Solatube® SolaMaster® Series
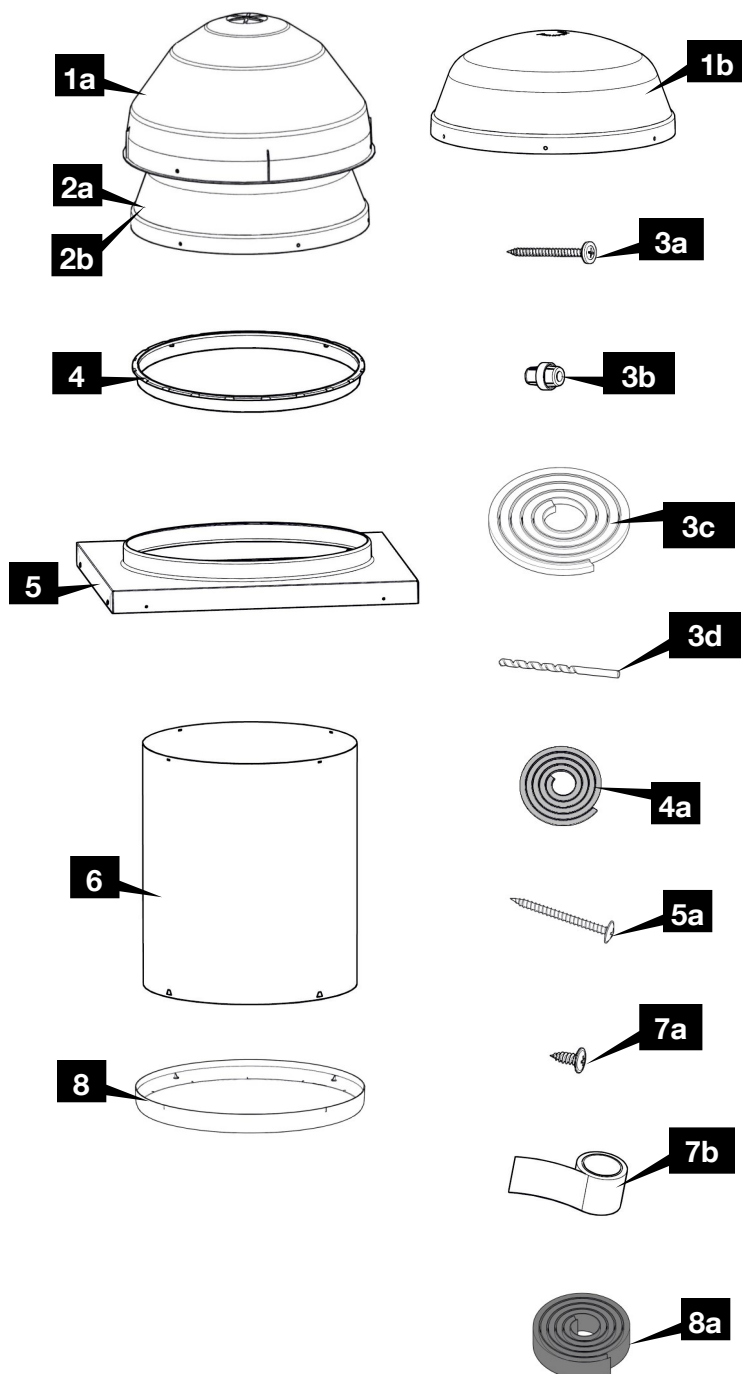
Solatube® 330 DS Daylighting System
Solatube® 750 DS Daylighting System
Installation Instructions

Open Ceiling

For Closed Ceiling, see back of this page.

Parts List *		Quantity
1	Outer Dome Options	
	a. 750 DS Dome with Raybender® 3000 Technology	(1)
	b. 330 DS Dome with LightTracker™ Reflector	(1)
2	Inner Dome Option	(1)
	a. Inner Dome for 750 DS (Optional)	(1)
	b. Inner Dome for 750 DS (Optional, Polycarbonate*†)	(1)
3	Dome Fasteners	
	a. Dome Screw #8 X 1 5/8 in (40 mm)	(4)
	b. Dome Spacer	(4)
	c. Dome Seal	(1)
	d. Drill Bit #40 (3/32 in/2.5 mm)	(1)
4	Tube Ring	(1)
	a. Tube Ring Seal (Required for all Open Ceiling Units)	(1)
5	Roof Flashing (4 in (100 mm)*†, 8 in (200 mm)*†, 11 in (280 mm)*† or Curb Cap))	(1)
	a. Flashing Screws - #10 X 2 in (50 mm)	(21)
6	Spectralight® Infinity Tubes	
	a. 24 in (610 mm) Extension Tube with Tube Fastener Kit	(1)
	b. 48 in (1220 mm) Extension Tube with Tube Fastener Kit	(1)
7	Tube Fastener Kit	(1)
	a. Tube Screws - #8 X 9/16 in (14 mm)	(5)
	b. 2 in (50 mm) Foil Tape - 18 ft (5.5 m)	(1)
8	Diffuser for Open Ceiling	(1)
	a. Diffuser Seal	(1)

Required Tools:

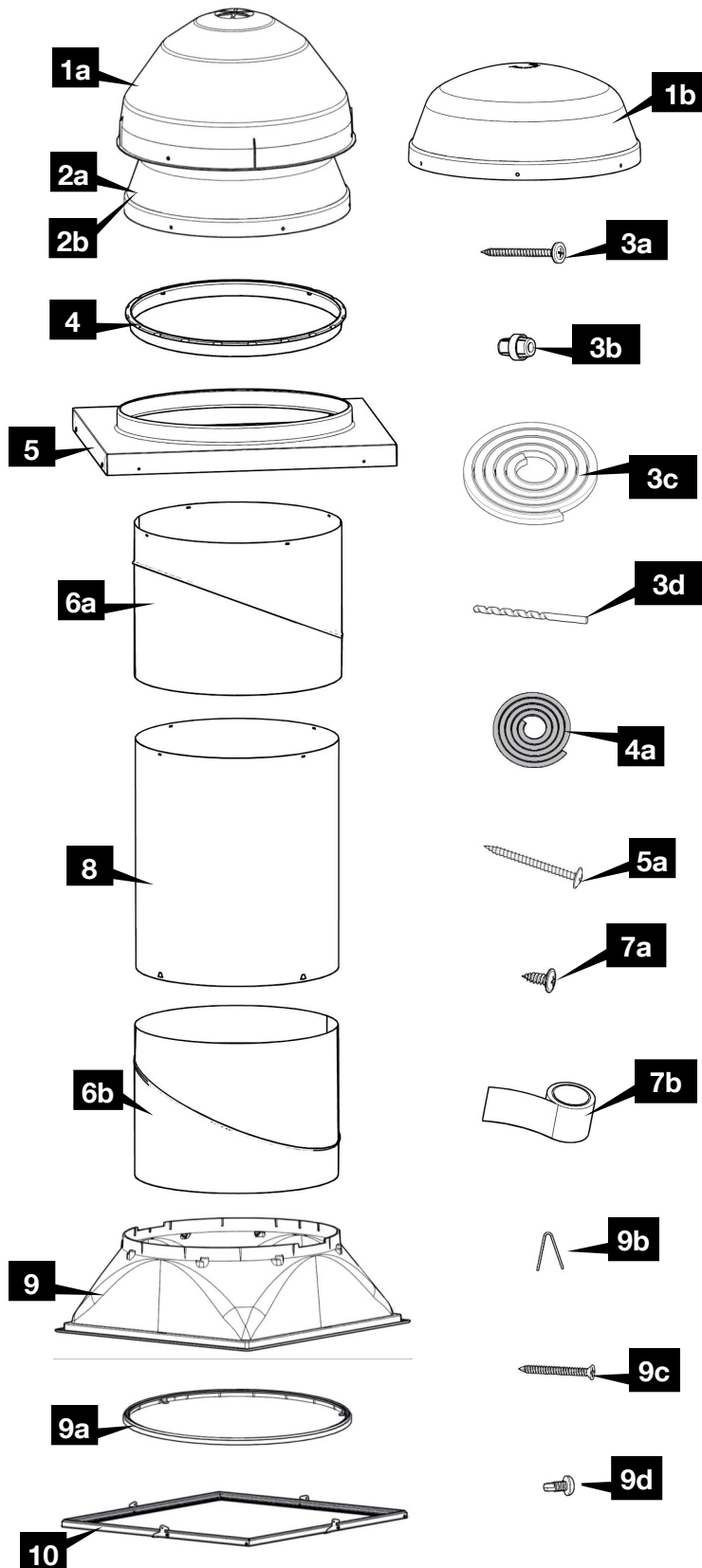|	
Saber or Reciprocating Saw	Utility Knife
Flat Bar	Caulking Gun
Tape Measure	Lumber Crayon
Screw Gun with Phillips Head	Metal Shears
Magnetic Compass	Required Safety Equipment
Hammer	

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

*†Required for High Velocity Hurricane Zone (HVHZ) areas.

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1

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Part No. 950160 v2.3

Closed Ceiling

Parts List *			Quantity
1		Outer Dome Options	
		a. 750 DS Dome with Raybender® 3000 Technology	(1)
		b. 330 DS Dome with LightTracker™ Reflector	(1)
2		Inner Dome Option	(1)
		a. Inner Dome for 750 DS	(1)
		b. Inner Dome For 750 DS (Optional, Polycarbonate*†)	(1)
3		Dome Fasteners	
		a. Dome Screw #8 X 1 5/8 in (40 mm)	(4)
		b. Dome Spacer	(4)
		c. Dome Seal	(1)
		d. Drill Bit #40 (3/32 in/2.5 mm)	(1)
4		Tube Ring	(1)
		a. Tube Ring Seal *†	(1)
5		Roof Flashing (4 in (100 mm)*†, 8 in (200 mm)*†, 11 in (280 mm)*† or Curb Cap))	(1)
		a. Flashing Screws - #10 X 2 in (50 mm)	(21)
6		Spectralight® Infinity Tubes	
		a. Top Tube with Angle Adapter	(1)
		b. Bottom Tube with Angle Adapter	(1)
7		Tube Fastener Kit	(1)
		a. Tube Screws - #8 X 9/16 in (14 mm)	(10)
		b. 2 in (50 mm) Foil Tape - 18 ft (5.5 m)	(2)
8		Spectralight® Infinity Tubes	
		a. 24 in (610 mm) Extension Tube (optional) with Tube Fastener Kit	(1)
		b. 48 in (1220 mm) Extension Tube (optional) with Tube Fastener Kit	(1)
9		Transition Box	(1)
		a. Natural Effect Lens (Optional)	(1)
		b. Transition Box Hold Down Clip	(4)
		c. Drill Tip Screw - #6 X 1 5/8 in (40 mm) (For Hard Ceiling Application Only)	(4)
		d. Drill Tip Screw - #8 X 5/8 in (16 mm)	(2)
10		Diffuser	(1)

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

*†Required for High Velocity Hurricane Zone (HVHZ) areas.

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

✋ 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 the system could cause personal injury and property damage. If the product is damaged, the structural capacity may be weakened; therefore the system should be repaired immediately. For safe installation and use, do not deviate from these installation instructions.
- 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

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

⚠️ **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.
- Uninstalled product that is stored and exposed to excessive heat and or humidity can experience damage. Store product prior to installation in a cool dry place.

⚠️ **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.

⚠️ **Light Add-On Kit Installation Tips**

- This product is to be installed by qualified electricians only. Disconnect power before installation.
- "FOR USE IN NON-FIRE-RATED INSTALLATIONS ONLY."
- Thermally protected "TYPE IC" (insulation may contact housing).
- "ACCESS ABOVE CEILING REQUIRED."
- "SUITABLE FOR DAMP LOCATIONS." Use only as a component of Solatube Daylighting System products.
- "MIN. 60°C SUPPLY CONDUCTORS."
- Intended for installation with ½ in (12.7mm) minimum spacing from the fixture to cavity surfaces (side wall and overhead building member) and 1 in (25.4mm) minimum spacing to adjacent fixtures.
- Blinking light may indicate improper lamp wattage or type, or insulation is too close to fixture, or other condition causing overheating.

Caution
- Risk of fire and electrical shock. Most dwellings built before 1985 have supply wire rated 60° C.
- To reduce the risk of fire, use only:
  - Fluorescent Lamps, Medium Base - 23 Watt Maximum, Maximum Overall Length (MOL) 4 3/4 in (120 mm)
  - Compact Fluorescent (4 Pin Quad Tube) 26 Watt only
- Minimum thickness of metal tubing is 0.018 in (0.47mm)

⚠️ **Ventilation Add-On Kit Installation Tips**
See Ventilation Add-On Kit installation instructions for tips.

