**Solatube® Smart LED Lighting System Installation Instructions**

**Primary Unit**

For Secondary Unit, see back of this page.

<table>
<thead>
<tr>
<th>Parts List*</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dome with Raybender® 3000 Technology (1)</td>
</tr>
<tr>
<td>1a</td>
<td>a. Shock Inner Dome† (1)</td>
</tr>
<tr>
<td>2</td>
<td>Roof Flashing (pitched or no pitch) (1)</td>
</tr>
<tr>
<td>3</td>
<td>Top Tube Assembly including: Dome Ring, Dome Ring Seal, Spectralight® Infinity Top Tube with Angle Adapter. (1)</td>
</tr>
<tr>
<td>4</td>
<td>Spectralight® Infinity 16 in (400 mm) Extension Tube (not included in some kits, see label on box) (2)</td>
</tr>
<tr>
<td>5</td>
<td>Primary Luminaire Assembly including: Spectralight® Infinity Bottom Tube with Angle Adapter, Amplifier, Light Sensor, LEDs (4) (1)</td>
</tr>
<tr>
<td>6</td>
<td>Effect Lens (1)</td>
</tr>
<tr>
<td>7</td>
<td>Diffuser (1)</td>
</tr>
<tr>
<td>8</td>
<td>Seal and Fasteners</td>
</tr>
<tr>
<td>8a</td>
<td>a. Dome Ring Screws - #8 X 1 in (25 mm) (5)</td>
</tr>
<tr>
<td>8b</td>
<td>b. LightTracker™ Reflector (1)</td>
</tr>
<tr>
<td>8c</td>
<td>c. Flashing Screws - #10 X 2 in (51 mm) (8)</td>
</tr>
<tr>
<td>8d</td>
<td>d. Roof Sealant (1)</td>
</tr>
<tr>
<td>8e</td>
<td>e. Expansion Joint Seal (1)</td>
</tr>
<tr>
<td>8f</td>
<td>f. Tube Screws - #8 X 9/16 in (14 mm) (10)</td>
</tr>
<tr>
<td>8g</td>
<td>g. Foil Tape - 2 in (51 mm) x 18 ft (5.5 m) roll (1)</td>
</tr>
<tr>
<td>8h</td>
<td>h. Drywall Screws - #6 X 1 5/8 in (40 mm) (4)</td>
</tr>
<tr>
<td>9</td>
<td>a. Junction Box Assembly including DC Driver (1)</td>
</tr>
<tr>
<td>9a</td>
<td>b. 1/2&quot; NMC Connector (1)</td>
</tr>
<tr>
<td>9b</td>
<td>c. Junction Box Screws—1.5 in (38 mm) (4)</td>
</tr>
<tr>
<td>9c</td>
<td>d. Wire Connecting Nut (yellow) (2)</td>
</tr>
</tbody>
</table>

**Required Tools:**

- Keyhole Saw
- Lumber Crayon
- Saber or Reciprocating Saw
- Magnetic Compass
- Hammer
- Voltage Tester
- Flat Bar
- Wire Strippers
- Utility Knife
- Lineman’s Pliers
- Tape Measure
- Long Nose Pliers
- Caulking Gun
- Screw Driver Phillips & Flat Head
- Screw Gun with Phillips Head
- Required Safety Equipment

*Components shown not included in all kits, see label on box.

*High Velocity Hurricane Zones: Shock Inner Dome must be installed with dome. To meet HVHZ requirements, use a six inch no pitch flashing or a pitched flashing with a four inch turret extension.

