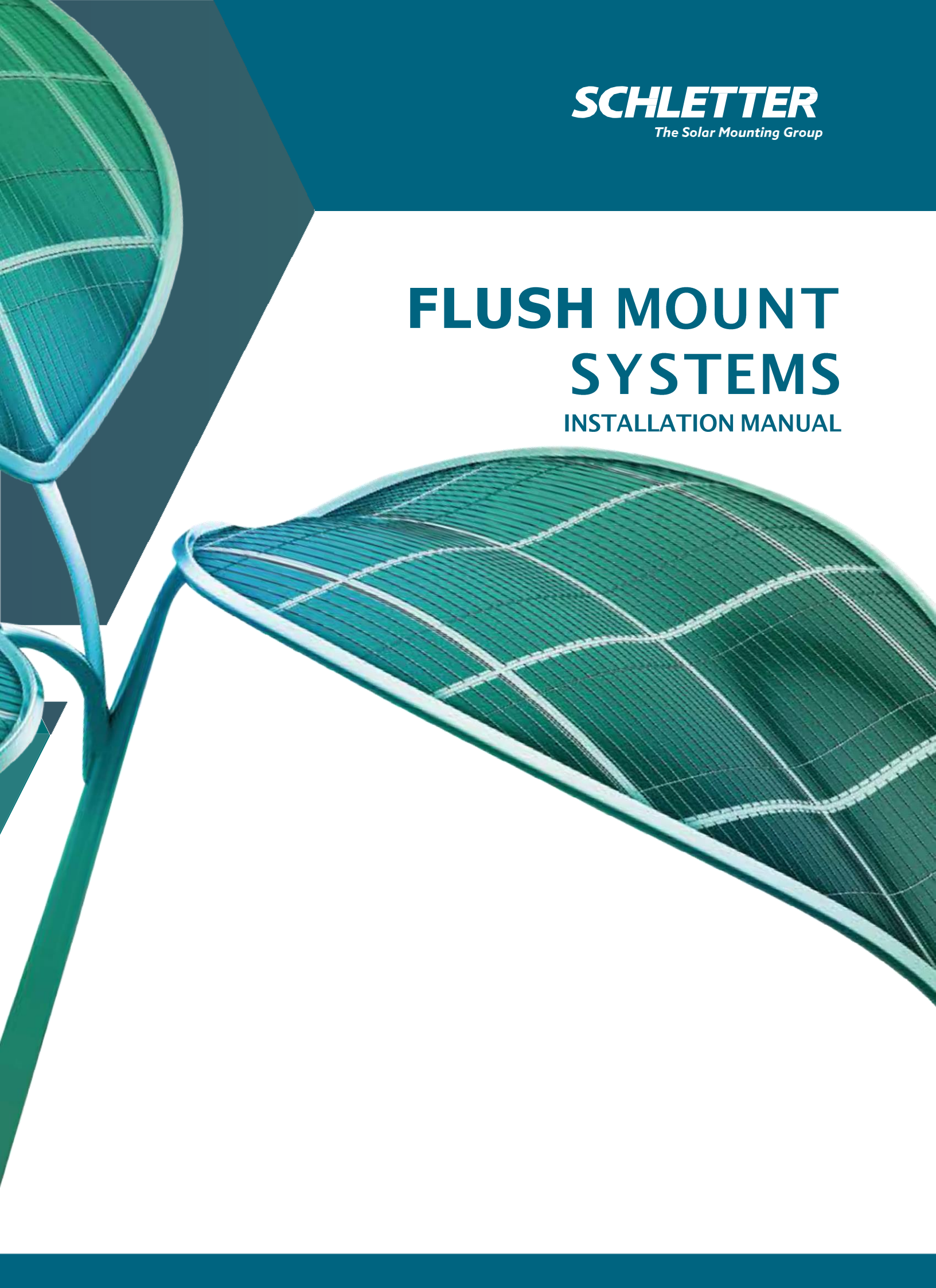


FLUSH MOUNT SYSTEMS

INSTALLATION MANUAL



FLUSH MOUNT FEATURES

Schletter Inc. offers a wide array of solutions for flush mount photovoltaic (PV) applications suitable for nearly any environmental condition. Every solar mounting system is designed for strength and ease-of-installation using high quality products to meet or exceed applicable IBC, ASCE, and UL standards.

