### **Columbia County Remodel Permit Application**

2/100
For Office Use Only Application # 1903-111 Date Received 3-29-19 By UH Permit # 37975
Zoning Official Date 3-29-19 Flood Zone AE Land Use ESA Zoning ESA-Z
FEMA Map #
Comments Roy Nounted Array No effect on flood zone
NOC Deed or PA Dev Permit # In Floodway Letter of Auth. from Contractor
□ F W Comp. letter □ Owner Builder Disclosure Statement □ Land Owner Affidavit □ Ellisville Water □ App Fee Paid
A∰Site Plan □ Env. Health Approval A∰Sub VF Form
Fax
Applicant (Who will sign/pickup the permit) Glenn Hnilica Date Ross Phone 727-657-8798
Address 1390 Gulf to Bay BLYD Clearwith fc 33755
Owners Name James Greene Phone 386-288-7766
Owners Name James Greene  Phone 386-288-7766  911 Address 1021 NW Everett Ter White Springs for 32096
Contractors Name Dale Jarosz Phone 727-657-8798
Address 1390 Gulf To Bay Blvd, Clearwater, FL. 33755
Contractor Email celeste@solartechelec.com ***Include to get updates on this job.
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address ALLEN GENZEUMN PE 15502 HANNY RL
Mortgage Lenders Name & Address (utl., \$1, 33549)
Circle the correct power company FL Power & Light Clay Elec.   Suwannee Valley Elec.   Duke Energy
Property ID Number 20-2S-16-01657-011 Estimated Construction Cost \$33,210
Subdivision Name Det Davis 5/D Lot Block Unit Phase
Driving Directions from a Major Road 41 N / D Suwannee Valley Rd
(R) Everett Tor, after "5" Curve on (R)
before 3rd 90° curve
Construction of Solar PV - Roof MountedCommercial OR X Residential
Type of Structure (House; Mobile Home; Garage; Exxon) Mobile Home
Use/Occupancy of the building now Occupancy Is this changing No
If Yes, Explain, Proposed Use/Occupancy
Is the building Fire Sprinkled? No If Yes, blueprints included Or Explain
Entrance Changes (Ingress/Egress)N 🖔 If Yes, Explain
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)
Page 1 of 2 (Both Pages must be submitted together.) Revised 7-1-15

1.4. c. 1. . . 1 4. 6-19

### **Columbia County Building Permit Application**

### CODE: Florida Building Code 2017 6th Edition and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

JAMES A GREENE	In A Gereen	Property owners <u>must sign</u> here" before any permit will be issued.
Print Owners Name	Oyvners Signature	

\*\*If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.

**CONTRACTORS AFFIDAVIT:** By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

All Al	Contractor's License Number EC 1300 7901
Contractor's Signature	Columbia County Competency Card Number  Z094
Affirmed under penalty of perjury to by the Contractor and	d subscribed before me this 13th day of March 2019.
Persønally knownor Produced Identification	
Dupleston	SEAL: DIA M. PRESTON AM COMMISSION # FF 241539
State of Florida Notary Signature (For the Contractor)	EXPIRES: July 5, 2019

State of Florida Notary Signature (For the Contractor)

### **Columbia County Property Appraiser**

Jeff Hampton

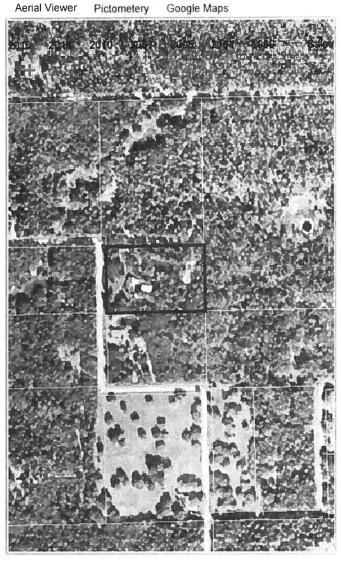
Parcel: << 20-2S-16-01657-011 >>

2018 Tax Roll Year updated 3/5/2019

Owner & Pr	operty Info	Result: 1 of 1			
Owner	GREENE JAMES A & CHERYL J 1021 NW EVERETT TERR WHITE SPRINGS, FL 32096				
Site	1021 EVERETT	1021 EVERETT TER, WHITE SPRINGS			
Description*	LOT 11 DAVIS S/D. ORB 826-872, DC 950-159 950-1599, WD 1025-159.				
Area	6.22 AC	S/T/R	20-2S-16E		
Use Code**	MOBILE HOM (000200)	Tax District	3		

\*The <u>Description</u> above is not to be used as the Legal Description for this parcel in any legal transaction
\*\*The <u>Use Code</u> is a FL Dept of Revenue (DOR) code and is not maintained by the Property Appraiser's office Please contact your city or county Planning & Zoning office for specific zoning information.