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Solatube® Smart LED Lighting System
Installation Instructions

Secondary Unit

<table>
<thead>
<tr>
<th>Parts List*</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dome with Raybender® 3000 Technology</td>
<td>(1)</td>
</tr>
<tr>
<td>a. Shock Inner Dome†</td>
<td></td>
</tr>
<tr>
<td>2 Roof Flashing (pitched or no pitch)</td>
<td>(1)</td>
</tr>
<tr>
<td>3 Top Tube Assembly including: Dome Ring, Dome Ring Seal, Spectralight® Infinity Top Tube with Angle Adapter.</td>
<td>(1)</td>
</tr>
<tr>
<td>4 Spectralight® Infinity 16 in (400 mm) Extension Tube (not included in some kits, see label on box)</td>
<td>(2)</td>
</tr>
<tr>
<td>5 Secondary Luminaire Assembly including: Spectralight® Infinity Bottom Tube with Angle Adapter, Amplifier, LEDs (4), Secondary Unit Connector Wire</td>
<td>(1)</td>
</tr>
<tr>
<td>6 Effect Lens</td>
<td>(1)</td>
</tr>
<tr>
<td>7 Diffuser</td>
<td>(1)</td>
</tr>
<tr>
<td>Seal and Fasteners</td>
<td></td>
</tr>
<tr>
<td>a. Dome Ring Screws - #8 X 1 in (25 mm)</td>
<td>(5)</td>
</tr>
<tr>
<td>b. LightTracker™ Reflector</td>
<td>(1)</td>
</tr>
<tr>
<td>c. Flashing Screws - #10 X 2 in (51 mm)</td>
<td>(8)</td>
</tr>
<tr>
<td>d. Roof Sealant</td>
<td>(1)</td>
</tr>
<tr>
<td>e. Expansion Joint Seal</td>
<td>(1)</td>
</tr>
<tr>
<td>f. Tube Screws - #8 X 9/16 in (14 mm)</td>
<td>(10)</td>
</tr>
<tr>
<td>g. Foil Tape - 2 in (51 mm) X 18 ft (5.5 m) roll</td>
<td>(1)</td>
</tr>
<tr>
<td>h. Drywall Screws - #6 X 1 5/8 in (40 mm)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

*Components shown not included in all kits, see label on box.
*High Velocity Hurricane Zones: Shock Inner Dome must be installed with dome. To meet HVHZ requirements, use a six inch no pitch flashing or a pitched flashing with a four inch turret extension.
WARNING

Do not proceed with the installation until you have read the entire instructions, including these warnings. (Use of materials or methods not authorized by Solatube International will result in an invalid warranty.)

Solatube International, Inc. (seller) assumes no responsibility or obligation whatsoever for the failure of an architect, contractor, installer, or building owner to comply with all applicable laws, ordinances, building codes, electrical codes, energy codes, fire and safety codes and requirements, roof warranties and adequate safety precautions. Installation of this product should be attempted only by individuals skilled in the use of the tools and equipment necessary for installation. Protect yourself and all persons and property during installation. If you have any doubt concerning your competence or expertise, consult a qualified expert before proceeding.

Install at your own risk!

Solatube product installations may be dangerous and include the potential for death, personal injury and property damage. The hazardous conditions include but are not limited to the following:

- During installation, the Solatube Daylighting System’s reflective tubes may focus sunlight, causing intense heat or fire. Remove protective film only after the parts have been installed. Prior to and during installation, do not leave tubes in contact with combustible materials or unattended, especially near direct sunlight. Avoid skin burns.
- Solatube Daylighting System and Solar Star products may have sharp edges. Always wear leather or canvas gloves while handling and installing products.
- Solatube product installations require climbing and working at dangerous heights, including on ladders, scaffolding, roofs and in attic spaces. Risk of death, personal injury and property damage may result from a fall, or from falling objects. Use extreme caution to minimize risk of accidental injury, including, but not limited to the following procedures:
  - Clear area below your work space of all people, animals and other items.
  - Avoid working on surfaces that are slippery or wet.
  - Use foot-wear with excellent traction.
  - Use only strong, well supported ladders.
  - Work only in calm dry weather.
  - When in the attic, ensure that your weight is supported at all times with structurally sound framing; drywall material is not designed to carry a person’s weight.
- To reduce the risk of fire, electric shock, and personal injury, basic safety precautions should always be followed when using electric tools, including always wearing safety goggles or other suitable eye protection, and ensuring work area is clear of all electrical wires, gas pipes, water pipes, and other obstacles.
- When working in the attic or other dusty areas, use of a mask or respirator is recommended to avoid lung irritation. Attic spaces may be dark, confined, and subject to extreme temperatures. Beware of sharp protruding objects. Do not attempt installation without having someone within range of your voice or close enough to come to your aid if necessary.
- Solatube products are not designed to withstand the weight of a person, tools or other objects. Walking or placing objects on Solatube products.
- Additional support is recommended for long vertical and all horizontal tube runs. Review local building requirements and consult with appropriate building code official for proper material and placement of additional support. Avoid galvanic reaction (corrosion) if dissimilar metals are used.

