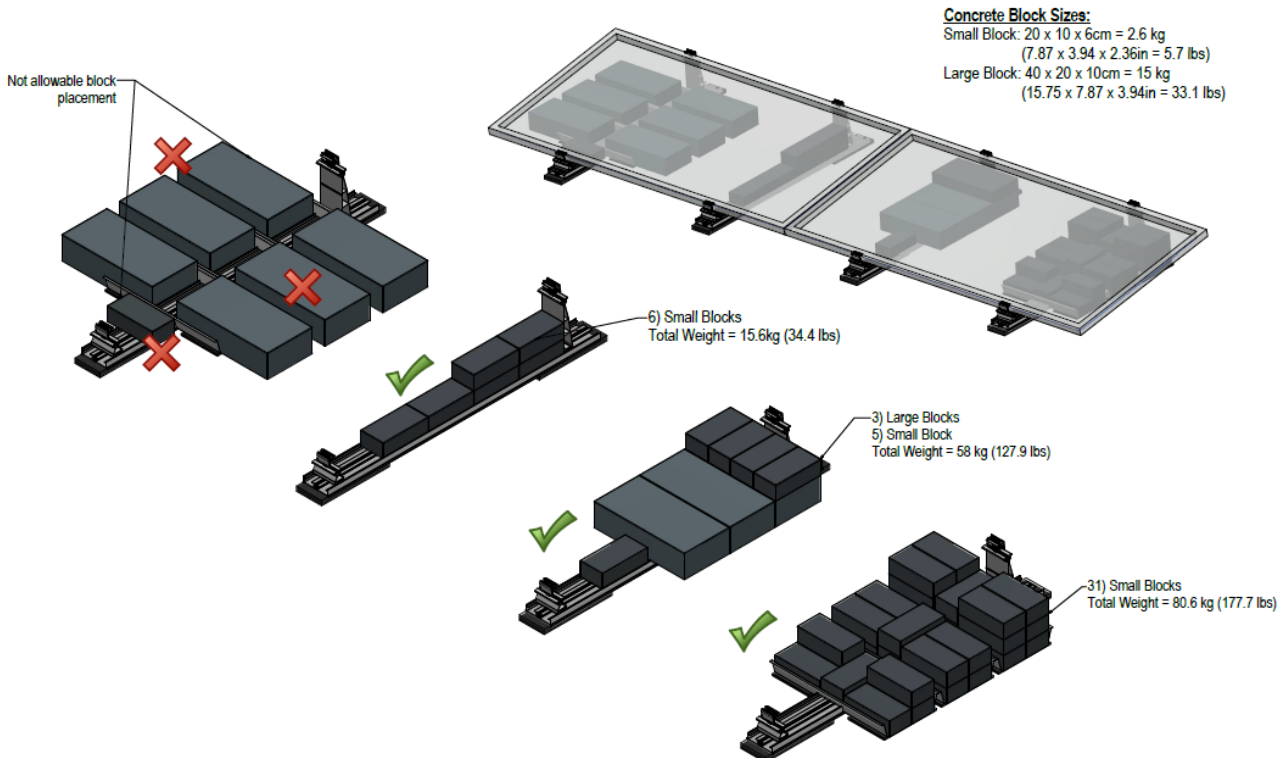
Concrete Block Sizes:
 Small Block: 20 x 10 x 6cm = 2.6 kg
 (7.87 x 3.94 x 2.36in = 5.7 lbs)
 Large Block: 40 x 20 x 10cm = 15 kg
 (15.75 x 7.87 x 3.94in = 33.1 lbs)



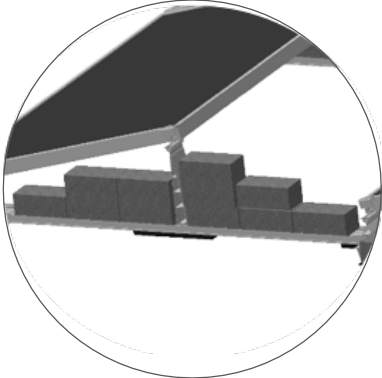
BALLAST EXAMPLES FIXGRID 5 + SOUTH:



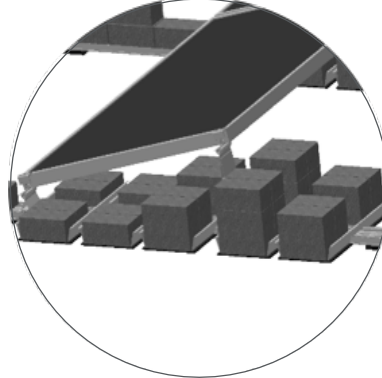
BALLAST EXAMPLES FIXGRID 10 + SOUTH:



