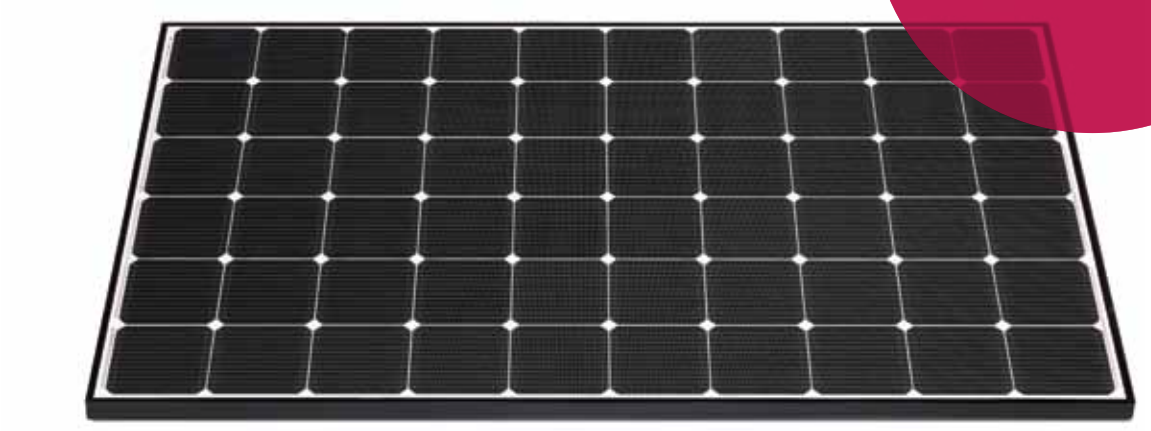
LG
Life's Good

Innovation for a Better Life



LG NeON™ 2 LG330N1C-A5

60 cell

LG's new module, LG NeON™ 2, adopts Cello technology. Cello technology replaces 3 busbars with 12 thin wires to enhance power output and reliability. LG NeON™ 2 demonstrates LG's efforts to increase customer's values beyond efficiency. It features enhanced warranty, durability, performance under real environment, and aesthetic design suitable for roofs.

KM 564573 BS EN 61215 Photovoltaic Modules

Enhanced Performance Warranty

LG NeON™ 2 has an enhanced performance warranty. The annual degradation has fallen from -0.6%/yr to -0.55%/yr. Even after 25 years, the cell guarantees 1.2%p more output than the previous LG NeON™ 2 modules.

High Power Output

Compared with previous models, the LG NeON™ 2 has been designed to significantly enhance its output efficiency, thereby making it efficient even in limited space.

Aesthetic Roof

LG NeON™ 2 has been designed with aesthetics in mind; thinner wires that appear all black at a distance. The product may help increase the value of a property with its modern design.

Outstanding Durability

With its newly reinforced frame design, LG has extended the warranty of the LG NeON™ 2 for an additional 2 years. Additionally, LG NeON™ 2 can endure a front load up to 6000 Pa, and a rear load up to 5400 Pa.

Better Performance on a Sunny Day

LG NeON™ 2 now performs better on sunny days thanks to its improved temperature coefficiency.

Double-Sided Cell Structure

The rear of the cell used in LG NeON™ 2 will contribute to generation, just like the front; the light beam reflected from the rear of the module is reabsorbed to generate a great amount of additional power.

About LG Electronics

LG Electronics is a global player who has been committed to expanding its capacity, based on solar energy business as its future growth engine. We embarked on a solar energy source research program in 1985, supported by LG Group's rich experience in semi-conductor, LCD, chemistry, and materials industry. We successfully released the first Mono X® series to the market in 2010, which were exported to 32 countries in the following 2 years, thereafter. In 2013, LG NeON™ (previously known as Mono X® NeON) won "Intersolar Award", which proved LG is the leader of innovation in the industry.

LG NeON 2

LG330N1C-A5

Mechanical Properties

Cells	6 x 10
Cell Vendor	LG
Cell Type	Monocrystalline / N-type
Cell Dimensions	161.7 x 161.7 mm / 6 inches
# of Busbar	12 (Multi Wire Busbar)
Dimensions (L x W x H)	1686 x 1016 x 40 mm
	66.38 x 40 x 1.57 inch
Front Load	6000Pa
Rear Load	5400Pa
Weight	18 kg
Connector Type	MC4
Junction Box	IP68 with 3 Bypass Diodes
Cables	1000 mm x 2 ea
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminium

Certifications and Warranty

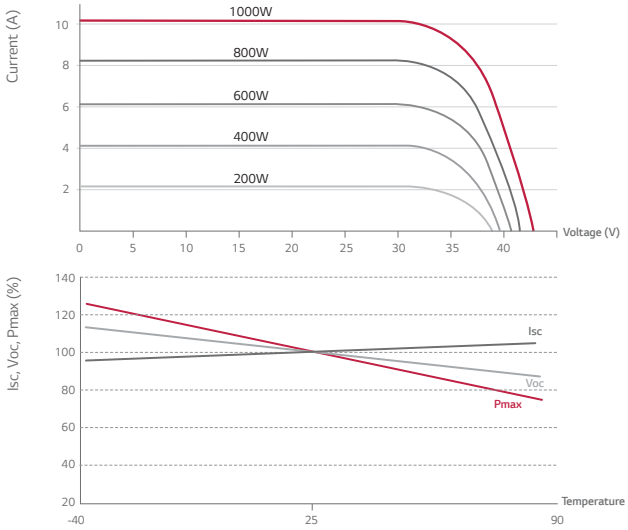
Certifications	IEC 61215, IEC 61730-1/-2
	UL 1703
	IEC 61701 (Salt mist corrosion test)
	IEC 62716 (Ammonia corrosion test)
	ISO 9001
Module Fire Performance (USA)	Type 1
Fire Rating (CANADA)	Class C (ULC / ORD C1703)
Product Warranty	12 years
Output Warranty of Pmax	Linear warranty**

** 1) 1st year : 98%, 2) After 2nd year : 0.55% annual degradation, 3) 25 years : 84.8%

Temperature Characteristics

NOCT	45 ± 3 °C
Pmpp	-0.37%/°C
Voc	-0.27%/°C
Isc	0.03 %/°C

Characteristic Curves



Electrical Properties (STC *)

Module	LG330N1C-A5
Maximum Power (Pmax)	330
MPP Voltage (Vmpp)	33.7
MPP Current (Impp)	9.8
Open Circuit Voltage (Voc)	40.9
Short Circuit Current (Isc)	10.45
Module Efficiency	19.3
Operating Temperature	-40 ~ +90
Maximum System Voltage	1,000
Maximum Series Fuse Rating	20
Power Tolerance (%)	0 ~ +3

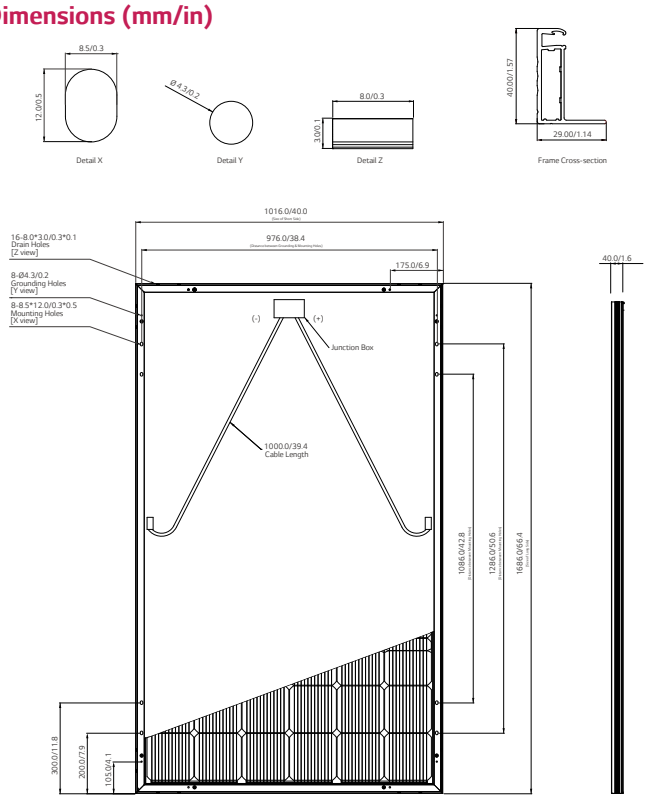
* STC (Standard Test Condition): Irradiance 1,000 W/m², Ambient Temperature 25 °C, AM 1.5
* The nameplate power output is measured and determined by LG Electronics at its sole and absolute discretion.
* The Typical change in module efficiency at 200W/m² in relation to 1000W/m2 is -2.0%.

