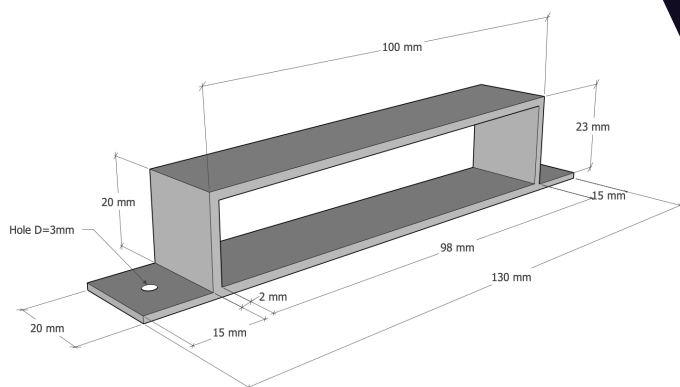
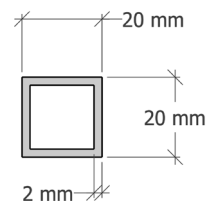




PS DARK 400

Compact Installation Manual



MODEL: SLATE PS-DARK-400

Maximum Power (P _{max})	400 W	Tolerance (%): ±5
Open-Circuit Voltage (V _{oc})	37.15 V	Tolerance (%): ±5
Short-Circuit Currents (I _{sc})	13.55 A	Tolerance (%): ±5
Voltage at Max. Power (V _{mpp})	31.00 V	
Current at Max. Power (I _{mpp})	12.92 A	
Max. System Voltage	1500 V	
Max. Series Fuse	25 A	
System Fire Class Rating (UL 790)	CLASS A	
Wind Rating (UL 1897)	45 PSF*	
Impact Rating (UL 2218)	CLASS 4	
Mechanical Load Rating (UL 7103)	30 PSF**	

*Design Load 45 PSF with 2 Safety Factor
**Design Load 30 PSF with 1.5 Safety Factor
All electrical data shown under Standard Test Conditions (STC) (1,000 W/m², AM 1.5, 25°C). Conforms to UL STD(s) 61730-1, 61730-2, & 7103.

CAUTION, RISK OF ELECTRIC SHOCK



Intertek
5031056



Fire Type: A. See Installation Instructions for Installation Requirements to Achieve a Specified System Fire Class Rating with this Product Maximum series overcurrent protective device, where required.

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Clearfield UT, 84016. info@solarislate.com



+1 (206) 355-1331
info@solarislate.com

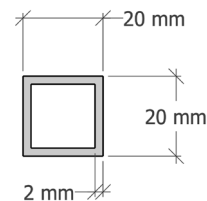


1317 Edgewater Drive
Suite 6130, Orlando, FL



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IMPORTANT: FAILURE TO FOLLOW SOLARISLATE INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT PRODUCT PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT SOLARISLATE PRODUCT INSTRUCTIONS BY VISITING SOLARISLATE.COM OR CALLING +1 (206) 355-1331.

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INTRODUCTION

This compact installation manual provides a general overview of the installation process. It is not a substitute for the full installation manual. For proper installation, safety compliance, and warranty validity, reading and following the full installation manual is mandatory.

The Solarislate® roofing components undergo rigorous testing to meet roofing-specific standards, including evaluations for fire, wind, and impact resistance. For a comprehensive list of certifications, please refer to the product labeling.

SYSTEM LIMITS

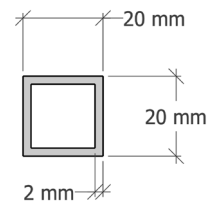
Min. Operating Temperature	-40° C / F
Max Operating Temperature	+90° C / +194° F
Max. Installation Altitude	2000 m / 6561 ft
Max. System Voltage	1500 V
Max. Series Fuse	25 A
Min. Roof Pitch	9.46 deg / 2:12
Tested Wind Load	4309.2 Pa / 90 psf
Design Wind Load	2154.6 Pa / 45 psf
Wind Speed Rating	~213 km/h / ~132 mph
Tested Snow Load	2154.6 Pa / 45 psf
Design Snow Load	1436.4 Pa / 30 psf





