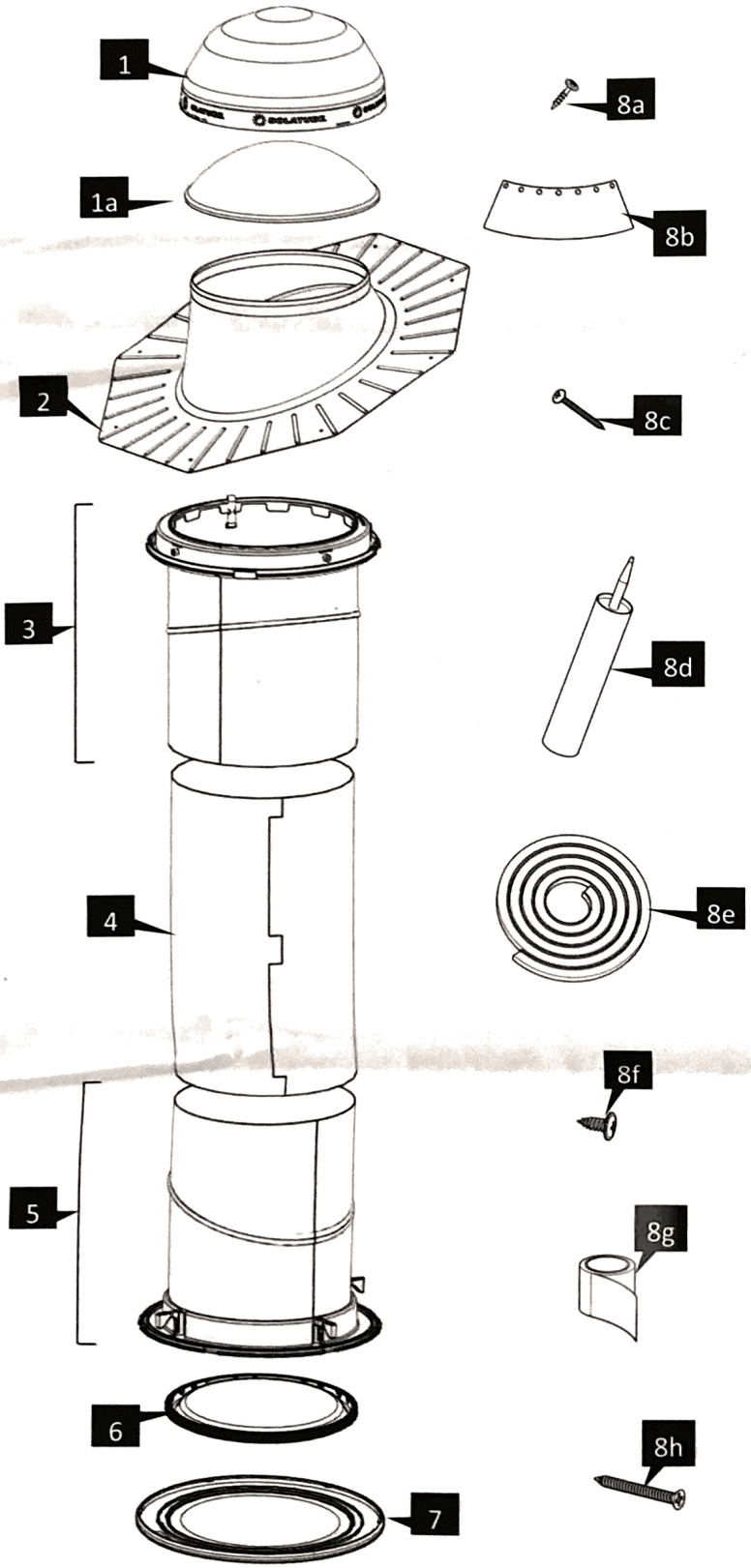
SOLATUBE®
Innovation in Daylighting.

Solatube® Brighten Up® Series

Solatube® 160 DS Daylighting System
Solatube® 290 DS Daylighting System
Installation Instructions



Parts List *		Quantity
1	Dome with Raybender® 3000 Technology	(1)
	a. Shock Inner Dome*†	
2	Roof Flashing (pitched or no pitch)	(1)
3	Top Tube Assembly including: Dome Ring, Dome Ring Seal, Spectralight® Infinity Top Tube with Angle Adapter.	(1)
4	Spectralight® Infinity 16 in (400 mm) Extension Tube (not included in some kits, see label on box)	(2)
5	Bottom Tube Assembly including: Spectralight® Infinity Bottom Tube with Angle Adapter, Ceiling Ring	(1)
6	Effect Lens	(1)
7	Diffuser	(1)
8	Seal and Fasteners	
	a. Dome Ring Screws - #8 X 1.25 in (32 mm)	(5)
	b. LightTracker™ Reflector	(1)
	c. Flashing Screws - #10 X 2 in (51 mm)	(8)
	d. Roof Sealant	(1)
	e. Expansion Joint Seal	(1)
	f. Tube Screws - #8 X 9/16 in (14 mm)	(10)
	g. Foil Tape - 2 in (51 mm) X 18 ft (5.5 m) roll	(1)
	h. Drywall Screws - #6 X 1 5/8 in (40 mm)	(4)

Required Tools:

- Keyhole Saw
- Saber or Reciprocating Saw
- Hammer
- Flat Bar
- Utility Knife
- Tape Measure
- Caulking Gun
- Screw Gun with Phillips Head
- Lumber Crayon
- Magnetic Compass
- 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.