Electrical Properties (NOCT*)

Module	LG330N1C-A5
Maximum Power (Pmax)	243
MPP Voltage (Vmpp)	31.2
MPP Current (Impp)	7.81
Open Circuit Voltage (Voc)	38.1
Short Circuit Current (Isc)	8.41

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

Dimensions (mm/in)



LG Life's Good

North America Solar Business Team
LG Electronics U.S.A. Inc
1000 Sylvan Ave, Englewood Cliffs, NJ 07632

Contact: lg.solar@lge.com
www.lgsolarusa.com

Product specifications are subject to change without notice.

01/01/2017

Innovation for a Better Life

DESCRIPTION:	DRAWN BY:	SnapNrack™ Solar Mounting Solutions
SNAPNRACK, COMP FLASH TRACK KIT	mwatkins	
PART NUMBER(S):	REVISION:	595 MARKET STREET, 29TH FLOOR • SAN FRANCISCO, CA 94105 USA PHONE (415) 580-6900 • FAX (415) 580-6902
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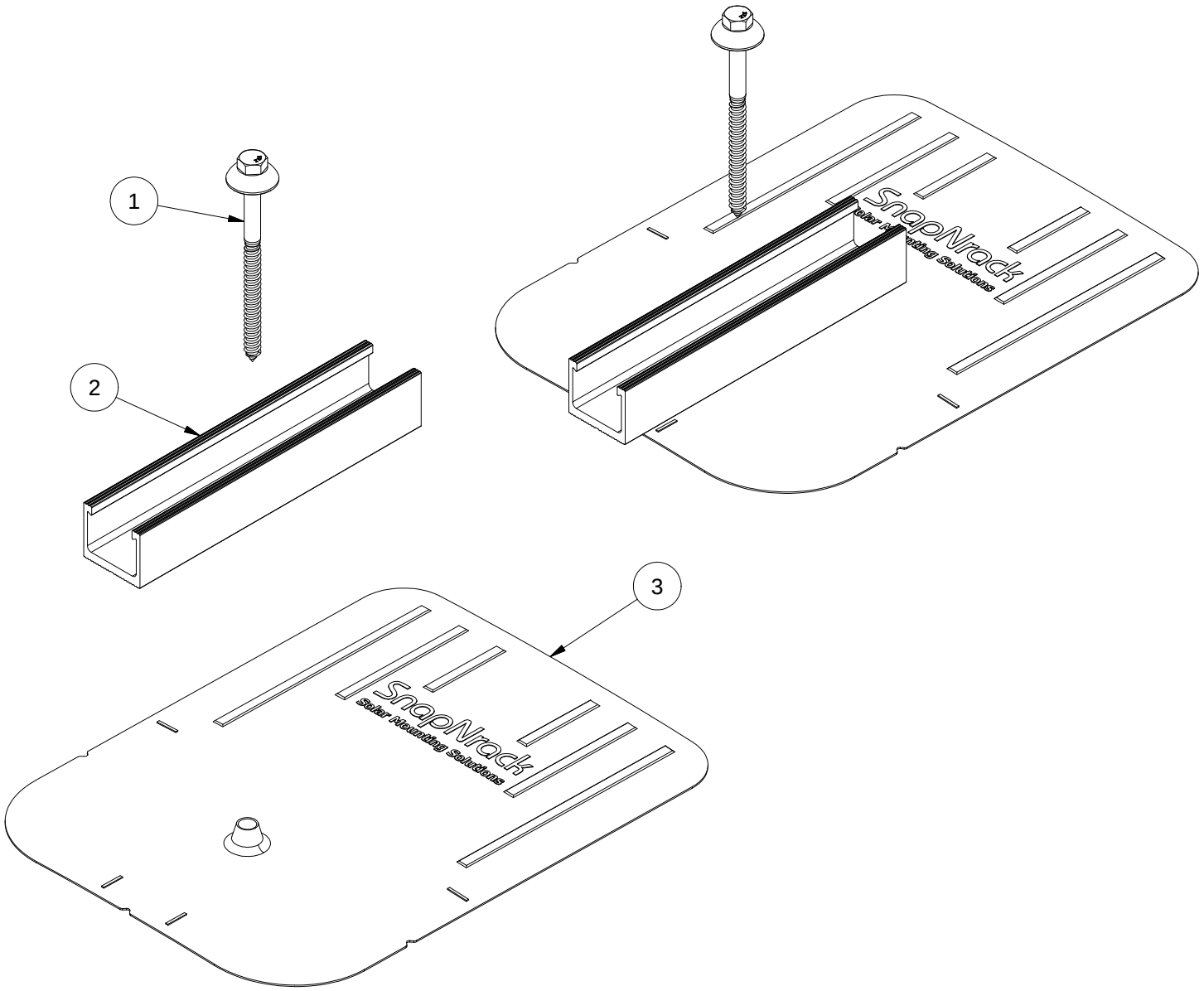

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	242-92266	SNAPNRACK, UMBRELLA LAG, TYPE 3, 4IN, SS
2	1	232-04060	SNAPNRACK, FLASH TRACK PRC, CONE HOLE, 7-1/2IN, BLACK
3	1	232-01375, 232-01376	SNAPNRACK, COMP FLASHING, 9IN X 12IN, SILVER / BLACK ALUM

MATERIALS:	6000 SERIES ALUMINUM, STAINLESS STEEL, RUBBER
DESIGN LOAD (LBS):	306 UP, 372 DOWN, 253 SIDE (LANDSCAPE)
ULTIMATE LOAD (LBS):	N/A
TORQUE SPECIFICATION:	N/A LB-FT
CERTIFICATION:	UL 2703, FILE E359313
WEIGHT (LBS):	0.83 - 1.06

DESCRIPTION:	DRAWN BY:	SnapNrack™ Solar Mounting Solutions
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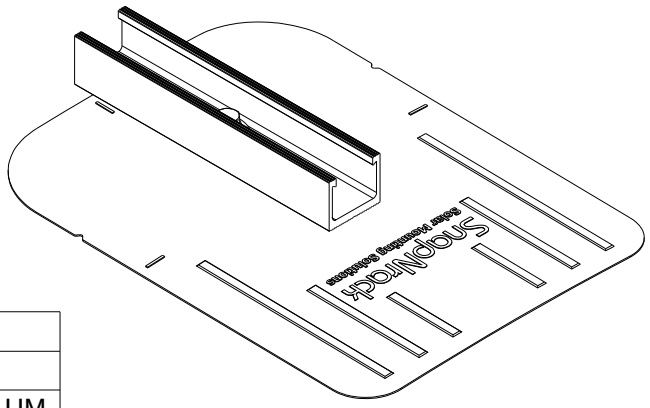
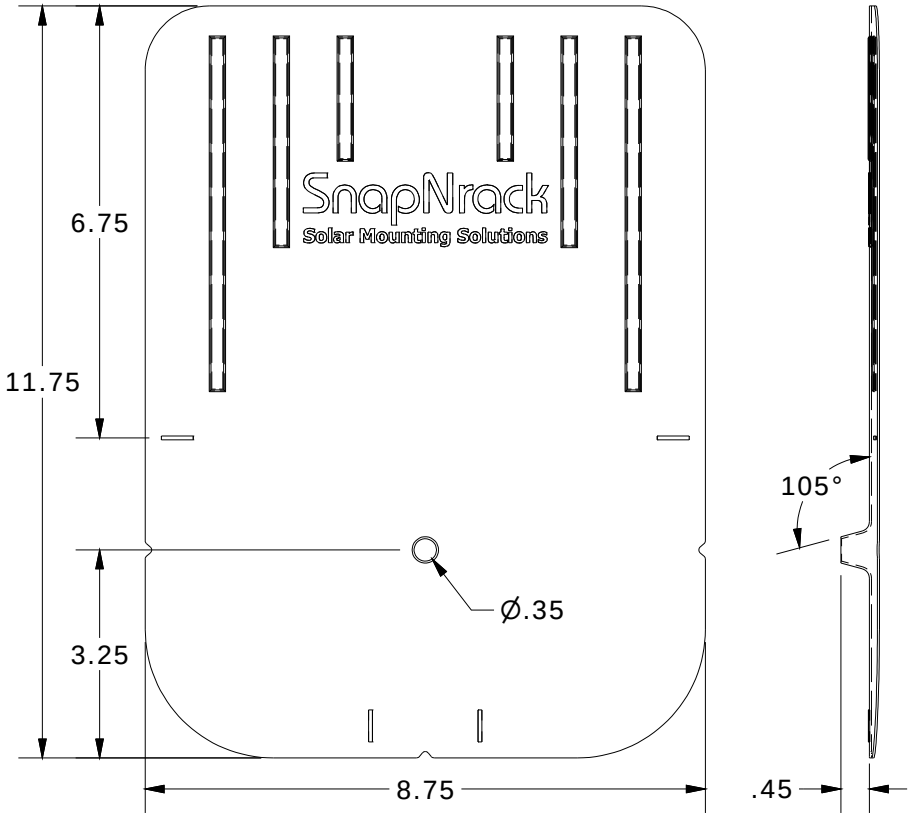
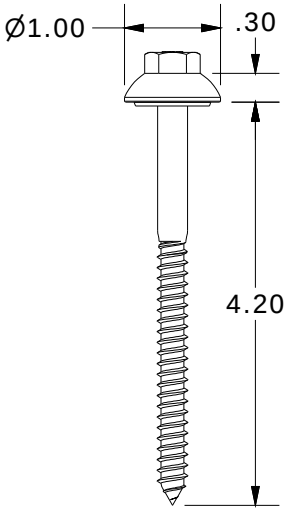
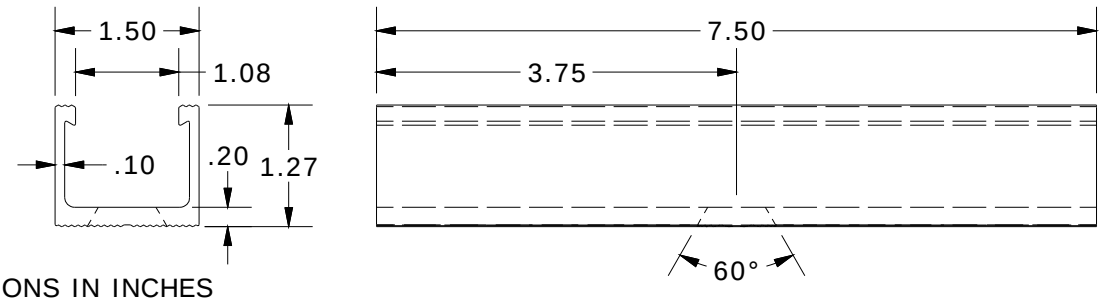