Electrical Components

- Before installing, servicing, or cleaning unit, switch power off at service panel and lock service panel to prevent power from becoming switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device such as a tag to the service panel.

Re-Roofing

- Solatube products require special care if removed for re-roofing. In order to ensure proper removal and re-installation, please contact your Solatube International representative.

Please refer to the installation tips for the appropriate product below:

Daylighting Systems Installation Tips

These instructions are a step-by-step guide for the installation of a Solatube Daylighting System in the following conditions. For other roof types, please contact your Solatube International representative for additional information.

Built Up Flat Roof - Single Ply/Membrane - Asphalt Shingle - Low/No Pitched - Pitched - Prefabricated Curbs - Metal Roof Panels

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Daylighting Systems Installation Tips (Continued)

- Allow at least 2-3 hours for the installation, particularly if this is your first installation.
- During the day, turn off all the lights in the room to see how much natural light comes in through the windows, and determine the best position for the Solatube Daylighting System. To light a specific area, place the system over the area, not in the center of the room. This will prevent the desired area from being shaded by tall objects in the room.
- Measure the distance between the roof and the ceiling. If you don’t have enough tubing, contact your Solatube International representative for additional tubing.
- Avoid roof locations shaded by trees, ridges and chimneys, or near water channels or valleys. Also avoid roof areas with obstructions such as fire sprinklers, HVAC equipment, gas, water or drain pipes, air ducts or flues and make sure that the roof is adequate to endure an installation without damaging its waterproofing properties or weakening the building structure.
- All adhesives, seals and tapes are recommended to be applied to a clean and dry surface at a minimum of 70°F (21°C) for maximum performance.
- Foil tape contains a pressure sensitive adhesive and pressure must be applied at all seams for proper bonding. Foil tape is not intended for use as structural support of the extension tubes. For structural integrity use manufacturer supplied fasteners on all overlapping extension tube joints.

Daylight Dimmer Installation Tips

- Install Solatube Daylight Dimmer only on a properly aligned Solatube Daylighting System.
- Use only UL recognized components approved for this listing.

Smart LED Installation Tips

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Suitable for Operation in Ambient Temperature not Exceeding</th>
<th>Input Voltage</th>
<th>Frequency</th>
<th>Max. Current</th>
<th>Output Voltage</th>
<th>Max. Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Only (Part No. 500000)</td>
<td>50°C</td>
<td>100-240 V</td>
<td>50-60 Hz</td>
<td>0.27 A</td>
<td>26 Vdc</td>
<td>17 W</td>
</tr>
<tr>
<td>Primary (Part No. 500000) with Secondary (Part No. 500005)</td>
<td>45°C</td>
<td>100-240 V</td>
<td>50-60 Hz</td>
<td>0.55 A</td>
<td>26 Vdc</td>
<td>32 W</td>
</tr>
</tbody>
</table>