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

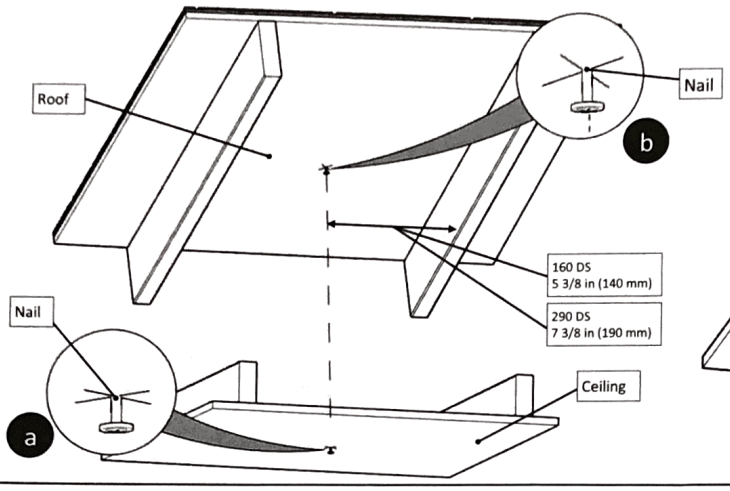
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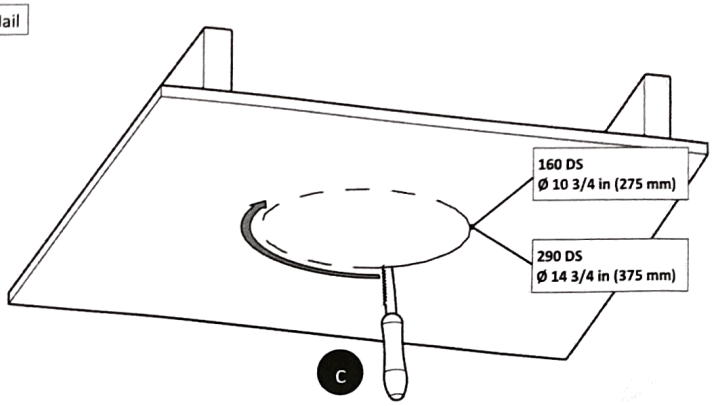
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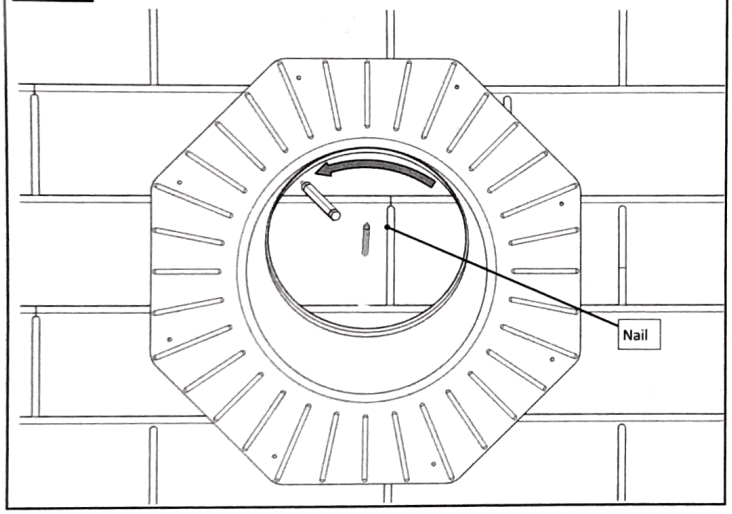
1 Mark Ceiling and Roof Location Between Joists and Rafters Using Nails. Cut Ceiling Hole.

Minimum clearance of 5 3/8 in (140 mm) for 160 DS and 7 3/8 in (190 mm) for 290 DS between nail hole center and joist.

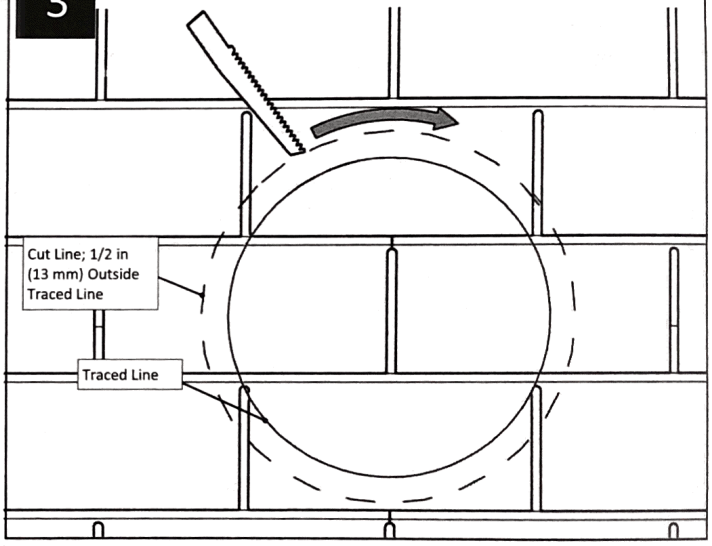




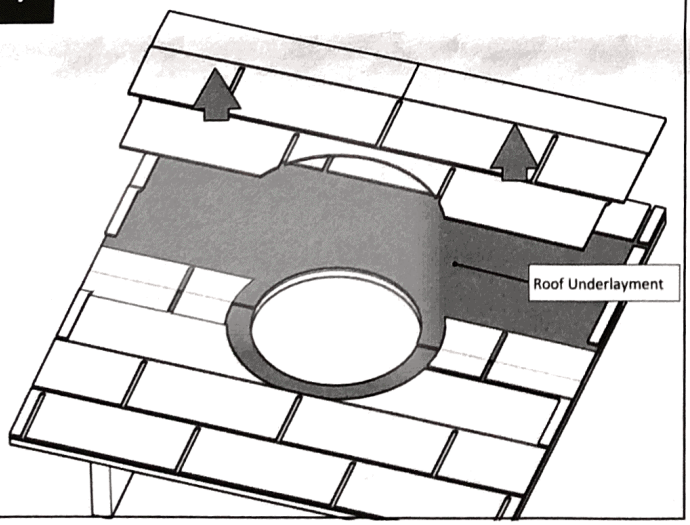
2 Center on Nail and Trace Inside Flashing Base