COMP FLASHING PROPERTIES	
SKU	DESCRIPTION
232-01375	COMP FLASHING, 9" X 12", BLACK ALUM
232-01376	COMP FLASHING, 9" X 12", SILVER ALUM



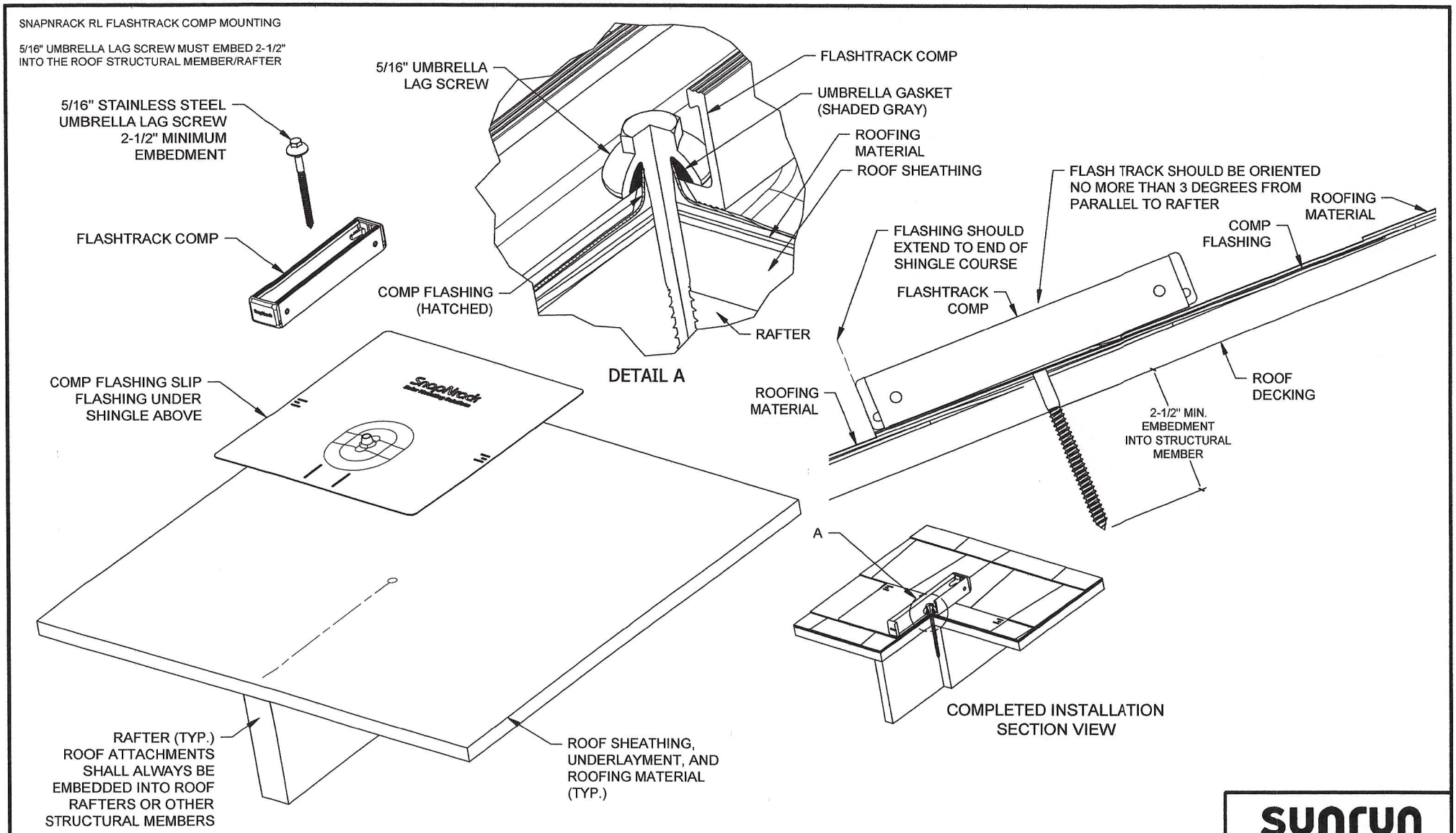




ALL DIMENSIONS IN INCHES

SNAPNRACK RL FLASHTRACK COMP MOUNTING

5/16" UMBRELLA LAG SCREW MUST EMBED 2-1/2" INTO THE ROOF STRUCTURAL MEMBER/RAFTER



PENETRATION DETAIL, FLASHTRACK COMP - RAILESS 1.5

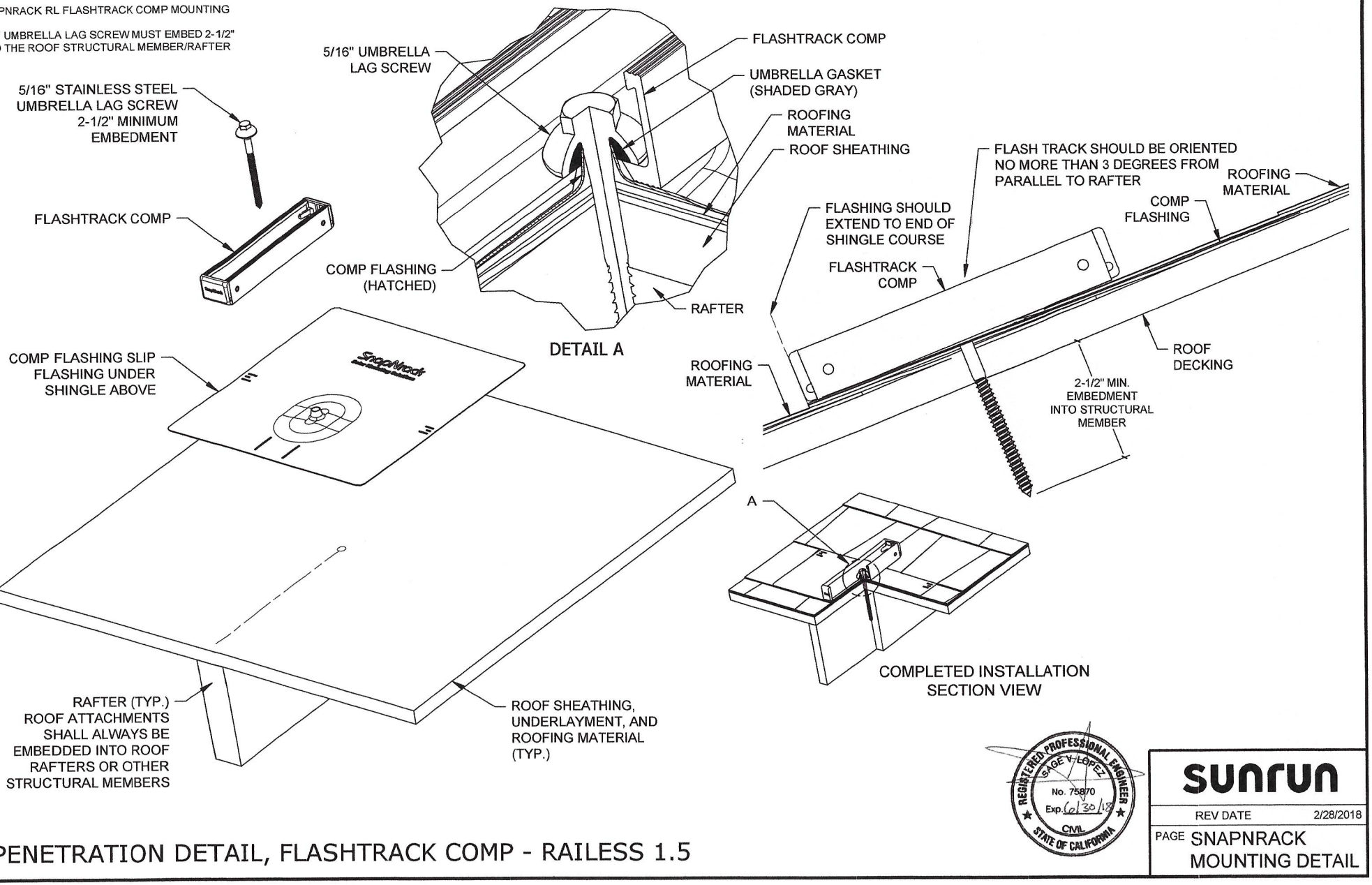
sunrun

REV DATE 2/28/2018

PAGE SNAPNRACK MOUNTING DETAIL

SNAPNRACK RL FLASHTRACK COMP MOUNTING

5/16" UMBRELLA LAG SCREW MUST EMBED 2-1/2" INTO THE ROOF STRUCTURAL MEMBER/RAFTER



REGISTERED PROFESSIONAL ENGINEER
SAGE V. LOPEZ
No. 75870
Exp. 6/30/18
CIVIL
STATE OF CALIFORNIA

PENETRATION DETAIL, FLASHTRACK COMP - RAILESS 1.5

sunrun

REV DATE	2/28/2018
PAGE	SNAPNRACK MOUNTING DETAIL

SNAPNRACK RL SYSTEM DETAILS

TORQUE ALL HARDWARE TO THE FOLLOWING VALUES:
A AND B MOUNT HARDWARE*: 12-14 FT-LBS
*FOR HANWHA, B MOUNT CLAMP BOLT: 16 FT-LBS
C LINK BOLT: 9-10 FT-LBS