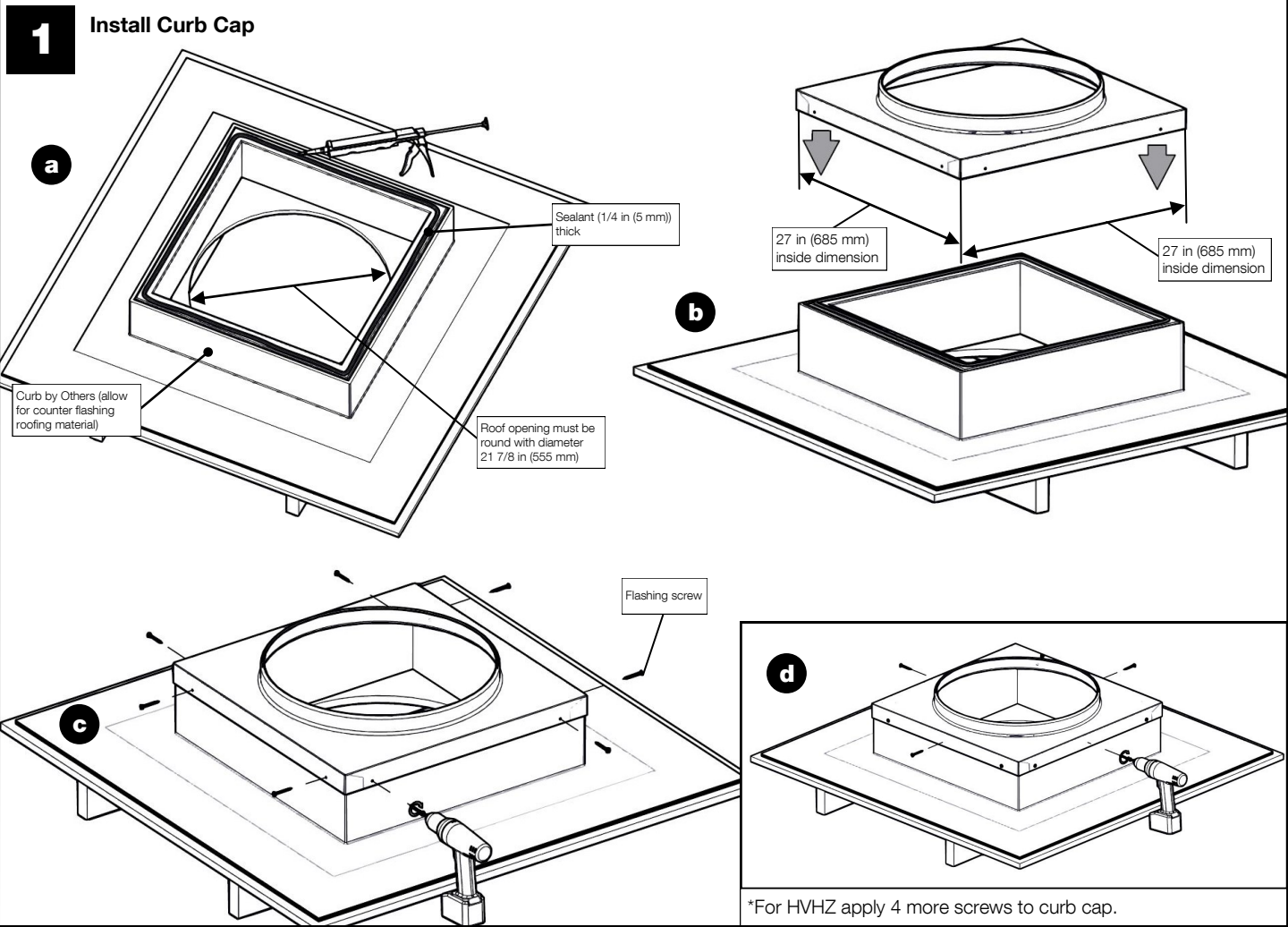⚠️ **Solar Star Attic Ventilation Installation Tips**

- Keep Solar Star solar panels covered until product is mounted and sealed to roof. Cover solar panel whenever motor, fan, or unit is to be serviced. Fan blade is controlled by the solar panel and may become operational when panel is exposed to sunlight.
- Solar Star products are designed for general ventilation purposes only. Do not exhaust any hazardous materials or gases such as flammable, explosive or incendiary materials.
- Solar Star products have an unguarded fan blade. Do not use Solar Star products in areas that are easily accessible.

Caution
- Carbon monoxide may be drawn into a house or attic space with the operation of Solar Star products if fuel-burning equipment is not serviced or monitored regularly. Carbon monoxide (CO) is a colorless, odorless gas that can be hazardous to your health and may cause death. Fuel-burning equipment must have proper ventilation, Solar Star products are not designed to provide ventilation for fuel-burning products.
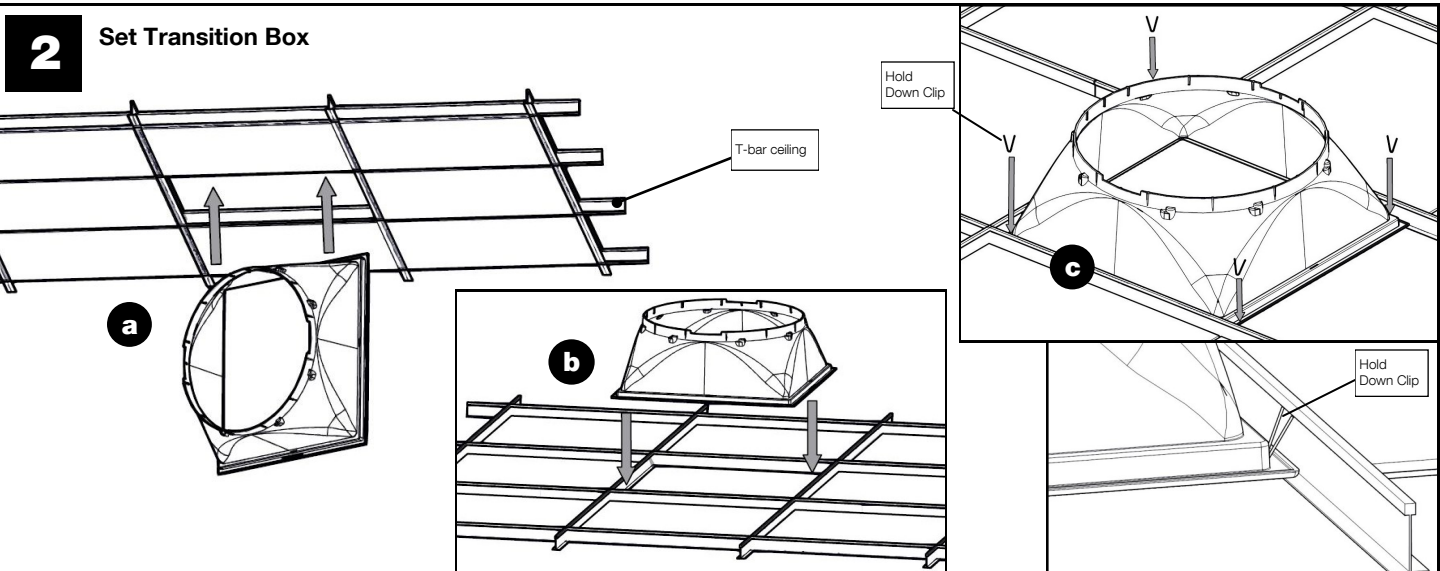
For the most current Installation Instructions, please visit www.solatube.com/instructions

Curb Cap Installation Instructions

1 Install Curb Cap

a

Sealant (1/4 in (5 mm)) thick

Curb by Others (allow for counter flashing roofing material)

Roof opening must be round with diameter 21 7/8 in (555 mm)

b

27 in (685 mm) inside dimension

27 in (685 mm) inside dimension

Flashing screw

c

d

*For HVHZ apply 4 more screws to curb cap.

Go to Page 10 for Open Ceiling instructions.

Closed Ceiling Installation Instructions

2 Set Transition Box

T-bar ceiling

a

b

c

Hold Down Clip

Hold Down Clip

3 **Install Top and Bottom Tube Angle Adapters; Measure Tube Run**
Tube ring can be installed on Top Tube with Angle Adapter or an Extension tube
(see step 5).

Align tabs on Tube
Ring with notches on
Angle Adapter.

Foil tape

c

b

a

Bottom
Tube Angle
Adapter

e

Remove Protective Liner from
Bottom Tube

d

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

f

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

Tube length
measurements
should be equal.
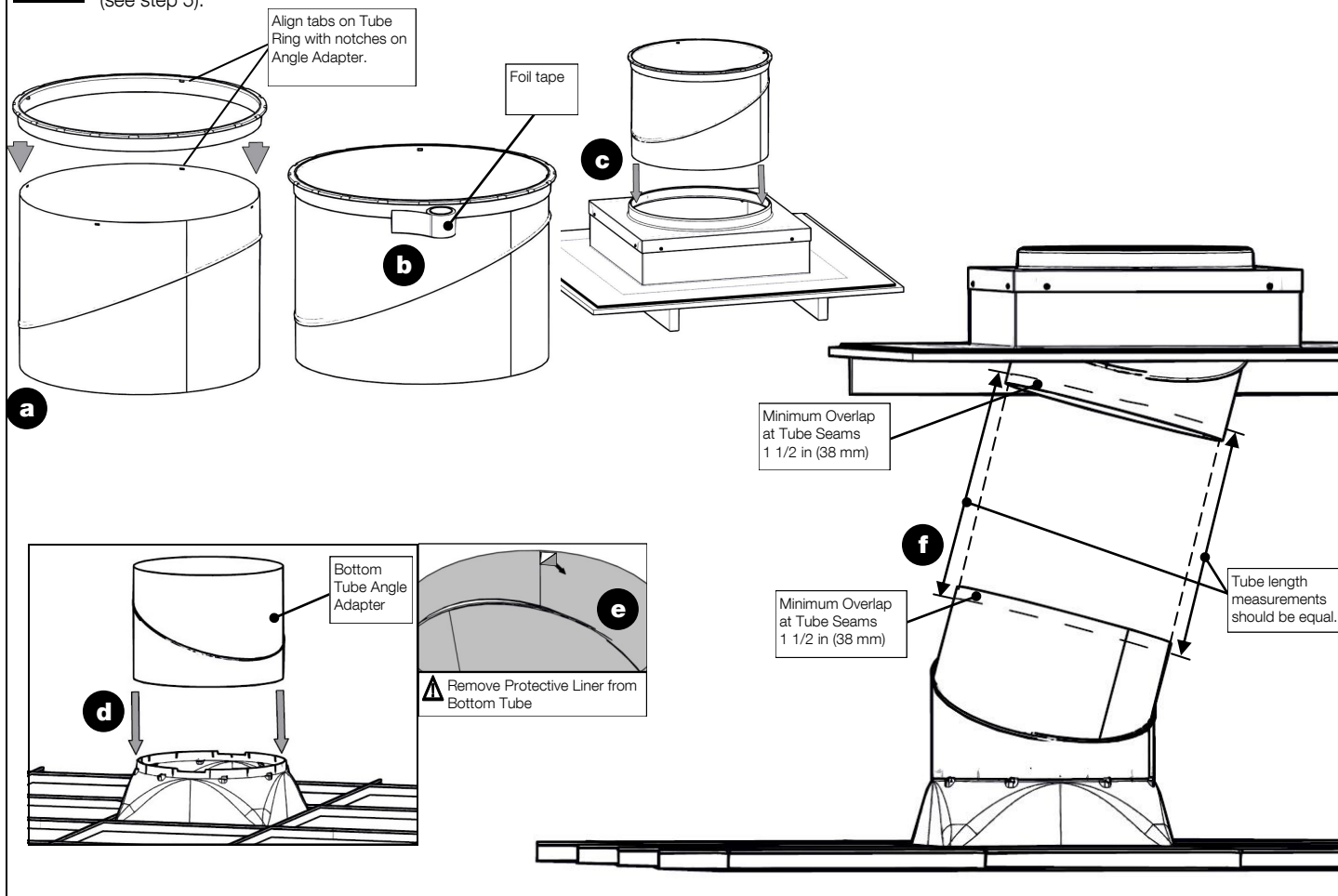
4 **Option 1: Assemble 24 in (610 mm) Extension Tube**
Use notches to create tapered tube.

Apply pressure to
tape for proper
bonding

⚠ Remove
Protective Liner

a

b

c

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Part No. 950160 v2.3
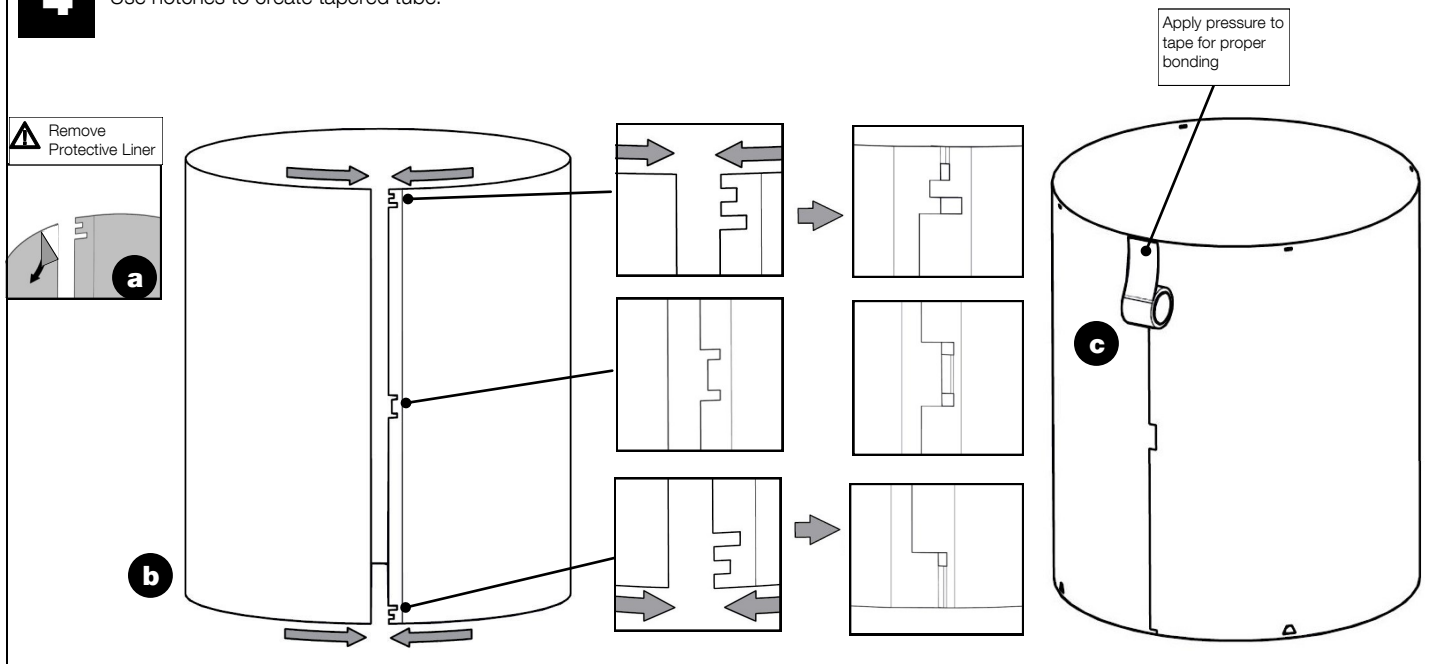
4 **Option 2: Assemble 48 in (1220 mm) Extension Tube**
Use slots to create tapered tube.