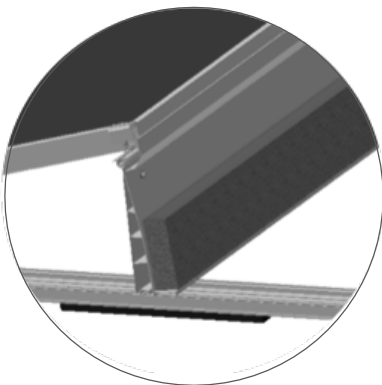
detail A:



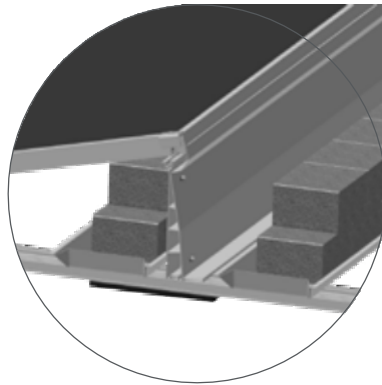
detail B:



detail C:

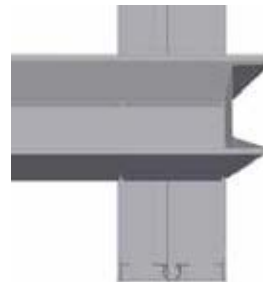
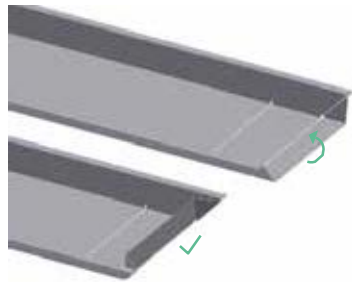


detail D:

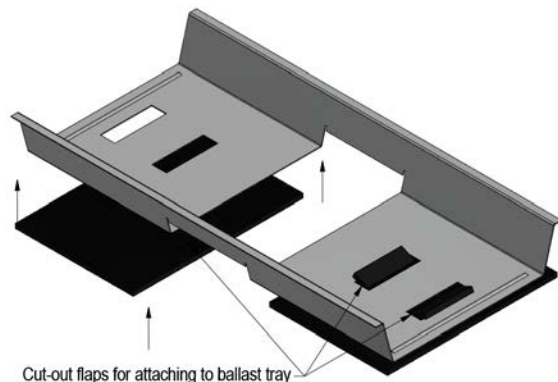


Ballast with additional ballast shafts (detail D)

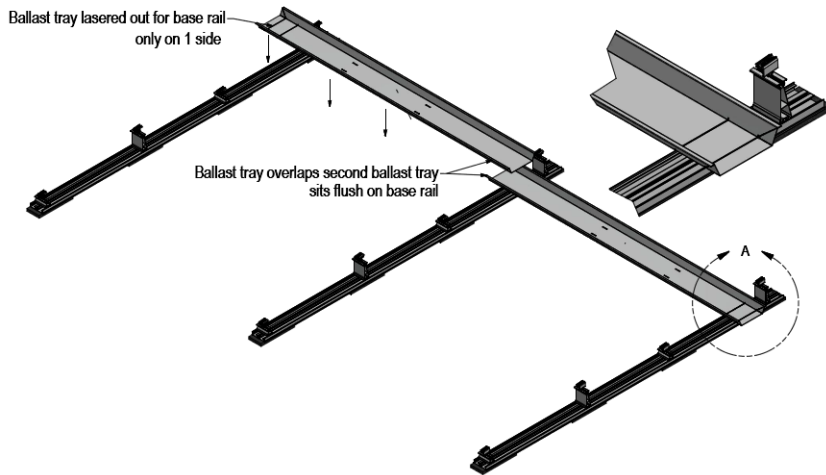
- If the ballast shafts are filled with gravel, then gravel run-out at the ends of the rows can be prevented by folding the shaft ends up. For this, the ends of the ballast shafts must be folded at the perforation.
- The first ballast shaft is placed from the right with the recesses and upstand on the base profiles.
- All other shafts are turned 180 degrees (left recesses) from right to left. With this, the shaft always lies with the side of the slot flush in the base profile. On the last ballast shaft, the end must be folded up again.