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TOOLBOX

1.1 GENERAL EQUIPMENT

- Standard roofing tool kit
- Standard PV installation kit

1.2 SOLARISLATE® INSTALLATION KIT

- Solarislate® SLATE PS-DARK-400 module
- Solarislate® Mounting Profile
- Solarislate® Passive honeycomb panel
- Flashings
- Fasteners
- Grounding device/cable
- Solar Connectors (MC4)
- Solar Cable

ROOF PREPARATION

2.1 INSPECT AND REPAIR DAMAGES

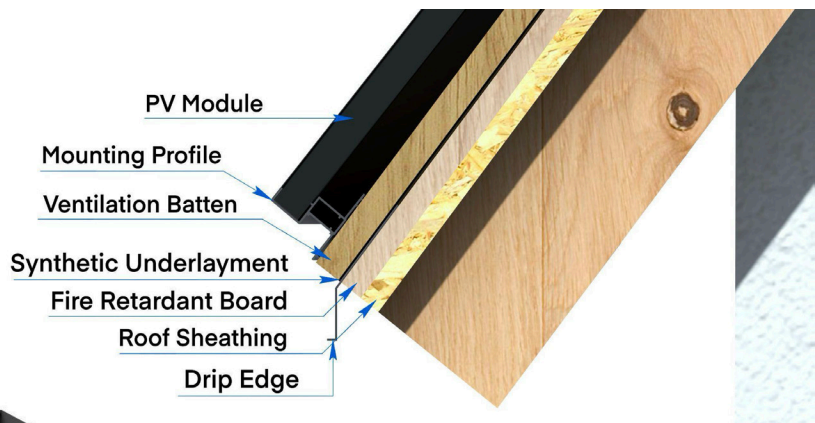
2.2 INSTALL FIRE RETARDANT BOARD AND SYNTHETIC UNDERLAYMENT

2.3 CHECK DIMENSIONS

2.4 LOCATE THE CENTER OF THE ROOF

2.5 MARK THE POSITION FOR THE SYSTEM

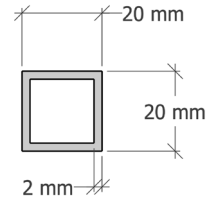
2.6 INSTALL VENTILLATION BATTENS





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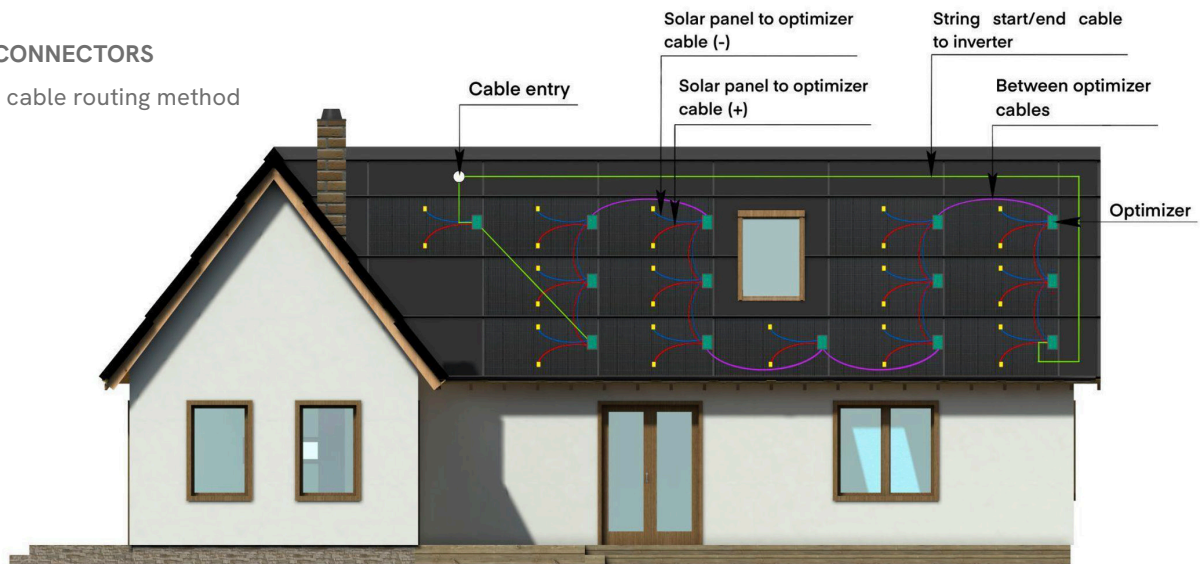
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INSTALLATION