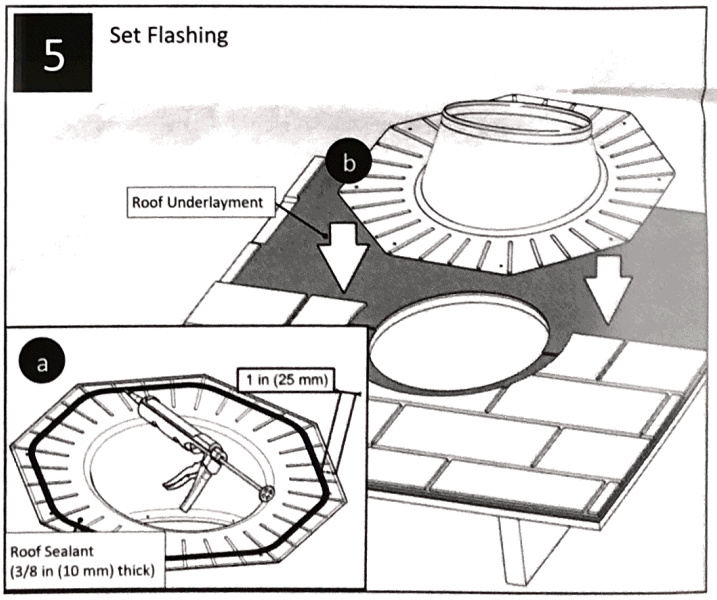
3 Cut Roof Opening



4 Remove Roof Shingles



5 Set Flashing



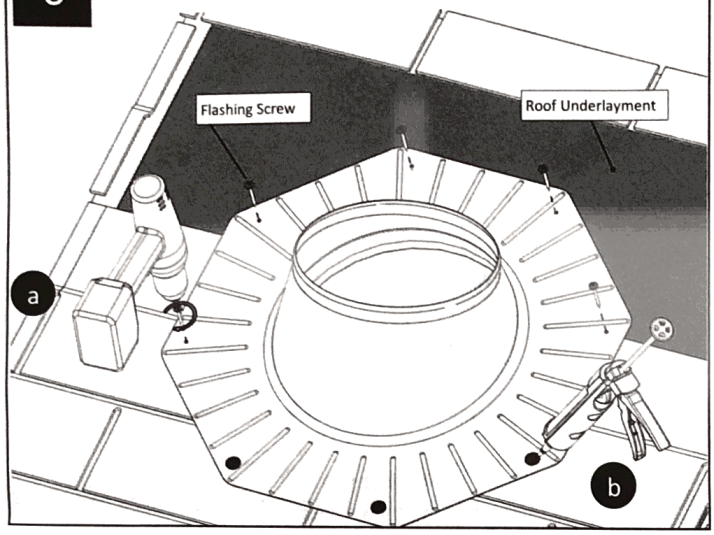
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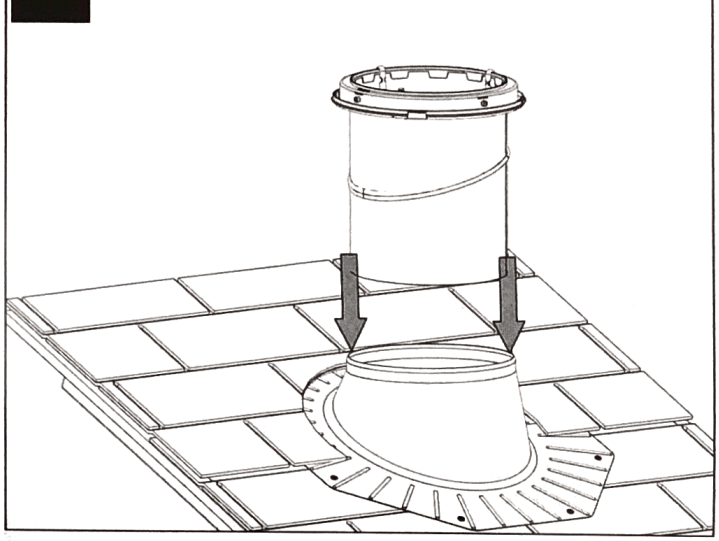
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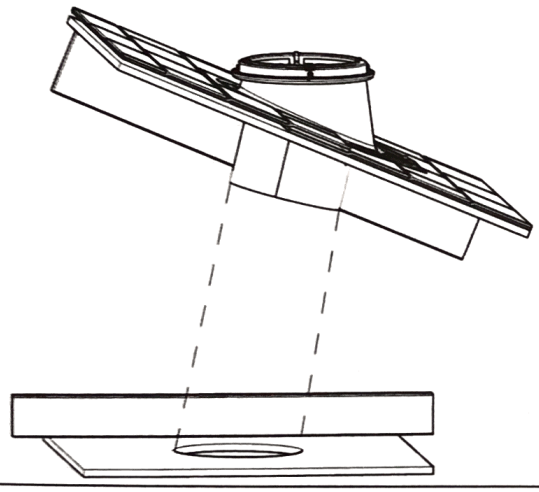
6 Fasten Flashing to Roof and Replace Shingles



7 Align Dome Ring and Flashing Holes

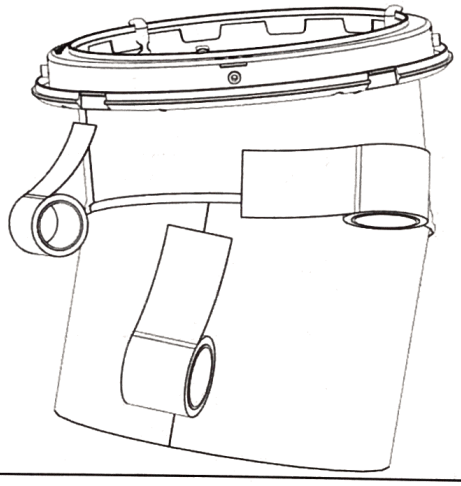


8 Align Top Tube Angle with Ceiling Opening

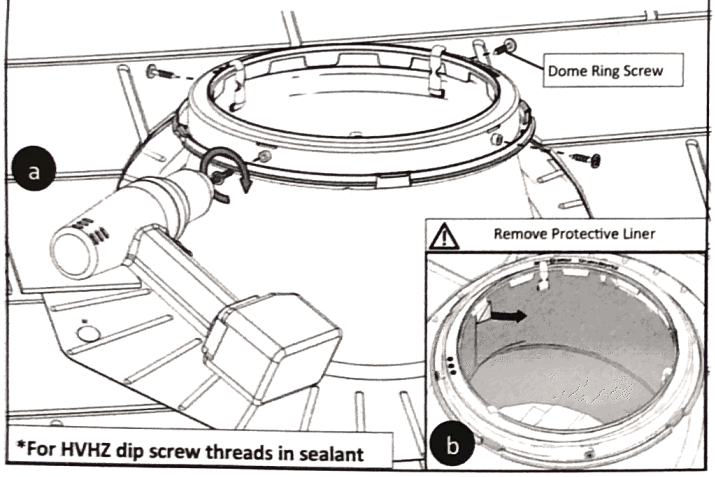


9 Remove and Tape Top Tube

Tape all seams.



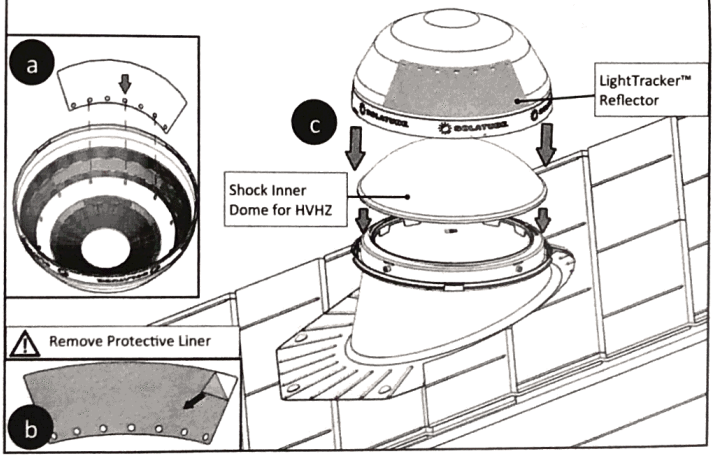
10 Fasten Top Tube to Flashing*



*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.