Short Ballast Tray (with surface protection mats)



Cut-out flaps for attaching to ballast tray

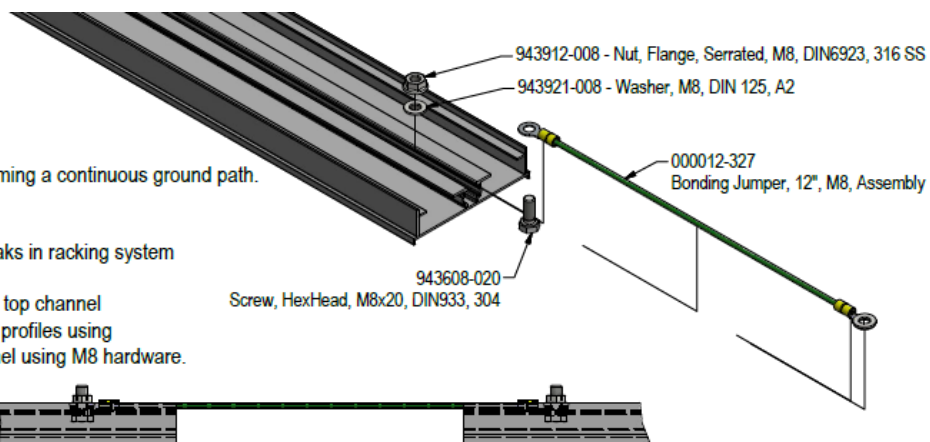


More information on our systems can be found at our website: www.schletter-group.com in the solar area under Downloads.

Bonding Jumper

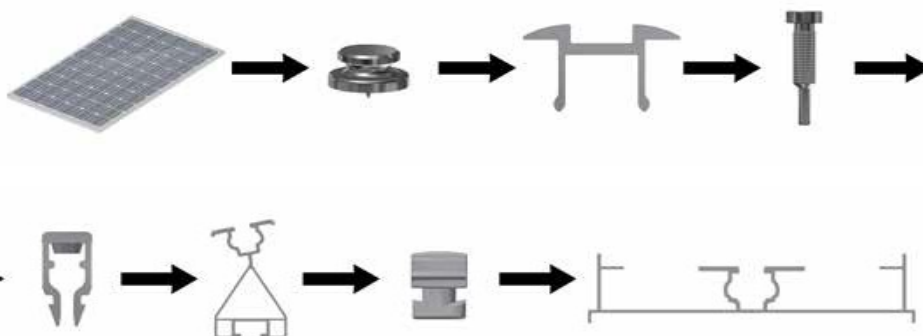
- Electrically bonds adjacent system forming a continuous ground path.
- Connects directly to FlatGrid rail
- Available in 6-inch to 48-inch lengths.
- Used for expansion joints or other breaks in racking system

Bonding jumper connects directly to the top channel of the Fix-Z 7 or Fix-Z15 lower or upper profiles using M8 hardware and/or FlatGrid rail channel using M8 hardware.



INFORMATION ABOUT INTERNAL AND EXTERNAL GROUNDING

The internal bonding path starts at the module and continues via the earthing pin into the clamping part and continues via the screw, the assembly claw, the module support and the turn-in connector to the basic profile.



The external bonding path must be specified by the Installer.