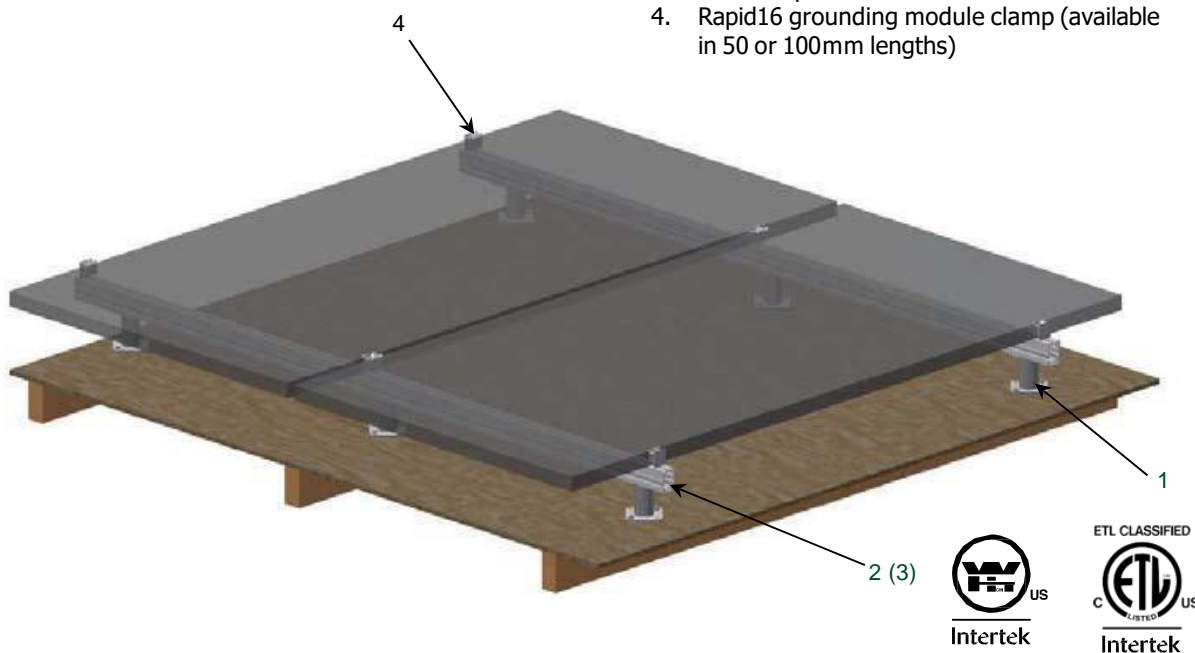
Flush Mount Features

- Conforms to UL 2703¹
- Certified to LTR AE-001²
- Fire class resistance rating: Class A when used with Types I and Type III photovoltaic modules only³
- Flexible design
- Modular components
- Industry leading installation times
- Electrically bonded unit
- Included **Rapid16** grounding module clamp (available in 50 or 100mm lengths)
- Portrait and landscape module orientation⁶

Once the attachment mechanism is installed (i.e. roof hook, Fix2000, etc.), the process for installing the rails, modules, and clamps is essentially the same. The following will review proper installation methods for commonly used roof attachment components for Schletter Flush Mount Systems.⁷

Key Components⁵

1. Roof attachment (standoff shown)
2. Rail (purlin)
3. Internal splice
4. Rapid16 grounding module clamp (available in 50 or 100mm lengths)



¹The Flush Mount System is evaluated for electrical bonding only. The Flush Mount System meets all IBC and ASCE requirements for structural loading; it was not evaluated for loading under UL 2703.

²Maximum load 5,400 Pa. Flush Mount Systems generally have a roof connector every 2 modules.

³Special consideration needs to be taken during design phase if system requires protective fire barrier.

⁴Maximum number of modules shall not exceed maximum system voltage.

⁵Individual parts and components will vary from system-to-system. Please reference system specific drawings.

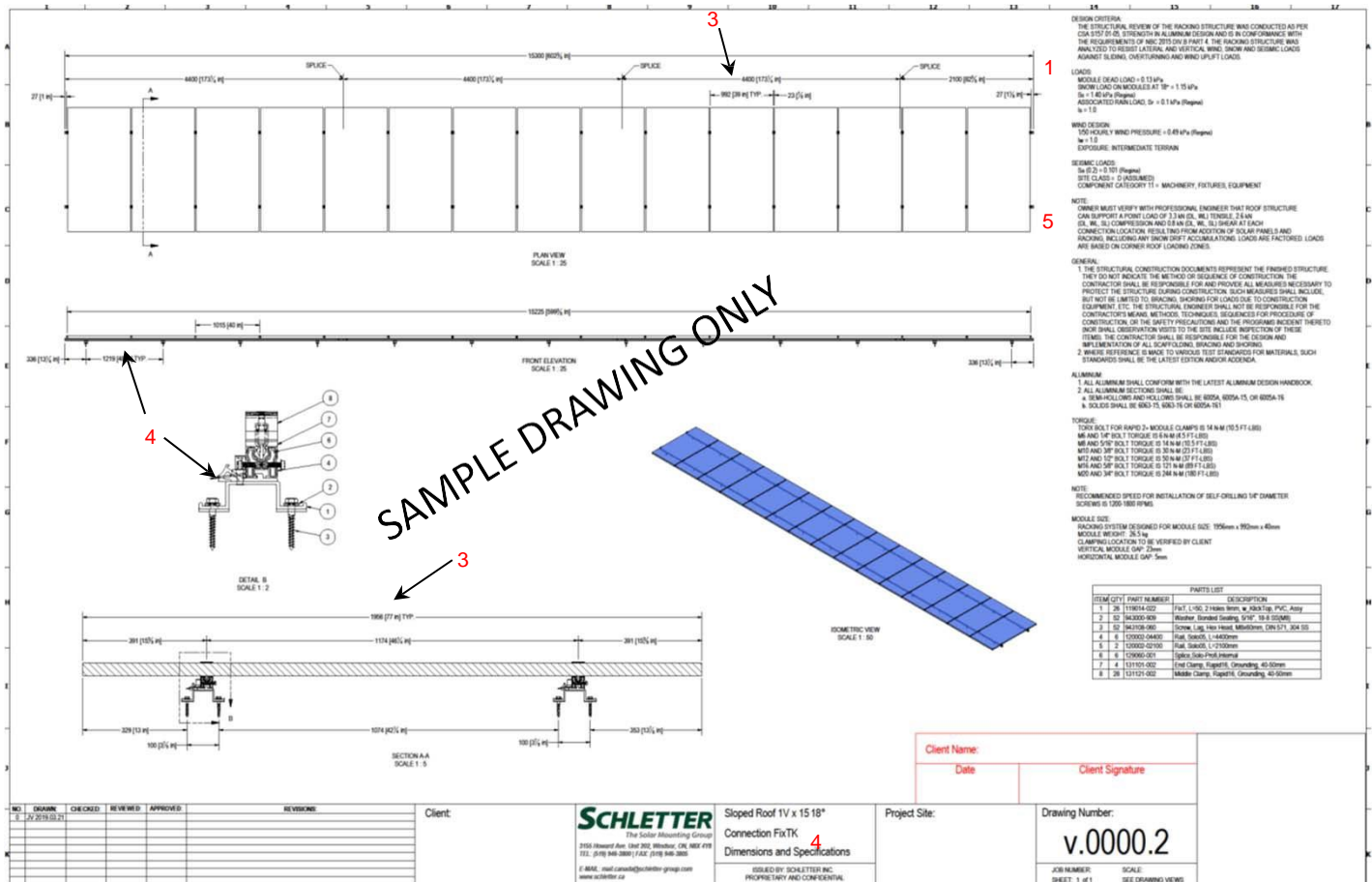
⁶This racking system may be used to ground and/or mount a PV module complying with UL1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included manual.

⁷Installer is responsible for verifying that photovoltaic system meets applicable NEC standards.