- This product is to be installed by qualified electricians only. Disconnect power before installation.
- The Solatube Smart LED is only intended for installation with the Class 2 driver supplied with the product.
- The maximum number of luminaires that can be connected to the Class 2 driver is one Primary Smart LED and one Secondary Smart LED.
- Minimum height from the base of the Luminaire assembly to the roof line of the Dome assembly shall be no less than 16 inches.
- Type IC Recessed—Inherently Protected (insulation may contact housing).
- Access above ceiling required.
- Not for use in fire rated installations.
- For use in one or two family dwellings only.
- Not for use in environmental air handling spaces.
- The Dome assembly is Suitable for Wet Locations.
- The Diffuser assembly is Suitable for Damp Locations.
- For supply connections use wires rated for at least 70°C
- Not for use with dimmers (e.g. dimming switches)
- Use only with Solatube Classic Vusion (L4), OptiView (L11), JustFrost (L9), TierDrop (L10), AuroraGlo (L13), VividShade (L12), Quadrafrost (L14) Trims.

Caution

- Risk of fire and electrical shock. Most dwellings built before 1985 have supply wire rated 60°C.
Solatube Smart LED System Operation

This section describes the behavior of the Solatube Smart LED Daylight Sensor and the optional Occupancy Sensor. The Solatube Smart LED System comes equipped standard with a Daylight Sensor, and optional Occupancy Sensor.

- **Solatube Smart LED System and Wall Switch Functionality**
  - The wall switch must be in the “on” position for the LEDs to function.
  - The wall switch in the “off” position will override both sensors, preventing the LEDs from turning on.

- **Solatube Smart LED System with Daylight Sensor only**
  - The Daylight Sensor is a standard feature in all models that continuously monitors light levels. When the wall switch is in the “on” position, the LEDs will turn on immediately when daylight levels are insufficient. The Daylight Sensor will continue checking light levels until daylight levels remain sufficient for a period of 5 minutes. After the 5 minute period, the LEDs will turn off. The Daylight Sensor continues monitoring light levels unless the wall switch is in the “off” position.

- **Solatube Smart LED System with Daylight Sensor and Occupancy Sensor**
  - When installed with the optional Occupancy Sensor the LEDs will not turn on unless the following three conditions are all met:
    - The wall switch is in the “on” position.
    - The Occupancy Sensor detects an occupant within its range.
    - The Daylight Sensor detects insufficient light levels.

  - Example 1: If the Daylight Sensor detects insufficient light but the Occupancy Sensor does not detect an occupant in its range the LEDs will not come on.
  - Example 2: If the Occupancy Sensor detects an occupant but the Daylight Sensor detects sufficient light levels the LEDs will not come on.

  - Once the LEDs have been turned on, both the Daylight Sensor and Occupancy Sensor will continue to monitor their individual functions until one of them detects a change such as increased light level or the occupant leaves. Either one of these changes must remain constant for 5 minutes for the LEDs to turn off. The cycle starts over at that time.

  - Both sensors must detect a change to turn the LEDs on, but only one sensor needs to detect a change to turn them off.

Solatube Smart LED System Check with Daylight Sensor Only

The following system checks should be performed to verify proper functionality of the system. If any failures occur during the system check verify all electrical connections and repeat system check.

- When testing the Solatube Smart LED System use care to prevent damage to the Daylight Sensor and the Light Optimization Lens. Use caution when handling Amplifier to prevent damage to reflective material. Do not use tape or adhesives to cover the Daylight Sensor to prevent damage.

  - Once installed follow the directions below according to the outside light conditions.
  - For bright, sunny conditions (LEDs off) cover the Daylight Sensor with the Daylight Sensor Cover to trigger LEDs. See example shown on next page.
  - Remove the Daylight Sensor Cover and wait for approximately 5 minutes. If daylight levels remain sufficient during this period the LEDs will turn off.
  - For cloudy, overcast conditions (LEDs on) shine a bright light onto the top of the Daylight Sensor for approximately 5 minutes and the LEDs will turn off.
Solatube Smart LED System Check with Daylight Sensor & Occupancy Sensor

For optimum Occupancy Sensor functionality perform the following system check in the order specified.

- **Step 1:** Test Occupancy Sensor (Occupied Space)
  - Ensure the wall switch is in the off position.
  - Leave the provided Daylight Sensor Cover in place.
  - Switch the wall switch to the “on” position and walk into the range of the occupancy sensor.
  - The LEDs will turn on.