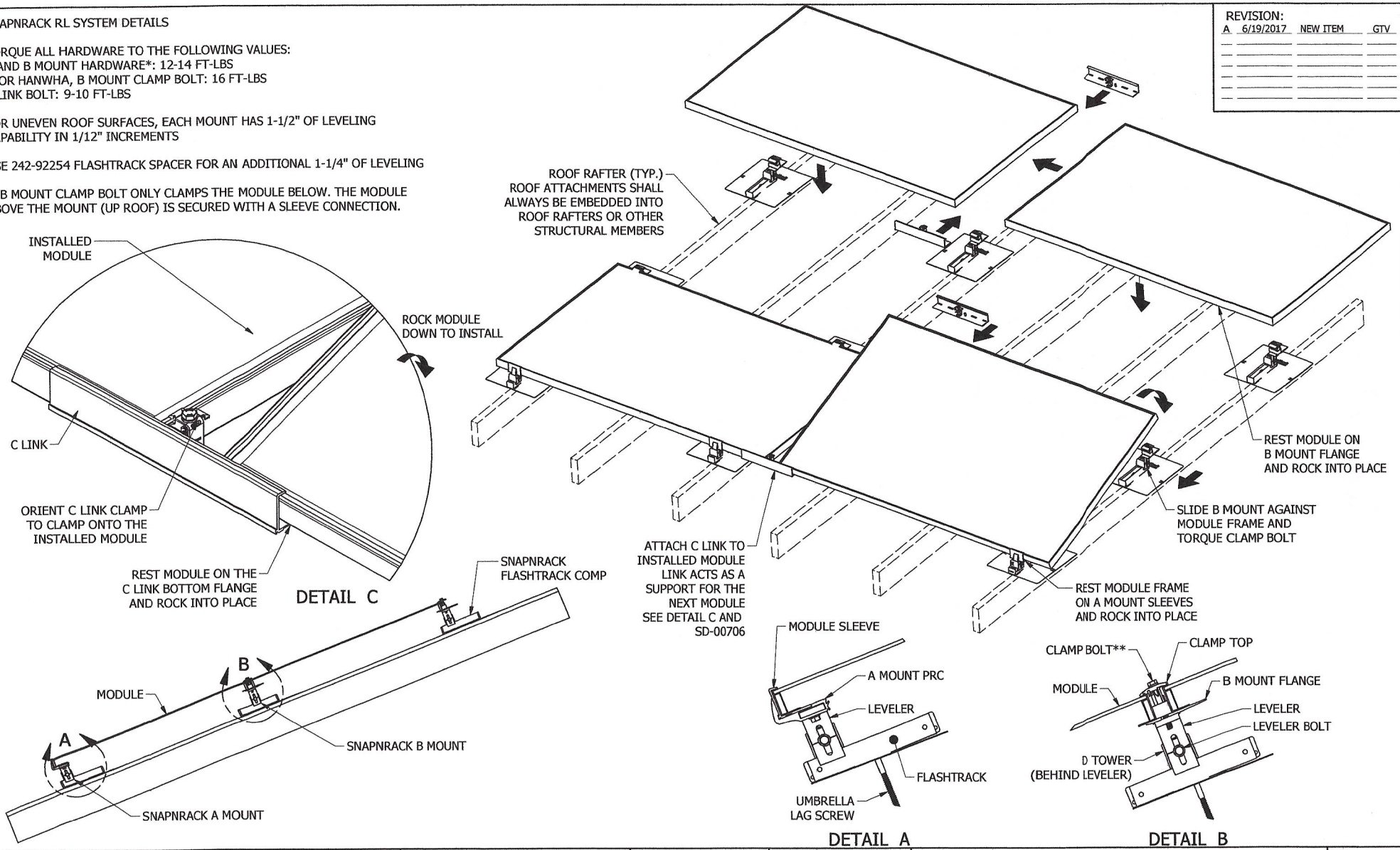
FOR UNEVEN ROOF SURFACES, EACH MOUNT HAS 1-1/2" OF LEVELING CAPABILITY IN 1/12" INCREMENTS

USE 242-92254 FLASHTRACK SPACER FOR AN ADDITIONAL 1-1/4" OF LEVELING

**B MOUNT CLAMP BOLT ONLY CLAMPS THE MODULE BELOW. THE MODULE ABOVE THE MOUNT (UP ROOF) IS SECURED WITH A SLEEVE CONNECTION.

REVISION:

A	6/19/2017	NEW ITEM	GTV



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SNAPNRACK RL C LINK

STRUCTURALLY CONNECTS TWO MODULES TOGETHER IN A ROW

C LINK SLEEVES THE MODULE FRAME

C LINKS MATCH MODULE FRAME HEIGHT

C LINK CLAMP FASTENS THE LINK TO THE MODULE FRAME(S)

THE CLAMP ALIGNS MODULES WITH A 3/4" GAP BETWEEN COLUMNS

BONDING TEETH ON THE CLAMP TOP RESIST MODULE MOVEMENT

DRAIN HOLES ALLOW WATER TO DRAIN FROM THE MODULE FRAME

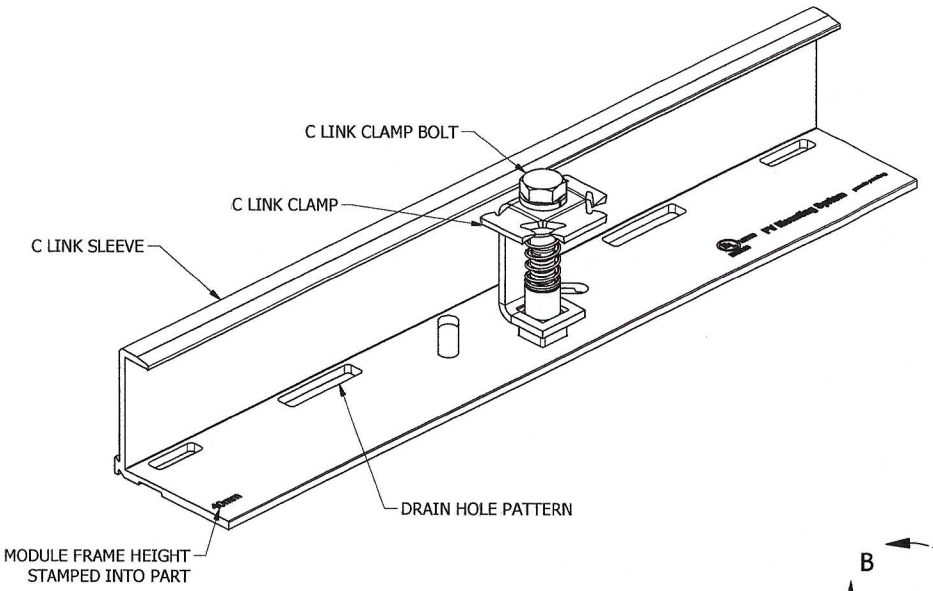
C LINKS CONNECT TWO ADJACENT MODULES TOGETHER IN THE SAME ROW LINKS MUST BE INSTALLED ON BOTH SIDES OF THE MODULE (REFER TO SD-00704) WHEN ADJACENT MODULES ARE IN SAME ORIENTATION

