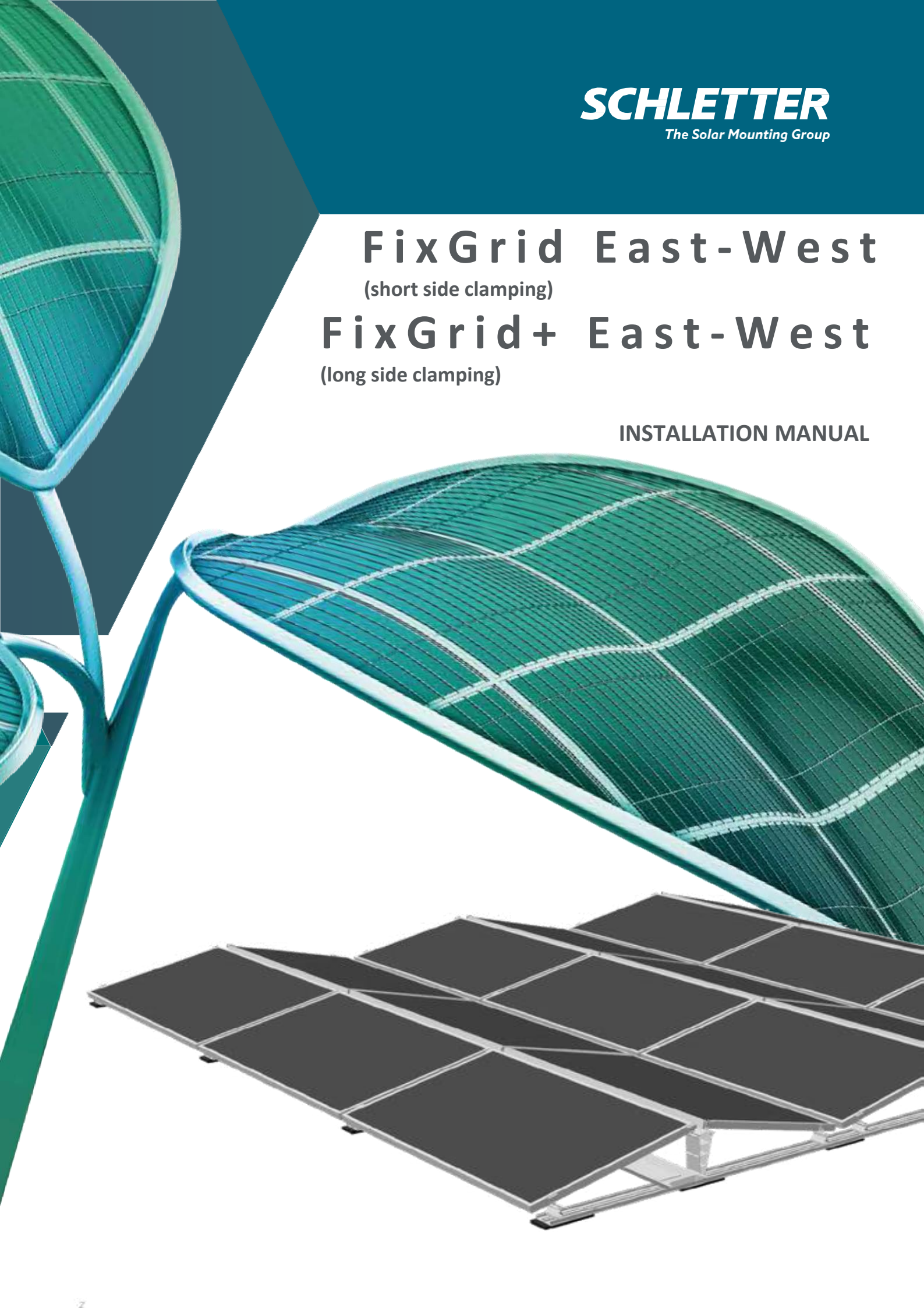


SCHLETTER
The Solar Mounting Group

FixGrid East-West
(short side clamping)

FixGrid+ East-West
(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 non-slip connection to the substrate.

MOUNTING INSTRUCTIONS FOR DOUBLE ALIGNMENT (E.G., EAST-WEST):



REQUIRED TOOL

Measuring tape, screwdriver with Bit TX drive T40 (module mounting) and socket wrench insert with SW8 socket wrench (e.g., internal connector)



FURTHER REQUIRED DOCUMENTS

General mounting instructions - Mounting and project planning
Mounting instructions Module clamps Rapid16
Product Sheet FixGrid Kit



TIGHTENING TORQUES

Screw connections M8: 15 Nm
Exception: Self-drilling screws have to be screwed on in a stop-oriented manner



SAFETY INFORMATION

The system is to be installed only with ballasting in accordance with static loads. You will receive these with the planning of your solar plant from the Schletter configurator

Risk of breakage! PV modules can be damaged if they are stepped on.
Planning of the solar power system, installation and commissioning may only be performed by qualified personnel. Improper execution can cause damage to the system and endanger people.

Danger due to electric current! Installation and maintenance of the PV modules may only be performed by qualified personnel. Observe the safety regulations of the PV module manufacturer!

Risk of falling! There is a risk of falling when working on the roof and when climbing up and down. Is it imperative that the accident prevention regulations are observed and that suitable fall protection devices are used.



Risk of injury! People may be injured by falling objects. Before starting the installation work, block off the danger zone and warn people in the vicinity.

MOUNTING INSTRUCTIONS

-  Ensure that the flat roof waterproofing is compatible with the mounting system. The roof drainage system has to be included in the planning of your solar plant.
-  In the case of very uneven roofs or roof waterproofing, compensatory measures may have to be taken in order to ensure a uniform introduction of the load.
-  Necessary distances to roof edges have to be maintained.
The maximum field size depends on the type of roof.
For foil roofs, it is max. 10 m; for concrete roofs, it can also be larger in individual cases.
-  In the case of roofs with substrate or gravel roofing, it has to be ensured that a sufficiently non-slip connection occurs.
-  Please check the existing pitch of the roof and whether the mounting system has to be secured against slipping.
-  The surface load is not permitted to exceed the residual load-bearing capacity of the building!
-  The partial surface pressure, which acts on the roof membrane and insulation under the base rails, is not allowed under any circumstances to exceed the maximum permissible surface pressure.
Current country-specific rules and regulations have to be observed.
Roof cleaning! In order to ensure that the base rails are supported across their entire surface, impurities such as moss, leaves, dirt, stones, etc. have to be removed.
-  If there is a lightning protection system involved, it is important to determine the extent to which integration by a certified lightning protection company is necessary. Whether or not the lightning protection requirements change as a result of the installation also has to be determined.
-  Due to static reasons, the installation of a single module row is not permitted!
-  Prior to installation, the roof has to be checked for damage of any kind, particularly water beading or damage to the roof membrane. These should be documented with photos in order to be able to counteract any recourse claims. The system has been developed for modules with a width of 950-1050 mm (standard module dimensions according to the current status). Other module dimensions on request and separate verification. Information about module clamping pursuant to the manufacturer has to be observed.
-  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.
-  Use only original Schletter components!
-  No modifications to the modules are required to secure them. It is the client's/installer's responsibility to ensure the clamp location is in accordance with the panel installation manual.
-  All other markings, information on the number of modules and additional information can be found in the project-specific documents.
-  **Use the current mounting instructions! Accessible on our website:**
www.schletter-group.com in the FixGrid18 section.