- **Step 1a:** Test Occupancy Sensor (Unoccupied Space)
  - Exit space and stay out of the range of the occupancy sensor for approximately 5 minutes.
  - The LEDs will turn off.

- **Step 2:** Test Daylight Sensor
  - Wall switch remains in “on” position.
  - Walk into the range of the occupancy sensor.
  - The LEDs will turn on.
  - Remove Daylight Sensor Cover.
    - If bright, sunny conditions are present the LEDs will turn off in approximately 5 minutes.
    - If cloudy, overcast conditions are present shine a bright light onto the top of the Daylight Sensor for approximately 5 minutes.

---

Example:
Cover Daylight Sensor with Daylight Sensor Cover.
1 Mark Ceiling and Roof Location Between Joists and Rafters Using Nails. Cut Ceiling Hole.
Minimum clearance of 5 3/8 in (140 mm) between nail hole center and joist.

2 Center on Nail and Trace Inside Flashing Base

3 Cut Roof Opening

4 Remove Roof Shingles

5 Set Flashing

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6 Fasten Flashing to Roof and Replace Shingles

7 Align Dome Ring and Flashing Holes

8 Align Top Tube Angle with Ceiling Opening

9 Remove and Tape Top Tube

   Tape all seams.

10 Fasten Top Tube to Flashing*

   *For HVHZ dip screw threads in sealant

11 Dome Installation

   Reflective side of LightTracker™ Reflector faces South in Northern Hemisphere (North in Southern Hemisphere). Align and snap dome into place engaging all four snaps.
12 Insert Luminaire Assembly
Align and measure tube run.

Minimum Overlap at Tube Seams
1 1/2 in (38 mm)

Minimum Overlap at Tube Seams
1 1/2 in (38 mm)

1 1/2 in (38 mm)

Tube length measurements should be equal.

Apply pressure to tape for proper bonding.

13 Assemble Tube Run
Use notches to create a tapered tube.

Remove Protective Liner
Printed 2" Overlap Markings

Minimum Overlap at Tube Seams
1 1/2 in (38 mm)

1/4 in (6 mm)

Expansion Joint Seal

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14 Remove Junction Box Assembly Cover and Connect Power

- Remove Junction Box Assembly Cover
- Connect Power

*This step applicable to Primary unit only.

15 Fasten Junction Box Mounting Bracket to Structural Member

- Fasten Junction Box Mounting Bracket

16 Attach DC Connector to Primary Unit and Install Tube Run

- Attach DC Connector
- Install Tube Run

See Alternative Installation for Secondary Unit Connection

- Optional: Secondary Unit Connector
- DC Power Connector from Driver
- Optional: Occupancy Sensor Connector

- Remove Dust Cap prior to making wire connection

*Occupancy Sensor Instructions Provided in Appendix Section

*Optional for commercial install with suspended ceiling or for installs in the HVHZ.

*Tape seam for commercial install with suspended ceiling or for installs in the HVHZ.
17 Fasten to Ceiling
Use drywall screws if fastening clamps do not engage ceiling. For cold weather climates, apply latex caulk to ceiling ring to minimize air transfer.

18 Install Effect Lens and Diffuser
See Warning Section to Perform System Check

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Smart LED Occupancy Sensor Installation Instructions Appendix

Parts List

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy Sensor</td>
</tr>
</tbody>
</table>

Additional Materials and Tools

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddle Bit 13/16 in (20 mm)</td>
</tr>
</tbody>
</table>

* Max install distance from Occupancy Sensor to Primary Luminaire Housing is 10 ft (3m)

For ease of connection, install Occupancy Sensor prior to installing tube run.