SAMPLE DRAWINGS

Specific drawings are provided for each project. Key information included on these drawings is as follows:

1. Design Criteria
2. Notes Section
3. Module Dimensions
4. Connection Spacing and Type
5. Connection Forces



Recommended Maximum System lengths : Thermal expansion (Gap between racks 25-50mm)

System Type	Maximum length (ft)
Flush mount using self drilling screws	20 (6.1m)
Flush mount using using FixT, roof hooks, etc.	35 (10.7m)

INSTALLATION TOOL LIST

- Tape measure
- Chalk line
- Marker
- Inclinator
- Carpenters square
- Pliers
- Torx® bit (TX40) for Rapid16™ module clamps
- 3/8" drive socket for self-drilling screws
- Drill bit — check hardware to determine drill bit size
- Torque wrench
- Wrench and/or socket for all bolted connections
- Rubber mallet for installation of end caps
- Ratchet and/or rechargeable power drill
- Chop saw



ASPHALT SHINGLE ROOF ATTACHMENTS

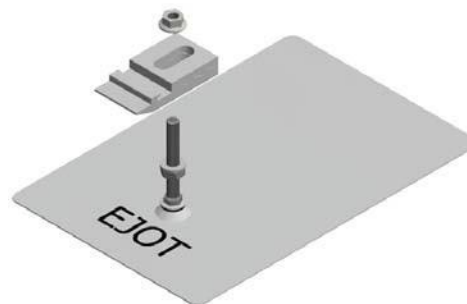
1. Connect Roof Attachment

- Rapid 2+ SML for asphalt roof
- See Quick Mount PV, EcoFasten, or Ejot installation specifications.⁸

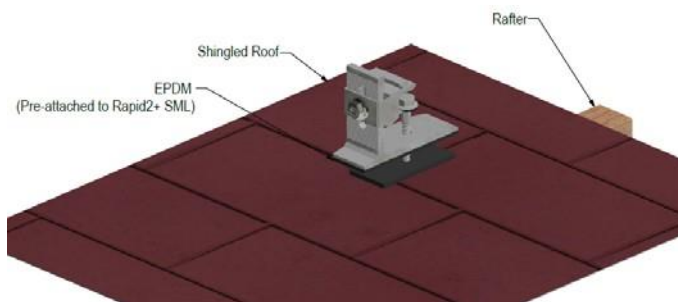
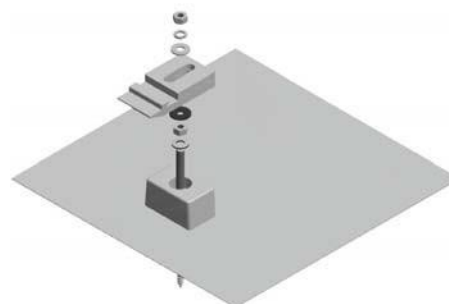
www.quickmountpv.com

www.ecofastensolar.com

www.ejot-usa.com

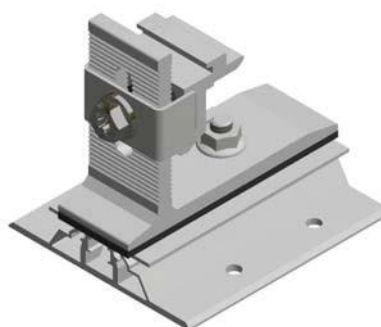


Connect ClickTop HB as shown using provided hardware



Connect Rapid2+ SML to rafters using lag bolt incl. sealing washer

919015-001 – Butyl Tape, required when installing Rapid2+ SML on asphalt shingles. (not included with Rapid2+SML)



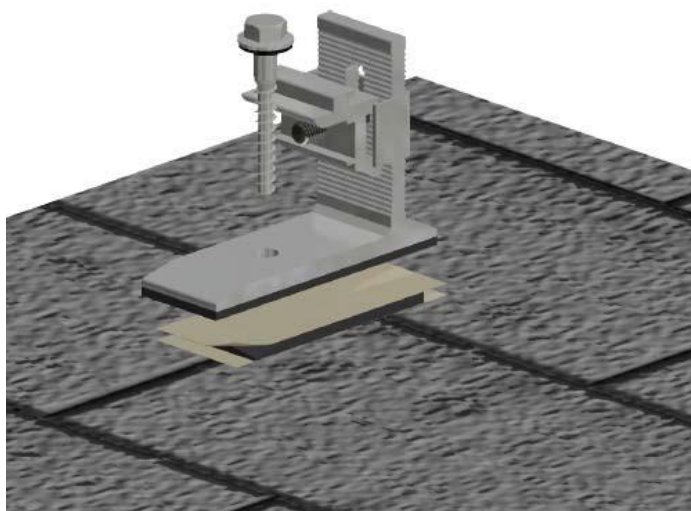
Rapid SML can be used with Power Clamp RT-Mini, no additional butyl tape required.

⁸©Quick Mount PV is owned exclusively by Quick Mount; ©EcoFasten is a registered tradename of EcoFasten Solar; ©EJOT is a registered tradename of EJOT; neither tradename is owned by Schletter

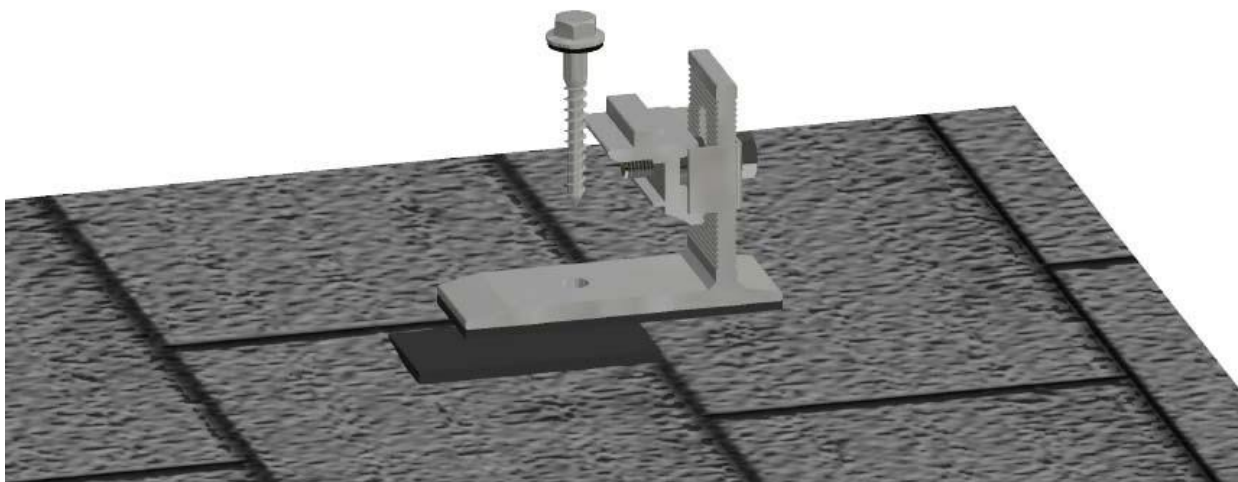
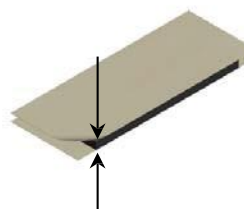
MOUNTING INSTRUCTIONS RAPID2+SML ON SHINGLED ROOFS