Property &	Assessment Va	lues	
2018 Cer	tified Values	2019 Wo	rking Values
Mkt Land (2)	\$17,263	Mkt Land (2)	\$18,513
Ag Land (0)	\$0	Ag Land (0)	\$0
Building (1)	\$78,790	Building (1)	\$79,435
XFOB (6)	\$11,300	XFOB (6)	\$11,300
Just	\$107,353	Just	\$109,248
Class	\$0	Class	\$0
Appraised	\$107,353	Appraised	\$109,248
SOH Cap [?]	\$2,909	SOH Cap [?]	\$0
Assessed	\$107,353	Assessed	\$109,248
Exempt	HX H3 OTHER \$55,000	Exempt	HX H3 OTHER \$55,000
Total Taxable	county:\$52,353 city:\$52,353 other:\$52,353 school:\$77,353		county:\$54,248 city:\$54,248 other:\$54,248 school:\$79,248



Sales History						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
8/27/2004	\$14,000	1025/0159	WD	V	Q	
4/2/2002	\$100	950/1599	WD	V	U	06
8/6/1996	\$7,500	826/0872	WD	V	Q	

▼ Building Characteristics								
Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value		
Sketch	1	SFR MANUF (000200)	2009	2280	3904	\$79,435		

\*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

<b>▼</b> Extra	Features & Out Bu	uildings (Code	es)			
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0060	CARPORT F	2005	\$900.00	360.000	18 x 20 x 0	(000.00)
0296	SHED METAL	2005	\$500.00	1.000	0 x 0 x 0	(000.00)
0040	BARN,POLE	2009	\$1,500.00	1.000	0 x 0 x 0	AP (025.00)
0070	CARPORT UF	2013	\$200.00	1.000	0 x 0 x 0	(000.00)
0070	CARPORT UF	2017	\$400.00	1.000	0 x 0 x 0	(000.00)

### NOTICE OF COMMENCEMENT

**Tax Parcel Identification Number:** 

20-25-16-01657-011

### Clerk's Office Stamp

Inst: 201912006832 Date: 03/21/2019 Time: 11:56AM Page 1 of 1 B: 1380 P: 2401, P.DeWitt Cason, Clerk of Court Columbia, County, By: KV Denuty Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

LOT 11 DAVIS S/D. ORB826-872, DC 950-1596, 950-1599, WD 1025-159
L. Description of property (legal description): LOT 11 DAVIS S/D. ORB826-872, DC 950-1596, 950-1599, WD 1025-159 a) Street (job) Address: 1021 NW EVERETT TERR, WHITE SPRINGS, FL. 32096
a) Street (job) Address: 102 114 V EVERET TERRY, VVIII E STARKES) E SESSO
. General description of improvements: SOLAR PV
8. Owner Information or Lessee information if the Lessee contracted for the improvements:  a) Name and address: JAMES A GREENE & CHERYL
a) Name and address: JAMES A GREENE & CHERTLI
b) Name and address of fee simple titleholder (if other than owner)
c) Interest in property
a) Name and address: SOLAR TECH ELEC LLC 1390 GULF TO BAY BLVD, FL. 33755
b) Telephone No.: 727-657-8798
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address:
b) Amount of Bond:
c) Telephone No.:
5. Lender
a) Name and address:
b) Phone No.
7. Person within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section
713.13(1)(a)7., Florida Statutes:
a) Name and address:
b) Telephone No.:
3. In addition to himself or herself, Owner designates the following person to receive a copy of the Lienor's Notice as provided in
o : man amilità di sida Pantuana
a) Name:OF
b) Telephone No.:
by telephote No.
Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date
<ol> <li>Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):</li> </ol>
is specified):
is specified): WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF
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is specified):
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Expires March 5, 2022 Bonded Thru Budget Notiny Services

### Single Phase Inverter with HD-Wave Technology

### for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US /

SE7600H-US / SE10000H-US / SE11400H-US





### Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance

- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
  - Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)



NVERT

### / Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	<b>✓</b>	<b>*</b>	<b>~</b>	<b>*</b>	<b>✓</b>	<b>~</b>	✓	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)	-	<b>*</b>	-	<b>✓</b>	-	-	✓	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.5 <sup>(f)</sup>				Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
Maximum Continuous Output Current @208V	-	16	-	24	-	-	48.5	А
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V	-	5100	-	7750	-	-	15500	W
Transformer-less, Ungrounded		1		Yes				
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage			380			400		Vdc
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Ado
Maximum Input Current @208V®	127	9	-	13.5	=	-	27	Add
Max. Input Short Circuit Current				45				Add
Reverse-Polarity Protection				Yes				
Ground-Fault Isolation Detection				600k₂ Sensitivity				
Maximum Inverter Efficiency	99			9	9.2			%
CEC Weighted Efficiency				99			99 @ 240V 98.5 @ 208V	%
Nighttime Power Consumption				< 2.5				W
ADDITIONAL FEATURES								
Supported Communication Interfaces			RS485, Ethern	et, Zig8ee (optional), (	Eellular (optional)			
Revenue Grade Data, ANSI C12-20				Optional <sup>(3)</sup>				
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	oid Shutdown upon AC	Grid Disconnect			
STANDARD COMPLIANCE								
Safety		UL174	1, UL1741 SA, UL1699E	3, CSA C22.2, Canadia	n AFCI according to T	I.L. M-07		and the same of th
Grid Connection Standards			IEE	E1547, Rule 21, Rule 1	4 (HI)			
Emissions				FCC Part 15 Class B				
INSTALLATION SPECIFICA	TIONS							
AC Output Conduit Size / AWG		3	/4" minimum / 14-6 A	WG		3/4" minimu	ım /14-4 AWG	
Range DC Input Conduit Size / # of Strings / AWG Range	3/4" minimum / 1-2 strings / 14-6 AWG 3/4" minimum / 1-3 strings / 14-6 AWG						3 strings / 14-6 AWG	
Dimensions with Safety Switch (HxWxD)		17.7	x 14.6 x 6.8 / 450 x 3	/U x 1/4		21.3 x 14.6 x 7.3	/ 540 x 370 x 185	in /
Weight with Safety Switch	22	/ 10	25.1 / 11.4	26.2	1/11.9	38.8	/ 17.6	lb/l
Noise			: 25			<50		dB/
Cooling				Natural Convection	 I			
Operating Temperature Range			-40 to +140	/-25 to +60 <sup>(4)</sup> (-40°F /	-40°C option)(3)			'F/'
Protection Rating			NFMA	4X (Inverter with Safe	ty Switch)			I