TECHNICAL DATA

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

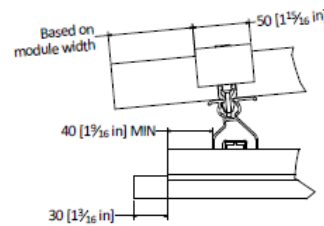
1. DEFINING THE BASE RAIL LENGTHS AND DISTANCES BETWEEN MODULE SUPPORTS.

This applies to modules width between 950mm and 1050mm (other modules needs a special release)

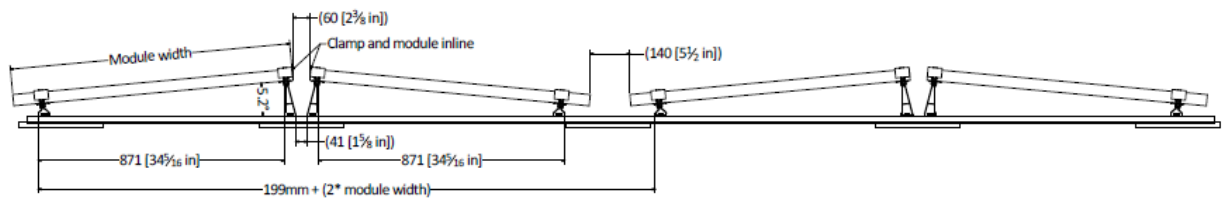
The length of the base rails depends on the selected module width, maintenance aisle width and the number of module rows. The distance between "System Rail at the bottom" and "System Rail at the top" only depends upon the module inclination. The first support should be placed at least 40 mm from the front edge of the base rail. The module frames are always flush at the top with the Rapid 16 module clamps. The base rail length can be selected from the six standard lengths (2150, 2650, 3150, 4200, 6000, 6300 mm) and combined with each other. The base rails can be connected with the internal connector, Item No. 129078-000. The maximum permissible field size has to be observed!

FixGrid East-West (short side clamping) Mounting distances

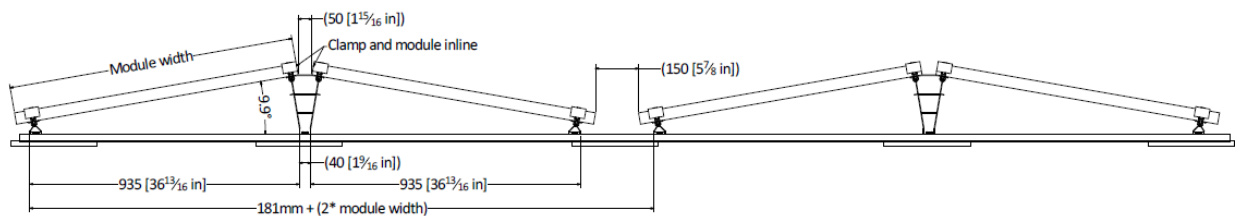
maintenance walk
way width:
150mm



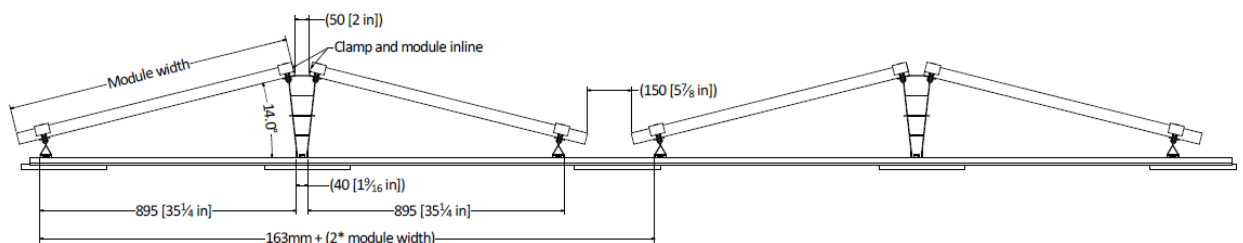
VERSION 5:



VERSION 10:



VERSION 13:



The mounting times can be optimized by pre-assembling a series of base rails next to each other on mounting frames with the module supports.

TECHNICAL DATA

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

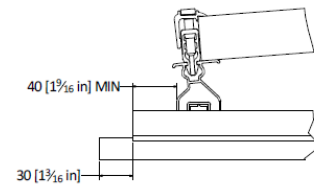
1. DEFINING THE BASE RAIL LENGTHS AND DISTANCES BETWEEN MODULE SUPPORTS.

This applies to modules width between 950mm and 1050mm (other modules needs a special release)

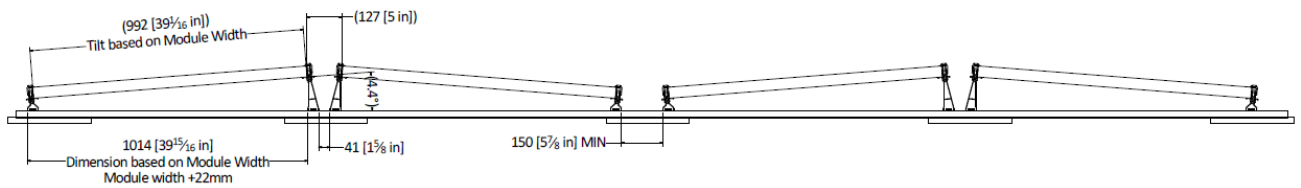
The length of the base rails depends on the selected module width, maintenance aisle width and the number of module rows. The distance between "System Rail at the bottom" and "System Rail at the top" only depends upon the module inclination. The first support should be placed at least 40 mm from the front edge of the base rail. The module frames are always flush at the top with the Rapid 16 module clamps. The base rail length can be selected from the six standard lengths (2150, 2650, 3150, 4200, 6000, 6300 mm) and combined with each other. The base rails can be connected with the internal connector, Item No. 129078-000. The maximum permissible field size has to be observed!

FixGrid + East-West (long side clamping) Mounting distances

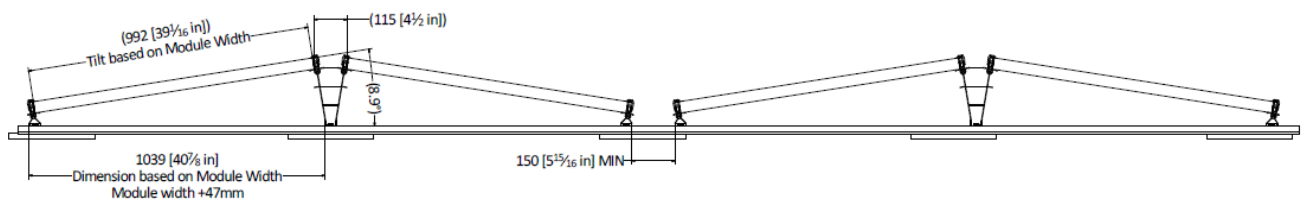
maintenance walk
way width:
150mm



VERSION 5:

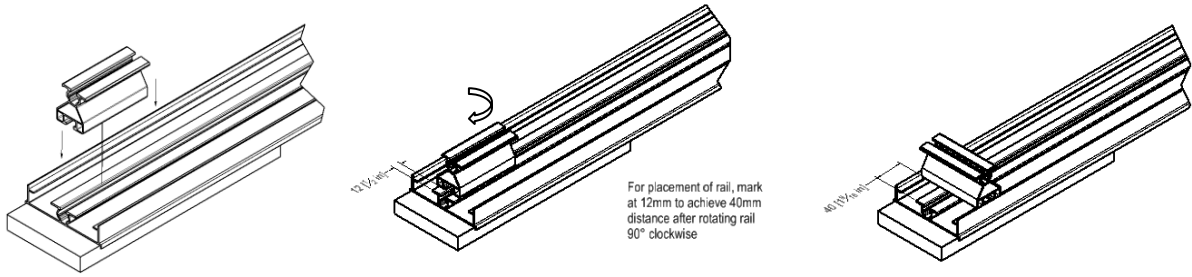


VERSION 10:



The mounting times can be optimized by pre-assembling a series of base rails next to each other on mounting frames with the module supports.