⚠ Remove
Protective Liner

a

b

Apply pressure to
tape for proper
bonding

c

d

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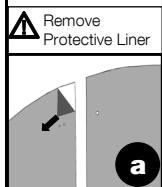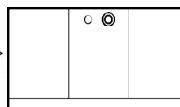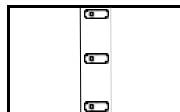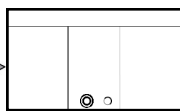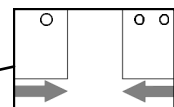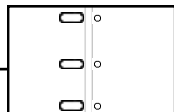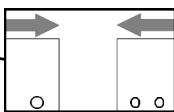
5 **Assemble and Install Tube Run**
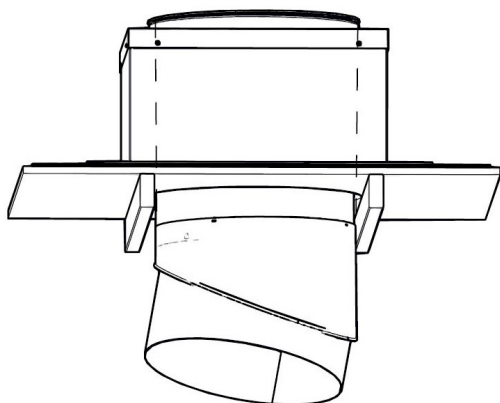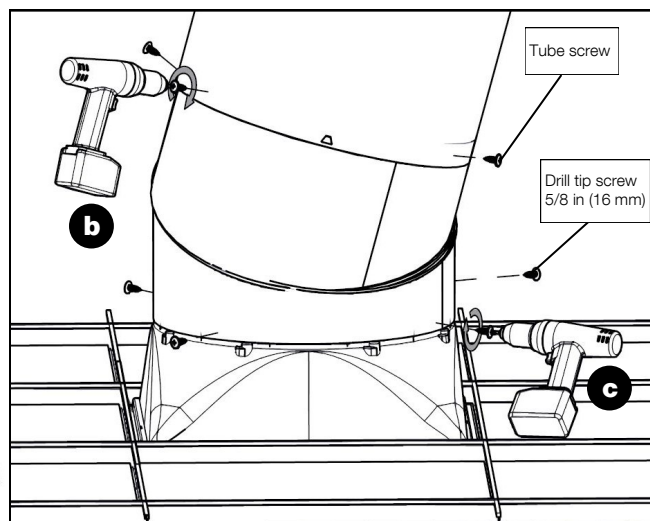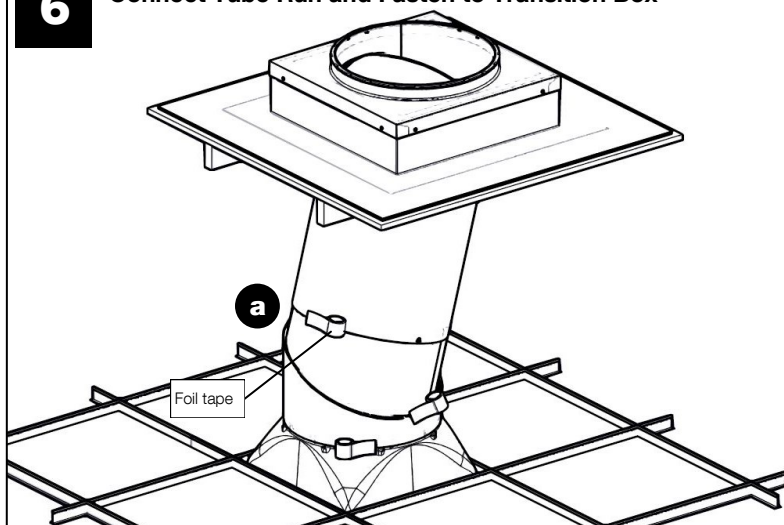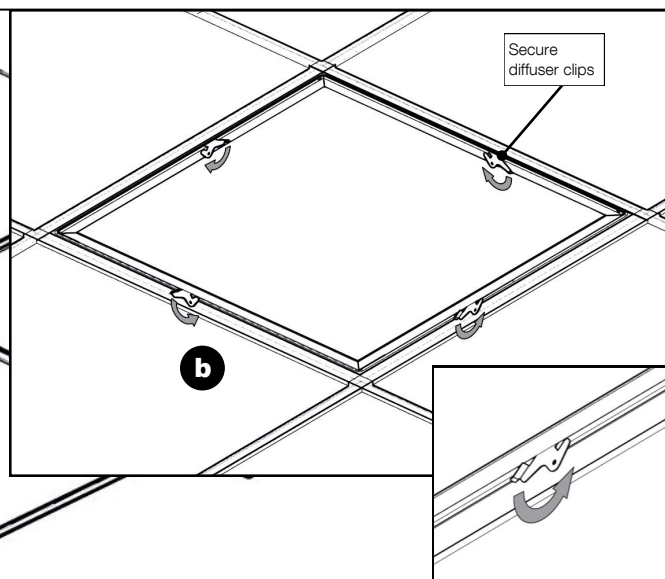
a

Foil tape

b

Tube screw

c

Alternative Tube Run   For curb heights or obstructing structural members that require an Extension Tube as
the Top Tube, use configuration below:

a

Extension Tube

b

Top Tube Angle
Adapter

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

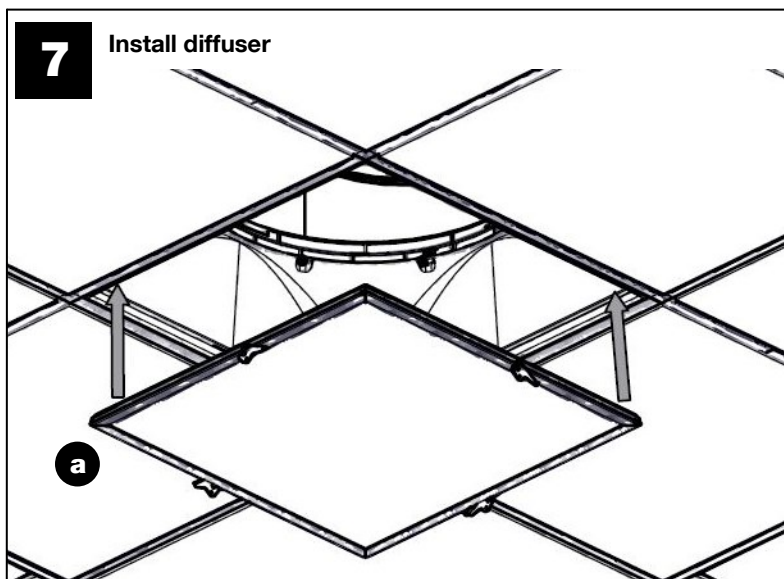**Solatube International, Inc.** | 2210 Oak Ridge Way | Vista, CA 92081-8341 | www.solatube.com | T: 888.SOLATUBE

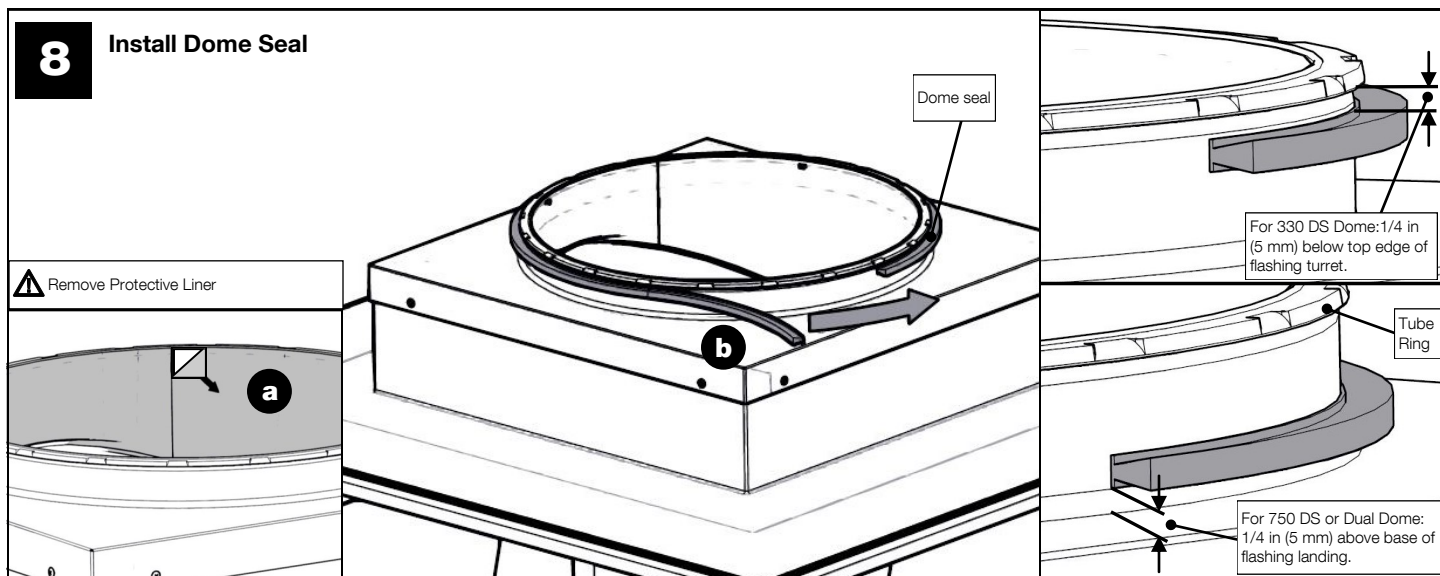**7**

6 Connect Tube Run and Fasten to Transition Box

a

Foil tape

b

Tube screw

Drill tip screw
5/8 in (16 mm)

c

7 Install diffuser

a

b

Secure
diffuser clips

8 Install Dome Seal

Dome seal

⚠ Remove Protective Liner

a

b

For 330 DS Dome: 1/4 in
(5 mm) below top edge of
flashing turret.

Tube
Ring

For 750 DS or Dual Dome:
1/4 in (5 mm) above base of
flashing landing.

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

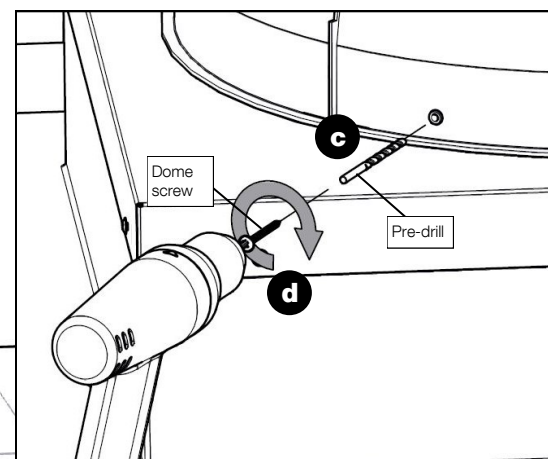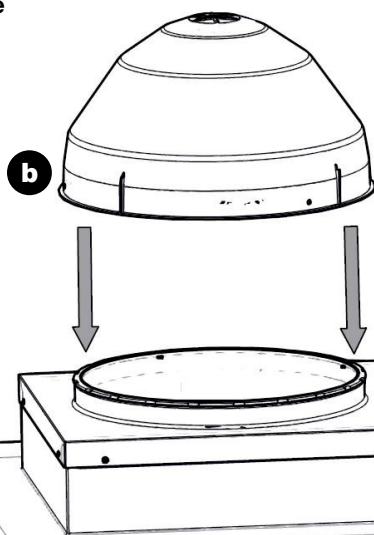8   **Solatube International, Inc.** | 2210 Oak Ridge Way | Vista, CA 92081-8341 | www.solatube.com | T: 888.SOLATUBE
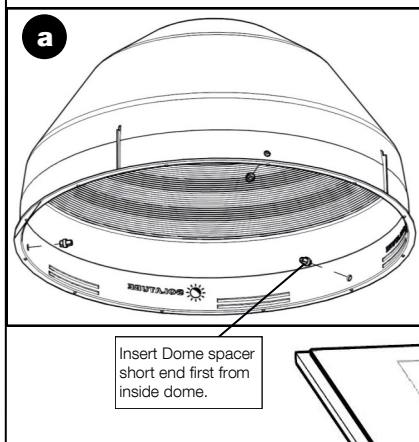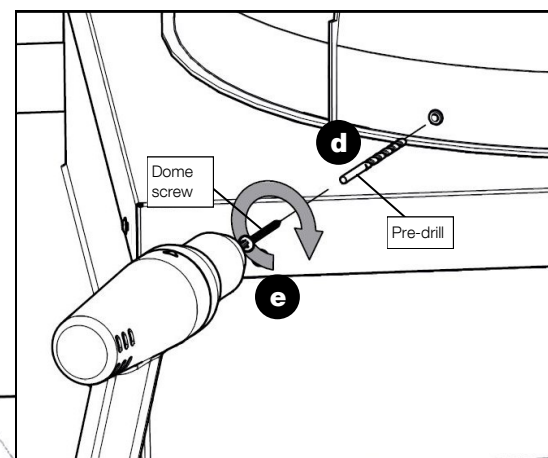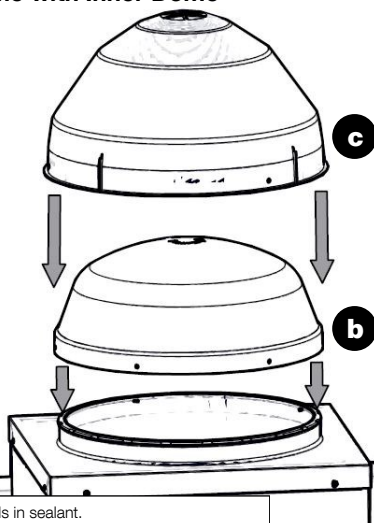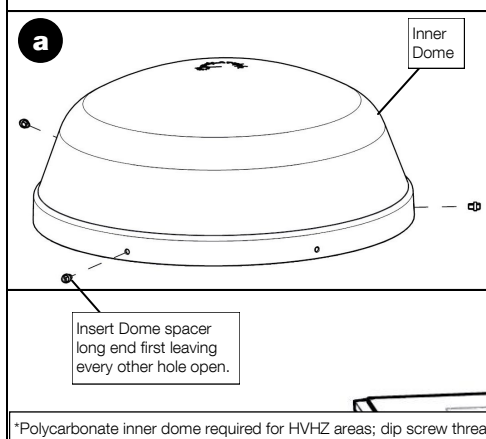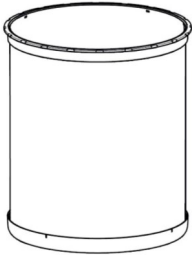
9 **Option 1: Install 330 DS dome**
Reflective side of LightTracker™ Reflector faces South in Northern Hemisphere (North in Southern Hemisphere).

a LightTracker™ Reflector tabs fit between Top Tube and Tube Ring.

b

c Insert dome spacer long end first.

d Pre-drill

e Dome screw

⚠ Insert dome screws and spacers evenly leaving every other hole open.