<sup>For other regional settings please contact SolarEdge support

A higher current source may be used, the inverter will limit its input current to the values stated

Revenue grade inverter P/N: SExxxxH-US000NNC2

For power de-rating information refer to https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf</sup> 

<sup>19 -40</sup> version P/N SExxxxH-US000NNU4



### SLA-M Monocrystalline















### 300 Wp 60 Cell

Monocrystalline **PV** Module











### 100% MAXIMUM POWER DENSITY

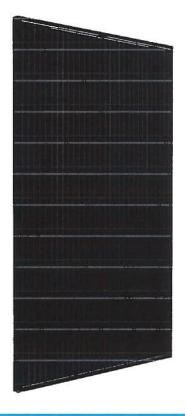
Silfab's SLA-M 300 ultra-high-efficiency modules are optimized for both Residential and Commercial projects where maximum power density is preferred.

### 100% NORTH AMERICAN

QUALITY MATERS Population of the state of th ensures precision engineering is applied at every stage. Superior reliability and performance combine to produce one of the highest quality modules with the lowest defect rate in the industry.

### **NORTH AMERICAN CUSTOMIZED SERVICE**

Silfab's 100% North American based team leverages just-in-time manufacturing to deliver unparalleled service, on-time delivery and flexible project solutions.



### **ENSURES MAXIMUM EFFICIENCY**

### **##** ADVANCED PERFORMANCE WARRANTY

### **## ENHANCED PRODUCT WARRANTY**

### **##** BUILT BY INDUSTRY EXPERTS

processes including: infra-red cell sorting, glass washing,

### **##** POSITIVE TOLERANCE

### **44 PPM DEFECT RATE\***

### **LIGHT AND DURABLE**

Over-engineered to weather low load bearing structures up

### **PID RESISTANT**

### **AVAILABLE IN**



Electrical Specifications		SILFAB SLA M	1onocrystalline
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	300	227
Maximum power voltage (Vpmax)	V	32.8	29.5
Maximum power current (Ipmax)	Α	9.16	7.69
Open circuit voltage (Voc)	V	39.85	36.9
Short circuit current (Isc)	Α	9.71	7.96
Module efficiency	%	18.4	17,3
Viaximum system voltage (VDC)	V	10	000
Series fuse rating	A		15
Power Tolerance	Wp	-0	0/+5

Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOCT 800 W/m $^2$  • AM 1.5 • Measurement uncertainty  $\le 3\%$  • Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by  $\pm 5\%$  and power by  $\pm 0$ /+5.

Sull simulator cambiation references			
Temperature Ratings		SILFAB SLA Monocrystalline	
Temperature Coefficient lsc	%/K	0.03	
Temperature Coefficient Voc	%/K	-0.30	
Temperature Coefficient Pmax	%/K	-0.38	
NOCT (± 2°C)	°C	45	
Operating temperature	°C	-40/+85	
Mechanical Properties and Components		SILFAB SLA Monocrystalline	THE RE
Module weight (± 1 kg)	kg	19	
Dimensions (Hyly D) + 1mm)	mm	1650 x 990 x 38	

Dimensions (H x L x D; ± 1mm)	mm	1650 x 990 x 38
Maximum surface load (wind/snow)*	N/m²	5400
Hail impact resistance		ø 25 mm at 83 km/h
Cells		60 - Si monocrystalline - 4 or 5 busbar - 156.75 x 156.75 mm
Glass		3.2 mm high transmittance, tempered, antireflective coating
Backsheet		Multilayer polyester-based
Frame		Anodized Al
Bypass diodes		3 diodes-45V/12A, IP67/IP68

Cables and connectors (See installation manual) 1200 mm ø 5.7 mm (4 mm2), MC4 compatible

Warranties SILFAB SLA Monocrystallin

12 years
25 years
≥ 97% end of 1st year
≥ 90% end of 12th year
≥ 82% end of 25th year

Linear power performance guarantee

Module product warranty

### Certifications SILFAB SLA Monocrystalline

ULC ORD C1703, UL 1703, IEC 61215, IEC 61730, IEC 61701, CEC listed

UL Fire Rating: Type 2 (Type 1 on request)

150 9001:2008

Product - Factory



Warning: Read the installation and User Manual before handling, installing and operating modules.