Mounting and Sealing

- Shingles must be in sound condition, dry and free of any damage or debris to ensure flush contact with butyl tape
- Service temperature range of the butyl tape is -40°F to 190°F (-40°C to 88°C)
- Application temperature = service temperature, must follow installation instructions according to butyl tape data sheet (page 7)
- Butyl tape must not be installed on seam or gap. If installing on overlaying shingles, additional butyl tape is required to create a flush surface
- Wood screw must be fastened vertically to ensure tightness of sealing washer
- While Schletter
NA offers components that can help to seal penetrations, responsibility for sealing penetrations lies with the installer



**Press firmly on the corner
before removing the paper!**
If you don't press firm enough,
the paper will not peel off the
butyl tape.



Pitched Roof Solar Mount Tape

Pitched Roof Solar Mount tape is a butyl, pressure sensitive high performance tape specifically for solar mounting applications on pitched roof. This product is compatible with a wide range of roofing materials and designed for installation and performance in wide range of temperatures.

Technical Data

Property	Typical Value	Test Method
Service Temperature Range	-40°C to 88°C (-40°F to 190°F)	
Tensile Strength	80 kPa	ASTM D412, Die C
Peel Adhesion	2 N/mm	FLTM BU 112-02, Method A
Adhesive Strength	1.5 N/mm	FLTM BU 112-02, Method C
Burn Rate	0.99 in/min	FMVSS 302
Elongation	800%	ASTM D412, Die C

Instructions

The substrate must be thoroughly dry before installation. A completely dry surface is critical to long-term performance, use of hot-air or a torch is recommended for any substrate showing obvious moisture. For this application, the application temperature of the substrate and tape is not critical to performance, if the product is immediately placed in compression by installation of the system.

To install: remove the protective release liner immediately prior to application, being careful not to contaminate the surface covered by the liner. Apply the part without entrapping air between the tape and the substrate. Install racking application as the next step using torque specified by the racking manufacturer.

Dimension and Packaging:

Individual Piece: 38 mm x 80 mm
Box: 38 mm (1.5") x 80 mm (3.1") (die-cut)

Dimension and Packaging:

Storage material in original unopened packaging at temperatures between 20°C to 50°C (68°F to 120°F). Shelf life is 24 months when stored as recommended.

Dimension and Packaging:

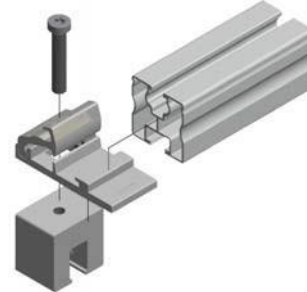
Prior to working with this or any product consult product label and Safety Data Sheet (SDS) for necessary health and safety precautions and disposal considerations.

STANDING SEAM CLAMP

Schletter Flush Mount Systems are compatible with most standing seam clamps on the market.

1. Connect Standing Seam Clamp

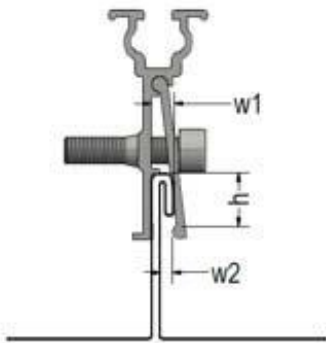
- See S-5!/Solar Connections or similar clamp's webpage for proper installation
- Locate position of clamp on roof; arrange the clamps according to the required rail positions; attach clamps loosely to roof profile, set final torque once rail is positioned



Connect RapFix to standing seam clamp using M8 bolt

2. Railless - Folding Clamp 503 Rapid for Standing Seam Roofs

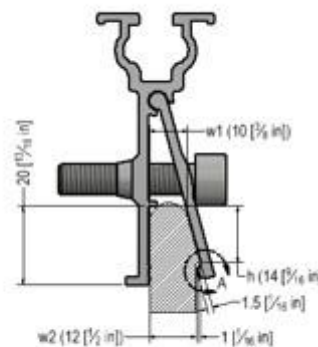
To calculate the number of attachments for a specific location use the rail-less attachment calculator at www.schletter-group.com.



Standard Seam

Typ. seam dimensions:

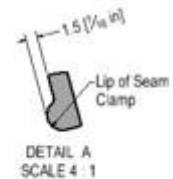
h=11-13 mm
w1=4-6 mm
w2=3 mm



Maximum Seam

Max. seam dimensions:

h=14 mm
w1=10 mm
w2=12 mm



DETAIL A
SCALE 4 : 1

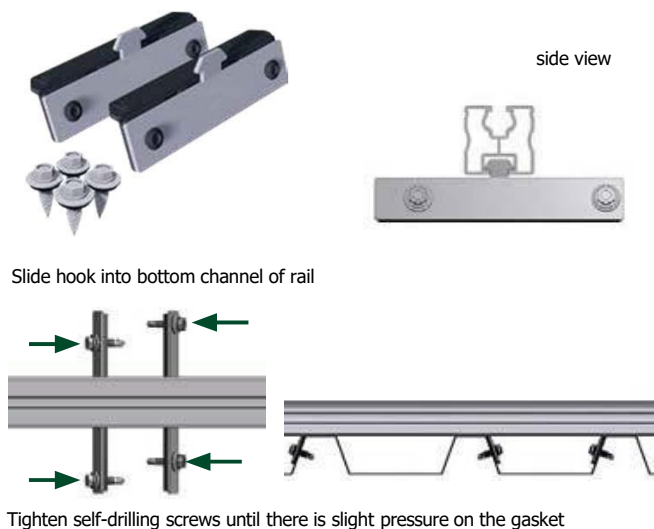
The tightening torque must be limited so that the sheet metal seam does not get distorted, and the thermal lengthening of the sheets is not prevented.