2. MOUNTING OF THE MODULE SUPPORT WITH PRE-ASSEMBLED SCREW-IN CONNECTOR ON THE BASE RAIL

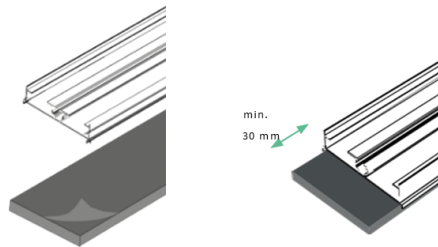


- Marking for the mounting of the module support:
Front edge of the module support = Distance - 28 mm
- Place the front edge of the support on the mark; pay attention to the direction of rotation!
- Turn clockwise by 90°.

Observe suitable module and row distances for rail and module mounting.

3. MOUNTING OF THE SURFACE PROTECTION MAT

- After removing the protective film, glue the cut parts of the surface protection mat onto the base rails.
- Take into account a projection of the surface protection mat of at least 30 mm at the rail ends.

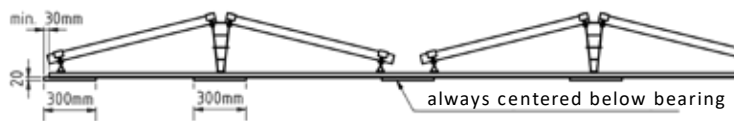


In the case of transversely flowing rainwater, the distance has to be dimensioned on the basis of the amount of precipitation on site.

The installation distances of the surface protection mats below the base rail result from the chosen installation variant.

Variant A

- Mount 20-mm-thick and 300-mm-long strips centrally under each support
- Load introduction on a small area (for low loads and/or solid subsoil)
- An additional surface protection mat should be positioned under joints of the base rails!
- If the roof water drains off transversely, an almost unhindered drainage is possible.



⚠ The permissible surface pressure of the roof has to be checked!

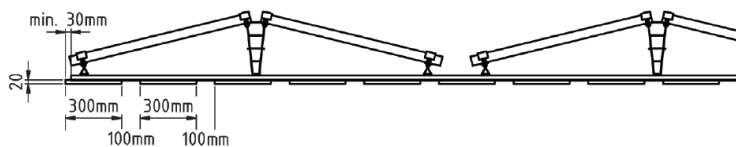
⚠ Sufficient drainage of rainwater has to be ensured!

Variant B

- Apply 20-mm-thick and 300-mm-long strips at a distance of 100 mm
- Load introduction on large area (for high loads and/or soft subsoil with low permissible surface pressure)
- Also suitable for transversely draining roof water

⚠ The permissible surface pressure of the roof has to be checked!

⚠ Sufficient drainage of rainwater has to be ensured!



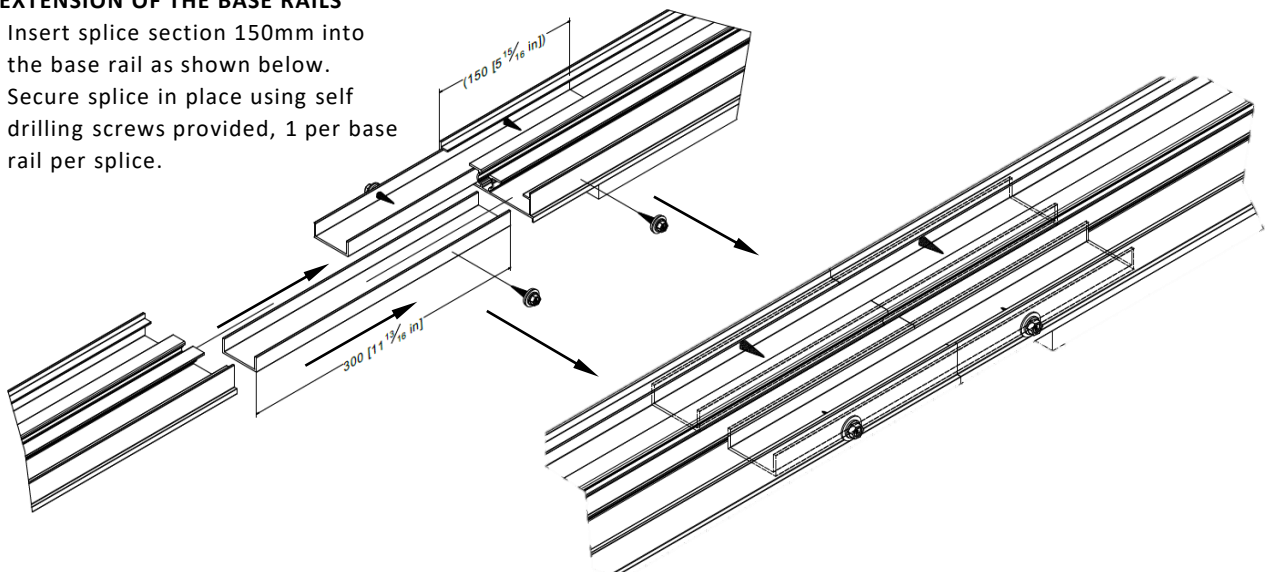
4. ALIGNMENT OF THE BASE RAILS

- Align base rails parallel to each other; align the FixGrid system rails flush and at right angles to the base rails on the subsoil.
- Distance $g = \text{Module length} + 23 \text{ mm}$



5. EXTENSION OF THE BASE RAILS

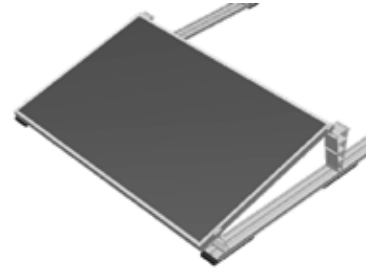
- Insert splice section 150mm into the base rail as shown below.
- Secure splice in place using self drilling screws provided, 1 per base rail per splice.



Torque Value for Rapid16 clamps = 15 N.M/11 FT-LBS
(available in 50 or 100mm lengths)

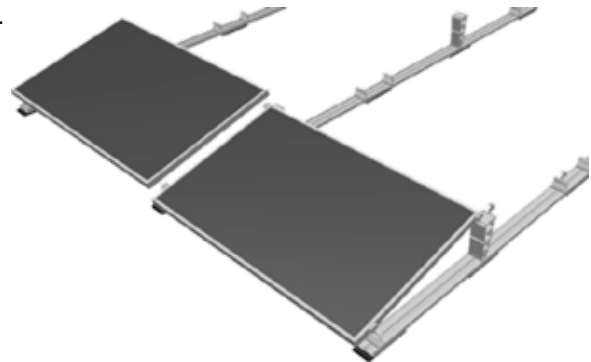
6. APPLY THE FIRST MODULE

- Click Rapid 16 end clamps into place at the edge of the module field and position them. Also click the Rapid 16 middle clamp into place at a generous distance so that the module can be inserted between the clamps.
- Place the module on the FixZ System Rail 18 and align it with the upper edge using the pre-attached Rapid 16 clamps. Pay attention to the alignment of the module row.