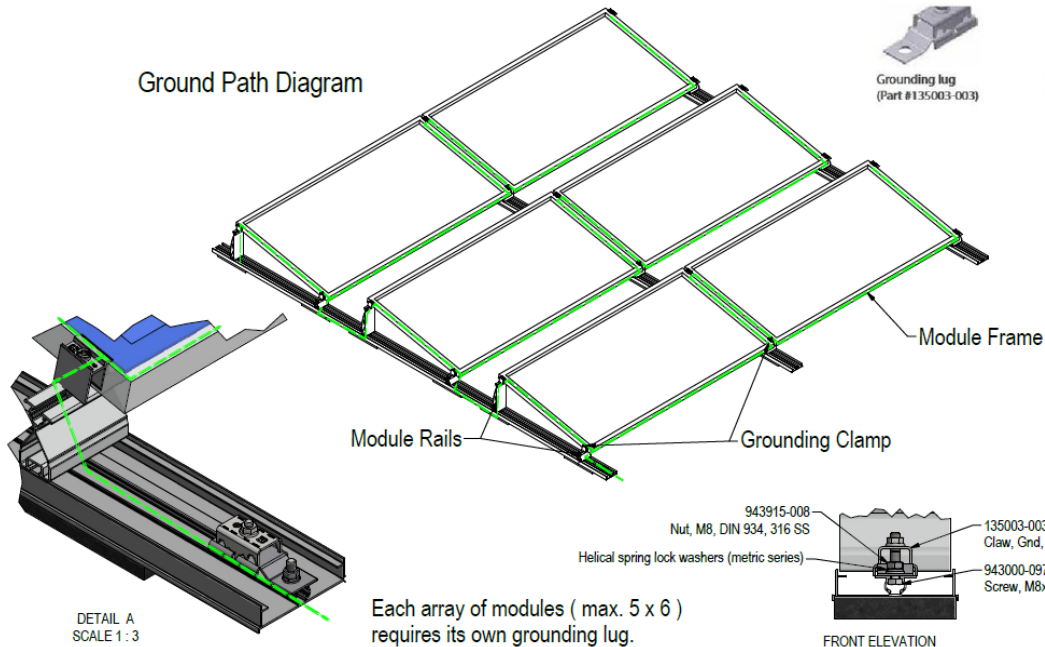
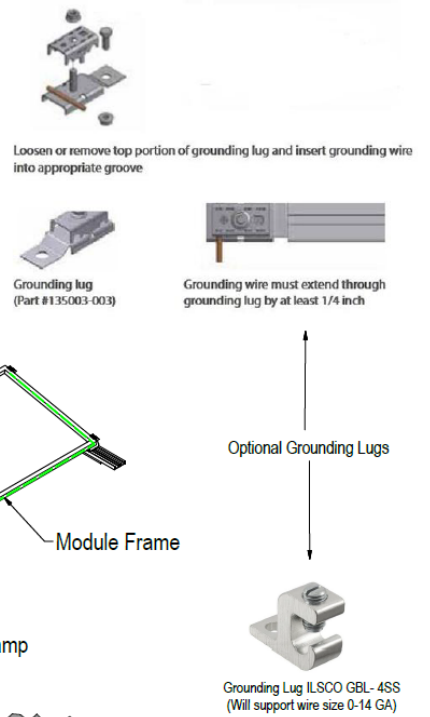
COMPONENTS RECOMMENDED BY SCHLETTER FOR EQUIPOTENTIAL BONDING

Overcurrent Protection Device (grounding)

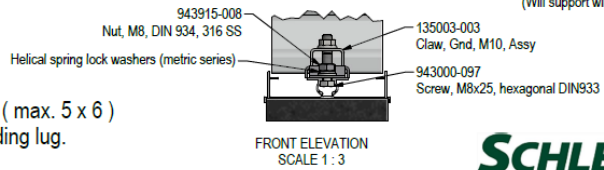
Accommodates stranded or solid copper wire 2 GA - 14 GA (see detail B).

Must use bare copper wire to connect to the grounding wire; remove at least two inches of insulation to expose copper wire.

Connects to bottom M8 rail channel of base rail using Hex Head M8 Bolt & Nut.

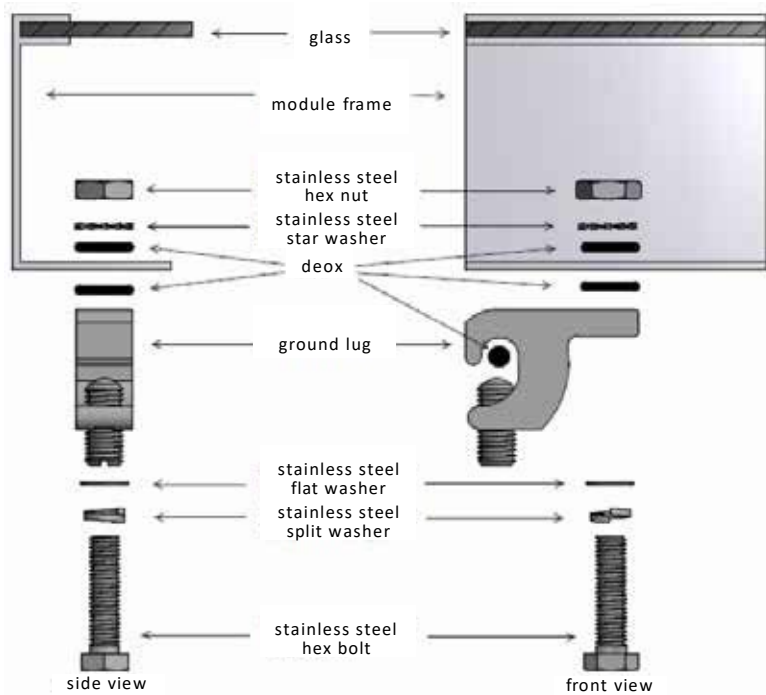


Each array of modules (max. 5 x 6) requires its own grounding lug.