The lip of the 503 Rapid clamp must extend underneath the fold of the standing seam clamp to create a positive, interlocking connection.

SINGLE FIX-V / CLAMPFIT

1. Single Fix-V to Rail Connection

- Connect SingleFix-V to rails before attaching to the roof



2. Connect Single Fix-V to Roof

- Measure and mark distances between attachments before installing (screws should not be uninstalled and reinstalled in same location)
- Connect SingleFix-V to Roof with EcoLight
- 450 mm module support profile



3. ClampFit Fastener

Can be combined with the universal Rapid16 module clamps.

- For all common trapezoidal sheets with a min. of 26 gauge
- Used only for landscape applications
- Clamping location must be verified with module manufacturer
- To calculate the number of attachments for a specific location use the rail-less attachment calculator at www.schletter-group.com.

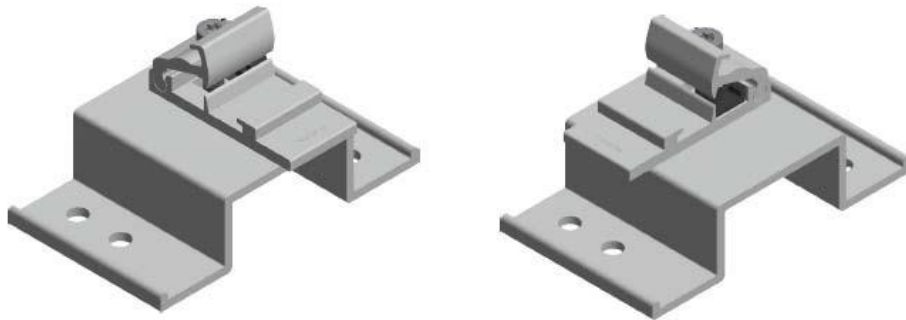


FIX-TK

Aluminum roof attachment for corrugated sheet metal roofs, attaches to strapping or rafters (not OSB/plywood). EPDM and hardware not included. Only 2 screws with sealing washers are required. Holes are 9 mm or 3/8".

1. Connect Fix-TK to Roof

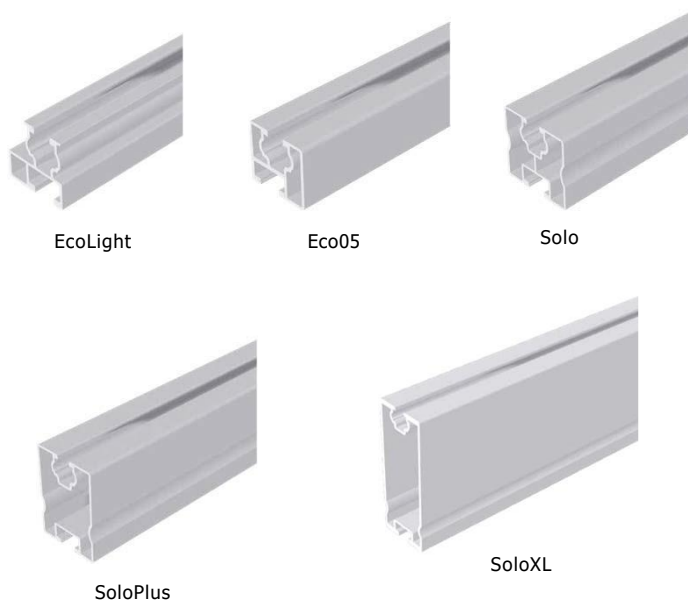
- Locate strapping and mark attachment points (see design drawings and/or span table)
- Drill pilot holes on designated attachment points
- Can be installed perpendicular or parallel to strapping



RAIL INSTALLATION

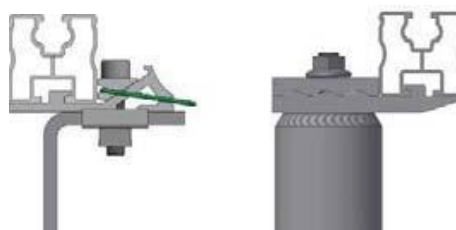
1. Rail Options for Flush Mount Application

- EcoLight, Eco05, Solo, SoloPlus, SoloXL
- Top channel: M8
- Bottom channel: M10

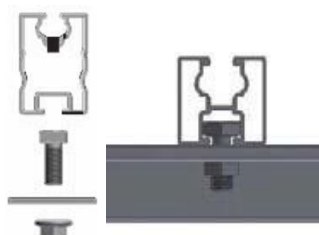


2. Install Rail

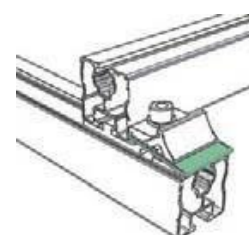
- Installation method varies depending on the type of roof attachment-to-rail connector being used; follow appropriate instructions shown to the right



KlickTop and KlickTop HB: press rail channel into 'hook', secure by tightening bolt/nut



Slide M10 hexagon-head screw into rail channel, secure with M10 flange nut from underside of roof attachment