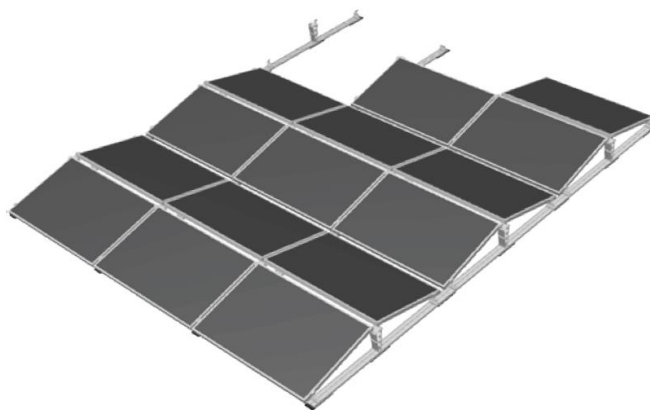
7. INSTALL THE FIRST MODULE

- Apply the Rapid 16 end clamps (at the top and at the bottom) to the module and tighten, Screws M8 (T40).
- Place the module center clamp on the module; do not tighten.
- Connect the module cable according to the plan.



8. INSTALL FIRST MODULE

- Apply the next module.
- Tighten the middle clamps (at the bottom and at the top) between the modules with Screws M8 (T40)
- Pre-assemble the other middle clamp on the free module side.
- Connect the module cable according to the plan.
- Repeat steps up to the last module in the row.

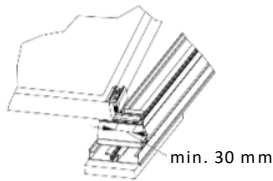


9. MOUNT THE LAST MODULE OF THE ROW

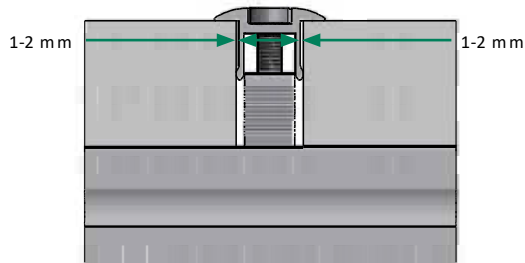
- Install the last module.
- Tighten the middle clamps (at the bottom and at the top) between the modules with Screws M8 (T40)
- Mount and tighten the end clamps on the free side of the module.
- Connect the module cable according to the plan.



Insert the end clamps at least 30 mm from the rail end



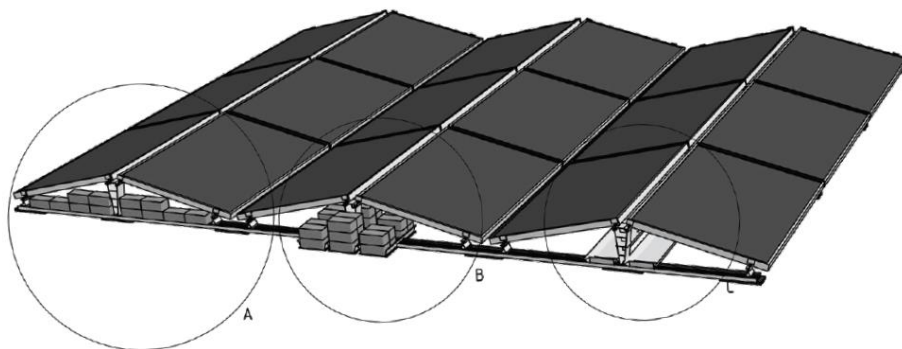
Note the module spacing for middle clamps



10. OBSTRUCT THE BALLAST

There are basically 3 ballasting options:

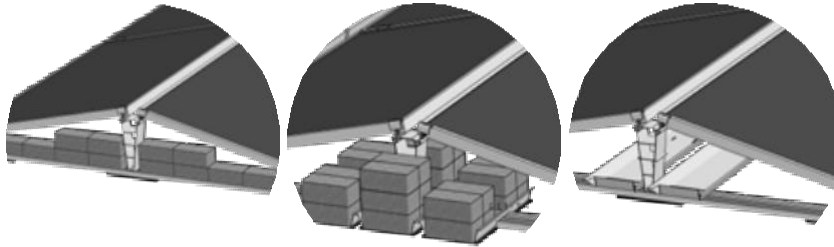
- Ballasting with 100-mm-wide concrete blocks on the base rails (see Detail A)
- Ballasting with additional trough (see Detail B)
- Ballasting with additional ballast shafts (see Detail C)
- Ballasting from the combination of the 3 possibilities



The information about ballasting can be obtained with the planning of your solar plant from the Schletter configurator.



Use fixing flaps to attach the parts of the surface protection mat to the additional trough. (Ballast is not included in the scope of delivery).



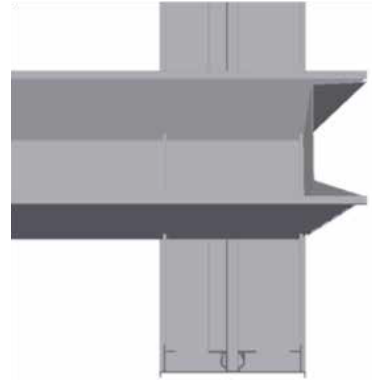
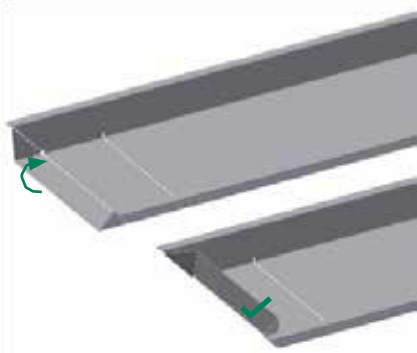
Detail A