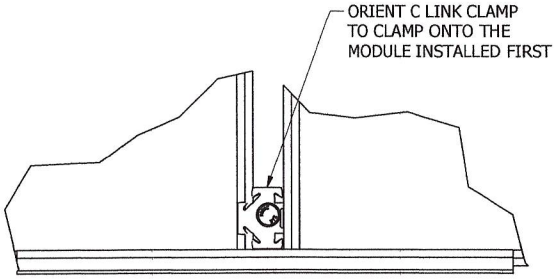
C LINKS SHALL BE TIGHT AGAINST THE MODULE FRAME WHEN INSTALLED PROPERLY

LOOSEN CLAMP BOLT AND PULL CLAMP UP TO CHANGE CLAMP ORIENTATION

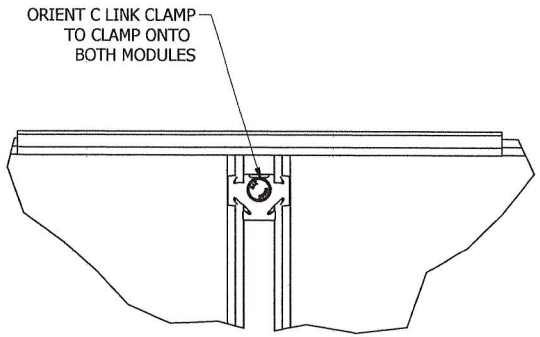
REVISION:

A	6/19/2017	NEW ITEM	GTV

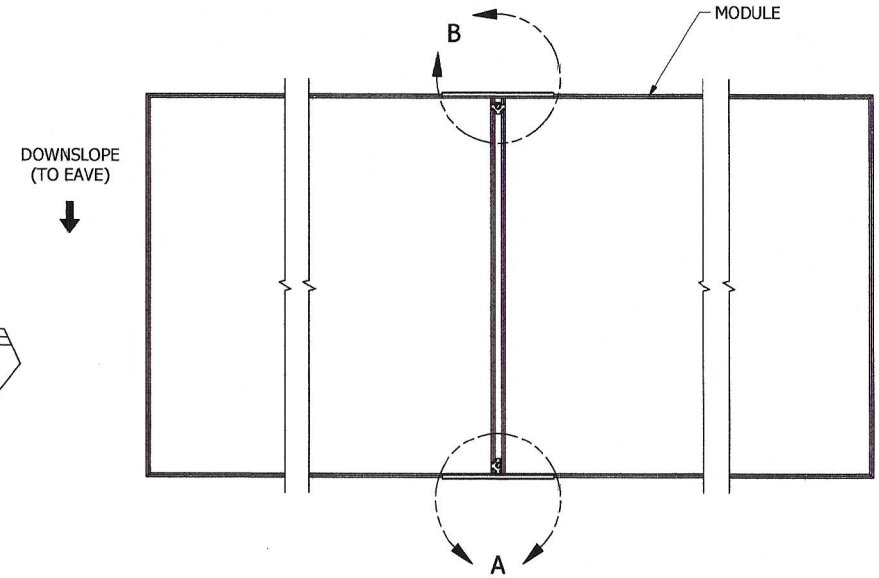




DETAIL A



DETAIL B



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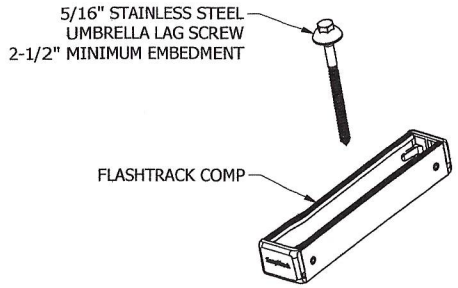
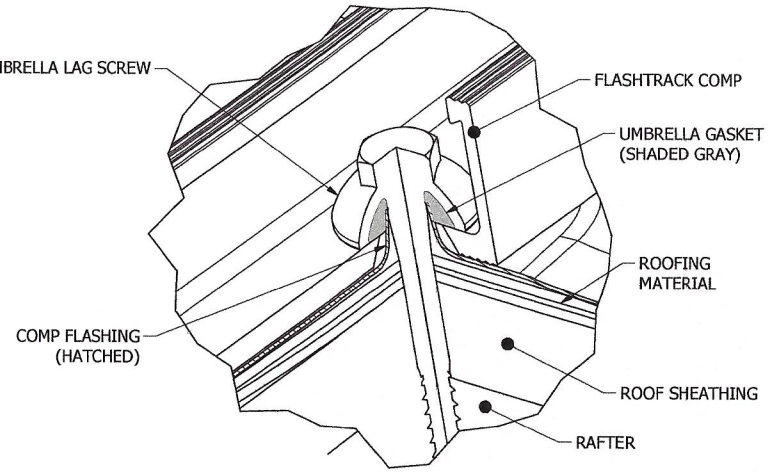
SNAPNRACK RL FLASHTRACK COMP MOUNTING

5/16" UMBRELLA LAG SCREW MUST EMBED 2-1/2" INTO THE ROOF STRUCTURAL MEMBER/RAFTER

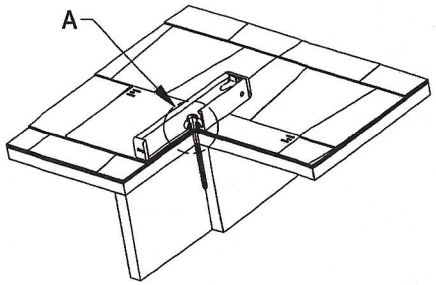
REVISION:

A	6/19/2017	NEW ITEM	GTV

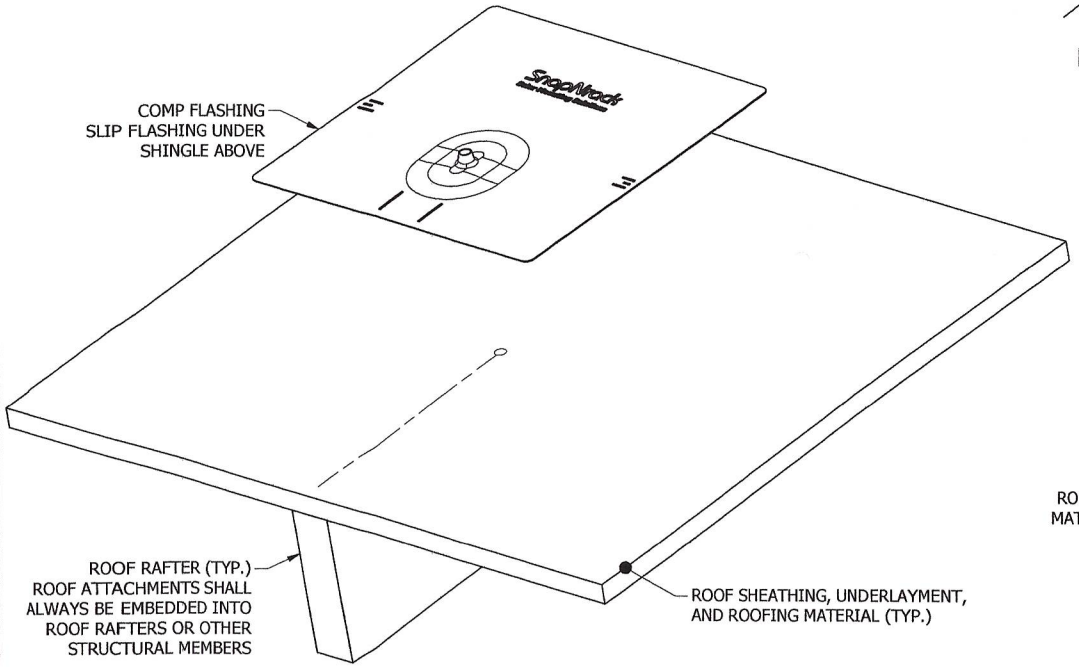


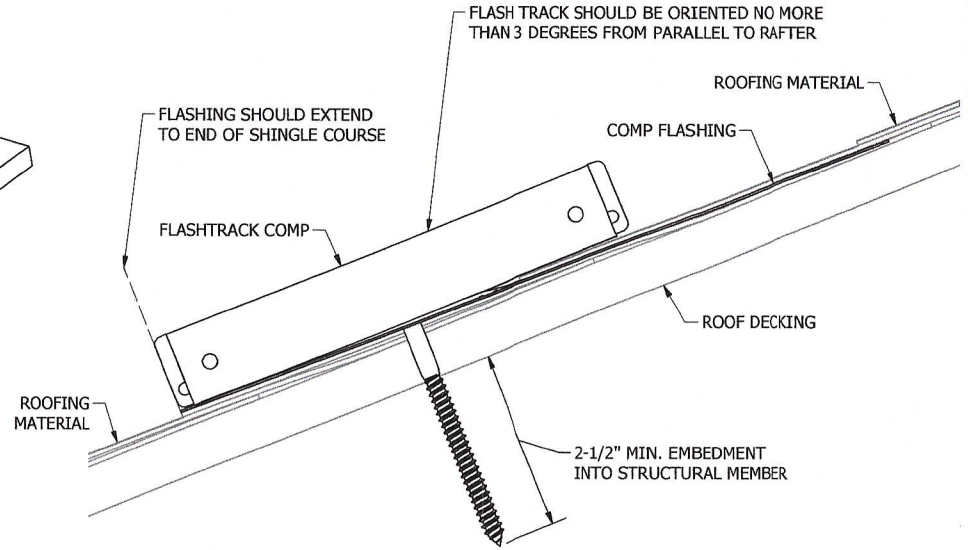


DETAIL A



COMPLETED INSTALLATION
SECTION VIEW





COMPLETED INSTALLATION

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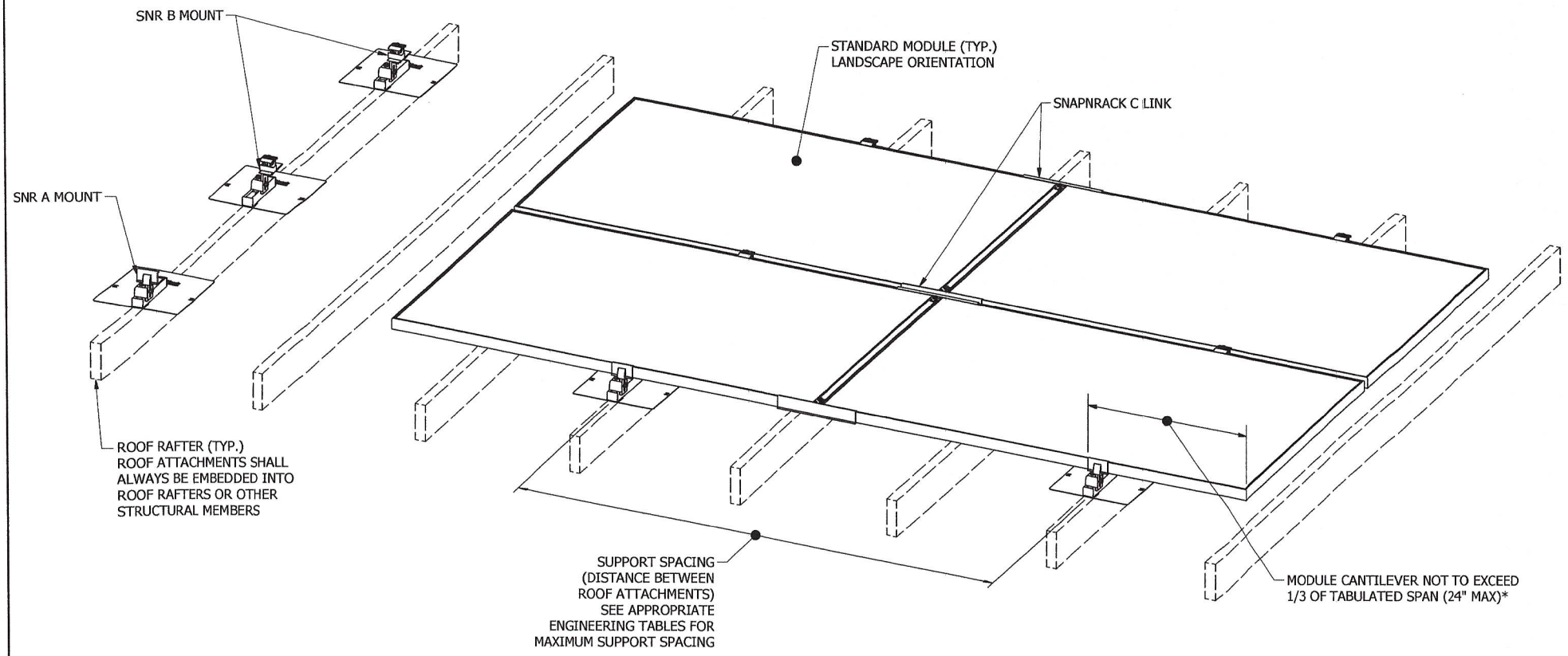
SNAPNRACK RL SOLAR MOUNTING SOLUTION INSTALLED IN LANDSCAPE

*MODULE CANTILEVER IS THE DISTANCE BETWEEN THE MODULE EDGE AND THE CENTERLINE OF THE FLASH TRACK

REVISION:

A	6/19/2017	NEW ITEM	GTV



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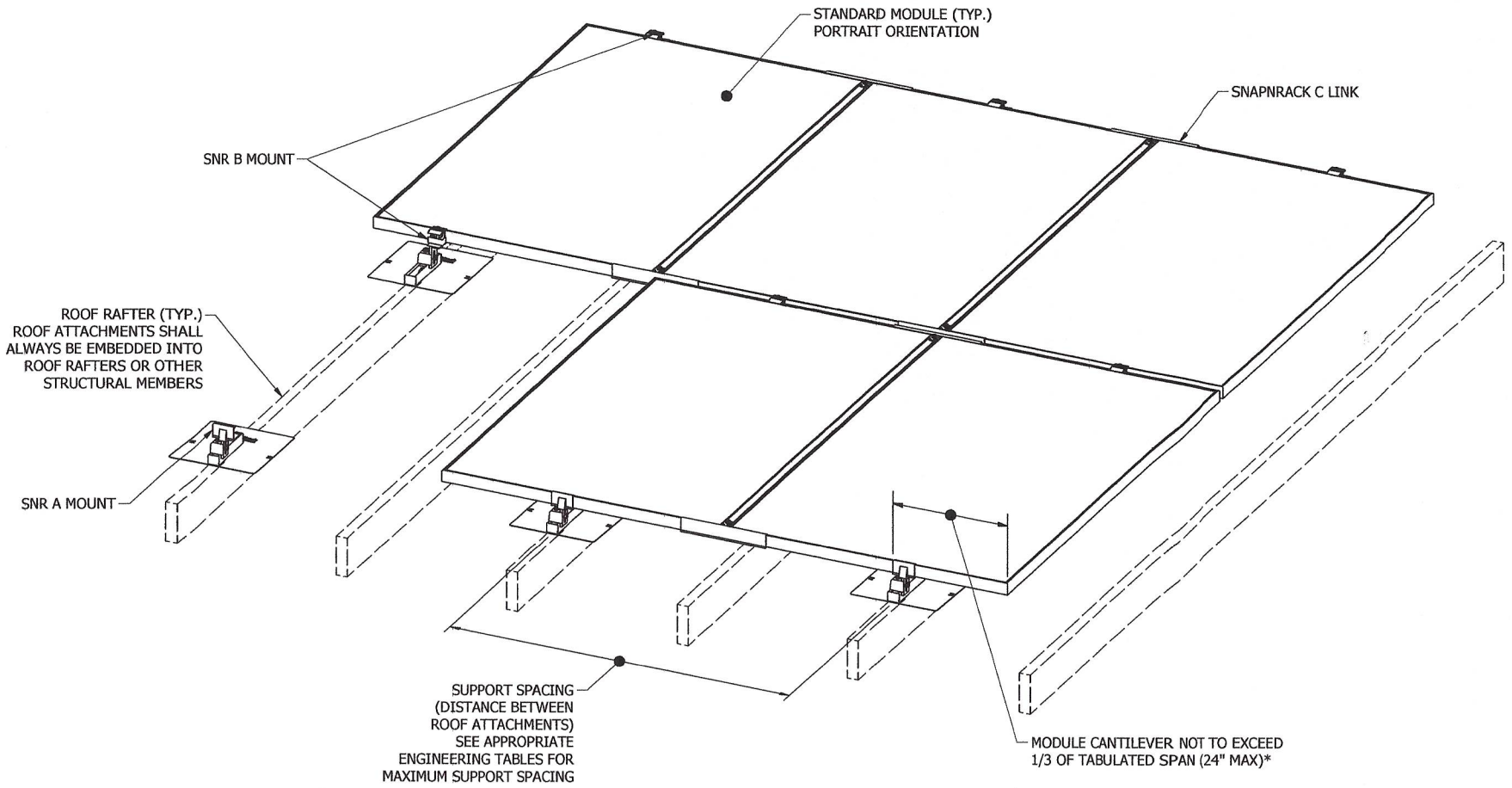
SNAPNRACK RL SOLAR MOUNTING SOLUTION INSTALLED IN PORTRAIT

*MODULE CANTILEVER IS THE DISTANCE BETWEEN THE MODULE EDGE AND THE CENTERLINE OF THE FLASH TRACK

REVISION:

A	6/19/2017	NEW ITEM	GTV



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SNAPNRACK RL SOLAR MOUNTING SOLUTION INSTALLED ON COMPOSITION SHINGLE ROOF