ILSCO GROUNDING PATH INSTALLATION INSTRUCTION

GBL-4SS, Ground Lug Installation Instructions for Photo Voltaic Applications



GBL-4SS

Installer is responsible for and shall provide an appropriate method of direct to-earth grounding according to the latest edition of the National Electrical Code, including NEC 250: Grounding and Bonding, and NEC 690: Solar Photovoltaic Systems." and "Installation shall be in accordance with CSA C22.1, Safety Standard for Electrical Installations, Canadian Electrical Code, Part 1.

1. Install GBL-4SS ground lug per diagram, use #10-32 mounting hardware.

2. Apply a liberal amount of conductor on front and back side of module frame at mounting hole. Although not required, Schletter strongly recommend the use of conductor compound between the mounting surfaces in order to better protect the connection in all environmental conditions and promote connection longevity.

3. For GBL-4SS, apply 35 in-lbs mounting torque to #10 mounting bolt.

4. Apply a liberal amount of conductor compound in wireway of ground lug

5. Install ground conductor in lug and torque wire screw to the following:

6 AWG: 35 in-lbs.

8 AWG: 25 in-lbs.

10 - 14 AWG: 20 in-lbs.

*Flat washer and split washer are not required

Additional Information:

a. GBL-4SS. is suitable for use with flat-surfaced anodized aluminum or galvanized steel designated G90 minimum. The acceptable mounting hole diameter is 0.196 inches \pm 0.004 inches (4.98mm \pm .1mm).

b. The acceptable framing material thickness is a minimum of 0.062 inches (1.57mm) to 0.250 inches (6.35mm), with a flat surface area of no less than 34 by 12mm (bottom of the lug).

c. Secured to grounding holes (0.196" ID) in anodized aluminum PV frame (0.062"-0.25" thickness) with torque value 35 lbs.in." or equivalent.

d. FixGrid18 mounting system is to be only in combination with listed PV-modules that include the specific rack system in their installation manual. Refer to the approved module list for the listing PV-modules which can be used in combination with the FixGrid.

e. For sizing of an Equipment Grounding Conductor (EGC), the rating of the Overcurrent Protection Device (OCPD) in circuit ahead of the Equipment shall not exceed the values in NEC table 250.122 where the EGC is only required to be larger than the circuit conductors supplying the equipment.

f. For use with a Grounding Electrode Conductor (GEC), the size of the conductor shall comply with NEC articles 250.66 for AC systems and 250.166 for DC systems.

g. Rated maximum system overcurrent protection (Cu conductor):

12 AWG: 20A

10 AWG: 30A

This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.

Overcurrent Protection Device (grounding)

- Accommodated stranded or solid copper wire (2 gauge to 14 gauge).
- Must use bare copper wire to connect to the grounding wire, remove at least two inches of insulation to expose copper wire.
- Connects to the bottom 10 rail channel of module rail.



Loosen or remove top portion of groundinglog and insert grounding wire into appropriate groove.



Grounding log (Part # 135003-003)



Grounding wire must extend through grounding lug by at least 1/4 inch

Gauge of Grounding Wire Conductor



i GENERAL NOTES ON MAINTENANCE

Yearly inspection of the system should be conducted to maintain optimal performance by qualified personnel.

Visual inspection for

- signs of damage
- signs of wear of components
- signs of components
- position of the ballast
- position of roof protection mats
- signs of loosening of components and fasteners
- position of roof protection mats

- i** Replace any affected components immediately: torque at module clamps must be verified with a Torque wrench and should be set at 50% of intended tightening torque.

Do not touch the live part of the wire, cable and connector directly but with safety equipment (insulating tools) when necessary.

- i** **WARNING!** Contact your installer immediately if you suspect your system is not working properly.

WARNING! The PV System must be shut down first if it needs any electrical maintenance. Improper maintenance may cause lethal electric shocks/ or burns.