Detail B

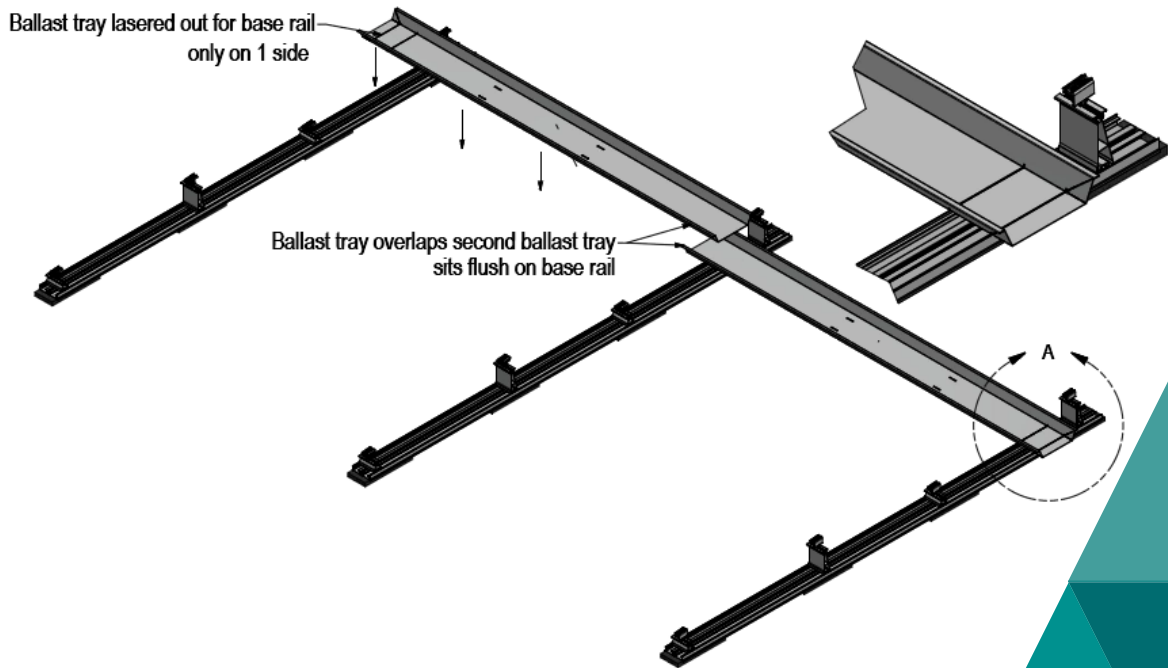
Detail C

LAY THE BALLAST WITH ADDITIONAL BALLAST TRAYS

If the ballast trays are filled with gravel, the gravel can be prevented from leaking at the row ends by folding up the tray ends. To do so, the ends of the ballast trays have to be folded at the perforation. The first ballast tray is laid from the right with the recesses and the upstand on the base rails.

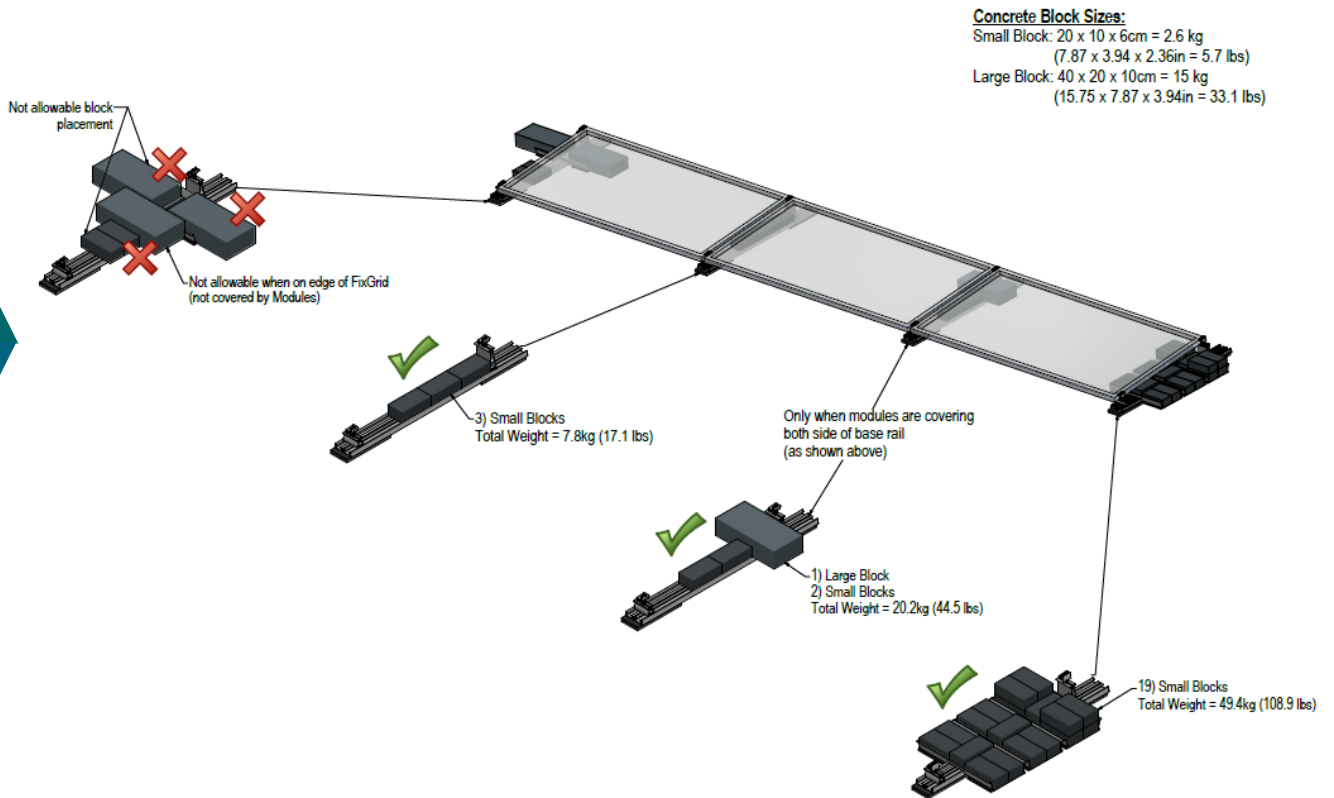


All other trays are turned 180 degrees (recesses on the left) from right to left. The tray always lies with the side of the slots at the bottom and in the base rail with a positive fit. At the last ballast tray, the end has to be unfolded again.