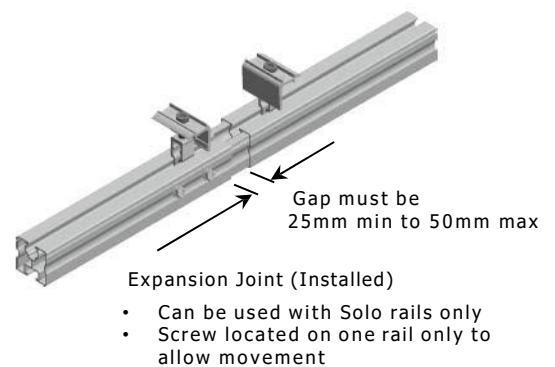
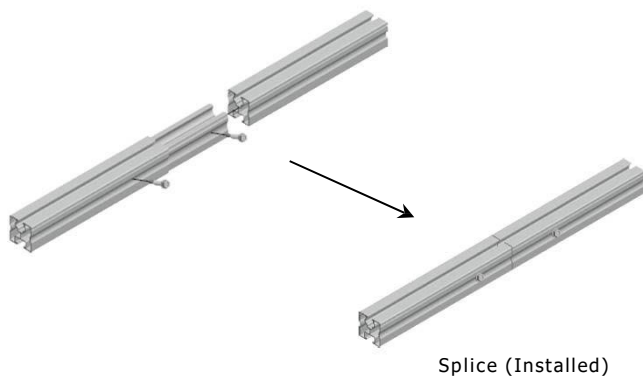


Rail-to-rail connection

RAIL INSTALLATION

3. Add Rail Splice

- Insert half of internal splice into first rail, secure with provided self-drilling screw; insert exposed end of splice into second rail, secure with self-drilling screw



Eco internal connector set Internal



Solo slide-in connector set, Internal

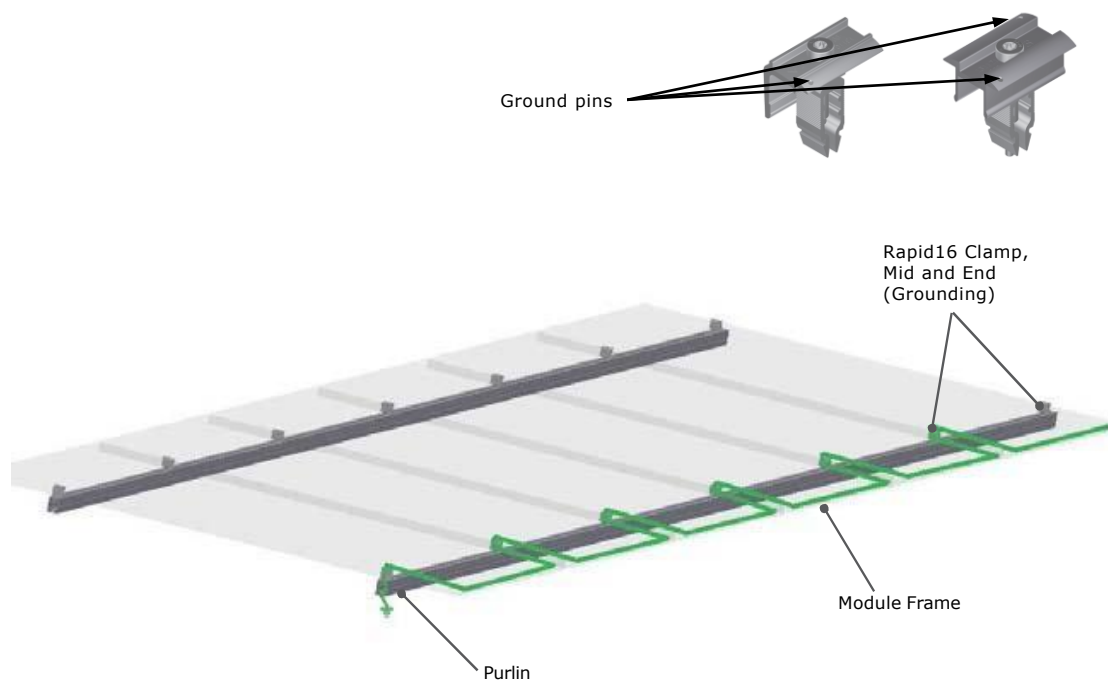


Eco05 connector, External



Solo, SoloPlus & Solo XL connector, External

GROUNDING PATH DIAGRAM



The following purlin rails can be used in combination with Rapid16 clamps to create this grounding path.



EcoLight



Eco05



Solo



SoloPlus

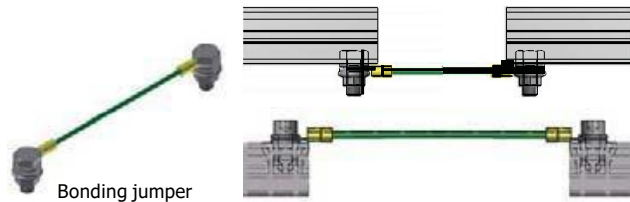


SoloXL

OPTIONAL ACCESSORIES

1. Bonding Jumper

- Electrically bonds adjacent systems, forming a continuous ground path
- Available in 6-inch to 48-inch lengths
- Required at expansion joints/ physical breaks

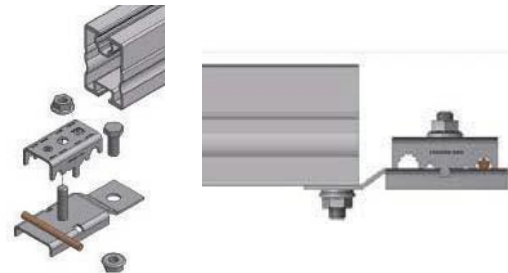


Bonding jumper

Bonding jumper connects directly to the top channel of rail using M8 or M10 hardware or bottom channel using M10 hardware

2. Overcurrent Protection Device (Grounding)

- Accommodates standard or solid copper wire (2 gauge to 14 gauge)
- Must use bare copper wire to make connection. Remove at least 2 inches of insulation to expose copper wire
- Connects to bottom M10 rail channel