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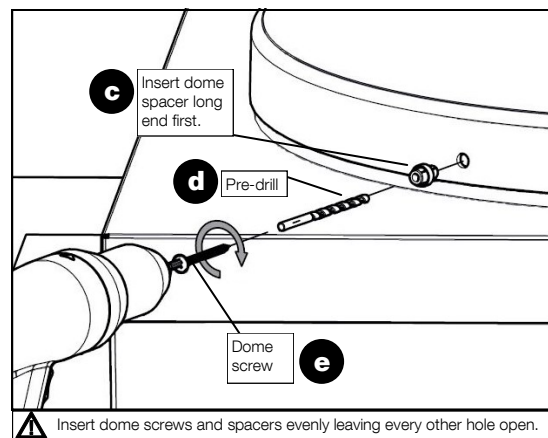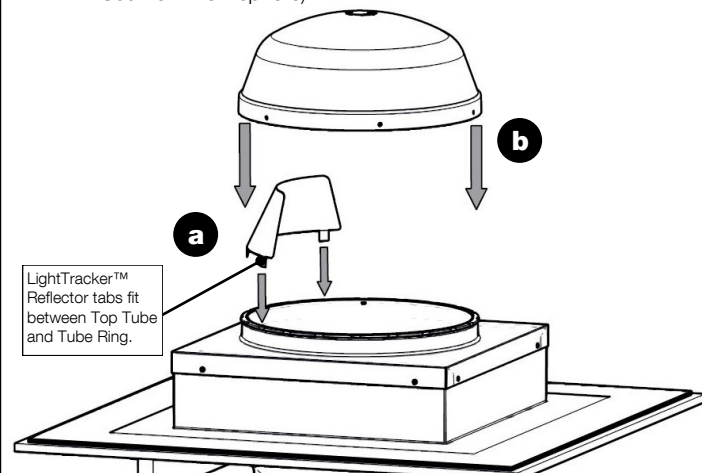
9 **Option 2: Install 750 DS Dome**

a Insert Dome spacer short end first from inside dome.

b

c

Dome screw

Pre-drill

d

---

9 **Option 3: Install 750 DS Outer Dome with Inner Dome***

a Inner Dome

Insert Dome spacer long end first leaving every other hole open.

c

b

d Dome screw   Pre-drill

e

*Polycarbonate inner dome required for HVHZ areas; dip screw threads in sealant.

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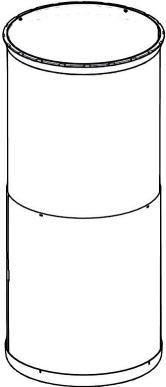
9

Open Ceiling Installation Instructions

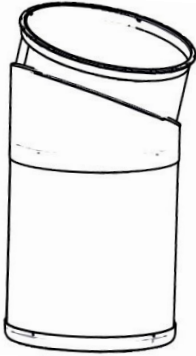## 10 — Determine Tube Configuration

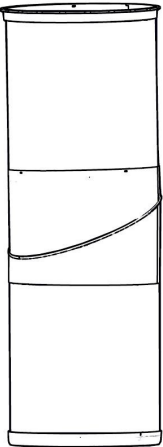Option 1:
Single Extension Tube

Option 2:
Additional length

Option 3:
For pitched roofs

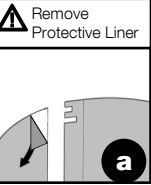Option 4:
For tall curb heights
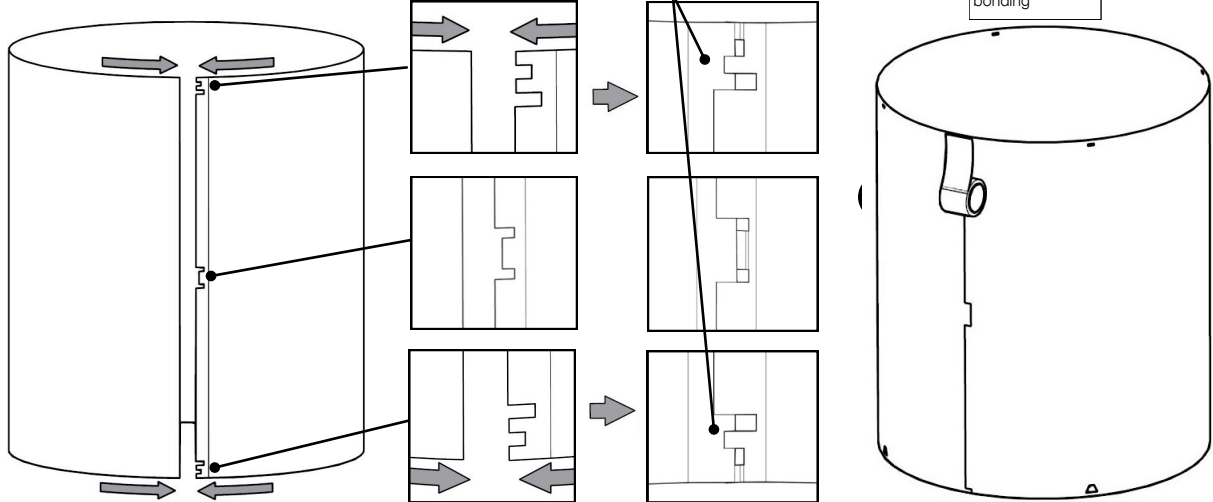
11 — Option 1: Assemble 24 in (610 mm) Extension Tube

⚠ Remove Protective Liner

a

b

Assemble parallel tube for open ceiling configurations

Apply pressure to tape for proper bonding

11 — Option 2: Assemble 48 in (1220 mm) Extension Tube

⚠ Remove Protective Liner

a

b

Assemble parallel tube for open ceiling configurations

Apply pressure to tape for proper bonding

c

d

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

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12 Install Tube Ring and Diffuser

Install top edge of diffuser seal along traced line.

c

Foil tape

a

b

Align diffuser tab with tube notches.

d
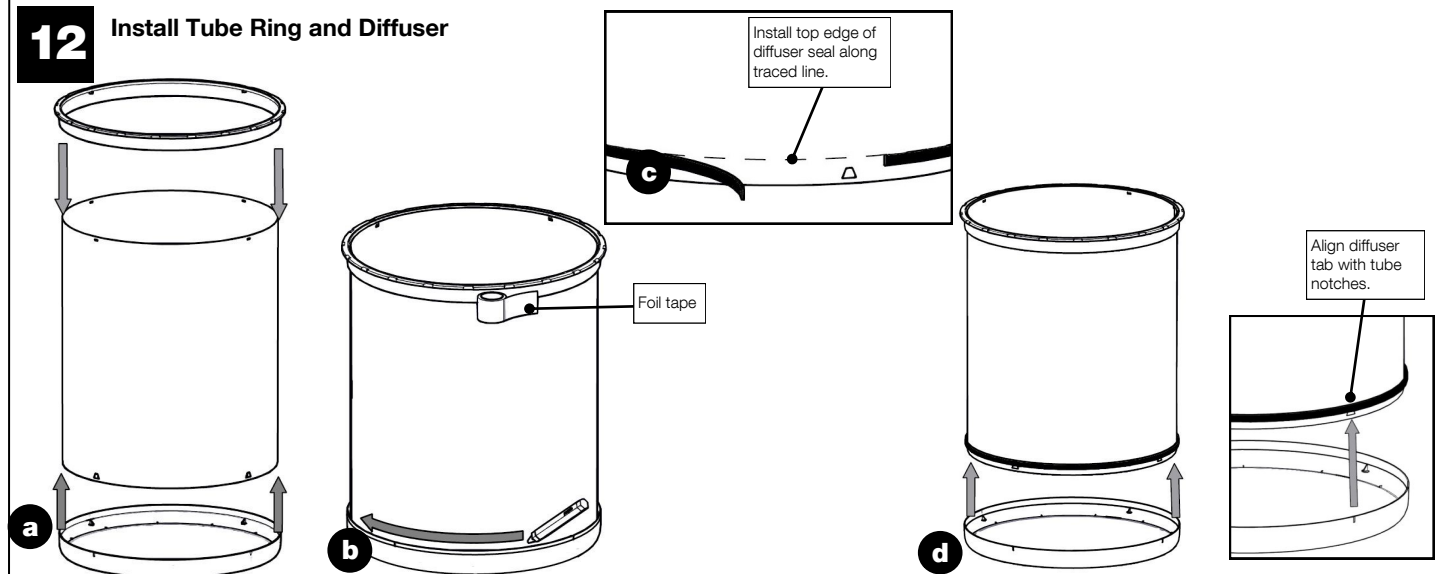
13 Apply Tube Ring Seal and Install Tube Run

Tube ring seal for open ceiling only
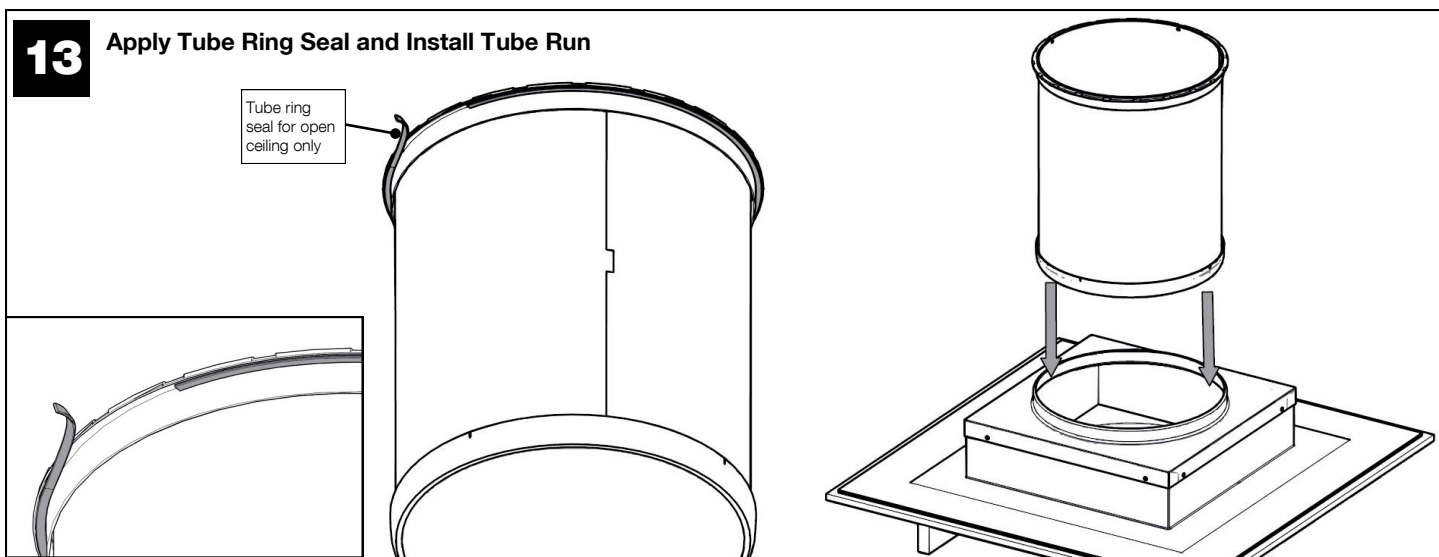
Return to step 8 to complete Open Ceiling instructions.

14 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.