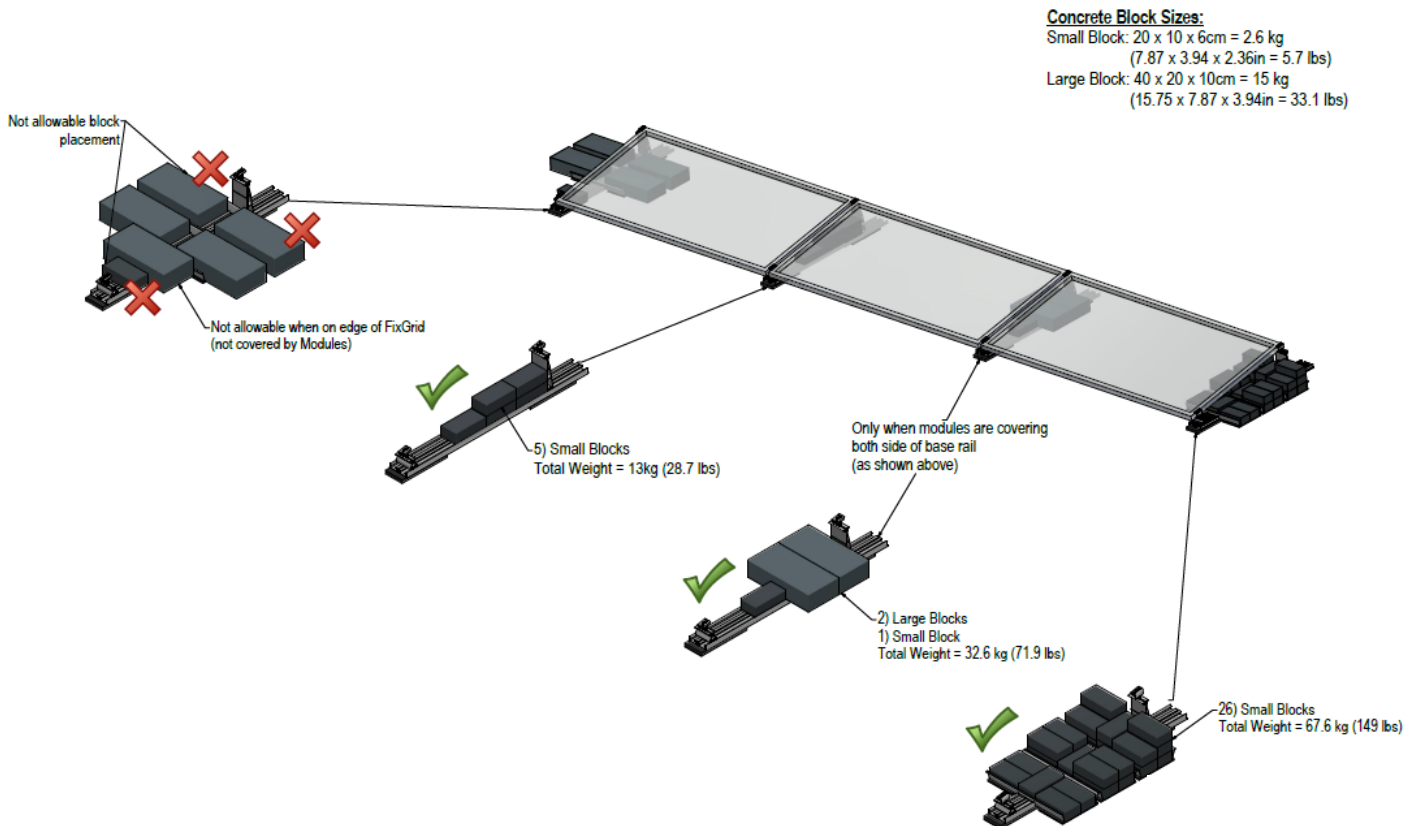


Further information about our systems can be found on our website: www.schletter-group.com in the solar section under Downloads.

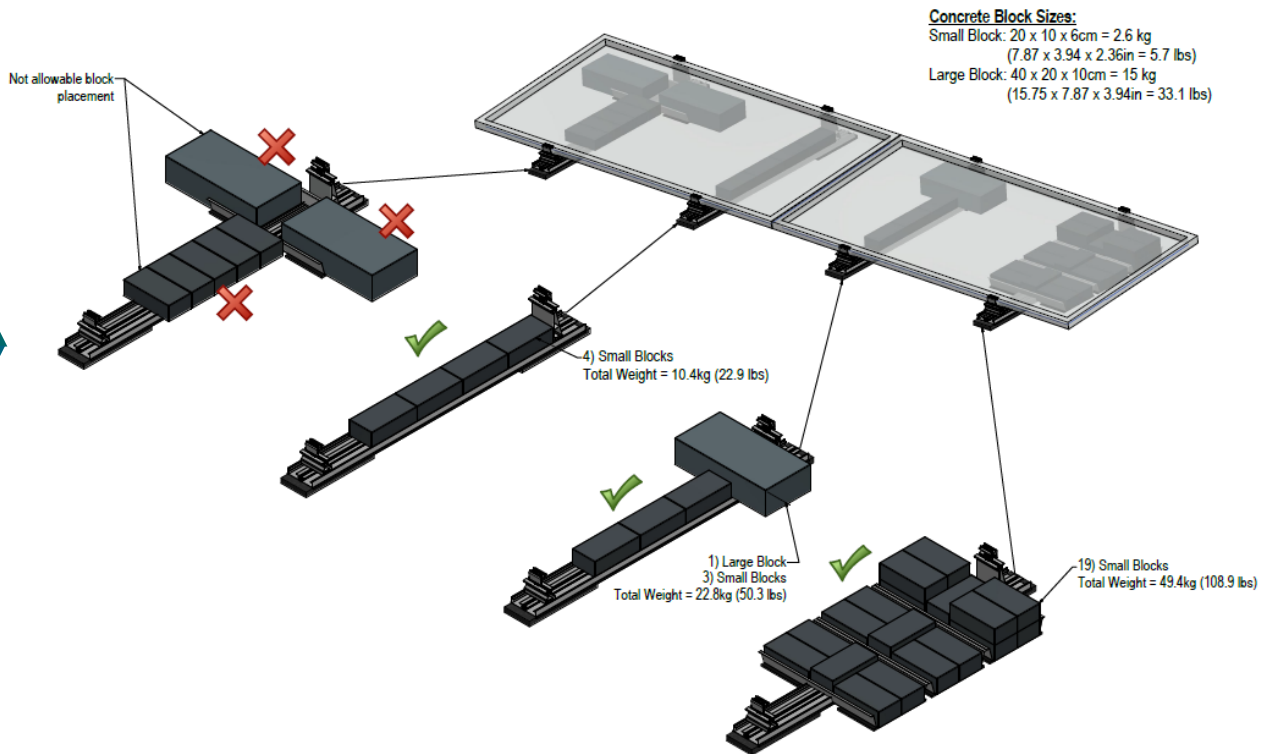
BALLAST EXAMPLES FIXGRID 5 (PER ONE OF THE TWO MODULES OF THE EAST-WEST CONFIGURATION)



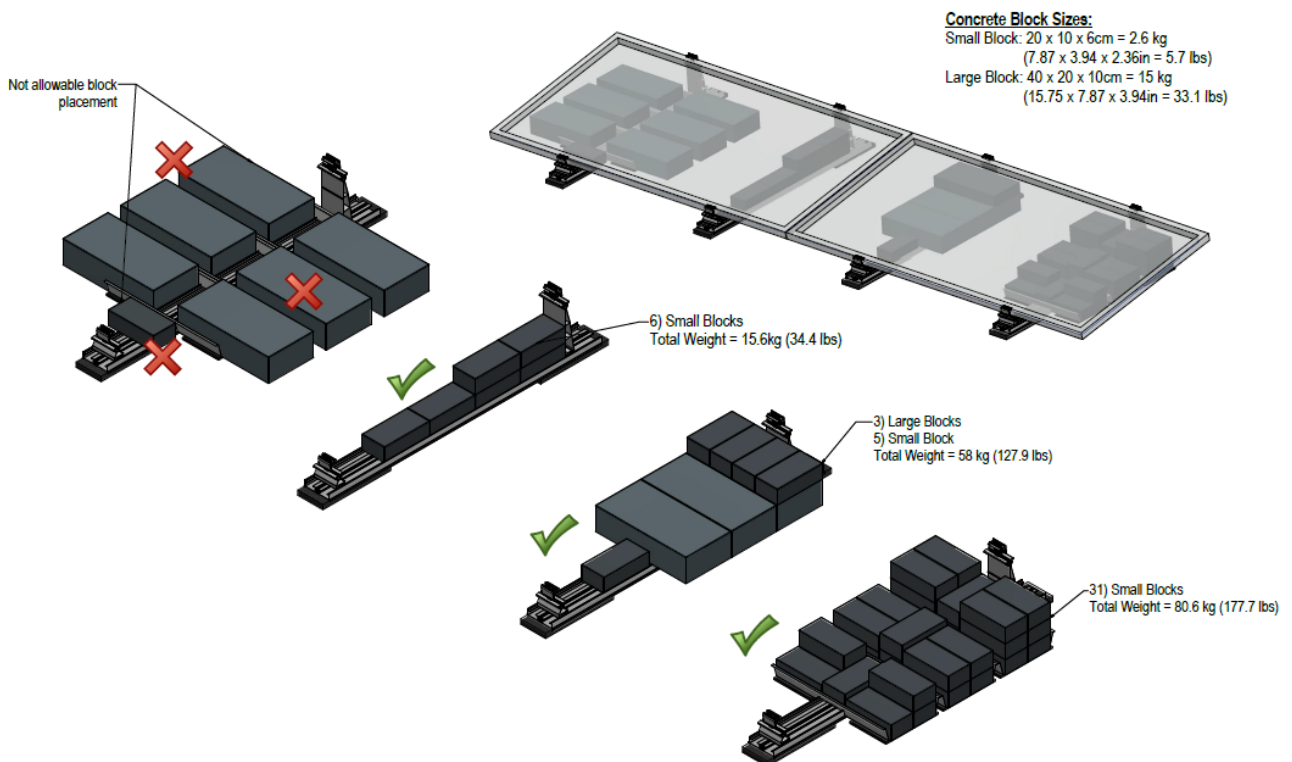
BALLAST EXAMPLES FIXGRID 10 (PER ONE OF THE TWO MODULES OF THE EAST-WEST CONFIGURATION)