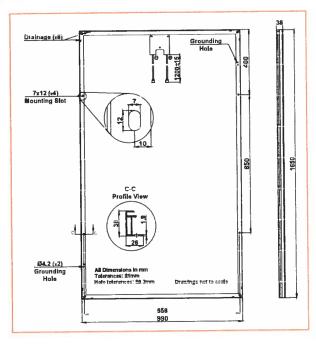
Third-party generated pan files from PV Evolution Labs available for download at: www.silfab.ca/downloads



Pallet Count: 26
Container Count: 936



Silfab Solar Inc. 240 Courtneypark Drive East • Mississauga, Ontario Canada L5T 2S5 Tel +1 905-255-2501 • Fax +1 905-696-0267 info@silfab.ca • www.silfab.ca



### CERTIFICATE OF COMPLIANCE

 Certificate Number
 20150626-E467724

 Report Reference
 E467724-20150108

Issue Date 2015-JUNE-26

Issued to: Everest Solar Systems

Ste 111

3809 Ocean Ranch Blvd Oceanside CA 92056

This is to certify that representative samples of

MOUNTING SYSTEMS, MOUNTING DEVICES, CLAMPING DEVICES AND GROUND LUGS FOR USE WITH PHOTOVOLTAIC MODULES AND PANELS

Everest Crossrail System, utilizing Crossrail 48 and 48-S

rails for System Fire Classification and Bonding. Everest CrossRail System, utilizing CrossRail 80 for

Bonding.

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 2703, Outline of Investigation for Mounting Systems,

Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules

and Panels.

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenhoiz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <a href="http://ul.com/aboutu/locations/">http://ul.com/aboutu/locations/</a>



February 9, 2018

Everest Solar Systems, LLC 3809 Ocean Ranch Blvd, Suite 111 Oceanside, CA 92056 Attn: Andy Neshat

RE: CrossRail PV Panel Mounting System Evaluation



To whom it may concern:

Per your request, Moment Engineering + Design has performed a comprehensive structural analysis of the Everest Solar CrossRail Solar PV Mounting System for typical installations in the State of Florida. When installed per the conditions and design criteria described herein, the Y BU CrossRail Solar PV Mounting System is compliant with the sections of the design reference Recei documents noted below.

### **Design Reference Documents**

- o 2017 Florida Building Code
- o 2017 Florida Residential Code
- ASCE/SEI 7-10 Minimum Design Loads for Buildings and Other Structures
- o 2010 Aluminum Design Manual, by the Aluminum Association
- Section and materials data provided by Everest Solar Systems
  - Rail section properties appear in the appendix to this report

### Overview

The CrossRail PV-panel roof mounting system consists of extruded aluminum support rails spanning between points of attachment on an existing roof structure. This analysis is limited to capacity of the CrossRail only. Attachment of the CrossRail Mounting System to the existing roof structure shall be the responsibility of the installer, and should be analyzed by a registered design professional where required by the local authority having jurisdiction.

### Methods & Design Parameters

Applicable combinations of dead, wind, snow, and seismic loads were evaluated in accordance with current code requirements to determine allowable rail span lengths, based on assumptions of single-span conditions and allowable deflection of L/60.

Design wind pressures were determined using Components and Cladding calculations in Chapter 26-30 of ASCE 7-10, using the loading parameters listed below. Configurations not conforming to these parameters will require additional analysis. Calculation of applicable roof snow load should be based upon ground snow load maps and equations and factors of ASCE 7-10, Chapter 7 and applicable sections of the 2017 FBC. For designated Case Study areas noted in the 2017 Florida Building Code, refer to local jurisdiction requirements for snow and wind load determination.

Seismic criteria were considered per provisions of ASCE 7-10 Chapter 13 with parameters specified below. While seismic effects did not appear to govern the capacity of this system, applicable seismic detailing requirements should be satisfied when installed per the manufacturer instructions and additional installation notes specified herein.

### **Loading Parameters:**

- o Ground snow load: Varies
- o Ultimate 3-second gust wind speed (V): 110-200 mph
- o Building roof mean height: 30 ft. or less
- o Roof wind pressure region: Zone 1 Zone 3
- o Structural risk category: II
- o Wind exposure: B, C, D
- o Seismic site class: D
- o Seismic design category: A through E
- o 0.2s MCE<sub>R</sub> ground motion parameter (S<sub>s</sub>): Not to exceed 2.000
- 1s MCE<sub>R</sub> ground motion parameter (S<sub>1</sub>): Not to exceed 1.250
- Component importance factor (I<sub>p</sub>): 1.0
- O Component acceleration factor, (ap): 1.0
- O Component response modification factor  $(R_p)$ : 1.5
- o Panel orientation: Portrait or Landscape
- o Panel installation angle: Flush with roof slope
- O Roof slope (θ): 0-7°, >7-27°, >27-45°

### **Design Results**

The allowable span lengths of the system are principally controlled by applicable wind and snow loads to the structure. Refer to the CrossRail span tables in the appendix to this document for recommended rail configurations based on combinations of these loading parameters. Note that reaction loads provided in the attached tables are only applicable when used with the corresponding span length recommendations provided therein. These reactions may be scaled linearly when shorter spans are used.

### **Installation Notes**

The following guidelines apply to all installations using the CrossRail product line:

- Tables assume two independent support rails per row with either panel orientation.
- Maximum end cantilever of aluminum support rail shall not exceed one-third (1/3) of allowable span in the roof wind pressure zone of the cantilever.
- Rails shall be continuous (not spliced) over a minimum of two supports unless using an approved Everest Solar structural splice.
- Installation over roof overhangs or within 10" of any roof edge is not advised.
- Observe all local jurisdictional requirements regarding roof setback requirements.
- Ensure that actual span length does not exceed capacity of roof attachment.