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



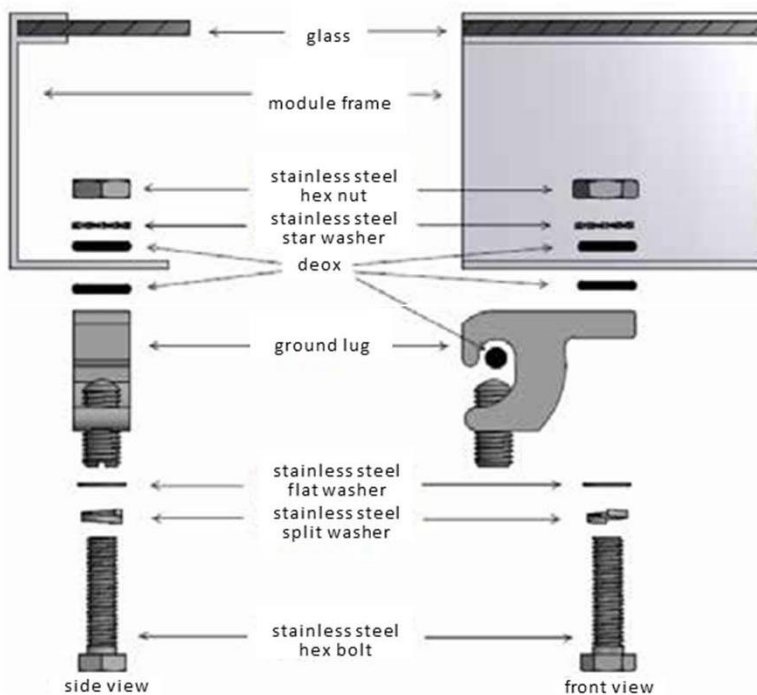
Grounding lug
(Part #135003-003)



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

ILSCO GROUNDING PATH INSTALLATION INSTRUCTION

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



GBL-4SS

OPTIONAL ACCESSORIES

3. Cable Management

- If cable management was ordered with the system, install before modules are in place.
- Keep in mind: ProKlips will be positioned in the space between rail and back of module, which is created by module frame.



ProKlip-Multi 8 (129065-008): gently press clip into top channel of front or rear rail, use caution as clip may break.

ProKlip-C (129005-000): connect clip to side of rail inserting hooks in top and bottom channels

FIRE BARRIER

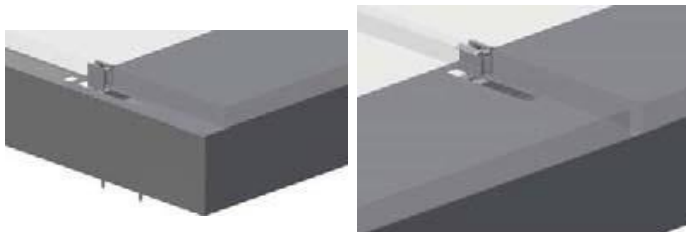
- Required in systems installed on roofs with slopes less than 9.5 degrees (not for use on roofs with slopes greater than 9.5 degrees)
- Fire barrier should be installed after modules are properly installed
- Start at one corner of the system and place the horizontal and vertical fire barrier pieces between the module frame and rail
- Ensure correct dimension of the side alignment of module and rail
- Maximum opening between fire barrier and roof deck is one inch
- Provides for a Class A fire rating when used with Type I modules
- For Type III modules, a minimum of 8" clearance between module and roof deck must be maintained, but no fire barrier is required for a Class A rating
- Only required on perimeter of array



Position side fire flashings



Position front and back fire flashings

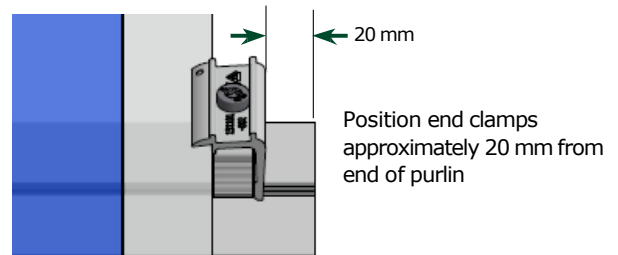


Position Modules; see page 14 for module installation instructions. Secure all connections using module clamps

MODULE MOUNTING

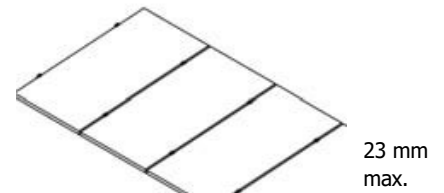
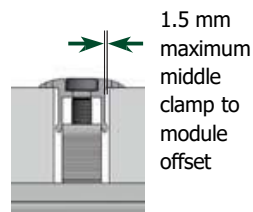
1. Position Modules

- Position end clamps on rail approximately 20 mm from end of rail, do not tighten
- Position first module and secure using pre-positioned end clamps, do not tighten
- Attach middle clamps to rail on the exposed side of first module
- Place second module next to first module and secure using middle clamp, do not tighten
- Repeat until end of row
- Modules installed in landscape require Module Support Plate (Part #139004-005) installed between module and rail

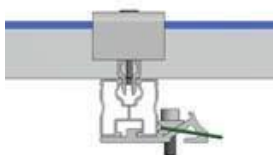


2. Secure Modules

- Verify that the module clamp is fully engaged on the rail and 1.5 mm maximum middle clamp to module offset is aligned with the module frame
- Secure all clamps to specified torque values
- When mounting modules, please observe the clamping points specified by the module manufacturer



Allowable gaps between modules



Rapid16 clamp connected to purlin (side view)



Completed installation with module (Roof Hook)



Completed installation with module (Standoff)



Completed installation with module (Fix2000)

EQUIPMENT GROUNDING

- UL 2703 - Clause 26.7: For devices that are only to be utilized one time, such as torque to yield fasteners or single-use bonding/grounding devices; the installation instructions shall include the statement "For single-use only", or the equivalent.
- Many PV installations contain more than one mounting system. Such cases call for electrically bonding each of the different mounting systems. Since individual racks are fully bonded units, it is only necessary to connect individual racks together from one single point to another single point. Only use stainless steel hardware when connecting harnesses or jumpers to the mounting system. Take care to prevent copper wires from directly contacting aluminum surfaces as this will cause corrosion. For this purpose, Schletter supplies a bonding jumper (see page 6).
- The PV INSTALLER of Schletter's electrically bonded PvMax system must provide the components necessary for the final connections to the grounding electrode system. Typically, the installation will incorporate a grounding electrode (ground rod), appropriately sized copper wire, rated wire connectors, and grounding lugs which are rated for this purpose. The PV INSTALLER must follow all manufacturers' installation literature. Installation must comply with all applicable NEC/CSA sections including but not limited to; NEC 250 (Grounding and Bonding), NEC 690 (Solar Photovoltaic Systems), CSA 22.1 (Safety Standard for Electrical Installations), and all other applicable state and local electrical code requirements.
- PV INSTALLER shall be fully responsible for all connections between Schletter's bonded PvMax system and PV grounding electrode system.
- Equipment grounding conductors shall be no less than 14AWG (copper) or 12AWG (aluminum).
- Equipment grounding conductors can be connected to any exposed metallic portion of rack system provided that:
 - a. connection area is sufficiently sized
 - b. dissimilar metals are not in direct contact
 - c. connection does not interfere with other components
 - d. connection is protected from damage