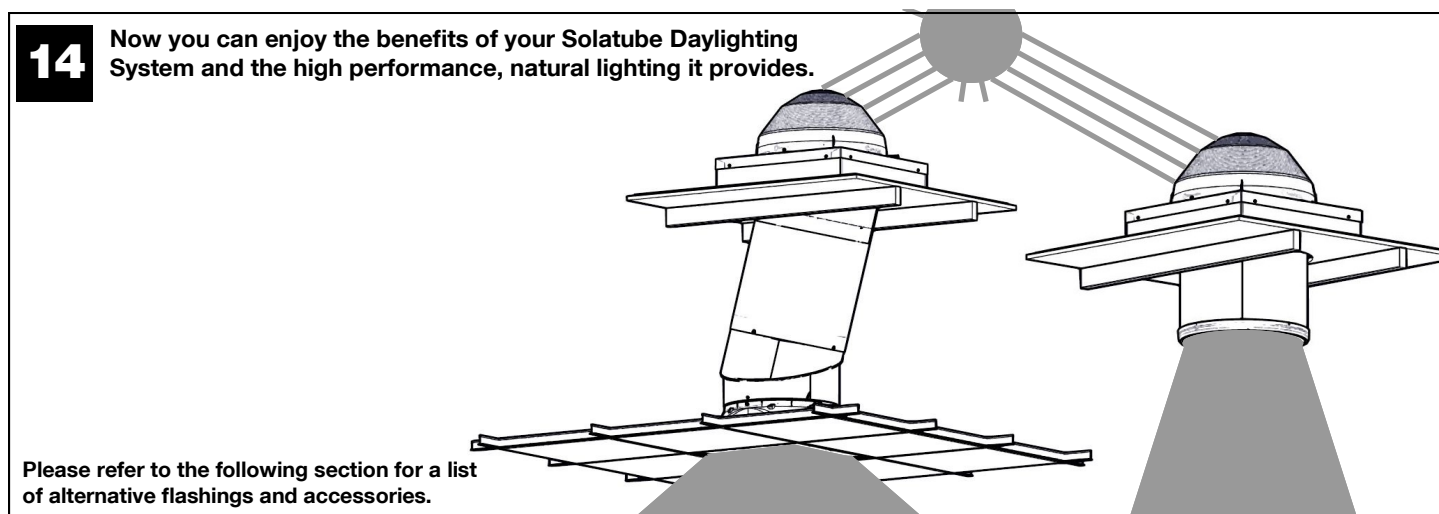**Not all items shown in the following pages are available for all markets. Installation techniques shown may vary by region; please consult local building codes and Solatube International Representatives for guidelines.**

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

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11

Curb Cap Flashing Insulation
Installation Instructions Appendix

Parts List	Quantity
1 330 DS / 750 DS 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**

Apply matte side of insulation to Curb Cap surface.

3 **Apply Foil Tape to Seams**

a

b

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

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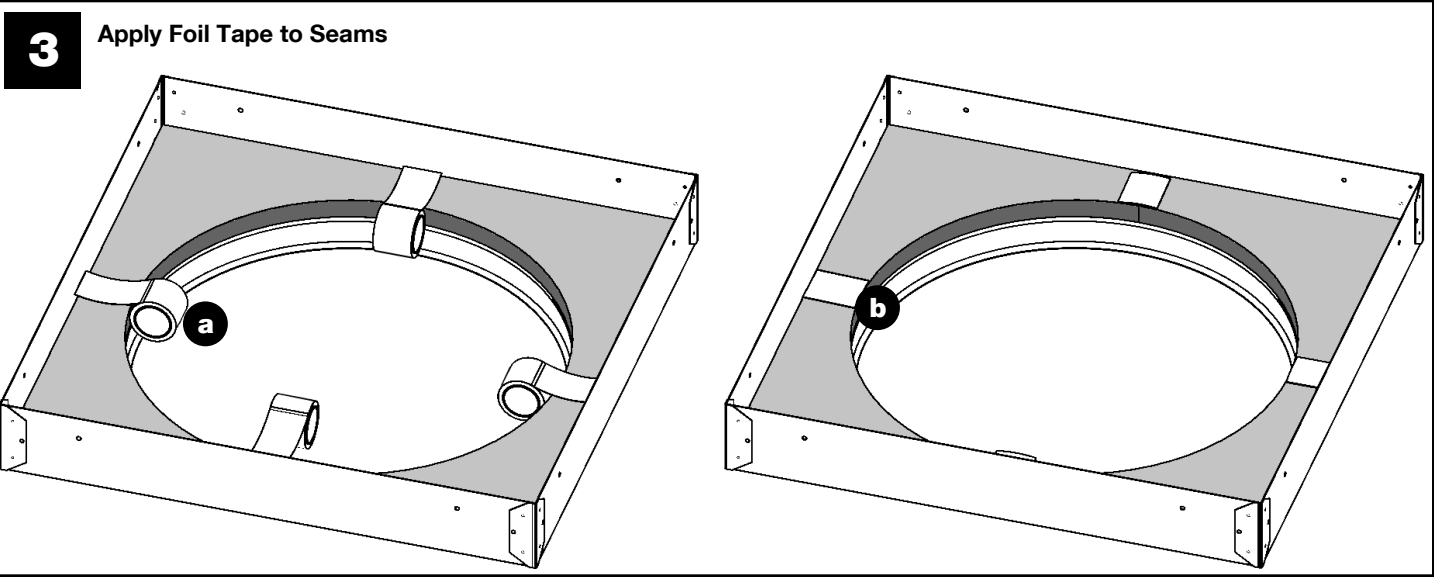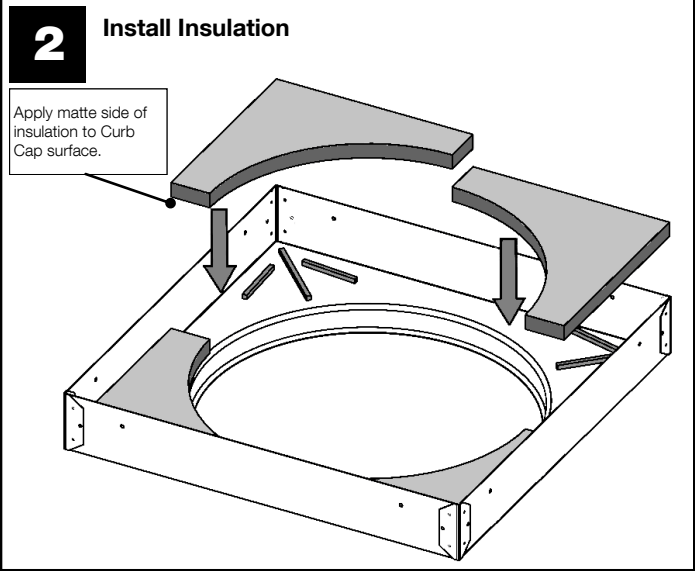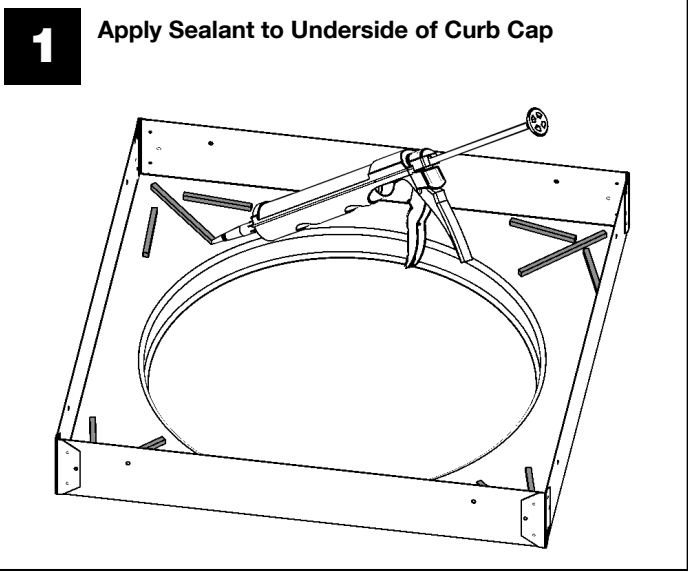
Self-Flashing Installation Instructions Appendix

Parts List		Quantity
1	Self-Flashing (4 in (100 mm), 8 in (200 mm), 11 in (280 mm))	(1)
2	Flashing Screws - #10 X 2 in (50 mm)	(21)

Additional Materials and Tools		Quantity
1	Roof Sealant	(3)
2	Straight Edge	(1)
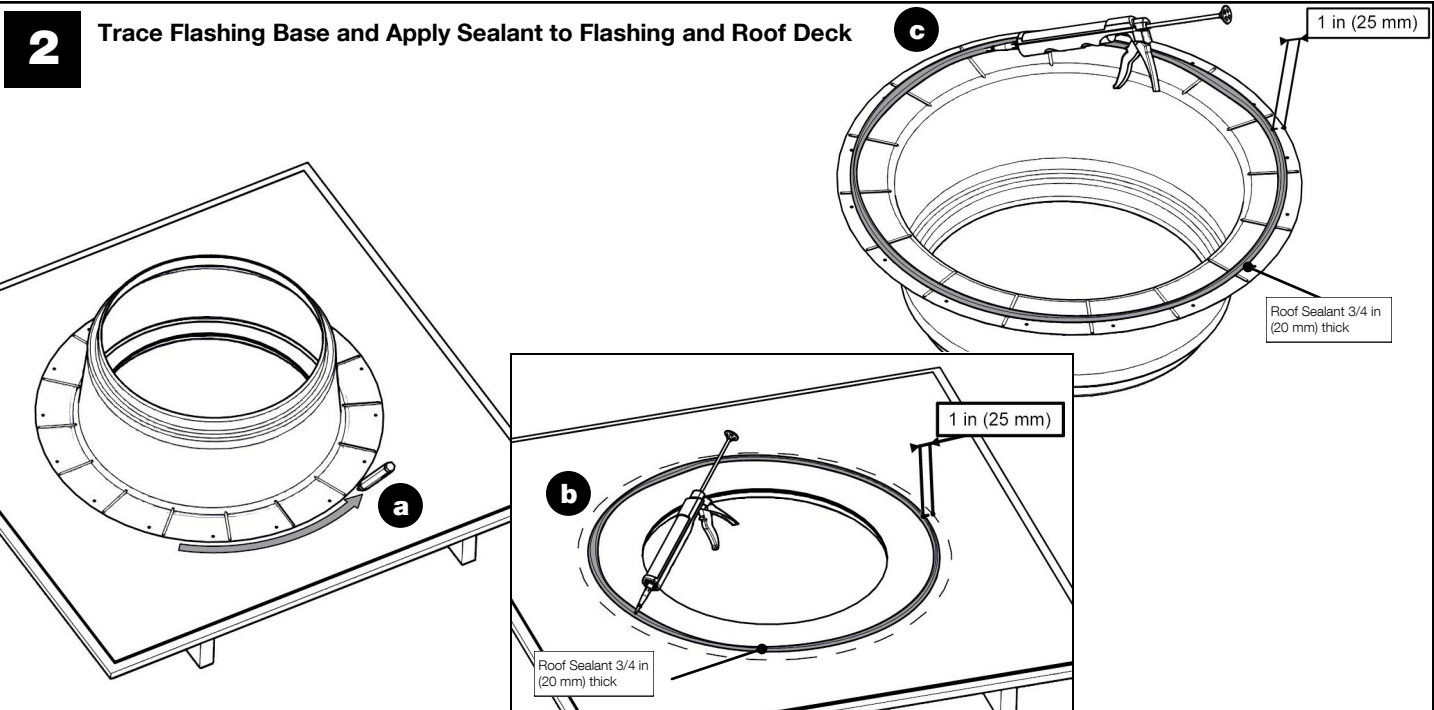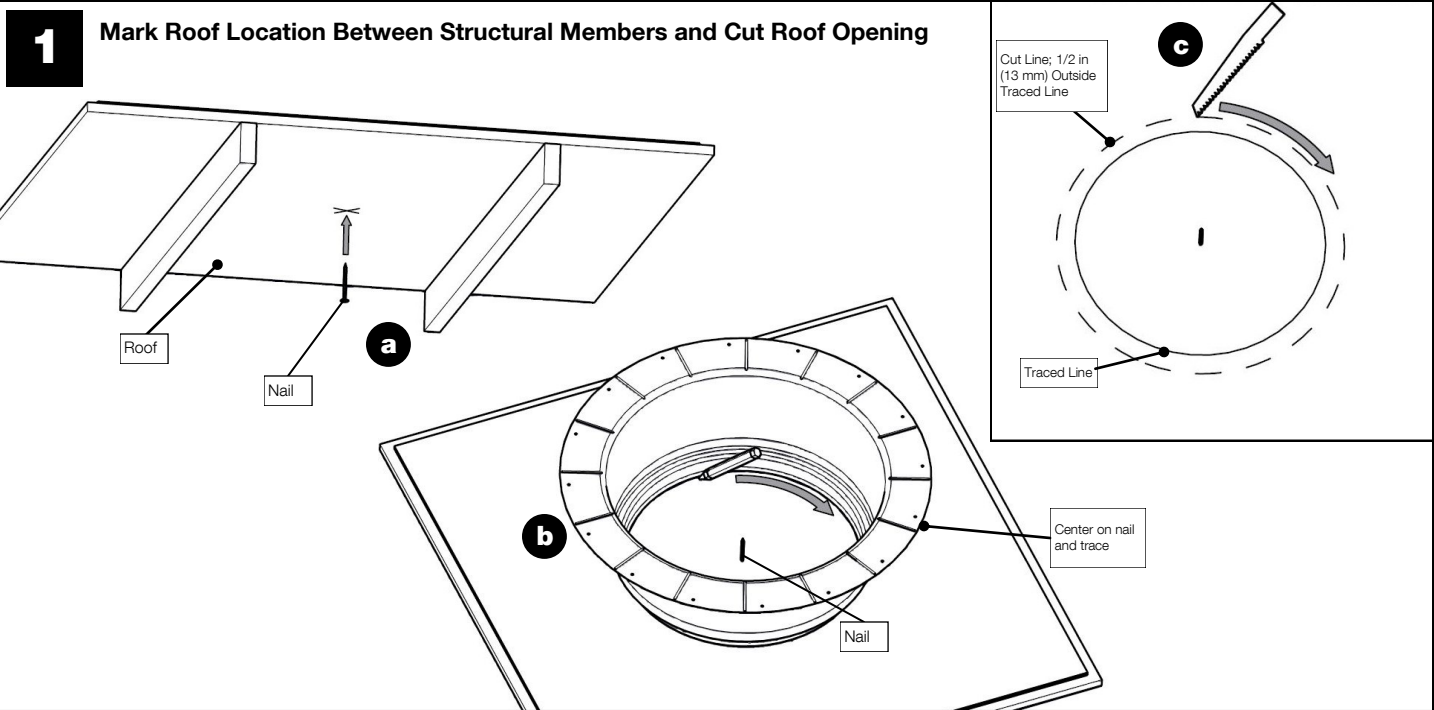
1 Mark Roof Location Between Structural Members and Cut Roof Opening