### **Summary**

This assessment has provided design validation for code-compliant installations of the CrossRail PV Mounting System in the <u>State of Florida</u>. For the configurations and design loadings noted previously, the attached span tables represent maximum span lengths based on allowable stresses and deflection criteria. For all other configurations, refer to Everest Solar Systems for engineering support.

This report does not provide analysis of roof attachment hardware, nor of any existing structures, as may be required by the local authority having jurisdiction.

We appreciate the opportunity to have assisted you with this project. Should you have any further questions regarding this analysis, please feel free to contact us by phone or email.

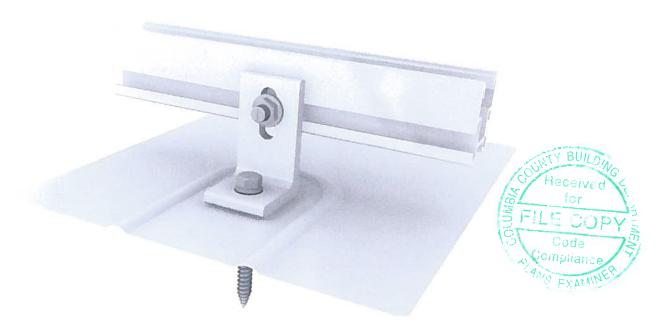


Shawn P. Kelley, P.E. **Principal**moment ENGINEERING + DESIGN

spkelley@msegllc.com

### Mounting systems for solar technology







**EVEREST SOLAR SYSTEMS** 

### **EverFlash** COMP SHINGLE ROOF ATTACHMENT

4000367 | EverFlash Comp Kit, 10X12" Mil 4000366 | EverFlash Comp Kit, 10X12" Black



EverFlash Flashing, 10" x 12"

Material: aluminum Finish: mill, dark



5/16" Sealing Washer

Material: stainless steel, EPDM insert



EverFlash L-Foot and Hardware

Material: aluminum Finish: mill, dark



5/16" Lag Bolt

Material: stainless steel

### GENERAL GUIDELINES

- ¬ Always refer to roofing manufacturer's instructions prior to starting work.
- ¬ Refer to the American Wood Council's guidelines for Lag pull-out capacities (NDS 2005, Table 11.2A).
- Everest Solar recommends consulting a professional roofer prior to beginning work.
- ¬ Installer is responsible for verifying the structural integrity of the roof prior to installation.

### **ASSEMBLY: STEP BY STEP**





Locate the rafters and snap horizontal and vertical lines to mark the installation position for each EverFlash flashing.

Materials required Tape measure, string line





Drill a pilot hole (1/4" diameter) for the lag bolt. Remove any saw dust and fill the hole with the roofing manufacturer's recommended sealant.

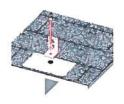
Materials required: Drill





Insert the flashing so the top part is under the next row of shingles and pushed far enough up slope to prevent water infiltration through vertical joint in shingles. The leading edge of flashing must butt against upper row of nails to prevent turning when tourqued.

Materials required: EverFlash flashing





Line up pilot hole with EverFlash flashing hole. Insert the lag bolt through the EPDM bonded washer, the L-Foot, the gasketed hole in the flashing and into the rafter.





Torque: The range is between 8.3 - 11.6 lb-ft depending on the type of wood and time of year. The visual indicator for proper torque is when the EPDM on the underside of the bonded washer begins to push out the sides as the washer compresses. If using an impact wrench to install the fasteners be careful not to over torque the fastener. You may need to stop and use a ratchet to finish the install.





Install Everest Mounting System (refer to CrossRail 48/80 installation manual)

The EverFlash is simple and fast to install. Please contact us for further assistance:

**SERVICE-HOTLINE + 1 760.301.5300** 

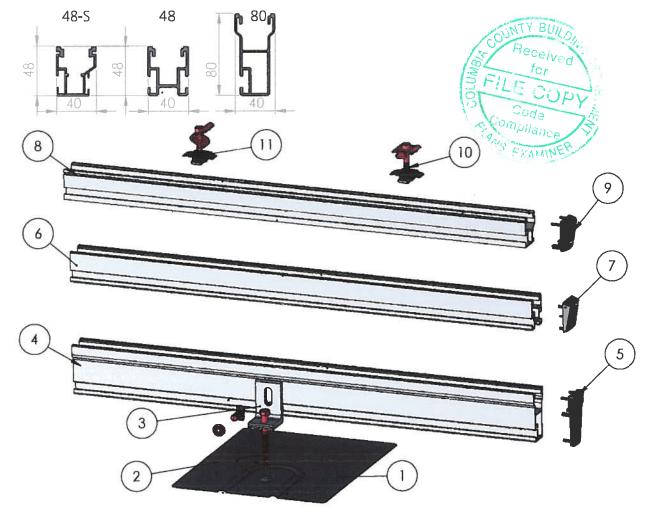
Everest Solar Systems, LLC 3809 Ocean Ranch Blvd., Suite 111 Oceanside, CA 92056 Service-Hotline +1.760.301.5300 info@everest-solarsystems.com www.everest-solarsystems.com Evertlash Technical flyer | US1 | 0415