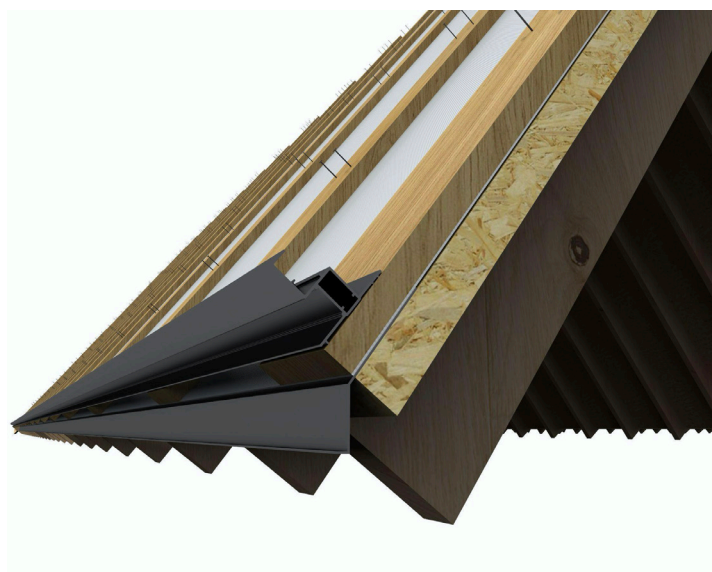
3.1 CABLES & CONNECTORS

Recommended cable routing method



3.2 INSTALL MICROINVERTERS OR OPTIMIZERS

3.3 INSTALL STARTING PROFILE



3.4 FIRST COLUMN INSTALLATION

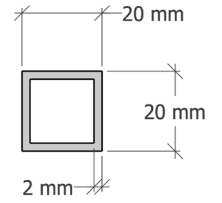
Ensure that all rows are positioned at a **90 degree** angle