BALLAST EXAMPLES FIXGRID 5 + (PER ONE OF THE TWO MODULES OF THE EAST-WEST CONFIGURATION)



BALLAST EXAMPLES FIXGRID 10 + (PER ONE OF THE TWO MODULES OF THE EAST-WEST CONFIGURATION)



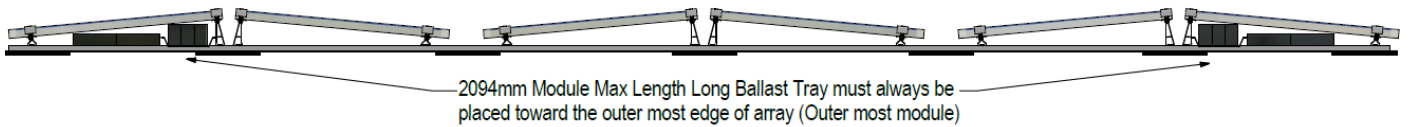
BALLAST EXAMPLES FIXGRID 5 + (PER TWO MODULES OF THE EAST-WEST CONFIGURATION)

VERSION 5°



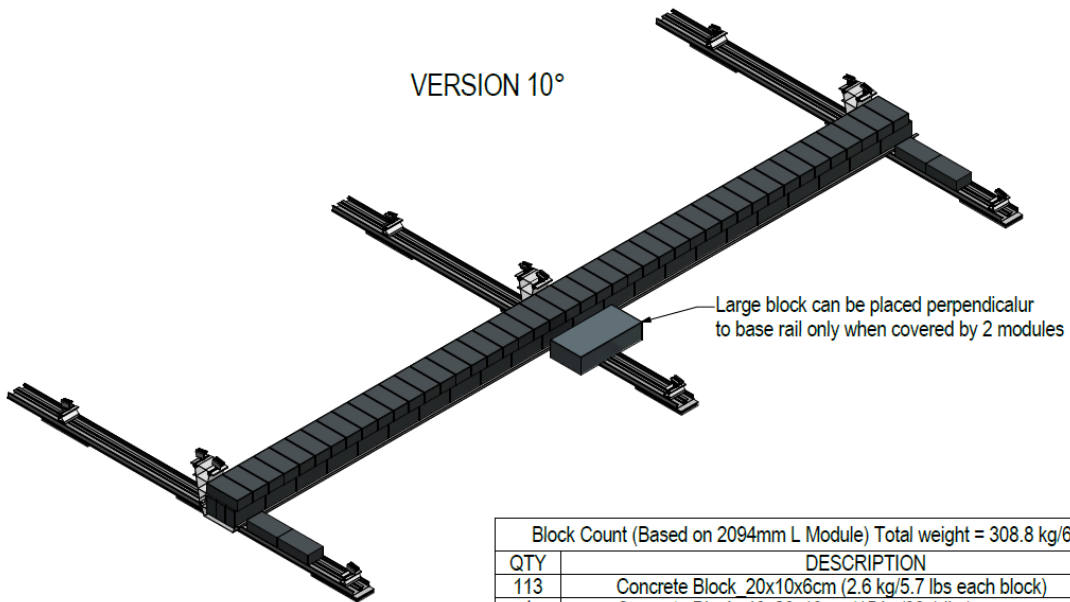
Block Count (Based on 2094mm L Module) Total = 187.2 kg/412.7 lbs

QTY	DESCRIPTION
72	Concrete Block 20x10x6cm (2.6 kg/5.7 lbs each block)



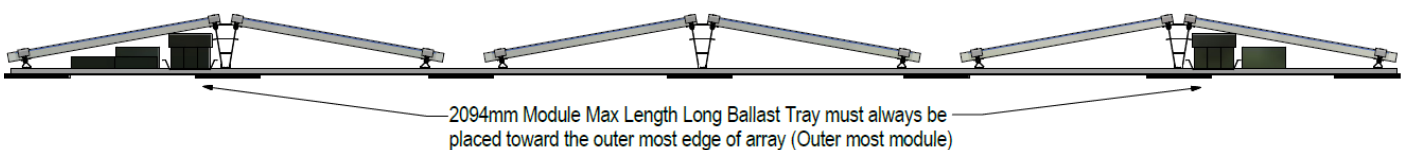
BALLAST EXAMPLES FIXGRID 10 + (PER TWO MODULES OF THE EAST-WEST CONFIGURATION)

VERSION 10°



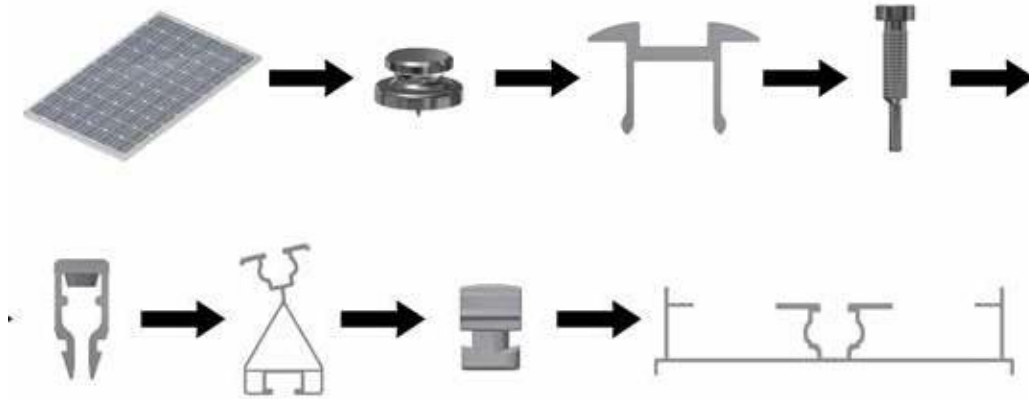
Block Count (Based on 2094mm L Module) Total weight = 308.8 kg/680.8 lbs

QTY	DESCRIPTION
113	Concrete Block 20x10x6cm (2.6 kg/5.7 lbs each block)
1	Concrete Block 40x20x10cm (15 kg/33.1 lbs)



i 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.