Cut Line; 1/2 in (13 mm) Outside Traced Line

Traced Line

Roof

Nail

a

c

b

Center on nail and trace

Nail

2 Trace Flashing Base and Apply Sealant to Flashing and Roof Deck

c

1 in (25 mm)

Roof Sealant 3/4 in (20 mm) thick

a

b

1 in (25 mm)

Roof Sealant 3/4 in (20 mm) thick

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3   **Fasten Flashing to Roof.***   **Apply Sealant and Spread Evenly Using Straight Edge.**

Flashing screw

Straight edge

Roof Sealant 3/4 in (20 mm) thick

*For HVHZ increase flashing screws to 21.
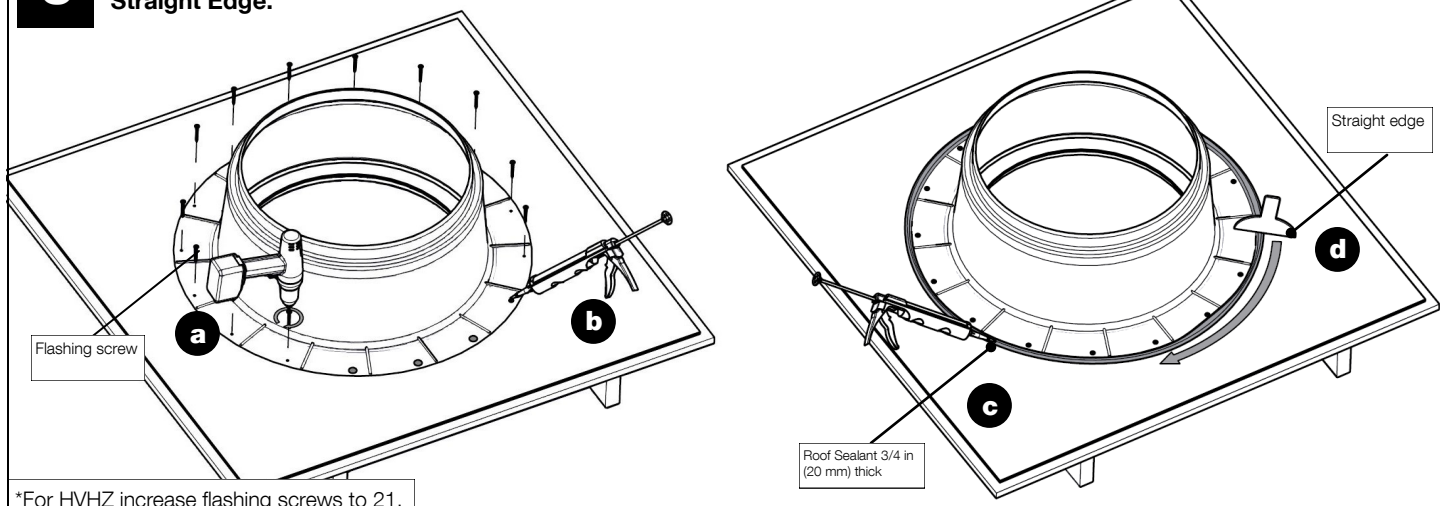
Round Concrete Curb Cap   Installation Instructions Appendix

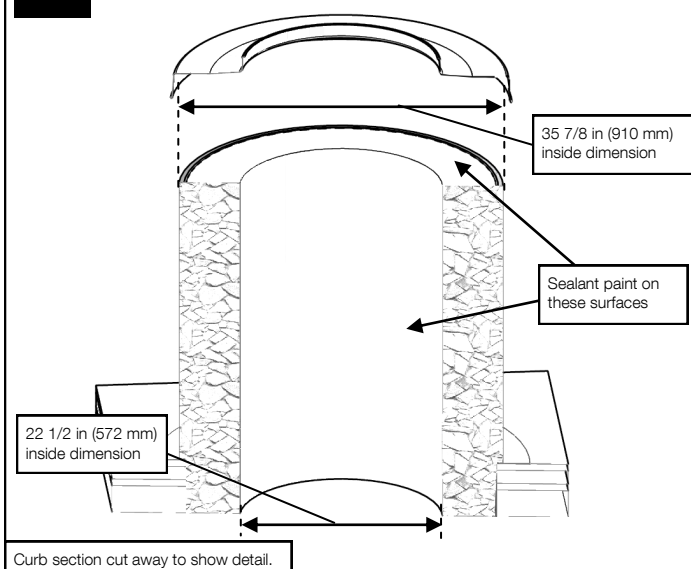| Parts List	Quantity
1 Round Curb Cap	(1)
2 Concrete Screw 3/16 in x 2 3/4 in (5 mm x 70 mm) Hex	(8)
3 Concrete Drill Bit 5/32 in x 3 1/2 in (4 mm x 89 mm)	(1)

Additional Materials and Tools	Quantity
2 Sealant Paint (Not Provided)	

1   **Apply Sealant Paint to the inside Walls and Top Sections of Concrete Curb**

35 7/8 in (910 mm) inside dimension

Sealant paint on these surfaces

22 1/2 in (572 mm) inside dimension

Curb section cut away to show detail.

2   **Mark Fastening Holes**

Pencil

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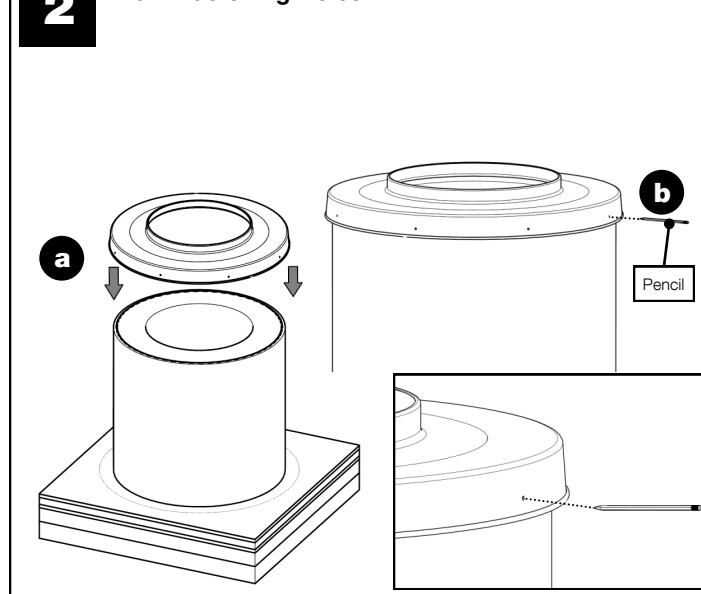
3 Pre-Drill Fastening Holes
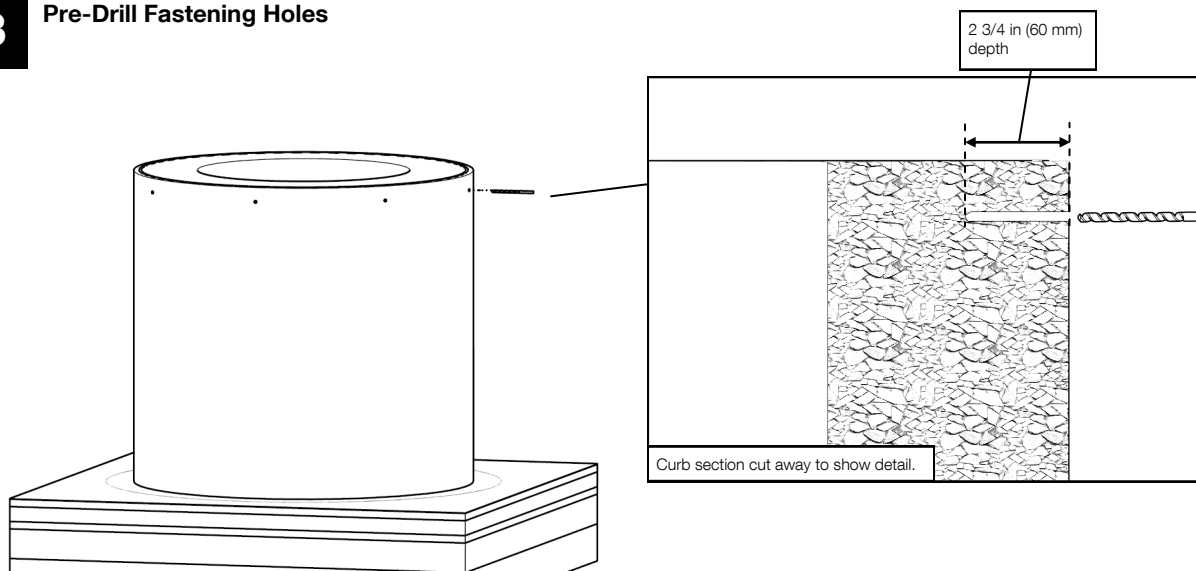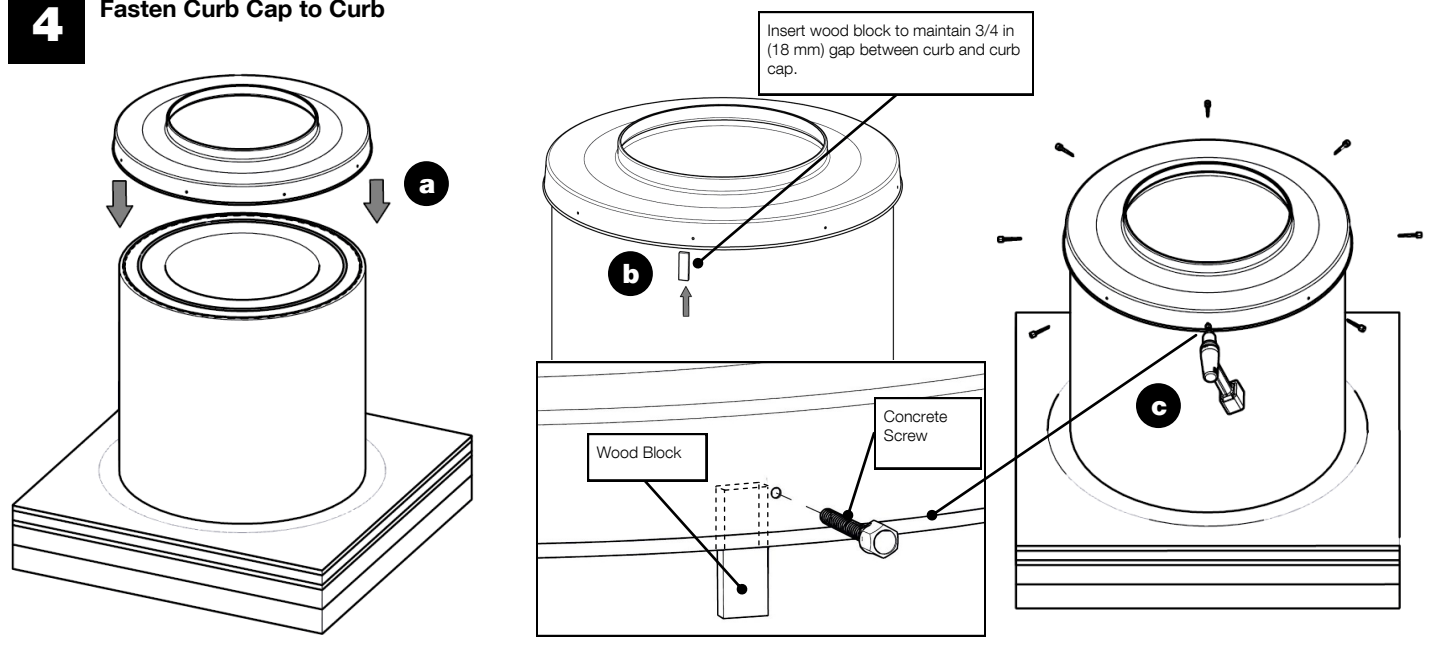
2 3/4 in (60 mm) depth

Curb section cut away to show detail.