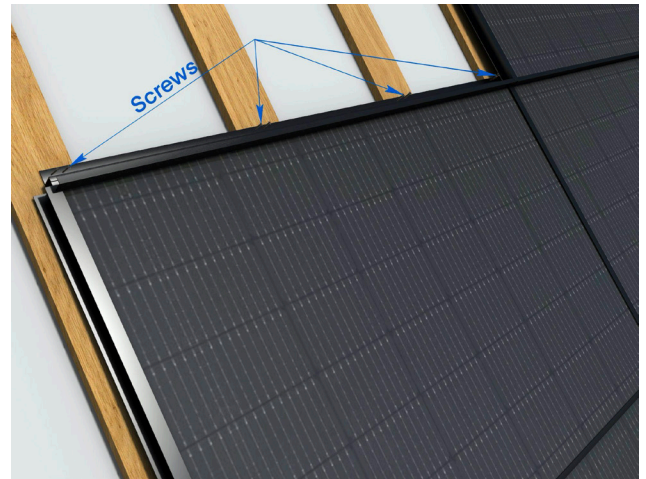
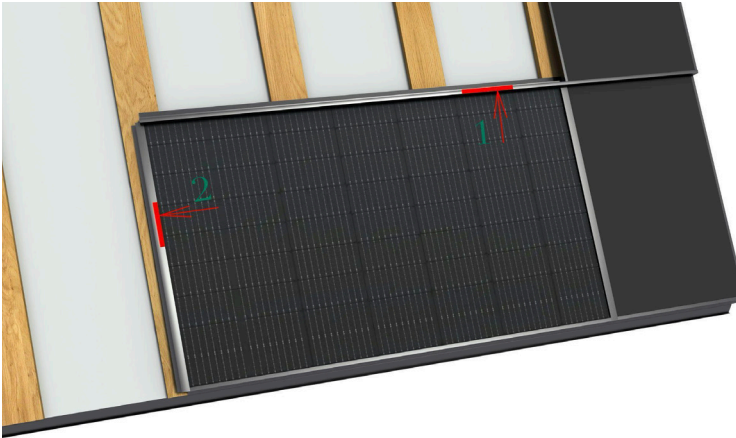
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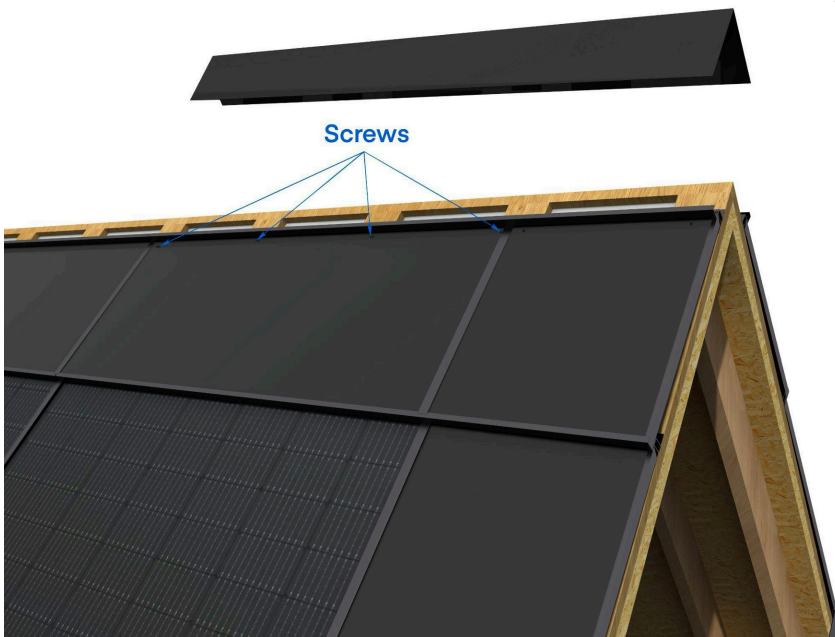


INSTALLATION (CONTINUED)

3.5 SOLARISLATE® MODULE



Attach the newly installed Solarislate® module



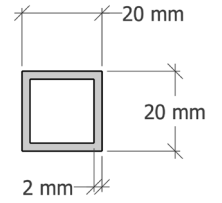
Install Passive panel at top of column with fasteners and add ridge flashing to finish the column installation





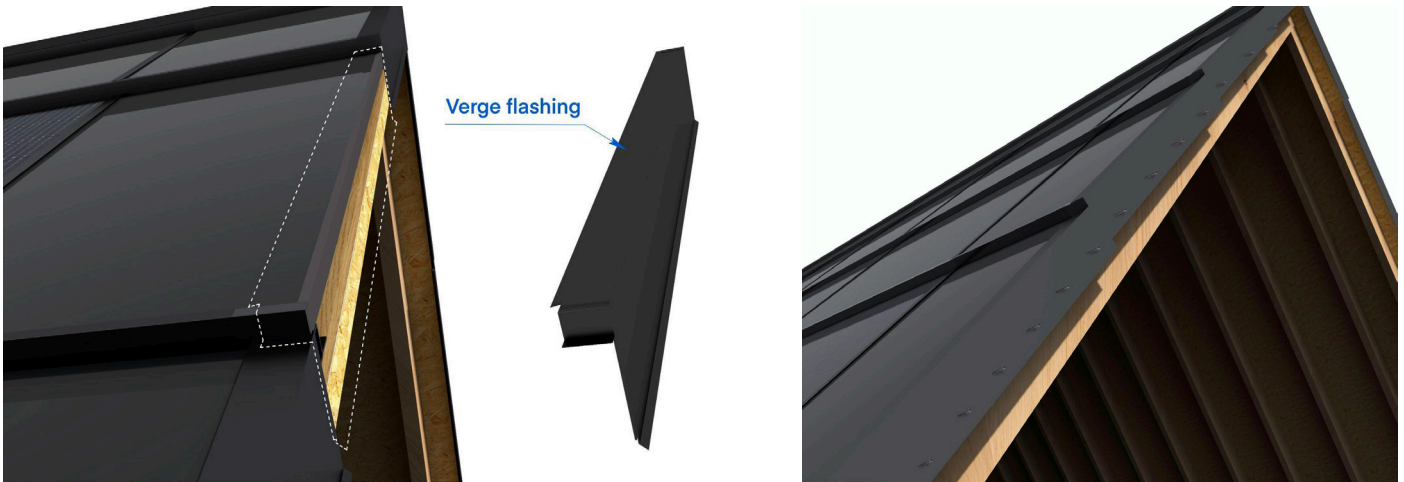
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INSTALLATION (CONTINUED)