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



Grounding lug (Part #135003-003)



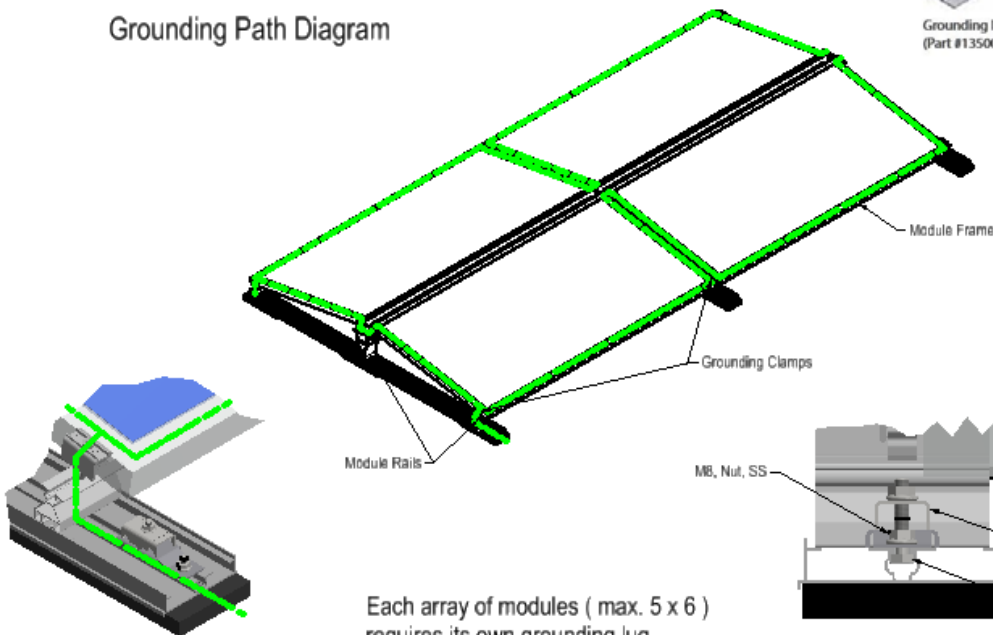
Grounding wire must extend through grounding lug by at least 1/4 inch

Optional Grounding Lugs



Grounding Lug ILSCO GBL-4SS (Will support wire size 0-14 GA)

Grounding Path Diagram



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

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 are 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. FixGrid_ 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 FixGrid18.

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):

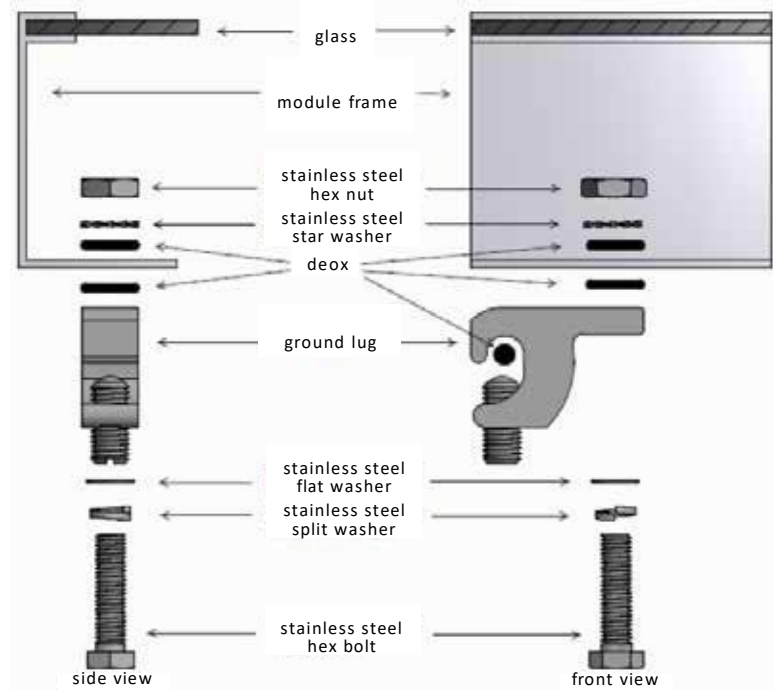
12 AWG: 20A

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.

ILSCO GROUNDING PATH INSTALLATION INSTRUCTION

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



GBL-4SS

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.

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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 are of no less than 34 by 12mm (bottom of the lug).

c. FixGrid 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.

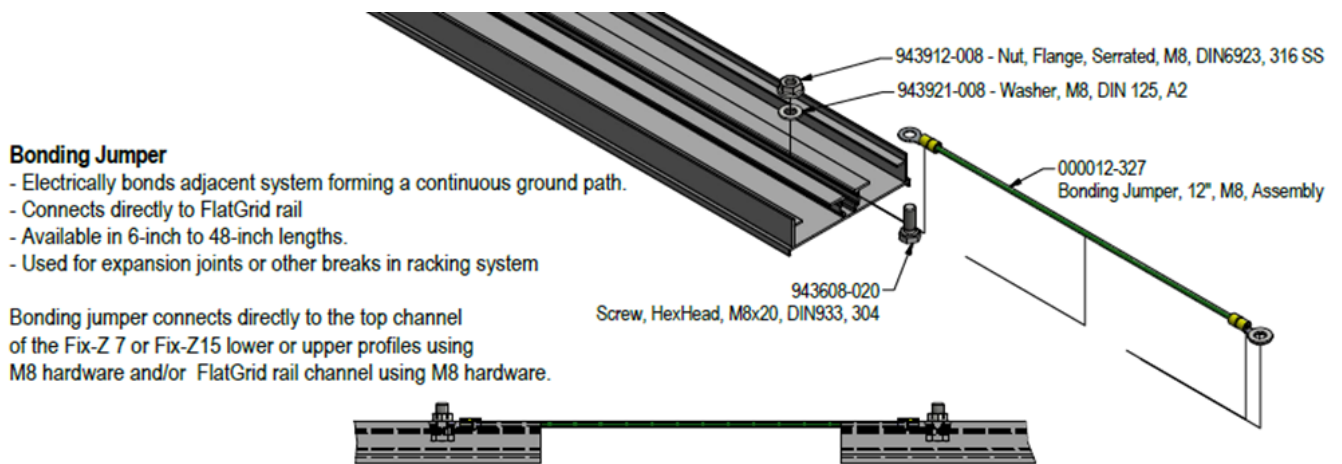
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e. For use with a Grounding Electrode Conductor (GEC), the size of the conductor shall comply with NEC articles 250.66 for AC systems and 250.166 for DC systems.

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

- 12 AWG:** 20A
- 10 AWG:** 30A

g. 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 grounding log 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



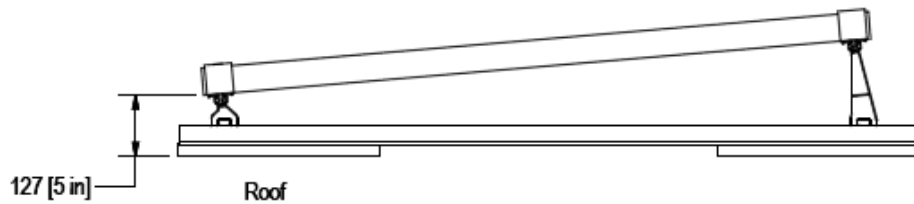


Fire Test

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



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

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.



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.



INFORMATION ON TENSILE OR SHEAR STRENGTH

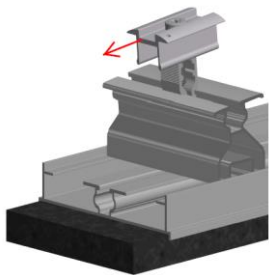
Rapid 16 module clamps (according Z-14.4 - 631)
(available in 50 or 100mm lengths)

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



APPROVED MODULE LIST

MANUFACTURER

MODEL NUMBERS

Boviet Solar

BVM6612

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

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

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

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/Wfhb
STPxxxS - A72U/Vfh
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



SCHLETTER
The Solar Mounting Group

SCHLETTER NA INC.
5200 77 Center Drive Suite 250
Charlotte, NC 28217

Phone: +1 704 595-4200
Fax: +1 704 595-5210

CANADA:
Phone: +1 519 946-3800

rooftopNA@schletter-group.com
www.schletter-group.com