TORQUE SPECIFICATIONS AND TOLERANCES

Systems are specifically designed for each project. Please reference the specific project drawing for allowable tolerances and recommended torque for each size of bolt used in the system.

In the event of deviation from approved drawings, contact Schletter immediately.

Torx Bolt for Rapid16 Module Clamps	15 N-M	10.5 FT-LBS
M6 and 1/4" Bolt	6 N-M	4.5 FT-LBS
M8 and 5/16" Bolt	14 N-M	10.5 FT-LBS
M10 and 3/8" Bolt	30 N-M	23 FT-LBS
M12 and 1/2" Bolt	50 N-M	37 FT-LBS
M16 and 5/8" Bolt	121 N-M	89 FT-LBS
M20 and 3/4" Bolt	244 N-M	180 FT-LBS
Note: Recommended speed for installation of self-drilling 1/4" diameter is 1200-1800 RPMS.		

⚠Schletter recommends two bonding jumpers to connect separate systems for redundancy.

MAINTENANCE

- Yearly inspection of system should be conducted to maintain optimal performance.
- Visually inspect for signs of damage, wear, corrosion, or movement. Replace any affected components immediately.
- Check for loose wiring.
- Maintenance should only be performed by qualified personnel.
- Check mechanical details of structure:
 - At least 2% of bolted connections must be checked using a calibrated torque wrench. The torque wrench must have a display or be a click type torque wrench.
 - Torque wrench should be set at 50% of intended tightening torque. Check is successful if bolt cannot be loosened.
 - If >10% of checked bolted connections are loose, check has to be increased to 10% of all bolted connections.
 - If more than 10% of connections are still loose, all bolted connections must be checked.
 - Tighten all non-conforming bolts to specified torques
 - Requirements per ASME B107 and AISC



WARNING: Risk of death by electric shock.

AVERTISSEMENT: Danger de mort par secousse électrique.

SAFETY PRECAUTIONS

Follow proper installation and safety procedures at all times. Edges of parts may be sharp. Follow proper lifting procedures.

FOR MORE INFORMATION

For United States, visit www.schletter.us or call 888-608-0234 or for Canada, visit www.schletter.ca or call 519-946-3800 to speak to a Schletter representative for more information.

Torx® is a registered trademark of the Camcar Corp. division of Textron Industries.

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSHMOUNT

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 CS3U MS-FG CS3L-P CS3L-MS CS3L CS3K-PB-AG CS3K-P CS3K-MS CS3K-MB-AG CS3K CS1Y-MS CS1U-MS CS1K-MS CS1H-MS CS3Y-MB-AG CS3Y-PB-AG CS3Y-MS CS3Y-P
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 ET-M672BH-xxx-GL ET-M672BH-xxx-TW ET-M672BH-xxx-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

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSHMOUNT

MANUFACTURER	MODEL NUMBERS
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/BFG/BGT
	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
	Q.Peak Duo XL G10.3
	Q.Peak Duo XL G10.3 BFG
	Q.Peak Duo BLK ML G10
	Q.Peak Duo XL G11.3
Heliene	Heliene 36 60 72 96M Heliene 36 60 72 96P
	Heliene MAX HOME PV Black 350 Heliene MAX Series 430
	Helien 72 M G1

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSH MOUNT

MANUFACTURER	MODEL NUMBERS
Hyundai Solar	HiS-M250 255 260 265RG HiS-M310 315 320 325Ti HiS-S265 270 275RG HiS-S330 335 340 345 350Ti
JA Solar	JAM72D30 525-550/MB JAM54S31 380-405/MR/1500V-DS
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 JKMxxxM-6RL3-B
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 LGxxxN1T-E6 LGxxxN1K-E6 LGxxxN1C-E6 LG360M1C-N5 LGxxxA1C-V5

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSH MOUNT

MANUFACTURER	MODEL NUMBERS
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 LR4-72HBH 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 LR5-66HPH xxx M LR5-66HBD xxx M LR5-72HPH xxx M LR5-72HBD xxx M LR4-60HPH xxx M LR4-72HPH xxx M LR4-72HBD xxx M LR4-60HPB xxx M
Meyer Burger	Black 375-395 Wp Glass 370-390 Wp
Panasonic	EVPV xxx EVPV xxx K
Peimar	SM325M (FB) SM330M (BF) SM385M SM390M SM400M
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 REC xxx AA Pure Black REC xxx TP4 Black
Risen	RSM60-6-270M-290M/5BB
Seraphim	SEG-xxx-BMA-HV SEG-xxx-BMA-BG SEG-xxx-BMB-HV SRP-xxx-BMA-BG SRP-xxx-BMA-HV SRP-xxx-BMD-HV
Solaria	PowerXT-400R-PM PowerXT-400R-PM-AC

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSH MOUNT

MANUFACTURER	MODEL NUMBERS
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 SPR-A-xxx-G-AC SPR-MAX2-xxx-COM SPR-MAX3-xxx-COM SPR-MAX5-xxx-COM SPR-MAX5-xxx-E3-AC SPR-P3-xxx-COM-1500 SPR-X22-xxx-COM
Suntech	STPxxxS – A60U/Wfhh 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 DE06X.05(II)Series TSM-DEG15V.C TSM-DE09.XX (Vertex S)

UL 2703 QUALIFIED MODULES FOR USE WITH SCHLETTER RACKING SYSTEM: FLUSH MOUNT

MANUFACTURER	MODEL NUMBERS
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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