1. Drill Ceiling Opening

2. Install Occupancy Sensor

3. Position View Detection Locator so Occupancy Sensor will Read Desired Area.

* Return to step 16 of the Solatube Smart LED Lighting System Installation Instructions

* See Solatube Smart LED Warning section for detailed system check and Best Practices section for installing and positioning the Occupancy Sensor.
The ideal location for the Solatube Smart LED System Occupancy Sensor is in a ceiling area that provides a full view of the space with an unobstructed path to the entrance way(s), but out of view from hallway or adjacent room traffic. The sensor should be positioned well away (about 6 feet) from HVAC registers to prevent false triggering.

### Enclosed Zones
- **Bathrooms**: Locate directly inside and above the door header or position where the Sensor cannot “see” out through an open doorway.
- **Closets**

### Open Zones
- **Hallways**: Centrally locate to see in both directions (ie: top & bottom of stairs or both ends of hall) but positioned where the sensor cannot “see” movement in adjacent zones such as living rooms.
- **Stair Landings**
- **Entry Ways**

### Task Areas
- **Offices**: Locate within 4-feet above normal Work Position (ie: desk top, kitchen sink) but positioned where the Sensor is unlikely to “see” out through an open doorway; or in an “open kitchen” where the sensor cannot “see” movement in adjacent zones.
- **Living / Recreation Rooms**
- **Kitchens**
- **Bedrooms**

### Ceiling Height | X Range | Y Range
--- | --- | ---
8 ft * | 13 ft | 9.5 ft
9 ft | 13 ft | 9.5 ft
10 ft | 16.5 ft | 13 ft
12 ft | 13 ft | 13 ft

Max depth reading from center of Occupancy Sensor to floor directly below is 16 ft.

* Size not to scale.

Position the view detection locator so that Occupancy Sensor will read desired area. See examples on next page.
Example of desired orientation of view detection locator.

Example of undesirable orientation of view detection locator.
Universal Tile Flashing INSTALLATION INSTRUCTIONS APPENDIX
(with Base Flashing)

PARTS LIST

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tile Flashing (Pitched or No Pitch version)</td>
</tr>
<tr>
<td>2</td>
<td>Base Flashing (Pitched or No Pitch version)</td>
</tr>
<tr>
<td>2</td>
<td>Aluminum &quot;L&quot; bracket</td>
</tr>
<tr>
<td>3</td>
<td>#8 X 1/4 in (6 mm) screws</td>
</tr>
</tbody>
</table>

ADDITIONAL MATERIALS AND TOOLS

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Roof Sealant</td>
</tr>
<tr>
<td>2</td>
<td>Flashing Screws—#10 X 2 in (50 mm) screws</td>
</tr>
<tr>
<td>3</td>
<td>Tile Grinder</td>
</tr>
</tbody>
</table>

**Note:** These instructions are for non-HVHZ areas only. Contact a Solatube International representative for recommendations in HVHZ areas.

**Caution:** The use of Portland Cement based mastic, grout, or alkaline materials will cause damage to the aluminum flashing.

**1.** Remove Tiles. Center on Nail and Trace Inside Flashing Base.

**2.** Cut Roof Opening

**3.** Set Base Flashing

**4.** Fasten Flashing to Roof

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5 Set Universal Tile Flashing
Bend front edge of Universal Tile Flashing to fit shape of roof

6 Fasten Universal Tile Flashing to Base Flashing

7 Cut and Replace Roof Tiles
Cut and replace roof tiles with a #8 X 1/4 in (6 mm) Screw.

8 Secure Flashing to Tile
Secure flashing to tile with an L-bracket and #8 X 1/4 in (6 mm) Screw.
Flat Roof Installation Instructions Appendix

### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Roof Flashing (no pitch)</td>
<td>(1)</td>
</tr>
<tr>
<td>2 Flashing Screws - #10 X 2 in (51 mm)</td>
<td>(8)</td>
</tr>
</tbody>
</table>

### Additional Materials and Tools

<table>
<thead>
<tr>
<th>Material</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Straight Edge</td>
<td>(1)</td>
</tr>
<tr>
<td>2 Roof Sealant</td>
<td>(1)</td>
</tr>
</tbody>
</table>