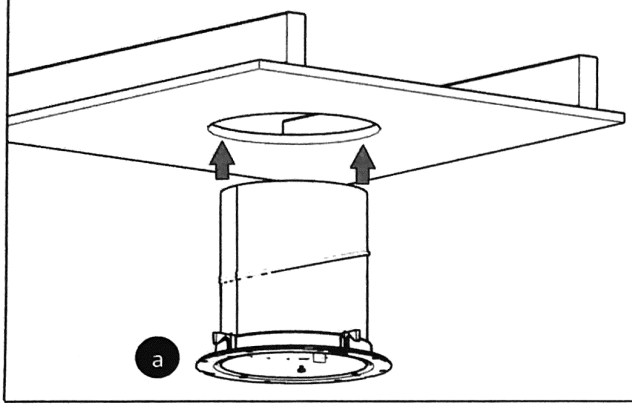
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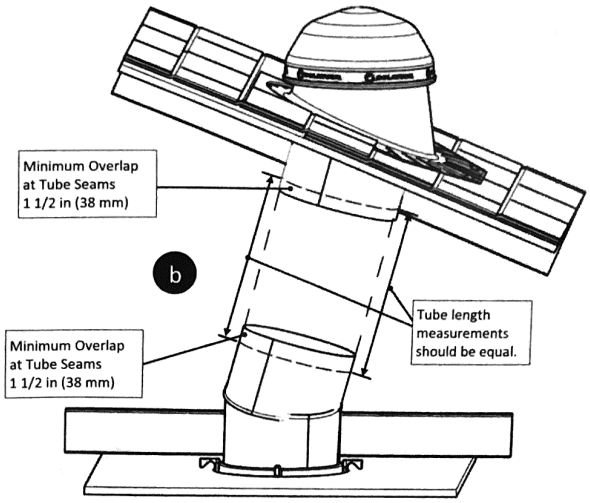
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12 Insert Bottom Tube

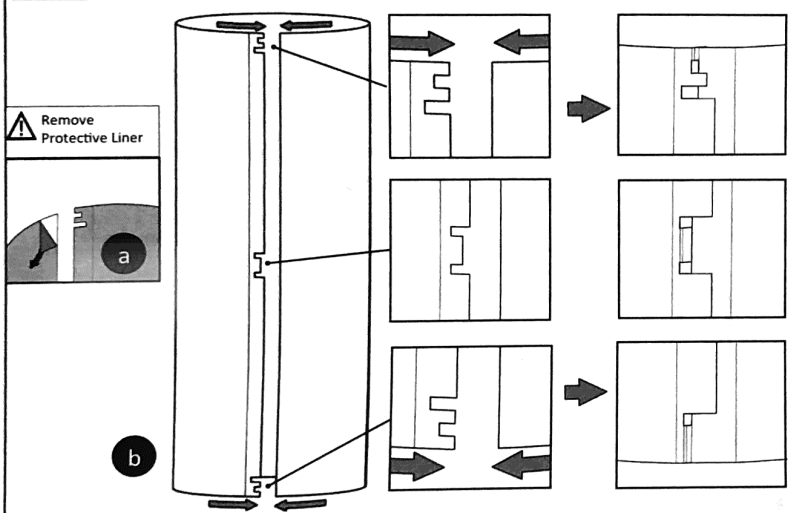
Align and measure tube run.

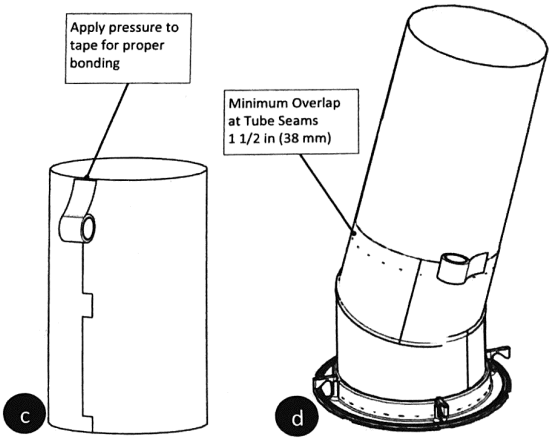


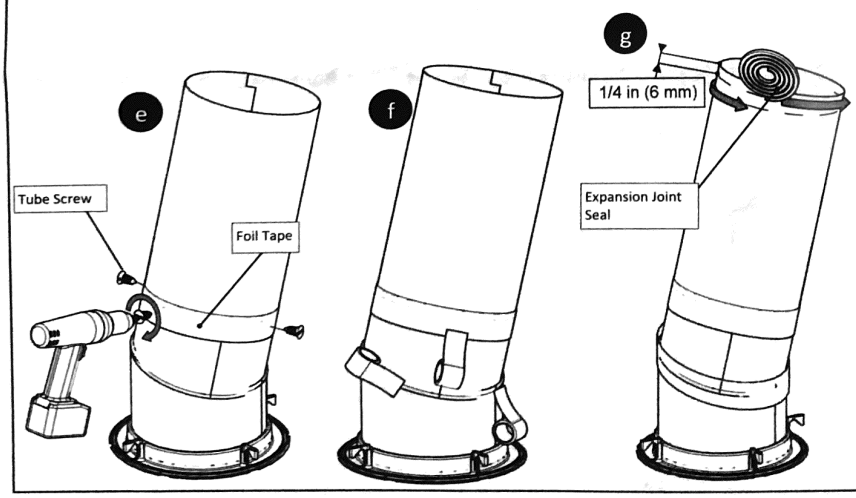


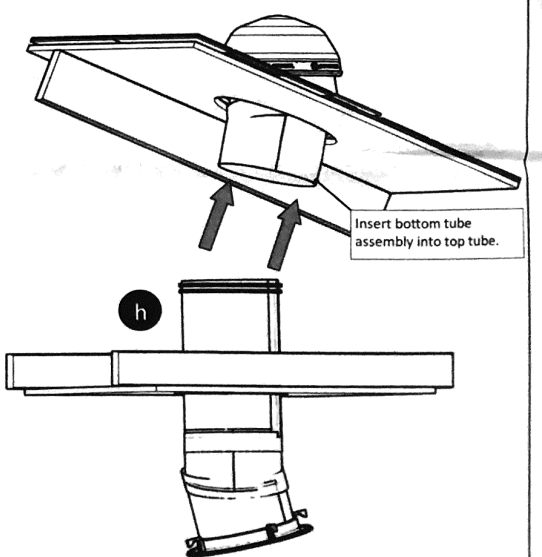
13 Assemble and Install Tube Run

Use notches to create a tapered tube.