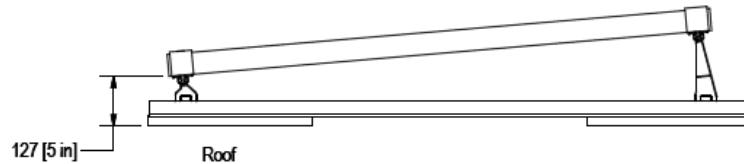


Fire Test

FixGrid racking system meet with Standard UL 2703, Clauses 11.1 that required a rack mounting system intended for stand-off, rack, or direct mounting in combination with a specified roof, or intended for integral mounting in combination with the specified PV module(s) comply with the fire resistance requirements for a “Class A” PV System Rating in accordance with the Standard for Flat-Plate Photovoltaic Modules and Panels, UL 1703.

- Fire Test Class A Type 1
- Fire class resistance rating: Class A when used with Type I photovoltaic modules only

Fire Test configuration



INFORMATION ON TENSILE OR SHEAR STRENGTH

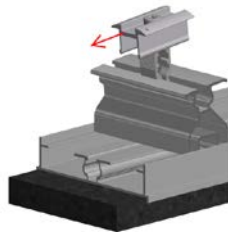
Rapid 16 module clamps (according Z-14.4 - 631) (available in 50 or 100mm lengths)

TENSILE

	Profile	F_T [kN]
Middle Clamps	FixZ	3,88
End Clamps	FixZ	1,63

SHEAR

Load direction:



RAPID 16	shear strength [kN/ clamp]
	F_S
Middle Clamp	0,67
End Clamp	0,68

FIXZ-PROFILES INCL. TURN-IN CONNECTOR

Maximum permissible pressure values	5400 kPa
Maximum permissible tensile values	2400 kPa

MANUFACTURER	MODEL NUMBERS
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Boviet Solar	BVM6612
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Canadian Solar	CS6X-P-FG CS6X-P CS6V-M CS6U-P CS6U-M CS6U CS6P-P-SD CS6P-P CS6P-M CS6K-P-FG CS6K-P CS6K-MS CS6K-M AB CS6K-M CS6K CS5A-M CS3W-PB-AG CS3W-P CS3W-MS CS3W-MB-AG CS3W CS3U-PB-AG CS3U-P CS3U-MS CS3U-MB-AG CS3U CS3L-P CS3L-MS CS3L CS3K-PB-AG CS3K-P CS3K-MS CS3K-MB-AG CS3K CS1Y-MS CS1U-MS CS1K-MS CS1H-MS
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ET Solar	ET-M660 290 285 280 275 270 WW WB ET-M672 340 335 330 325 320 BB ET-M672 345 340 335 330 325 WW WB ET-P660 265 260 255 250 BB ET-P660 270 265 260 255 WW WB ET-P672 315 310 305 300 BB ET-P672 320 315 310 305 WW WB
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Hanwha Q Cells	L-G2 L-G3 L-G4 Q.PEAK DUO BLK-G5 Q.Peak DUO BLK-G6 Q.Peak DUO G6 Q.Peak DUO LG6 Q.PEAK DUO-G5.X Q.PEAK DUO-G5 B.LINE PRO L G4.1 B.LINE PLUS L G4.2 B.LINE PRO L G4.2 B.LINE PLUS BFR G4.1 B.LINE PRO BFR G4.1
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**Hanwha Q Cells
(continued)**