4 Fasten Curb Cap to Curb

Insert wood block to maintain 3/4 in (18 mm) gap between curb and curb cap.

a

b

c

Wood Block

Concrete Screw

Turret Extension Installation Instructions Appendix

Parts List		Quantity
1	Turret Extension 12 in (300 mm), 24 in (600 mm), 36 in (900 mm), or 48 in (1200 m)	(1)
2	1/4 in (6 mm) screws*	(4)

* 3/4 in (20 mm) screws for 48 in (1200 mm) Turret Extension Only

Additional Materials and Tools		Quantity
1	Roof Sealant	(1)

1 Apply Sealant to Flashing and Inside of Turret Extension

2 Align Turret Extension with Flashing and Fasten

1/4 in (6 mm) Screw

Install turret extension bracket kit if installing 750 DS dome.
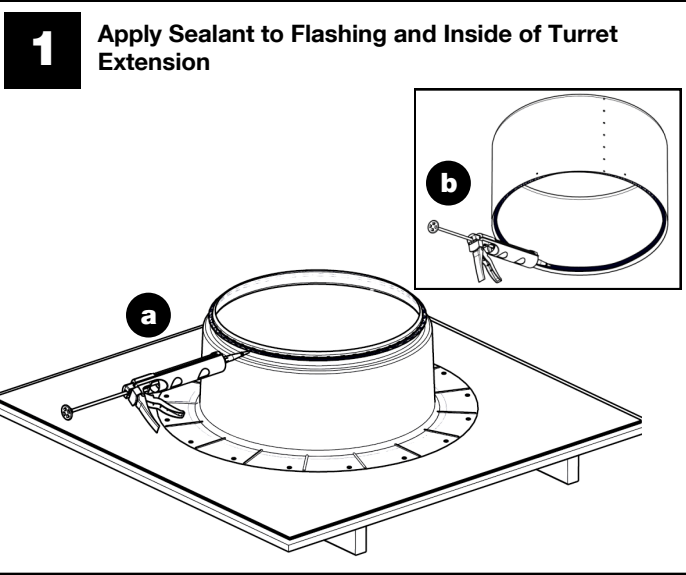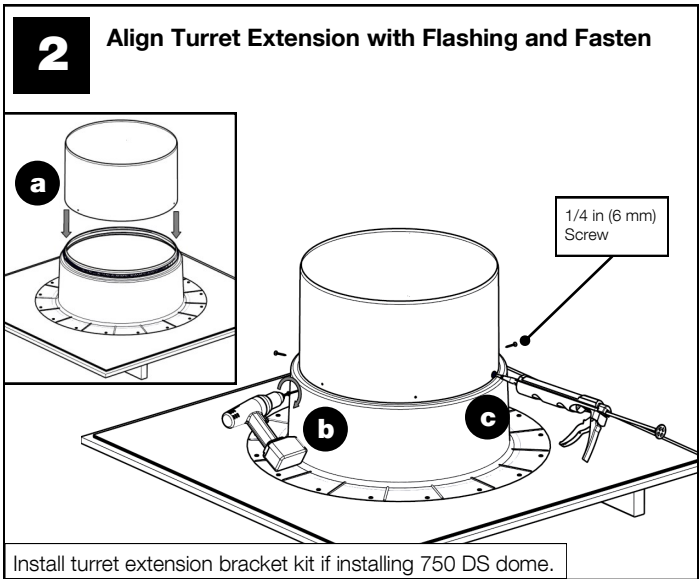
0-90 Degree Extension Tube Installation Instructions Appendix

Parts List		Quantity
1	Top Tube Angle Adaptor	(1)
2	Inner Angle Adaptor	(1)
3	Tube Screws - #8 X 9/16 in (14 mm)	(8)
4	Foil Tape - 2 in (51 mm) X 6 ft (2 m)	(2)

Additional Materials and Tools		Quantity
1	None	

1 Assemble 0-90 Degree Angle Adaptor

Top Tube Angle Adaptor

Tube Screw

Minimum overlap at tube seams 1 1/2 in (38 mm)

Adjust Angle

Inner Angle Adaptor

Foil Tape

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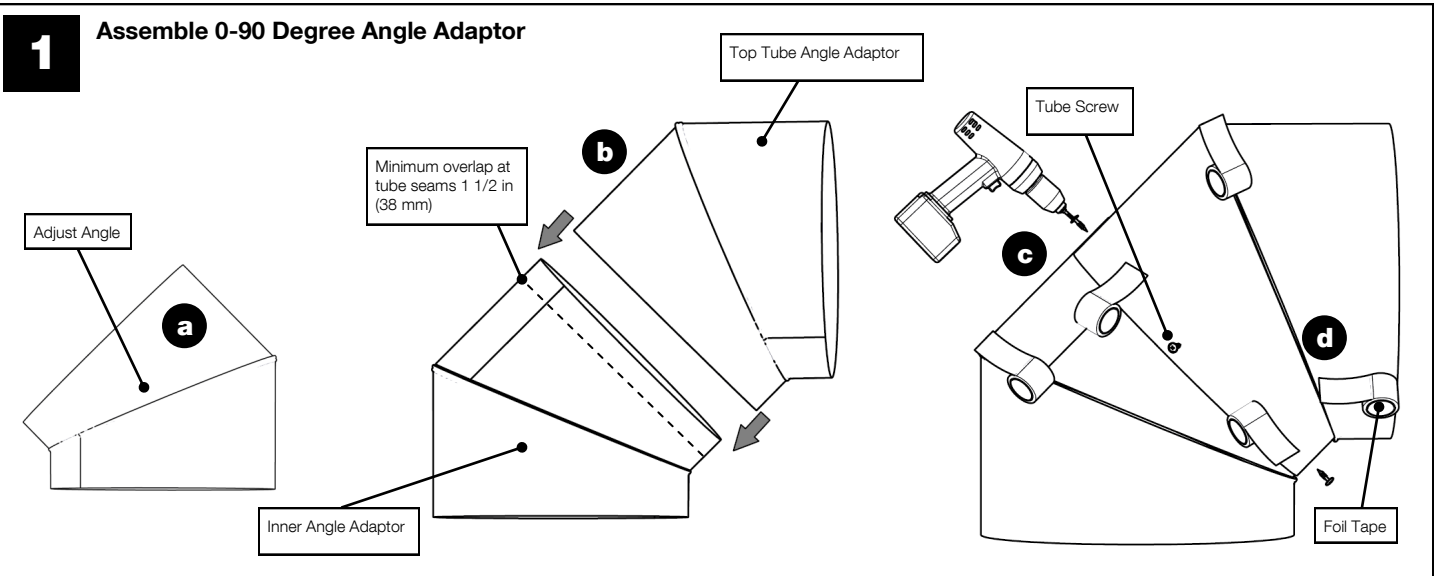
Dome Edge Protection Band Installation Instructions Appendix

Parts List	Quantity
1 Dome Edge Protection Band	(1)
2 Dome Edge Protection Band Tab	(3)

Additional Materials and Tools	Quantity
1 None	

1 Option 1: 330 DS Dome

Install Dome Edge Protection Band over dome spacers.

Dome Screw

Insert dome spacer long end first.

a   b   c

1 Option 2: 750 DS Dome

Bend tabs up.

Install Dome Edge Protection Band Tabs.

Dome screw

Install Dome Edge Protection Band over tabs.

a   b   c

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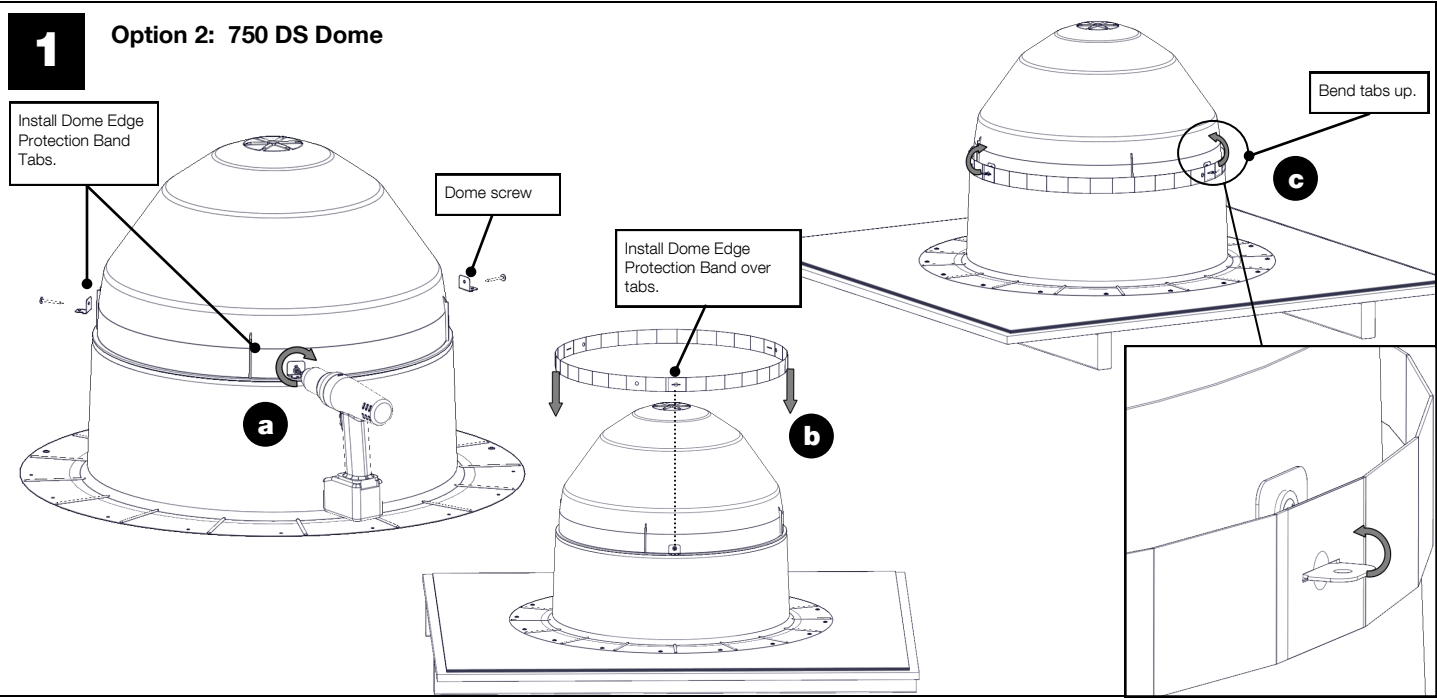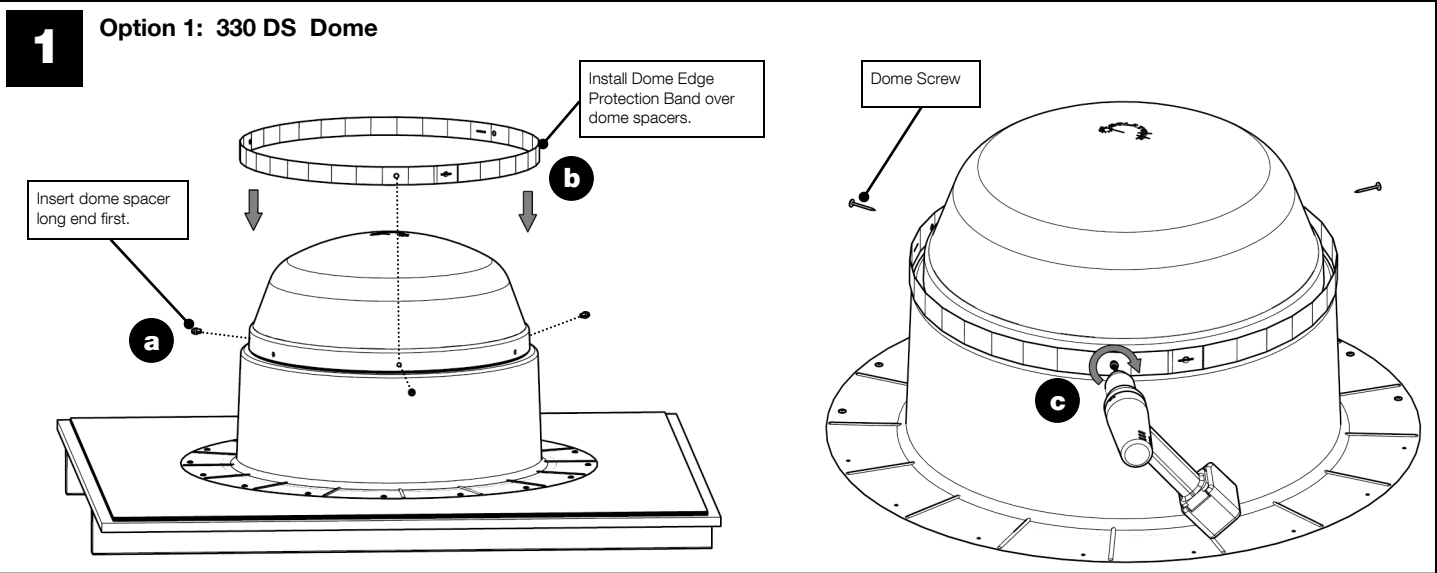
Hard Ceiling Installation Instructions Appendix

Parts List		Quantity
1	Transition Box	(1)
2	Drill Tip Screw 1 5/8 in (40 mm)	(4)

Additional Materials and Tools		Quantity
1	Wood Blocking	(2)
2	Shims	(4)

1 **Mark Ceiling Location Between Joists and Cut Ceiling Hole.**

22 7/8 in x22 7/8 in (560 mm x560 mm)

2 **Insert Blocking and Shims**
Add blocking to open ends and shim sides to measure 21 3/4 in x 21 3/4 in (555 mm x 555 mm).

Shims

Blocking

21 3/4 in x21 3/4 in (550 mm x550 mm)

Joist

3 **Install Transition Box**

Ceiling

Insert drill tip screw through shim.

Transition Box

a

b

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Part No. 950160 v2.3

Suspension Wire Kit **Installation Instructions Appendix**
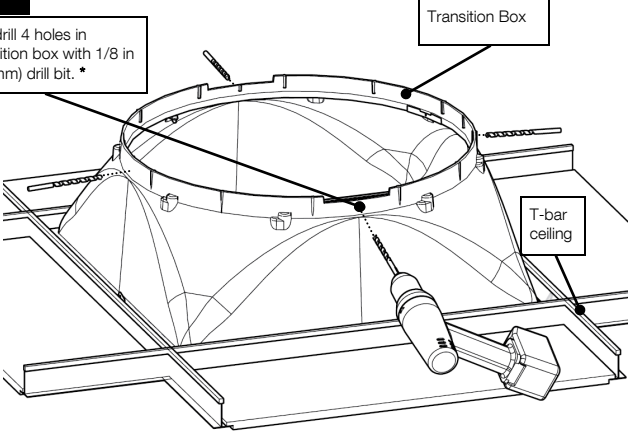
Parts List		Quantity
1	16 Gauge Galvanized Wire 50 ft (15.25 m)	(1)
2	Anchor Bolts	(4)
3	Eye Bolt #8 1/8 in (25 mm) with Nut and (2) Washer	(4)

Additional Materials and Tools		Quantity
1	Drill Bit 1/8 in (3 mm)	(1)

1 Pre Drill Transition Box
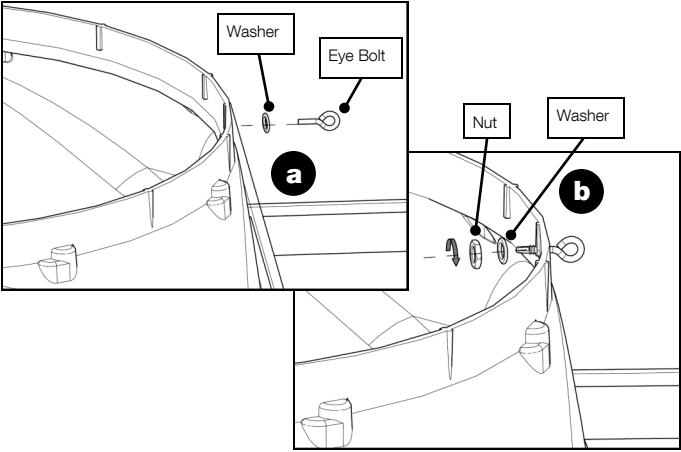
Pre drill 4 holes in transition box with 1/8 in (25 mm) drill bit. *