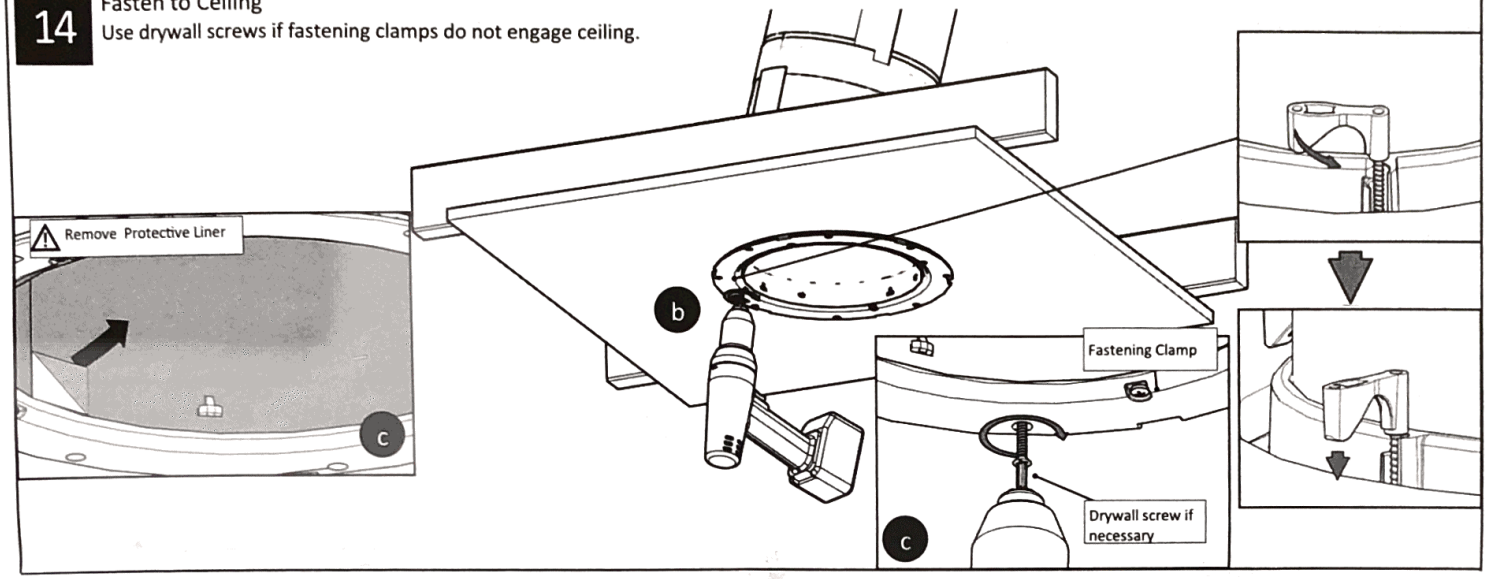


Apply foil tap to all seams and joints.

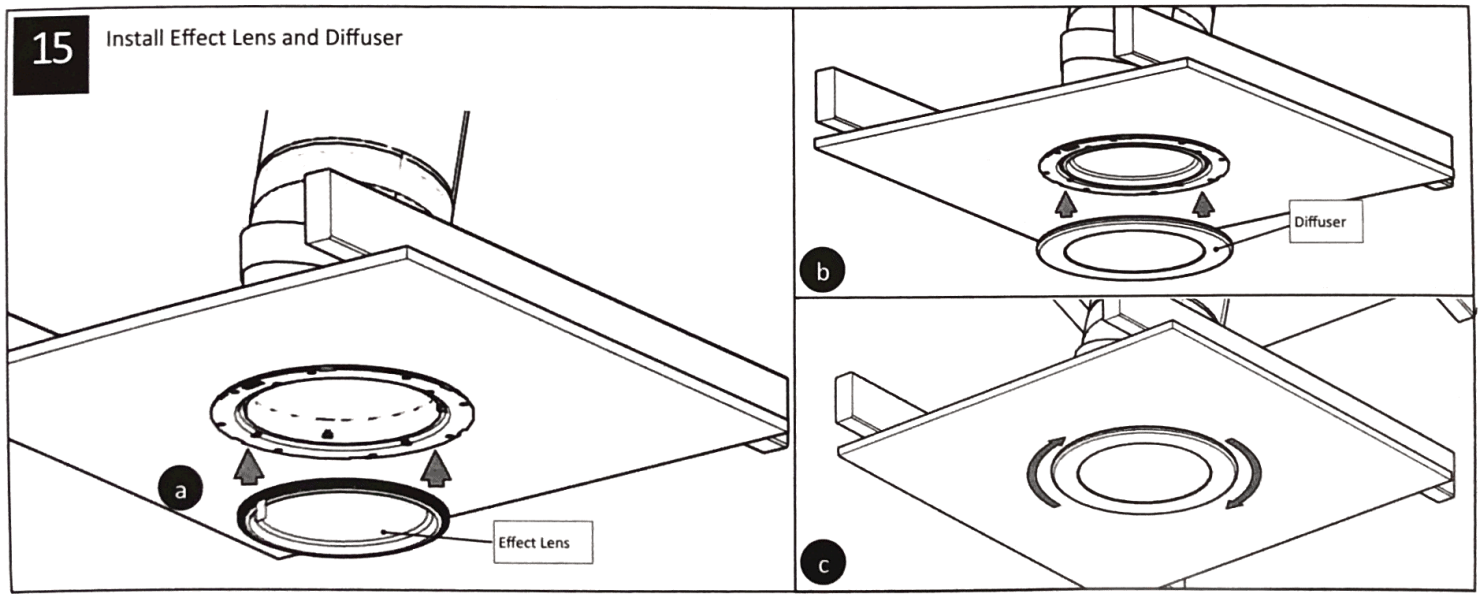
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14 Fasten to Ceiling

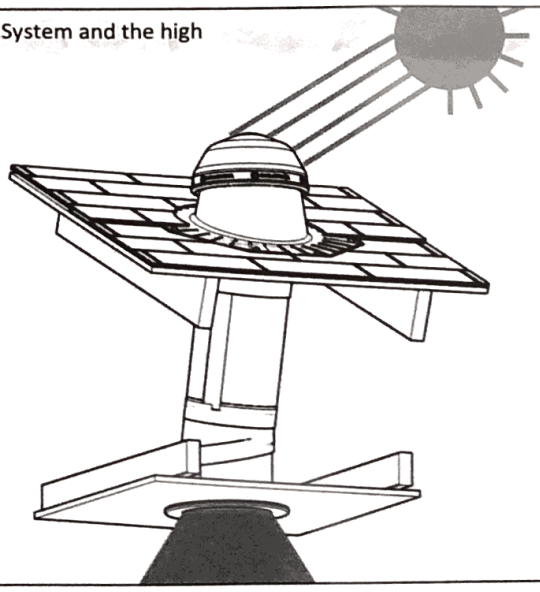
Use drywall screws if fastening clamps do not engage ceiling.



15 Install Effect Lens and Diffuser



16 Now you can enjoy the benefits of your Solatube Daylighting System and the high performance, natural lighting it provides.



Please refer to the following section for a list of alternative flashings and accessories.

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

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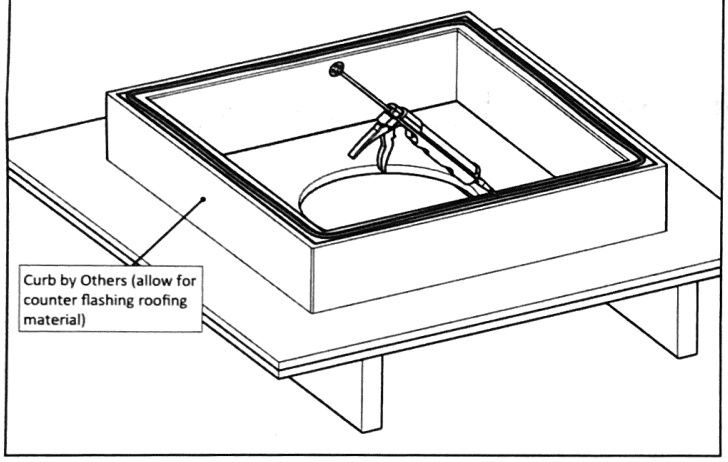
Part No. 951780 v2.9