Q.PEAK BLK G4.1/TAA
Q.PEAK L G4.2 / 4.5
Q.PEAK-G4.1|G4.1/MAX
Q.PLUS BFR G4.1/ TAA or MAX
Q.PLUS G4
Q.PLUS L G4.1|G4.2
Q.PRO BFR G4|G4.1|G4.3|G4.4
Q.PRO G4
Q.PRO L G4.1
Q.PRO L G4.2
Q.PRO L G4.5
Q.PEAK DUO BLK-G5/SC
Q.PEAK DUO BLK-G6+
Q.PEAK DUO BLK-G6+ /TS
Q.PEAK DUO BLK-G6+/AC
Q.PEAK DUO BLK-G6+/SC
Q.PEAK DUO BLK-G7
Q.PEAK DUO BLK-G8
Q.PEAK DUO BLK-G8+
Q.PEAK DUO G6+/AC
Q.PEAK DUO L-G5
Q.PEAK DUO L-G5.1
Q.PEAK DUO L-G5.2
Q.PEAK DUO L-G5.3
Q.PEAK DUO L-G6
Q.PEAK DUO L-G6.1
Q.PEAK DUO L-G6.2
Q.PEAK DUO L-G6.3
Q.PEAK DUO L-G6.4
Q.PEAK DUO L-G6.5
Q.PEAK DUO L-G6.6
Q.PEAK DUO L-G6.7
Q.PEAK DUO L-G7
Q.PEAK DUO L-G7.1
Q.PEAK DUO L-G7.2
Q.PEAK DUO L-G7.3
Q.PEAK DUO L-G7.4
Q.PEAK DUO L-G7.5
Q.PEAK DUO L-G7.6
Q.PEAK DUO L-G7.7
Q.PEAK DUO L-G8
Q.PEAK DUO L-G8.1
Q.PEAK DUO L-G8.2
Q.PEAK DUO L-G8.3
Q.PEAK DUO L-G8.3/BFF
Q.PEAK DUO L-G8.3/BFG
Q.PEAK DUO ML BLK-G9
Q.PEAK DUO ML BLK-G9+
Q.PEAK DUO ML-G9
Q.PEAK DUO ML-G9+
Q.PEAK DUO XL-G9
Q.PEAK DUO XL-G9.1
Q.PEAK DUO XL-G9.2
Q.PEAK DUO XL-G9.3
Q.PEAK DUO-G5
Q.PEAK DUO-G5/SC
Q.PEAK DUO-G6
Q.PEAK DUO-G6/SC
Q.PEAK DUO-G6+
Q.PEAK DUO-G6+/SC
Q.PEAK DUO-G7
Q.PEAK DUO-G8
Q.PEAK DUO-G8+
Q.PLUS DUO L-G5
Q.PLUS DUO L-G5.1
Q.PLUS DUO L-G5.2
Q.PLUS DUO L-G5.3 B10B68:B138

Heliene

Heliene 36|60|72|96M
 Heliene 36|60|72|96P
 Heliene MAX HOMEPV Black 350
 Heliene MAX Series 430
 Helien 72 M G1

Hyundai Solar

HiS-M250|255|260|265RG HiS-
 M310|315|320|325TI HiS-
 S265|270|275RG
 HiS-S330|335|340|345|350TI

Jinko Solar

Eagle 60|72
 Eagle Black 60|72
 Eagle MX JK07A|JK07B
 Eagle PERC
 JKM265PP-60
 JKM270P-60-V
 JKM275P-60
 JKM275PP-60-V
 JKM320P-72-V
 JKM330P-72
 JKM330PP-72-V
 JKM390/395/400/405/410M-72HL-V
 JKMxxxM-60HBL
 JKMxxxM-72HL-TV
 JKMxxxM-7RL3-TV
 JKMxxxM-7RL3-V

Kyocera

KD260|265GX-LFB2
 KU260|265|270-6MCA
 KU260-6MCA
 KU315|320-7ZPA

LG

LGxxxN1C-A5
 LGxxxN1C-G4
 LGxxxN1K-G4
 LGxxxN1W-G4
 LGxxxN2C-B3
 LGxxxN2W-A5
 LGxxxN2W-B3
 LGxxxS1C-A5
 LGxxxS1C-G4
 LGxxxS1W-G4
 LGxxxS2W-A5
 LGxxxN2T-A5
 LGxxxN1T-V5
 LGxxxN2T-V5
 LGxxxQ1C-V5
 LGxxxQ1K-V5
 LGxxxA1C-V5
 LGxxxN2T-J5
 LGxxxN1C-V5
 LGxxxN1K-V5
 LGxxxN1C-N5
 LGxxxN1C-A6
 LGxxxN1K-L5
 LGxxxN1K-A6
 LGxxxQ1C-A6
 LGxxxQ1K-A6
 LGxxxN2W-L5
 LGxxxN2W-E6
 LGxxxN2T-E6
 LGxxxN2T-L5

Longi

LR6-60PE 300-320M
LR6-60HPH xxx M
LR6-72BP 355-375M
LR6-72HPH xxx M
LR6-72PH xxx M
LR4-72HBD 415-435M
LR4-72HBD 420-440M
LR4-72HBD xxx M
LR4-60HBD xxx M
LR4-72HPH/HIH xxx M
LR4-60HPH/HIH xxx M
LR4-60HPB/HIB xxx M