ROOF ATTACHMENT: SNAPNRACK FLASHTRACK COMP

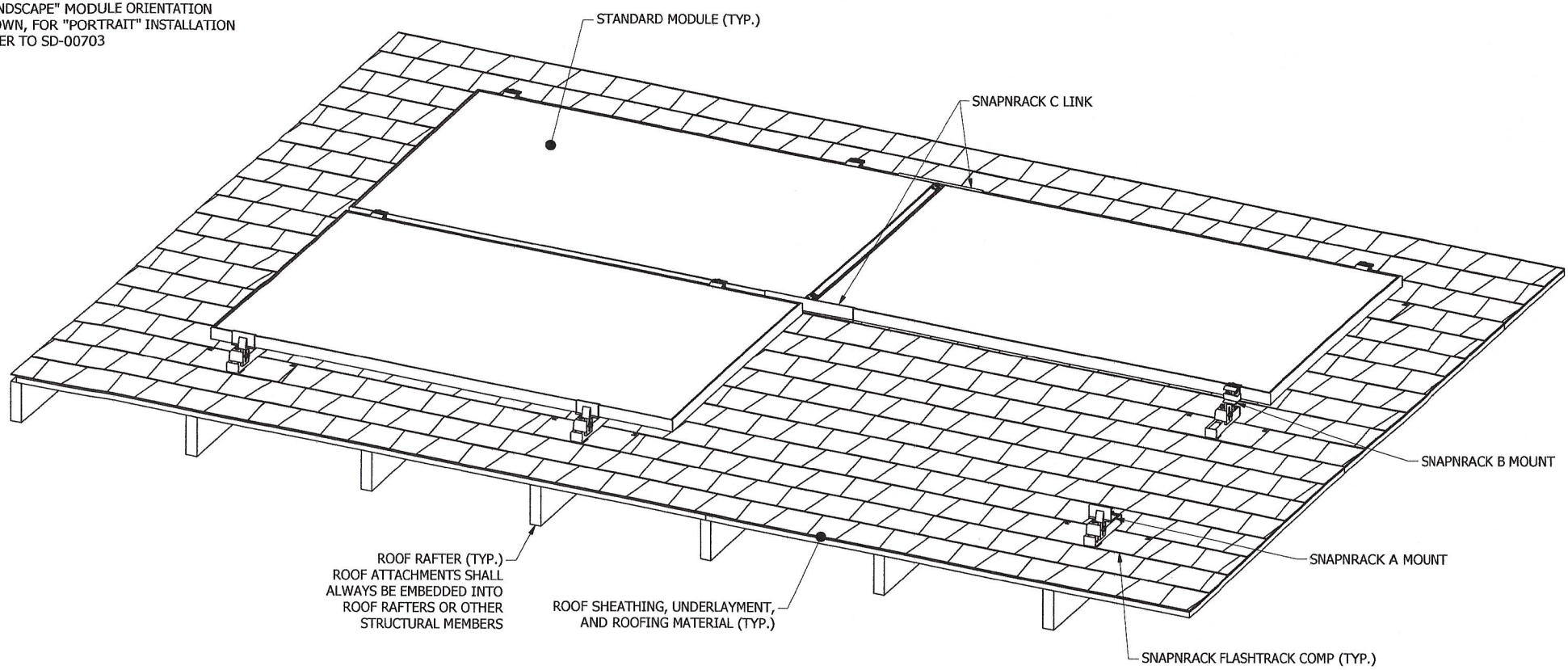
MODULE ATTACHMENT: SNAPNRACK A MOUNTS AND B MOUNTS

SNAPNRACK C LINKS CONNECT MODULE FRAMES TOGETHER TO ACT AS A CONTINUOUS STRUCTURAL ELEMENT

"LANDSCAPE" MODULE ORIENTATION SHOWN, FOR "PORTRAIT" INSTALLATION REFER TO SD-00703

REVISION:

A	6/19/2017	NEW ITEM	GTV



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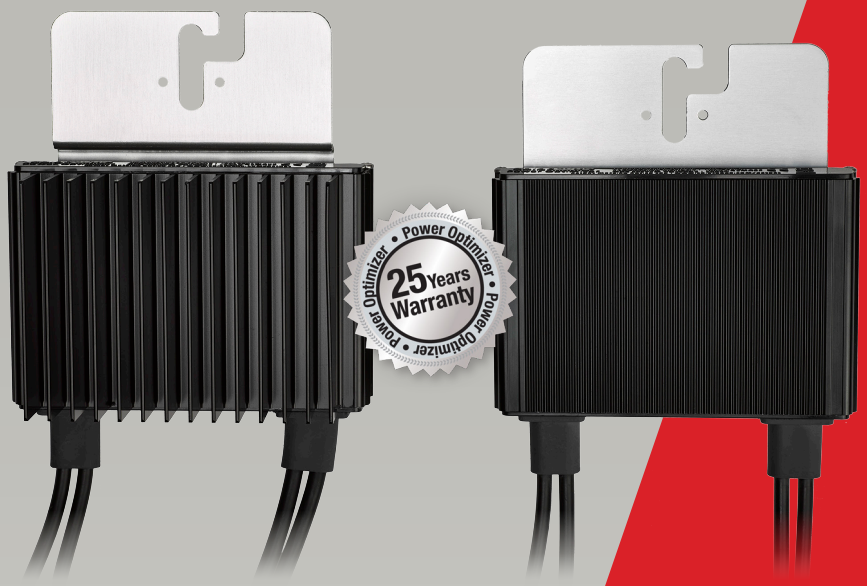
solaredge

Power Optimizer

P320 / P370 / P400 / P405 / P505

POWER OPTIMIZER



PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Compliant with arc fault protection and rapid shutdown NEC requirements (when installed as part of the SolarEdge system)
- Module-level voltage shutdown for installer and firefighter safety

Power Optimizer

P320 / P370 / P400 / P405 / P505

OPTIMIZER MODEL (typical module compatibility)	P320 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P405 (for thin film modules)	P505 (for higher current modules)	
INPUT						
Rated Input DC Power[1]	320	370	400	405	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48	60	80	125	83	Vdc
MPPT Operating Range	8 - 48	8 - 60	8 - 80	12.5 - 105	12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11		10.1		14	Adc
Maximum DC Input Current	13.75		12.63		17.5	Adc
Maximum Efficiency	99.5					%
Weighted Efficiency	98.8				98.6	%
Overvoltage Category	II					
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREDGE INVERTER)						
Maximum Output Current	15					Adc
Maximum Output Voltage	60			85		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OFF)						
Safety Output Voltage per Power Optimizer	1 ± 0.1					Vdc
STANDARD COMPLIANCE						
EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3					
Safety	IEC62109-1 (class II safety), UL1741					
RoHS	Yes					
INSTALLATION SPECIFICATIONS						
Maximum Allowed System Voltage	1000					Vdc
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters					
Dimensions (W x L x H)	128 x 152 x 28 / 5 x 5.97 x 1.1		128 x 152 x 36 / 5 x 5.97 x 1.42	128 x 152 x 50 / 5 x 5.97 x 1.96	128 x 152 x 59 / 5 x 5.97 x 2.32	mm / in
Weight (including cables)	630 / 1.4		750 / 1.7	845 / 1.9	1064 / 2.3	gr / lb
Input Connector	MC4[2]					
Output Wire Type / Connector	Double Insulated; MC4					
Output Wire Length	0.95 / 3.0	1.2 / 3.9				m / ft
Operating Temperature Range	-40 - +85 / -40 - +185					˚C / ˚F
Protection Rating	IP68 / NEMA6P					
Relative Humidity	0 - 100					%

[1] Rated STC power of the module. Module of up to +5% power tolerance allowed.

[2] For other connector types please contact SolarEdge

PV SYSTEM DESIGN USING A SOLAREDGE INVERTER[3][4]		SINGLE PHASE HD-WAVE	SINGLE PHASE	THREE PHASE 208V	THREE PHASE 480V	
Minimum String Length (Power Optimizers)	P320, P370, P400	8		10	18	
	P405 / P505	6		8	14	
Maximum String Length (Power Optimizers)		25		25	50[5]	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400-US)	5250	6000	12750	W
Parallel Strings of Different Lengths or Orientations		Yes				

[3] For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf.

[4] It is not allowed to mix P405/P505 with P320/P370/P400/P600/P700/P800 in one string.