### CrossRail

### **Technical Sheet**

Mounting systems for solar technology





\*\*All dimensions are in mm unless otherwise specified

ITEM NO.	DESCRIPTION
1	EverFlash Comp Kit, 10X12"
2	Lag Screw 5/16"X3" 18-8 SS
3	L-Foot UL 2703 Set, CR48-S/48/80
4	CrossRail 48-S, Mill, Dark Anodized
5	CrossRail 48-S End Cap
6	·CrossRail 48, Mill, Dark Anodized
7	CrossRail 48 End Cap
8	CrossRail 80, Mill, Dark Anodized
9	CrossRail 80 End Cap
10	Mid Clamp UL 2703, SS, Silver Set 30-50mm CR
11	End Clamp UL 2703, SS, Silver Set CR



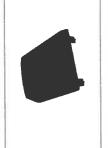
# Mounting systems for solar technology













**EVEREST SOLAR SYSTEMS** 

RESIDENTIAL ROOF SOLUTIONS

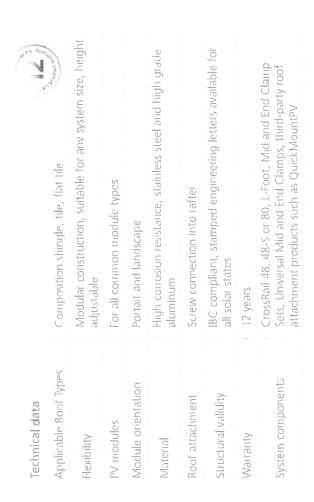
**CROSSRAIL SYSTEM** 

Everest Solar Systems, LLC 3809 Ocean Ranch Bivd., Suite 111 Oceanside, CA 92056 Service-Hotline =1.766.331,5300 info@everest-solar3ystems.com www.everest-solarrystems.com

Product Shaet CrossBadayster | USA | 0216

# CROSSRAIL SYSTEM (L)

- High quality, German engineered system optimized for residential installation
- Everest NI K2 mounting hardware simplifies module installation –
- fast, easy, and secure
- Easily integrates with third party roof attachment products, such as QuickMountPV
- L-foot provides adjustability and compatibility with common roof interfaces (Comp, Tile & Metal)
- No shingle cutting, won't void roof manufacturer's warranty
- 100% code-compliant, structural validation for all solar states
- Three rail sizes available to suit all structural conditions
- All components also available in dark
- Fast installation, minimal component count result in low total installed cost
- Simple to design using code compliant Everest Online Design Tool





CrossRail for Pitched Roofs



CrossRail with EverFlash

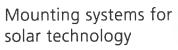






Bonding Mid and End Clamps

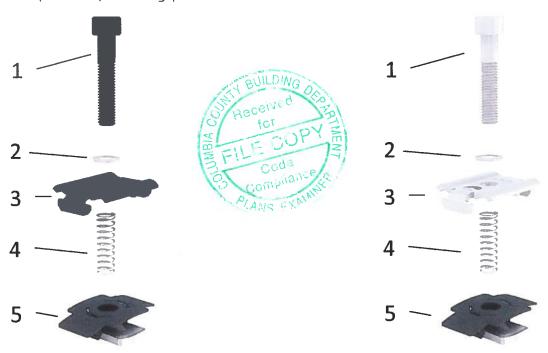
### **Everest Solar Systems**Bonding Mid Clamp Spec Sheet







- ¬ UL 2703 component
- ¬ Fast, simple installation
- ¬ Rugged design complies with most module manufacturer's requirements
- ¬ Secured in place with MK3 for single-hand installation
- ¬ High strength, corrosion resistant stainless steel construction
- ¬ 21 mm (.827 inch) module gap



### **Dark Mid Clamp Sets**

### Mid Clamp UL 2703 Set, Black, 30-- 40mm US00\_4000349

- Allen Bolt, Black 1.
- Lock Washer 2.
- Universal Mid Clamp, Black
- Clamp Spring
- MK3 Slot Nut

### Mid Clamp UL 2703,SS,Black,Set 41-50mm US00\_4000351

- Allen Bolt, Black
- Lock Washer
- Universal Mid Clamp, Black
- Clamp Spring
- MK3 Slot Nut

### Silver Mid Clamp Sets

### US00\_4000347

Mid Clamp UL 2703,SS Set 30-40mm

- 1. Allen Bolt
- Lock Washer
- Universal Mid Clamp
- Clamp Spring
- MK3 Slot Nut

### US00\_4000348

### Mid Clamp UL 2703,SS Set 41-50mm

- Allen Bolt
- Lock Washer
- Universal Mid Clamp
- Clamp Spring
- MK3 Slot Nut





Declaration of Conformity









9001:2008

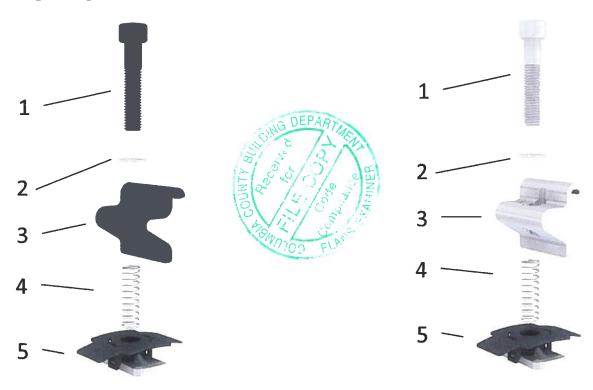


Pass'Innovation TUV Rheinland 2011-128 (fr)