Philadelphia Solar

PS-M60
PS-M60(BF)
PS-M72
PS-M72(BF)
PS-P60
PS-P72

Phono Solar

PS xxx P-20/U
PS xxx PH-20/U
PS xxx M-20/UH
PS xxx MH-20/UH

REC Solar

PEAK Energy Series REC245 | 250 | 255 | 260 | 265 | 270PE
PEAK Energy BLK2 Series REC245 | 250 | 255 | 260PE BLK2
TWINPEAK SERIES REC265 | 270 | 275 | 280 | 285TP
PEAK Energy 72 Series REC300 | 295 - 315PE
TWINPEAK REC330 | 335 | 340TP72
TWINPEAK 2 BLK2 SERIES RECxxxTP2 BLK2
TWINPEAK 2 SERIES
TWINPEAK 2S 72 Series RECxxxTP2S 72
REC Alpha - RECxxxAA
REC Alpha 72 - RECxxxAA 72
REC Alpha Black - RECxxx Black
REC N-Peak-RECxxxNP
REC N-Peak-RECxxxNP Black
REC TP2SM72-RECxxxTP2SM72
Twin Peak 3M - RECxxxTP3M
Twin Peak 3M - RECxxxTP3M Black

Risen

RSM60-6-270M-290M/5BB

Solaria

PowerXT-400R-PM
PowerXT-400R-PM-AC

SolarWorld

Sunmodule Plus SW 275-290 MONO BLACK
Sunmodule Plus SW 280-290 MONO BLACK (5-busbar)
Sunmodule Plus SW 280-295 MONO
Sunmodule Plus SW 285-300 MONO (5-busbar)
Sunmodule Pro-Series SW 260 POLY WOB
Sunmodule Protect SW 275-280 MONO BLACK
Sunmodule SW 100 POLY RGP
Sunmodule SW 150 MONO R6A
Sunmodule SW 150 POLY R6A
Sunmodule SW 320-325 | 340-350 XL MONO
Sunmodule SW 80 MONO RHA

SUNPOWER

SPR-X21-xxx-COM

Suntech

STPxxxS – A60U/Wfhh
STPxxxS - A72U/Vfhh
STPxxxS - A72U/Vnh
STPxxxS-24/Vfw

Talesun

FEATHER 2.0 TP660P
Hipro M295+ TP660M
Hipro M350+ TP672M
PID ZERO TP672M
TD660M
TD660P
TP660|672M
TP660|672P
TP660|672P(H)

Trina

TSM-xxx PA05.08
TSM-DE14A
TSM-DD14A
TSM-PD05
TSM-PD05.05
TSM-PD05.08
TSM-xxx DD05A.05(II)
TSM-xxx PD05.08
TSM-xxx PD05.10
TSM-PD14
TSM-PE14
TSM-PEG14
TSM-PEG40.07
TSM-PEG5
TSM-PEG5.07
TSM-DD06M.05(II)
TSM-DE06H
TSM-DE06M
TSM-DE15H
TSM-DE15M
TSM-DE18M
TSM-DEG06H
TSM-DEG06M
TSM-DEG15HC.20(II)
TSM-DEG15M.20(II)
TSM-DEG15MC.20(II)
TSM-DEG18MC.20(II)
TSM-PE06H
TSM-PE15H
TSM-PEG06H
TSM-PEG15H.20

WattPower

Glacier Series G3
WP-xxxM/G3-60H-V (325|330|335|340PC)

Yingli Green Energy

YL260P|255P|250P|245P|240P-29b
YL275P|270P|265P|260P|255P|250P-29b
YL290D|285D|280D|275D|270D-30b
YL300C|295C|290C|285C|280C|275C-30b
YL325P|320P|315P|310P|305P|300P-35b
YL340D|335D|330D|325D|320D|315D-36b

ZNShine

ZXM6-60-xxx_M
ZXM6-H120-xxx_M
ZXM6-H144-xxx_M
ZXM6-HLD120-xxx_M
ZXM6-HLD144-xxx_M
ZXM6-HLDD144-xxx_M
ZXM6-LD60-xxx_M
ZXM6-LD72-xxx_M
ZXM6-LDD72-xxx_M
ZXM6-NH120-xxx_M
ZXM6-NH144-xxx_M
ZXM6-NHLD120-xxx_M
ZXM6-NHLD144-xxx_M
ZXM6-NHLDD120-xxx_M
ZXM6-NHLDD144-xxx_M
ZXP6-72-xxx_P
ZXP6-H144-xxx_P
ZXP6-HLD120-xxx_P
ZXP6-HLD144-xxx_P
ZXP6-LD72-xxx_P

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