[5] A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

INVERTERS

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
- High reliability without any electrolytic capacitors
- Built-in module-level monitoring
- Outdoor and indoor installation
- Optional: Revenue grade data, ANSI C12.20 Class 0.5 (0.5% accuracy)

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	VA
Max. AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400	VA
AC Output Voltage Min.-Nom.-Max. (183 - 208 - 229)	-	✓	-	✓	-	-	-	Vac
AC Output Voltage Min.-Nom.-Max. (211 - 240 - 264)	✓	✓	✓	✓	✓	✓	✓	Vac
AC Frequency (Nominal)	59.3 - 60 - 60.5[1]							Hz
Maximum Continuous Output Current 208V	-	16	-	24	-	-	-	A
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	A
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	-	-	-	
Transformer-less, Ungrounded	Yes							
Maximum Input Voltage	480							Vdc
Nominal DC Input Voltage	380				400			Vdc
Maximum Input Current 208V	-	9	-	13.5	-	-	-	
Maximum Input Current @240V	8.5	10.5	13.5	16.5	20	27	30.5	Adc
Max. Input Short Circuit Current	45							Adc
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
Maximum Inverter Efficiency	99	99.2						%
CEC Weighted Efficiency	99							%
Nighttime Power Consumption	< 2.5							W
ADDITIONAL FEATURES								
Supported Communication Interfaces	RS485, Ethernet, ZigBee (optional), Cellular (optional)							
Revenue Grade Data, ANSI C12.20	Optional[2]							
Rapid Shutdown - NEC 2014 and 2017 690.12	Automatic Rapid Shutdown upon AC Grid Disconnect							
STANDARD COMPLIANCE								
Safety	UL1741, UL1741 SA, UL1699B, CSA C22.2, Canadian AFCI according to T.I.L. M-07							
Grid Connection Standards	IEEE1547, Rule 21, Rule 14 (HI)							
Emissions	FCC Part 15 Class B							
INSTALLATION SPECIFICATIONS								
AC Output Conduit Size / AWG Range	3/4" minimum / 14-6 AWG					3/4" minimum /14-4 AWG		
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		
Dimensions with Safety Switch (HxWxD)	17.7 x 14.6 x 6.8 / 450 x 370 x 174					21.3 x 14.6 x 7.3 / 540 x 370 x 185		in / mm
Weight with Safety Switch	22 / 10		25.1 / 11.4	26.2 / 11.9		38.8 / 17.6		lb / kg
Noise	< 25				<50			dBA
Cooling	Natural Convection				Natural convection			
Operating Temperature Range	-13 to +140 / -25 to +60[3] (-40˚F / -40˚C option)[4]							˚F / ˚C
Protection Rating	NEMA 3R (Inverter with Safety Switch)							

[1] For other regional settings please contact SolarEdge support
[2] Revenue grade inverter P/N: SExxxxH-US000NNC2
[3] For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf
[4] -40 version P/N: SExxxxH-US000NNU4

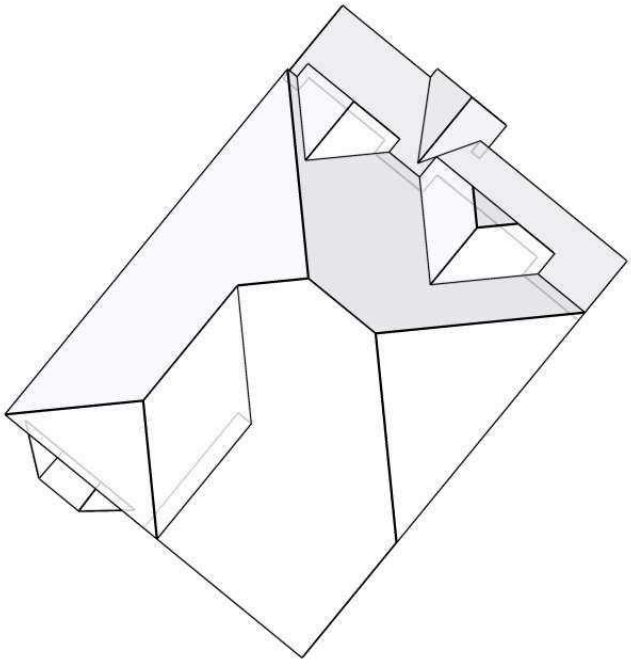
RoHS

Sunrun Installation Services, Inc.
2309 South Mount Prospect Road
Des Plaines, IL 60018

Location: 11353 Longwood Circle, Orland Park, IL 60467

PV Panel Area	2,823 sq ft
Roof Total Area	590 sq ft
PV Panel Percentage of Roof	20.9%

11353 Longwood Cir, Orland Park, IL 60467



In this 3D model, facets appear as semi-transparent to reveal overhangs.

Report Details

Report: 23717282
Claim: 711R-353HALP

Roof Details

Total Area =2,823 sq ft
Total Roof Facets =17
Predominant Pitch =7/12
Number of Stories >1
Total Ridges/Hips =183 ft
Total Valleys =79 ft
Total Rakes =78 ft
Total Eaves =223 ft
Total Penetrations =15
Total Penetrations Perimeter = 84 ft
Total Penetrations Area = 37 sq ft

Report Contents

Contact: Sunrun BulkAccount
Company: Sunrun

Address: 595 Market St
San Francisco CA 94105
Phone: 855-478-6786

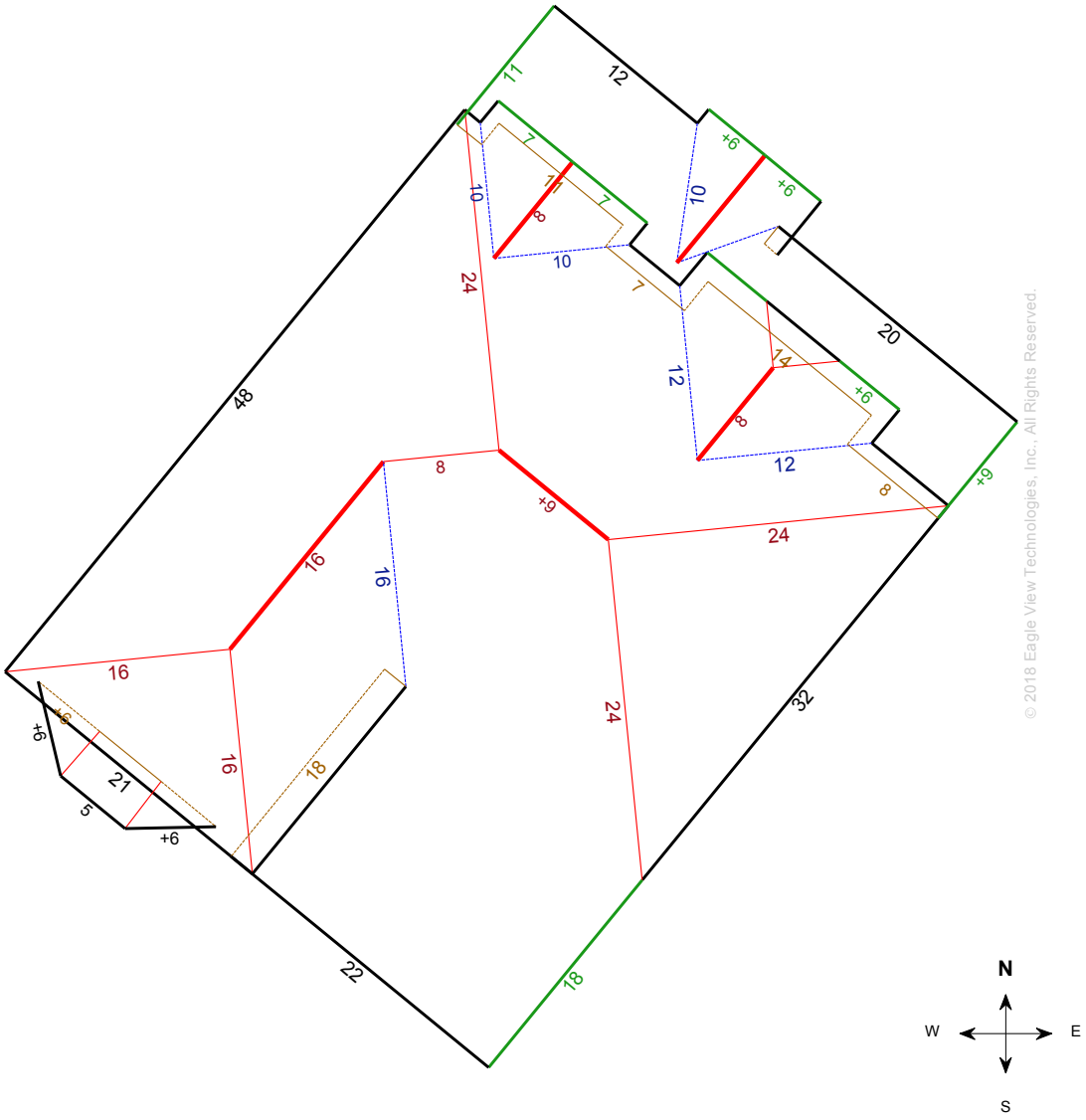
Measurements provided by www.eagleview.com

EAGLEVIEW

Certified Accurate
www.eagleview.com/Guarantee.aspx

Length Diagram

Total Line Lengths:
Ridges = 51 ft
Hips = 132 ft
Valleys = 79 ft
Rakes = 78 ft
Eaves = 223 ft
Flashing = 50 ft
Step flashing = 41 ft
Parapets = 0 ft



Note: This diagram contains segment lengths (rounded to the nearest whole number) over 5 feet. In some cases, segment labels have been removed for readability. Plus signs preface some numbers to avoid confusion when rotated (e.g. +6 and +9).