Curb Mounted Flashing Installation Instructions Appendix

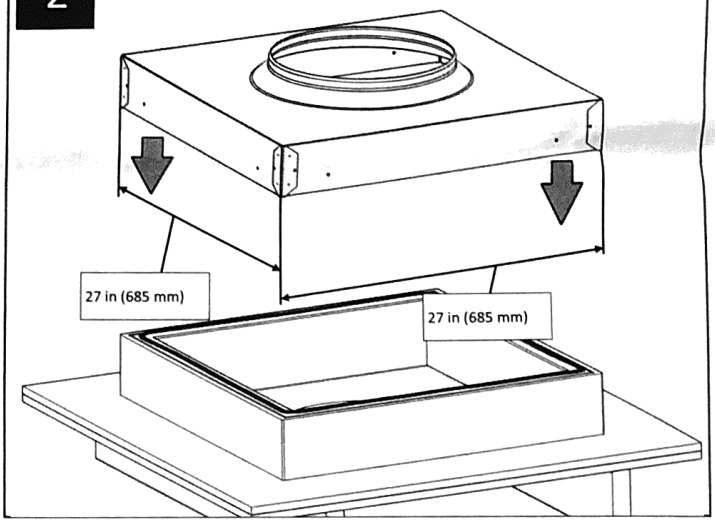
Parts List		Quantity
1	290 DS (14 in/350 mm) Curb Mounted Flashing (Inside Dimension 27 in (685 mm) X 27 in (685 mm))	(1)

Additional Materials and Tools		Quantity
1	Roof Sealant	(1)
2	Flashing Screws #10 X 2 in (50 mm)	(8)

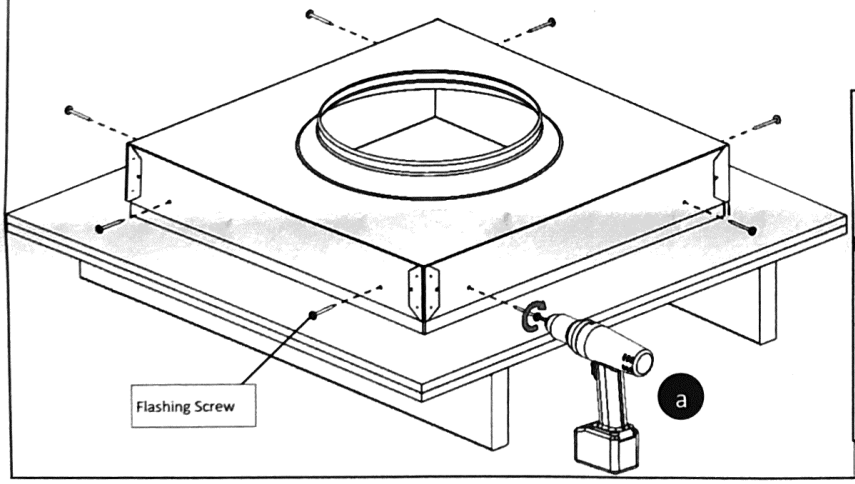
1 Apply Sealant to Curb

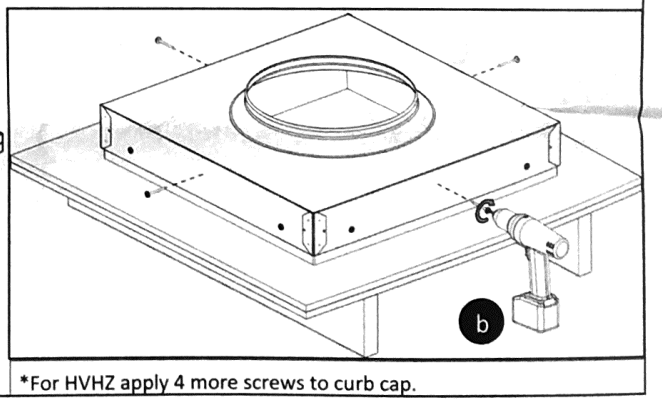


2 Install Cap on Curb



3 Fasten Flashing to Curb





*For HVHZ apply 4 more screws to curb cap.

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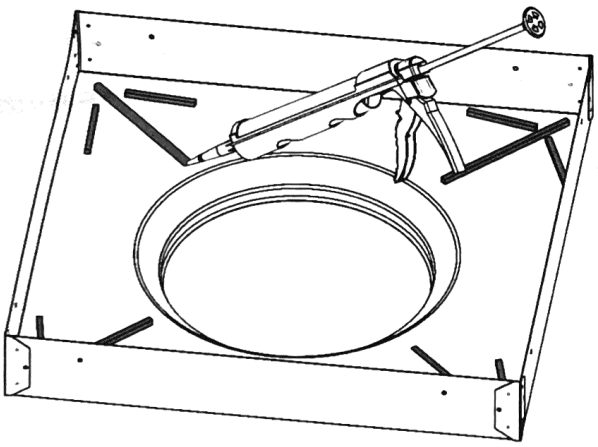
Curb Cap Flashing Insulation

Installation Instructions Appendix

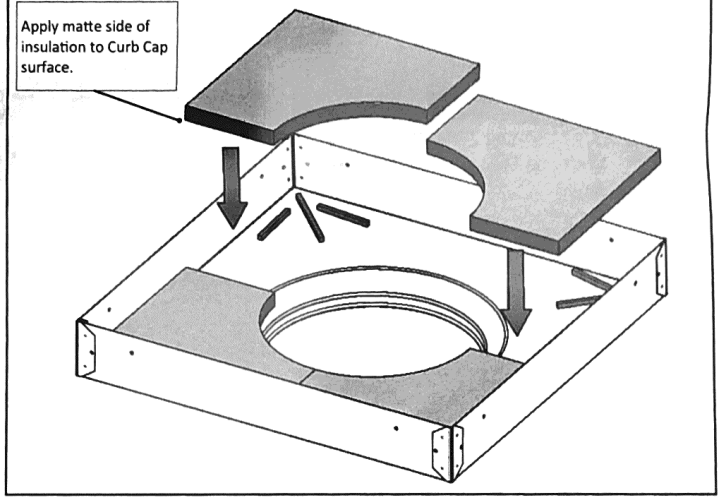
	Parts List	Quantity
1	290 DS (14 in/350 mm) Curb Insulation	(4)

	Additional Materials and Tools	Quantity
1	Roof Sealant	(1)
2	Foil Tape	(1)

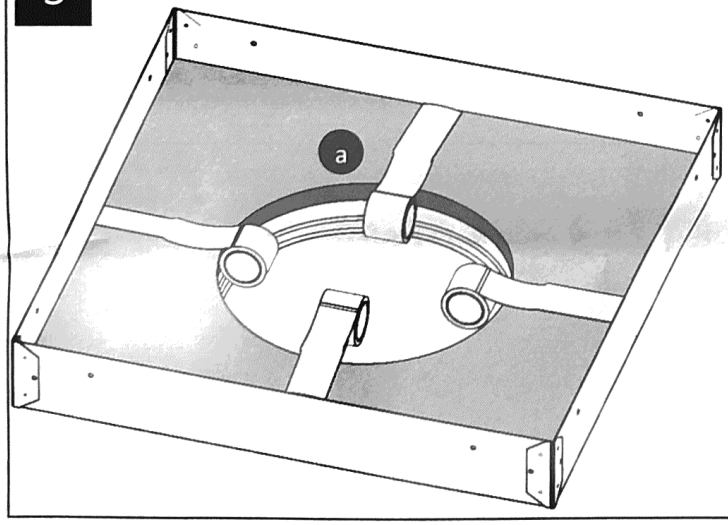
1 Apply Sealant to Underside of Curb Cap