3.6 FLASHINGS



Install the verge flashing as shown



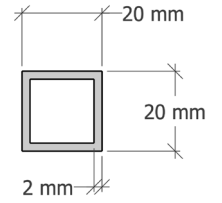
Install the Eave flashing as shown





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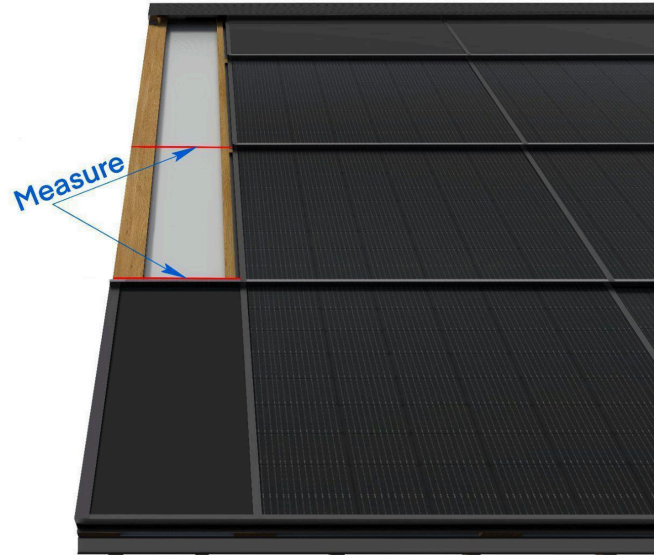
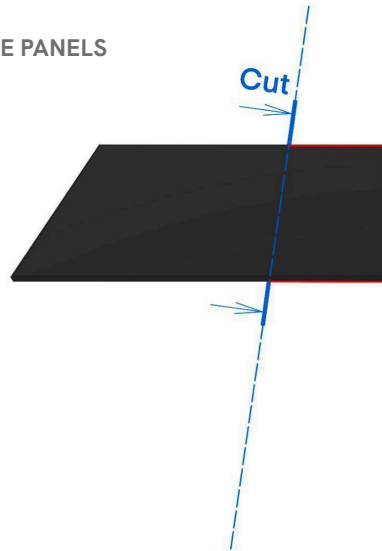
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INSTALLATION (CONTINUED)

3.7 FINISH ROOF WITH PASSIVE PANELS

Passive panels can be cut with a circular saw



Skylight or Hatch will be cut inside the passive module



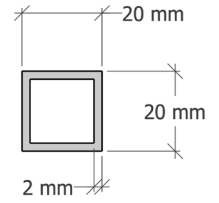
Completed roof with active & passive panels and flashing





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Compact Installation Manual



MAINTENANCE

4.1 MAINTAINING SOLARISLATE®

MODULES

- Regular Cleaning
- Inspect for Damage
- Trim Vegetation
- Check for Leaks
- Monitor Performance
- Schedule Professional Inspections
- **Contact Support if Necessary**



INSTALLATION COMPLETE