### **Everest Solar Systems**Bonding End Clamp Spec Sheet



- Integrated bonding
- ¬ UL 2703 component
- ¬ Universal design features only two part numbers for all module sizes
- ¬ Fast, simple installation
- ¬ Rugged design complies with a wide variety of module manufacturer's requirements
- ¬ Secured in place with MK3 for single-hand installation
- ¬ High strength, corrosion resistant stainless steel construction



### Dark End Clamp Set

US00\_4000430 End Clamp UL 2703,SS, Black, Set 30-50mm CR

- Allen Bolt, Black 1.
- Lock Washer
- Universal End Clamp, Black
- Clamp Spring
- MK3 Slot Nut

### Silver End Clamp Set

US00\_4000429 End Clamp UL 2703,SS, Set 30- 50mm CR

- Allen Bolt
- Lock Washer
- Universal End Clamp
- Clamp Spring
- MK3 Slot Nut





Declaration of

Conformity



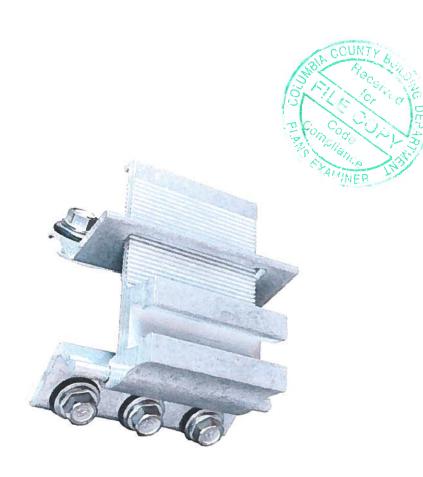




9001;2008



### STEEP-SLOPE APPLICATIONS



# CorruSlide PRODUCT GUIDE

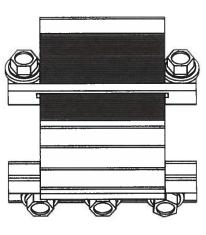
Exploded Product View/B.O.M. - 1

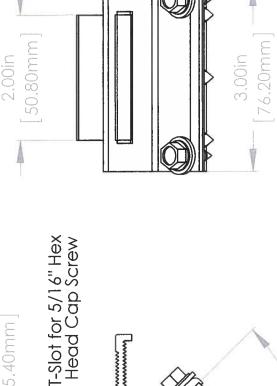
Installation Instructions – 2
Cut Sheet – 3