Transition Box

T-bar ceiling

* Position holes to allow for natural effect lens.
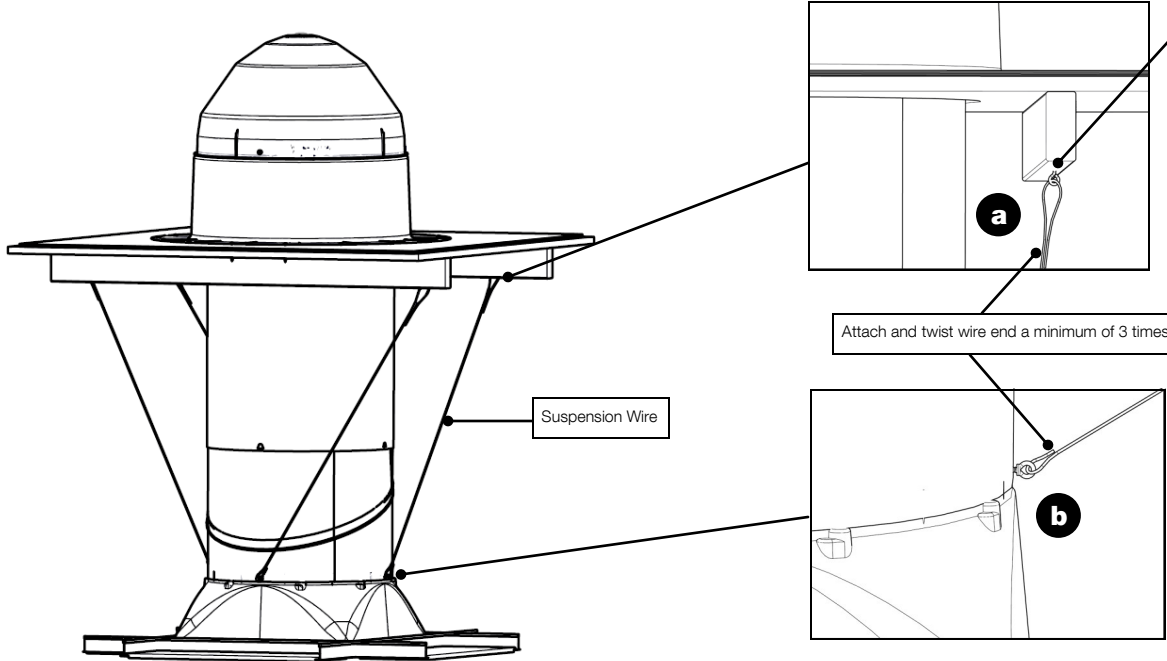* Bottom tube removed to show detail. Drill holes with bottom tube installed.

2 Install Eye Bolts

Washer

Eye Bolt

Nut

Washer

a

b

3 Attach Anchor Bolts and Install Suspension Wire

Attach anchor bolts to roof framing member and attach suspension wire.

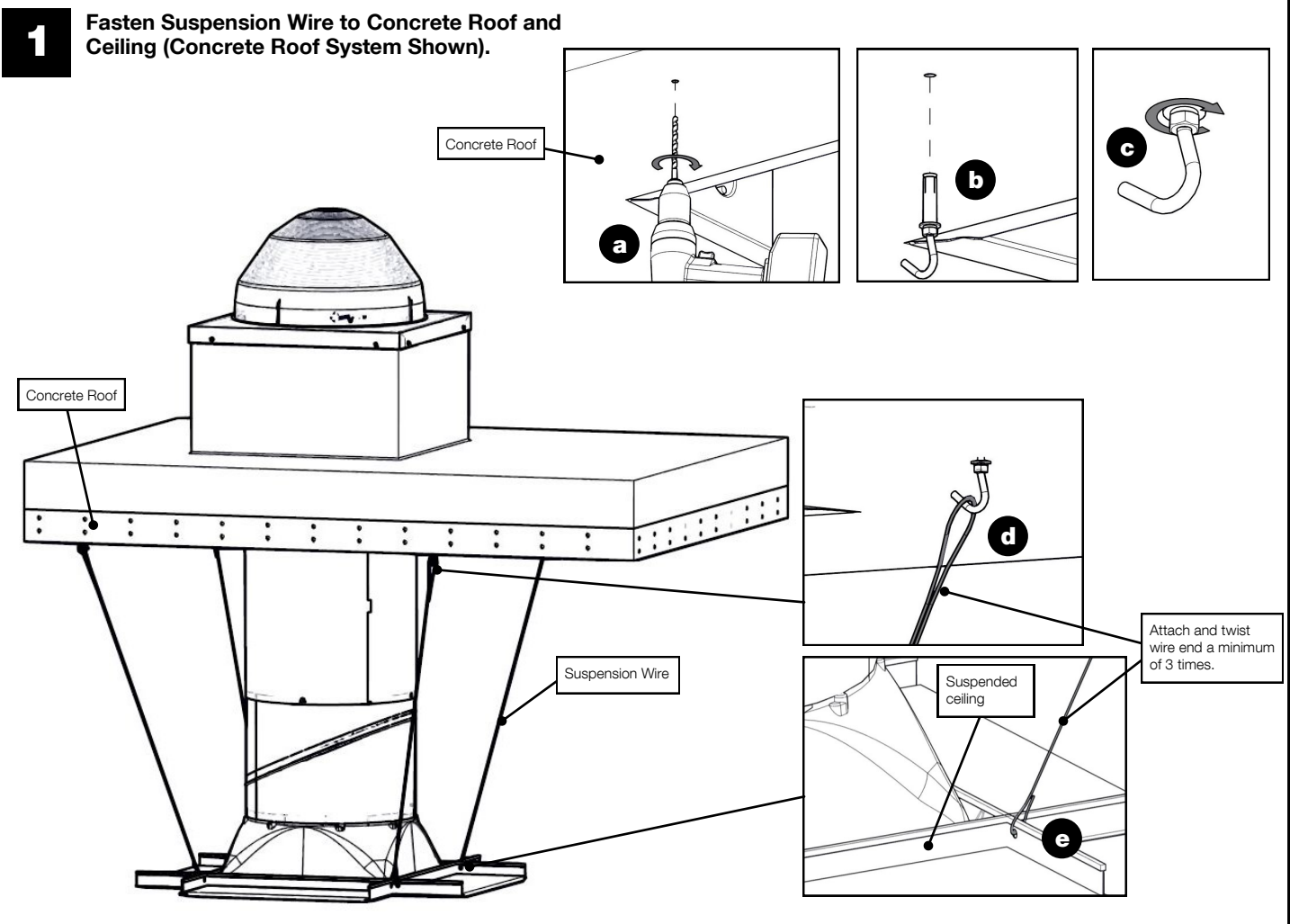Suspension Wire

a

Attach and twist wire end a minimum of 3 times.

b

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Part No. 950160 v2.3

Suspension Wire Kit for Suspended Ceiling

Installation Instructions Appendix

Parts List		Quantity
1	16 Gauge Galvanized Wire 50 ft (15.25 m)	(1)
2	Expanding Bolt (M6)	(4)

Additional Materials and Tools		Quantity
1	Concrete Drill Bit 7/16 in (11 mm)	(1)
2	Concrete Hammer Drill	(1)

1 **Fasten Suspension Wire to Concrete Roof and Ceiling (Concrete Roof System Shown).**

Concrete Roof

Concrete Roof

Suspension Wire

Attach and twist wire end a minimum of 3 times.

Suspended ceiling

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Part No. 950160 v2.3

Natural Effect Lens Installation Instructions Appendix

Parts List *		Quantity
1	330 DS/750 DS Natural Effect Lens	(1)
2	Screw #6 X 3/8 in (10 mm)	(8)
3	Natural Effect Lens Tab	(8)

Additional Materials and Tools		Quantity
1	None	

1 **Install Screws and Tabs; Insert Effect Lens and Engage Tabs**

Transition Box

Tab

Screw

a

Effect Lens

Seal

b

Effect Lens

Seal

c

Effect Lens

d
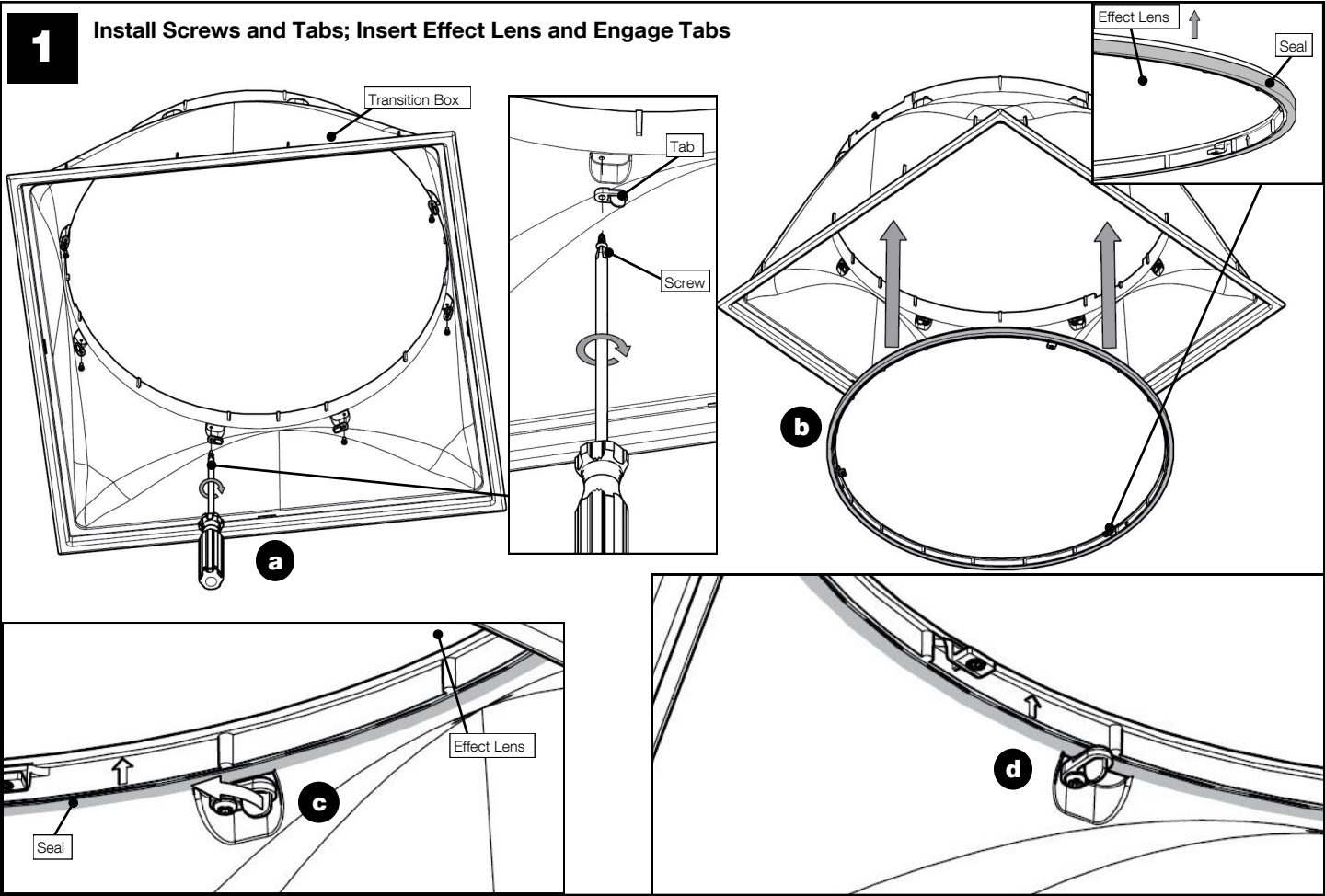
Solatube Solamaster® Series Accessories
Add more function by upgrading your Solatube Daylighting System with any of these great accessories.
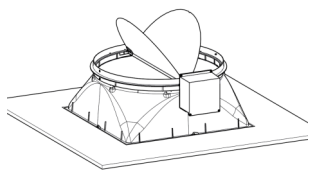
Daylight Dimmer
Because you don't need 100% of the light 100% of the time, the innovative Solatube Daylight Dimmer easily controls the amount of daylight entering a room with the convenience of a switch. Our patented variable butterfly baffle controls the light output.
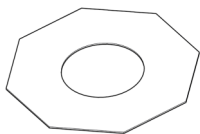
Flashing Insulator
This insulating material helps to reduce condensation in cold climates when the flashing is exposed to a humid interior space. The insulator is affixed to the flashing base and the top tube slips through the opening, which provides a seal between the interior and metal flashing.
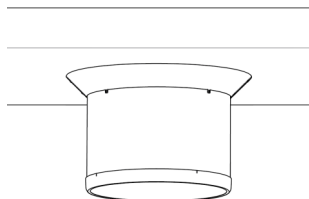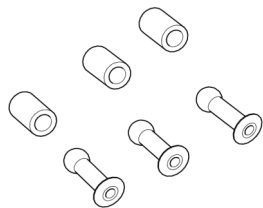
Open Ceiling Trim Ring
For use with the Solatube 330 DS and 750 DS Open Ceiling Configurations. The trim ring provides a finished appearance to the installation.
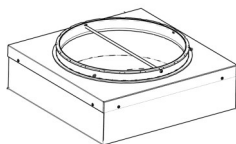
Security Bar
This stainless steel bar insets into the flashing turret across the diameter of the opening. The bar is fastened using rivets and inhibits entry through the dome.

Dome Security Kit
This kit consists of three rivets with nylon spacers, which replace dome screws. The dome security kit reduces the possibility of the dome being removed.

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Notes

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