1. **Center on Nail. Trace Inside and Outside Flashing Perimeter.**

2. **Cut Roof Opening**

3. **Apply Sealant to Roof and Flashing**

4. **Set Flashing**

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# Flashing Insulator Installation Instructions Appendix

## Parts List

<table>
<thead>
<tr>
<th>Parts List</th>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Flashing Insulator</td>
<td>(1)</td>
<td></td>
</tr>
<tr>
<td>2 Foil Tape</td>
<td>(8)</td>
<td></td>
</tr>
</tbody>
</table>

**Warning:** Do not expose Flashing Insulator to direct flame.

## Additional Materials and Tools

<table>
<thead>
<tr>
<th>Additional Materials and Tools</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 None</td>
<td></td>
</tr>
</tbody>
</table>

## 1 Center Flashing Insulator on Flashing Base.

1. Center Flashing Insulator on Flashing Base.

## 2 Apply Foil Tape.

2. Apply Foil Tape.

   - Apply pressure to foil tape for proper bonding.

   - Return to main instruction set to complete flashing installation.
Turret Extension Installation Instructions Appendix

Parts List

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Turret Extension 2 in (50 mm) or 4 in (100 mm)</td>
</tr>
<tr>
<td>2</td>
<td>1/4 in (6 mm) screws</td>
</tr>
</tbody>
</table>

Additional Materials and Tools

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Roof Sealant</td>
</tr>
</tbody>
</table>

1. Apply Sealant to Flashing and Inside of Turret Extension
2. Align Turret Extension with Flashing Holes and Fasten

---

Dome Edge Protection Band Installation Instructions Appendix

Parts List

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dome Edge Protection Band</td>
</tr>
</tbody>
</table>

Additional Materials and Tools

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>None</td>
</tr>
</tbody>
</table>

1. Place Dome Edge Protection Band Over Flashing
2. Secure Dome Edge Protection Band

For the most current Installation Instructions, please visit www.solatube.com/instructions

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0-90 Degree Extension Tube Installation Instructions Appendix

**Parts List**

<table>
<thead>
<tr>
<th>Parts List</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-90 Degree Extension Tube</td>
<td>(1)</td>
</tr>
<tr>
<td>Tube Screws - #8 X 3/4 in (10 mm)</td>
<td>(4)</td>
</tr>
<tr>
<td>Foil Tape - 2 in (51 mm) X 6 ft (2 m)</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**Additional Materials and Tools**

<table>
<thead>
<tr>
<th>Additional Materials and Tools</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**1 Install 0-90 Degree Extension Tube**

Install only between the top tube and an extension tube or two extension tubes.

![Diagram of installation process]

- Apply pressure to tape for proper bonding
- Minimum overlap at tube seams 1 1/2 in (38 mm)

Additional structural support may be required for horizontal tube runs. Consult local building code.
Solatube® Smart LED Accessories
Add more function by upgrading your Solatube Smart LED with any of these great accessories.

Daylight Dimmer
Because you don’t need 100% of the light 100% of the time, the innovative Solatube Daylight Dimmer easily controls the amount of daylight entering a room with the convenience of a switch. Our patented variable butterfly baffle controls the light output.

Metal Roof Installation Kit
Order this kit for installation of a Solatube 160 DS or 290 DS flashing onto a standing seam metal roof.

Universal Tile Flashing (for applications without base flashing)
The Universal Tile Flashing integrates seamlessly with most tile profiles. The malleable flashing skirt, available with a pitched or no pitch turret, easily adapts to the shape of the tile.

Dome Upgrade Kit
Upgrade an older Solatube product to take advantage of Solatube’s patented Raybender™ 3000 Technology. The dome upgrade kit is installed without removing previous flashing or tubing.

Re-Roofing Recommendations
Solatube products require special care if removed for re-roofing. Refer to the Solatube Re-Roofing Recommendations to ensure proper removal and re-installation.

Not all items available for all markets. Contact your Solatube International representative for availability.