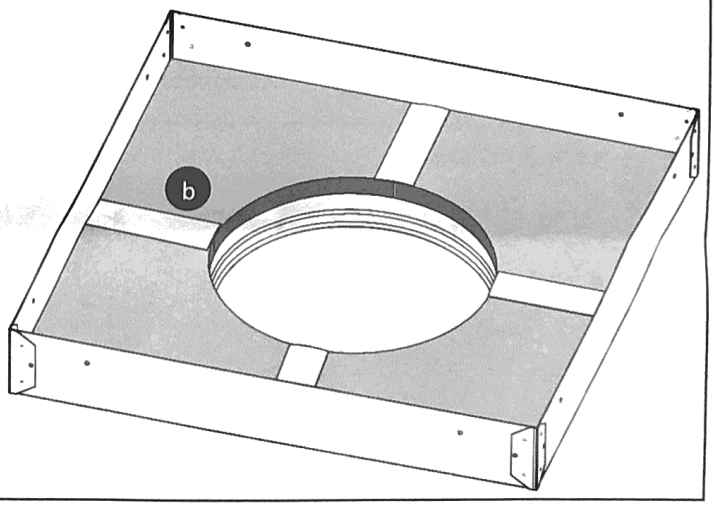


2 Install Insulation



3 Apply Foil Tape to Seams

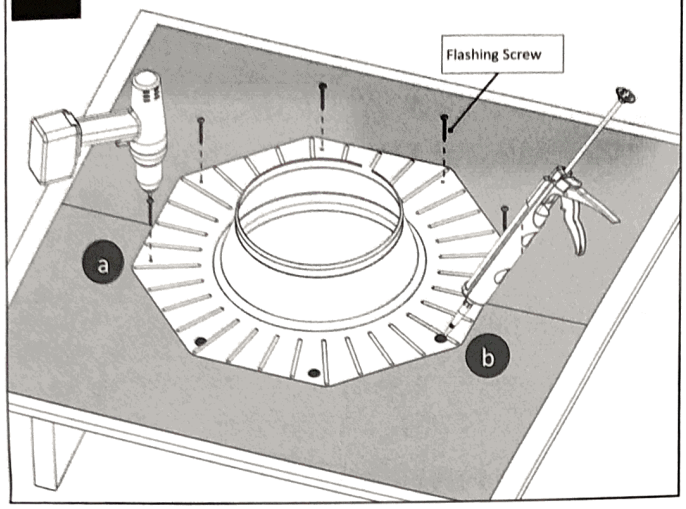




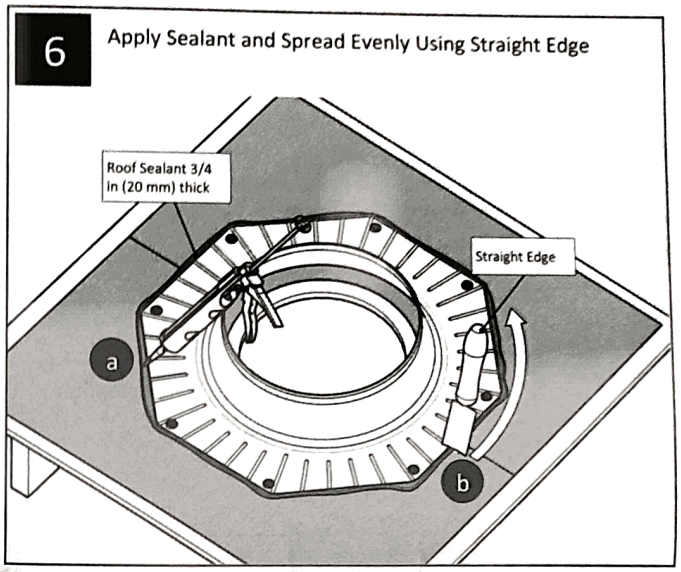
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5 Fasten Flashing to Roof



6 Apply Sealant and Spread Evenly Using Straight Edge



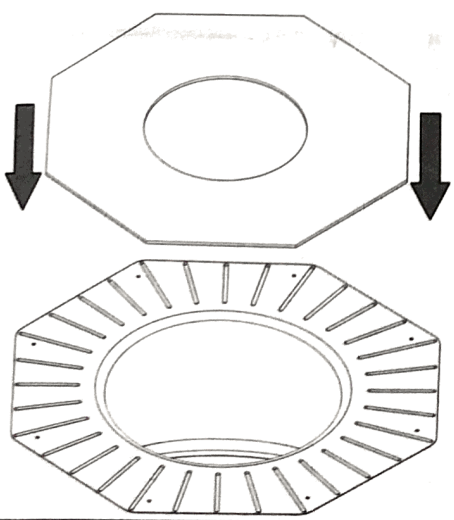
Flashing Insulator Installation Instructions Appendix

Parts List		Quantity
1	Flashing Insulator	(1)
2	Foil Tape	(8)

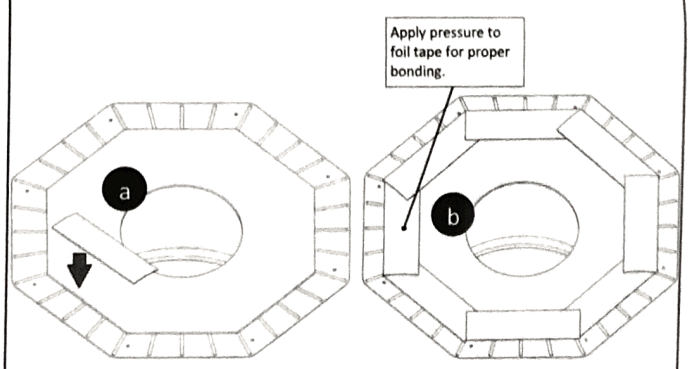
Warning: Do not expose Flashing Insulator to direct flame.

Additional Materials and Tools		Quantity
1	None	

1 Center Flashing Insulator on Flashing Base.



2 Apply Foil Tape.



Return to main instruction set to complete flashing installation.