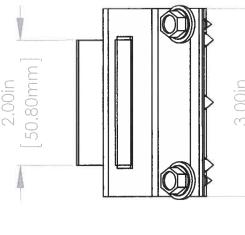
Specifications – 4

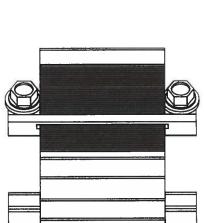
Test Data – 5







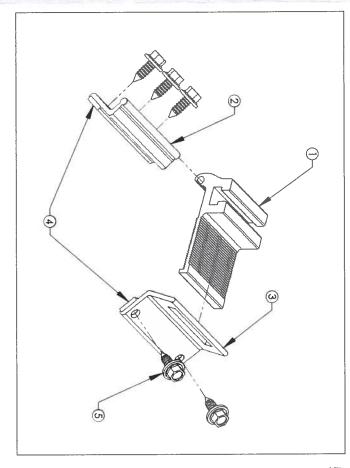






25.40mm 1.00in

Ridge Width/Angles Adjustable to Most



## Materials Needed for Assembly

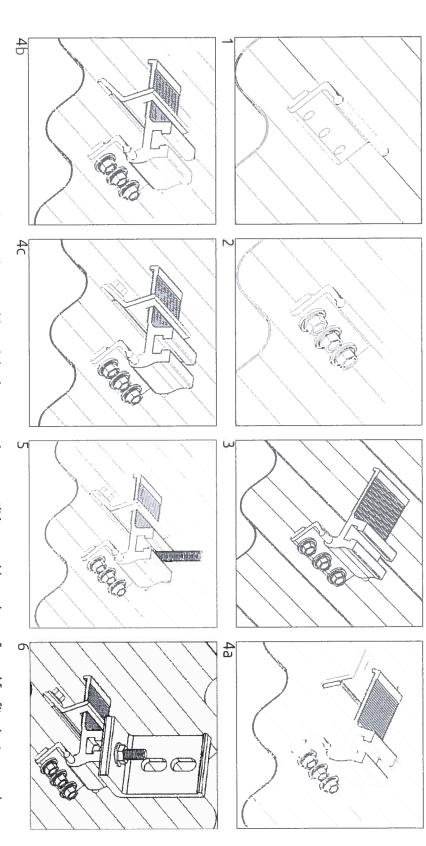


### Required Tools



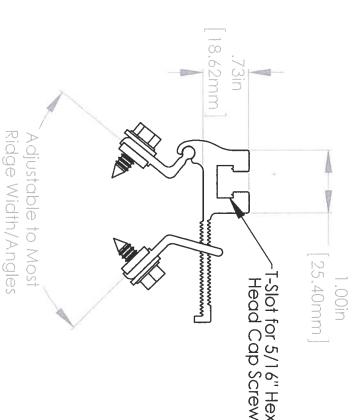


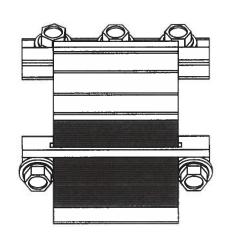


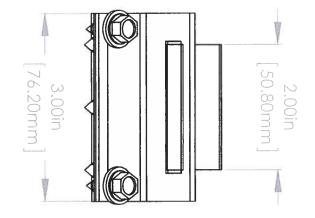


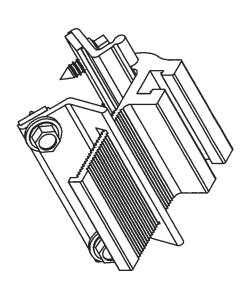
release paper or installing screws. This will provide an indication of approximate fit \* \*Note-It is recommended that the installer assemble and check one complete CorruSlide assembly on the roof panel for fit prior to removing

- Clean roof area that will come in contact with CorruSlide bracket. Remove release paper from tape on the CorruSlide-Flipper (hinged component with three fastener holes)
- Install screws through the CorruSlide-Flipper into the roof panel
- Tilt the CorruSlide-Slide ("T" Slotted component) upward and slide into place over the Corruslide-Flipper that was installed in step 2.
- Slide the CorruSlide-Slot Bracket (this part has a long rectangular hole and two fastener holes) over the serrated leg of the CorruSlide-Slide from step 3.
- It is important to adjust the CorruSlide-Slot Bracket such that the CorruSlide-Slide of step 3 is level and locked in place. Note that depending upon the roof profile it may be necessary to skip a ridge/valley. Remove release paper
- Install Screws in CorruSlide-Slot Bracket component
- 9 6 Slide the 5/16" diameter bolt (provided with each CorruSlide) into the CorruSlide-Slide
- Attach the desired rail attachment bracket (may be provided by other manufacturer)











### PART 1 - GENERAL

### SUMMARY

### WORK INCLUDES

 EcoFasten Solar CorruSlide Bracket that using provided sheet metal fasteners and watertight seal attaches to the corrugated panel ridge

### SYSTEM DESCRIPTION

### COMPONENTS:

CorruSlide Bracket consists of the following

- (1) Slide Bracket
- (1) Slot Bracket Flipper Bracket
- (1) 5/16"-18 Hex Head Fully Threaded Bolt 18.8 (5) #14x3/4" Self Tapping Sheet Metal Screws
- (1) 5/16"-18 Serrated Hex Flange Nut 18.8 SS

### œ **DESIGN REQUIREMENTS:**

 Bracket spacing to be recommended by project engineer.

### SUBMITTAL

- Submit manufacturer's written specifications
- Submit standard product cut sheets.
- Submit installation instructions.

### 1.4 QUALITY ASSURANCE

the area of the project. specified roofing material for no less than 5 years in Installer to be experienced in the installation of

## 1.5 DELIVERY / STORAGE / HANDLING

Keep material dry, covered, and off the ground unti within 24 hours of any missing or defective items. Inspect material upon delivery. Notify manufacturer

### PART 2 - PRODUCTS

### 2.1 MANUFACTURER

www.ecofastensolar.com (877) 859-3947 289 Harrel Street, Morrisville, VT 05661

### MATERIALS

- 6000 Series Aluminum
- 5/16"-18 x 1.5"Fully Threaded Hex Bolt 18.8
- 5/16"-18 Serrated Flange Nut 18.8 SS

90

18.8 SS #14 x 3/4" Self Tapping Sheet Metal Screws –

Mill Finish

- CorruSlide Slide, Flipper, and Slot Bracket -
- FINISH

### PART 3 - EXECUTION

### Substrate: Inspect structure on which brackets **EXAMINATION**

are to be installed and verify that it will

withstand any additional loading that may be

- Notify General Contractor of any deficiencies
- before installing EcoFasten Solar brackets.
- Verify that roofing material has been installed brackets. correctly prior to installing solar attachment

 $\bigcirc$ 

### INSTALLATION

Comply with architectural drawings and written installation instructions for installation location of system. Comply with Manufacturer's project engineer's recommendations for

COMPANY		
EcoFasten Solar	solar	
PART NUMBER	BER	DATE
CorruSlide		7-25-2014
DESCRIPTION	NO	
Uplift on 28	3Ga. Steel with 1/4"-14 X 7,	Uplift on 28Ga. Steel with 1/4"-14 X 7/8" Blazer Flange VRT Screws
PRODUCT MATERIAL	MATERIAL	SUBSTRATE
Assembly		
TEST TYPE		
X UPLIFT	T SHEAR	☐ LEAK TEST ☐ CLAMP TO SEAM
TEST	LOAD (lb)	REASON For FAILURE
٠	928	Bracket Failure
2	741	Bracket Failure
ω	816	Bracket Failure
Average	797	
COMMENT	comments: Images available upon request.	request.
	Internal test data provide	Internal test data provided at the request and direction of Brian Stearns.