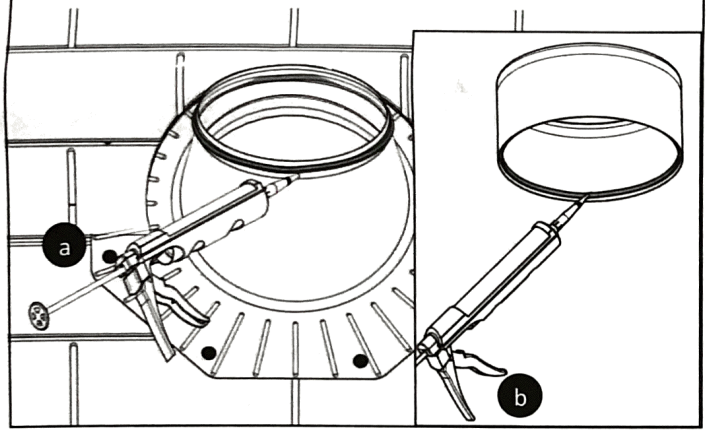
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Turret Extension Installation Instructions Appendix

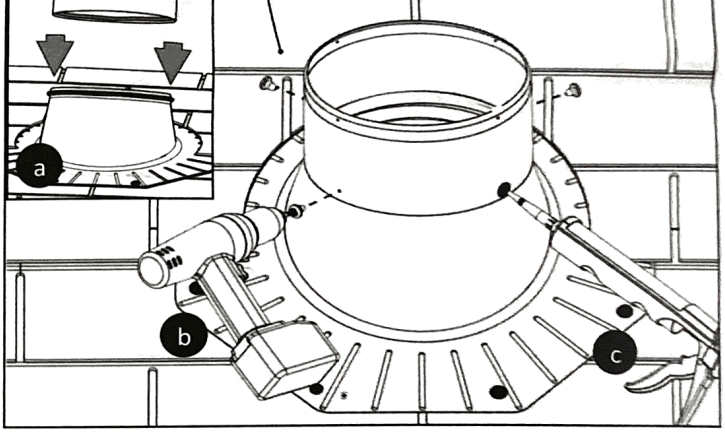
Parts List		Quantity
1	Turret Extension 2 in (50 mm) or 4 in (100 mm)	(1)
2	1/4 in (6 mm) screws	(4)

Additional Materials and Tools		Quantity
1	Roof Sealant	(1)

1 Apply Sealant to Flashing and Inside of Turret Extension



2 Place Turret Extension over Flashing and Fasten

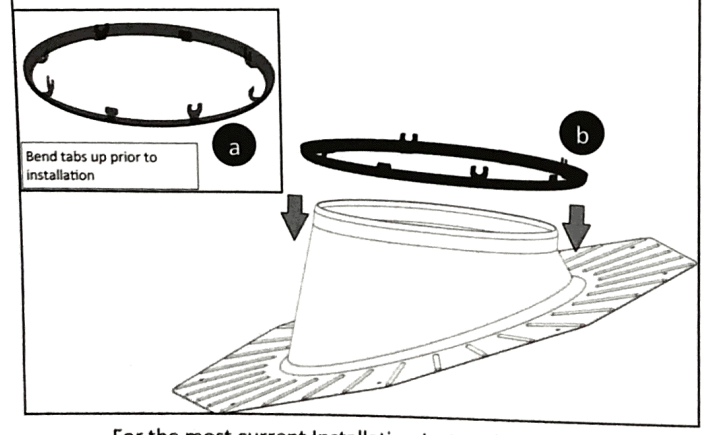


Dome Edge Protection Band Installation Instructions Appendix

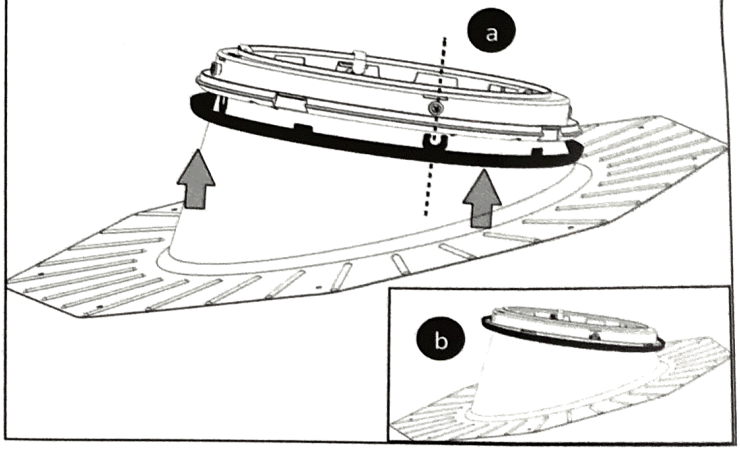
Parts List		Quantity
1	Dome Edge Protection Band	(1)

Additional Materials and Tools		Quantity
1	None	

1 Place Dome Edge Protection Band Over Flashing



2 Secure Dome Edge Protection Band
With top tube installed, align with dome ring spacers and snap into place.



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

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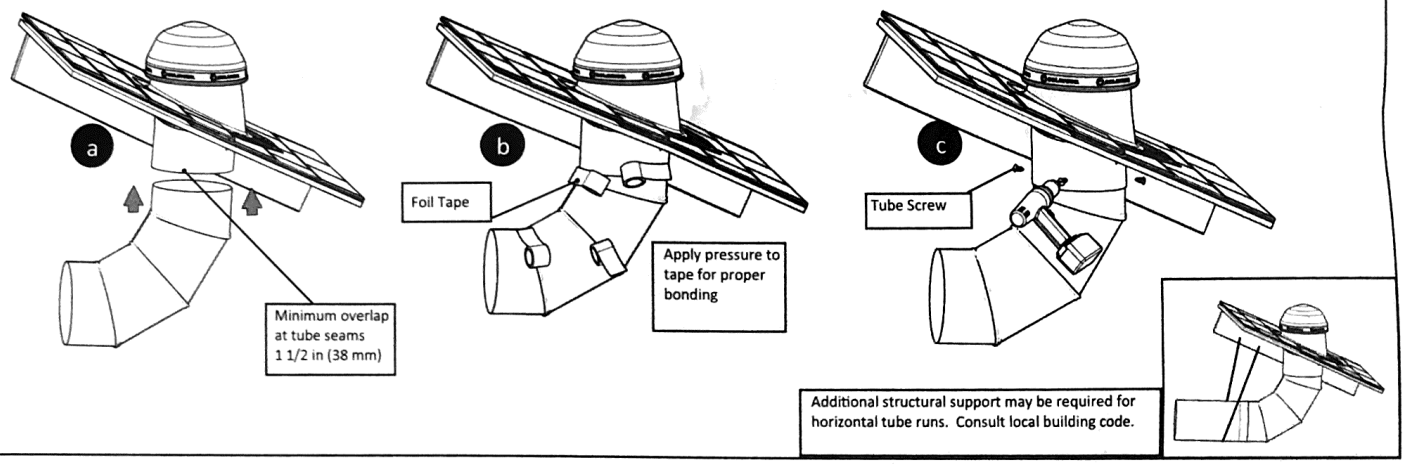
0-90 Degree Extension Tube Installation Instructions Appendix

Parts List		Quantity
1	0-90 Degree Extension Tube	(1)
2	Tube Screws - #8 X 3/4 in (10 mm)	(4)
3	Foil Tape - 2 in (51 mm) X 6 ft (2 m)	(4)

Additional Materials and Tools		Quantity
1	None	

1 Install 0-90 Degree Extension Tube

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



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