



TEST REPORT

Report No.: E7778.01-301-16

Rendered to:

SOLATUBE INTERNATIONAL, INC. VISTA, CALIFORNIA

PRODUCT TYPE: Tubular Daylight Device – Self Flashing **SERIES/MODEL**: 330DS/750DS

SPECIFICATION: Occupational Safety and Health Administration/U.S. Department of Labor Regulations (Standards - 29 CFR) - 1910.23(e)(8), California State OSHA Fall Protection Code of Regulations, Title 8, Section 3212 (e)(1).

Test Date: 05/08/15 **Report Date**: 06/25/15

Test Record Retention Date: 05/08/19





Report Date: 06/25/15

Record Retention Date: 05/08/19

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1.0 Report Issued To: Solatube International, Inc.

2210 Oak Ridge Way Vista, California 92081

2.0 Test Laboratory: Architectural Testing, Inc.

an Intertek Company ("Intertek-ATI")

4 Rancho Circle

Lake Forest, California 92630

949-460-9600

3.0 Project Summary:

3.1 Product Type: Tubular Daylight Device – Self Flashing

3.2 Series/Model: 330DS/750DS

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s).

3.4 Test Date: 05/08/15

3.5 Test Record Retention End Date: All test records for this report will be retained until May 8, 2019.

- **3.6 Test Location**: Intertek-ATI test facility in Lake Forest, California.
- **3.7 Test Specimen Source**: The test specimens were provided by the client. Representative samples of the test specimens will be retained by Intertek-ATI for a minimum of four years from the test completion date.
- **3.8 Drawing Reference**: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimens reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u> <u>Company</u>

Todd Anderson Solatube International, Inc.

Jarod S. Hardman Intertek-ATI





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4.0 Test Specifications:

Each of the units tested met or exceeded the loading requirements for the following standards.

Occupational Safety and Health Administration/U.S. Department of Labor Regulations (Standards- 29 CFR) - 1910.23(e)(8).

California State OSHA Fall Protection Code of Regulations, Title 8, Section 3212 (e)(1)

A 700 lbf weight, fabricated from a bag filled with sand, was placed on the center of each dome for a minimum of 60 seconds. The bag was removed and the test unit was inspected for any signs of damage or failure.

5.0 Test Specimen Description:

5.1 Product Sizes:

330 DS TDD:

Overall Area : 2.40 ft ²	Diameter Width (inches)	Height (inches)
Flashing overall size	33-1/2	8
Dome size	22-3/4	9-5/16

750 DS TDD:

Overall Area: 2.40 ft ²	Diameter Width (inches)	Height (inches)
Flashing overall size	33-1/2	8
Dome size	24	13-1/2

The following descriptions apply to all specimens.

5.2 Frame Construction:

Frame Member	Material	Description
Flashing	Steel	Part #200870 (see attached Drawings)





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5.0 Test Specimen Description: (Continued)

5.3 Weatherstripping:

Description	Quantity	Location
1/4" x 1/2" peel and stick pile, Part # 600280	1 row	Peel and stick applied around exterior side of the flashing collar under the dome edge (See attached Drawing #600280).

5.4 Glazing: No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.

330 DS Dome Material	Glazing	Glazing Method
Monolithic	Acrylic, Part #509100	Press fit over the flashing with dome spacer, Part #700870, and secured with three #8 x 1-5/8" Phillips truss head screws, Part #700860, spaced evenly around the circumference of the dome.

750 DS Dome Material	Glazing	Glazing Method
Monolithic	Acrylic, Part #401930	Press fit over the flashing with dome spacer, Part #700870, and secured with three #8 x 1-5/8" Phillips truss head screws, Part #700860, spaced evenly around the circumference of the dome.

Location	Quantity	Daylight Opening (inches)	Glass Bite
330	1	Diameter - 21-3/8	1-5/8
750	1	Diameter - 21-3/8	1-3/4

6.0 Installation:

The specimen was installed into a 5/8" plywood buck. The perimeter of the TDD was sealed with 3/4" bead of sealant.

Location	Anchor Description	Anchor Location
Around	#10 x 2" Phillips truss head screw,	16 fasteners spaced evenly
perimeter of	Part #700740	around the circumference
flashing	1 a1t #7007 40	of the flashing





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7.0 Test Results: The results are tabulated as follows:

7.1 OSHA Safety Test

330 DS TDD.

000 20 122:		
Test	Load Location	Results
700 lbf	Center of dome	No visible damage

750 DS TDD:

Test	Results	Maximum Allowed
700 lbf	Center of dome	No visible damage

Note: The 700 lbf weight was gently applied perpendicular to the center of each dome. After 60 seconds of rest time, there was no visible damage to either skylight.

Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

Jarod S. Hardman
Leaton Kirk
Laboratory Manager

Director – Regional Operations

JSH:ss/ms

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Photographs (3)

Appendix-A: Photographs (3) Appendix-B: Drawings (4)

Appendix-C: Installation Instructions (22)

This report produced from controlled document template ATI 00514, revised 06/26/14.





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Appendix A
Photographs





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Photo No. 1 750 DS TDD during static loading



Photo No. 2 750 DS TDD after static loading





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Photo No. 3 750 DS TDD after static loading



Photo No. 4 330 DS TDD after static loading





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Photo No. 5 330 DS TDD after static loading

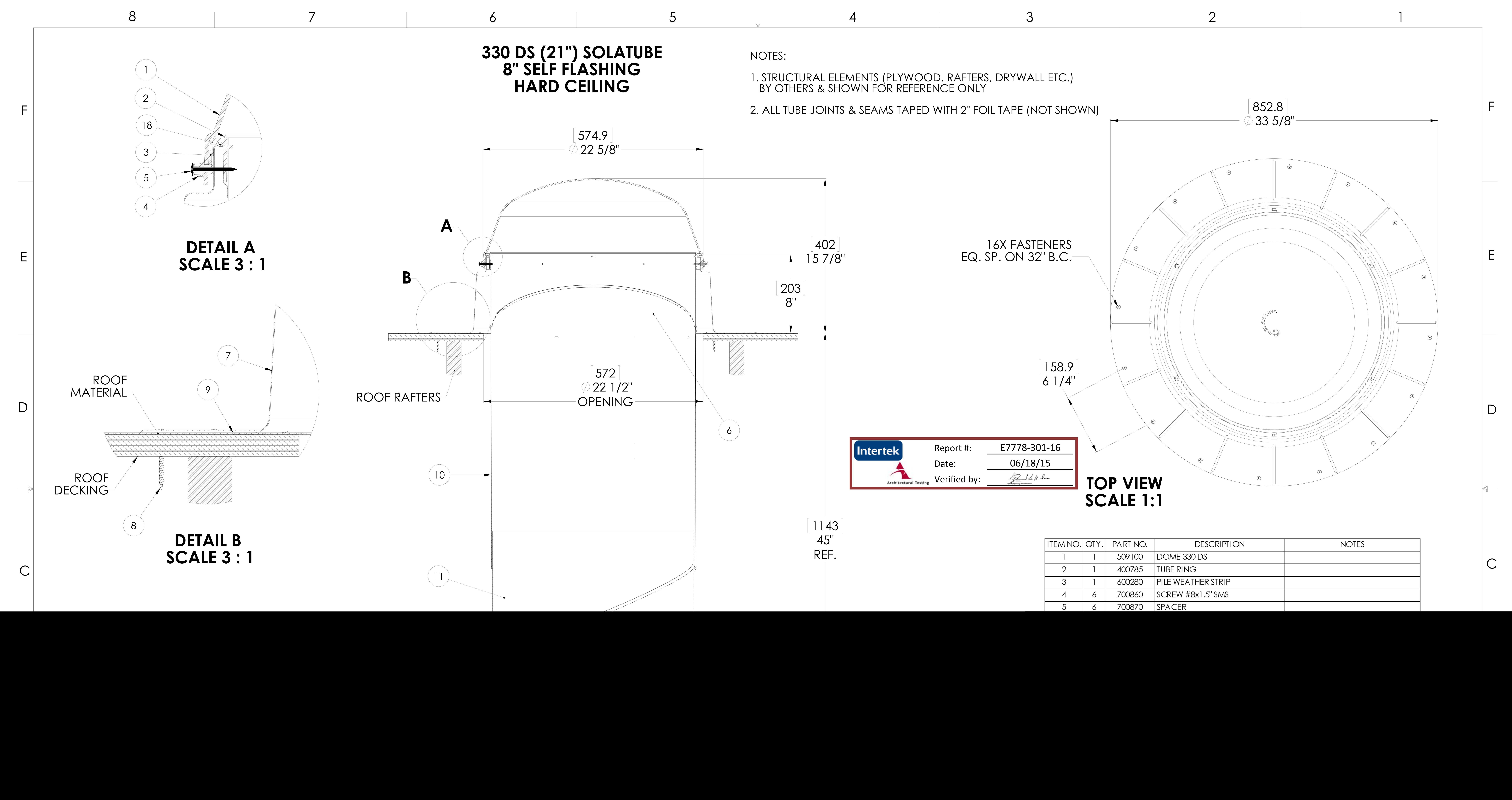


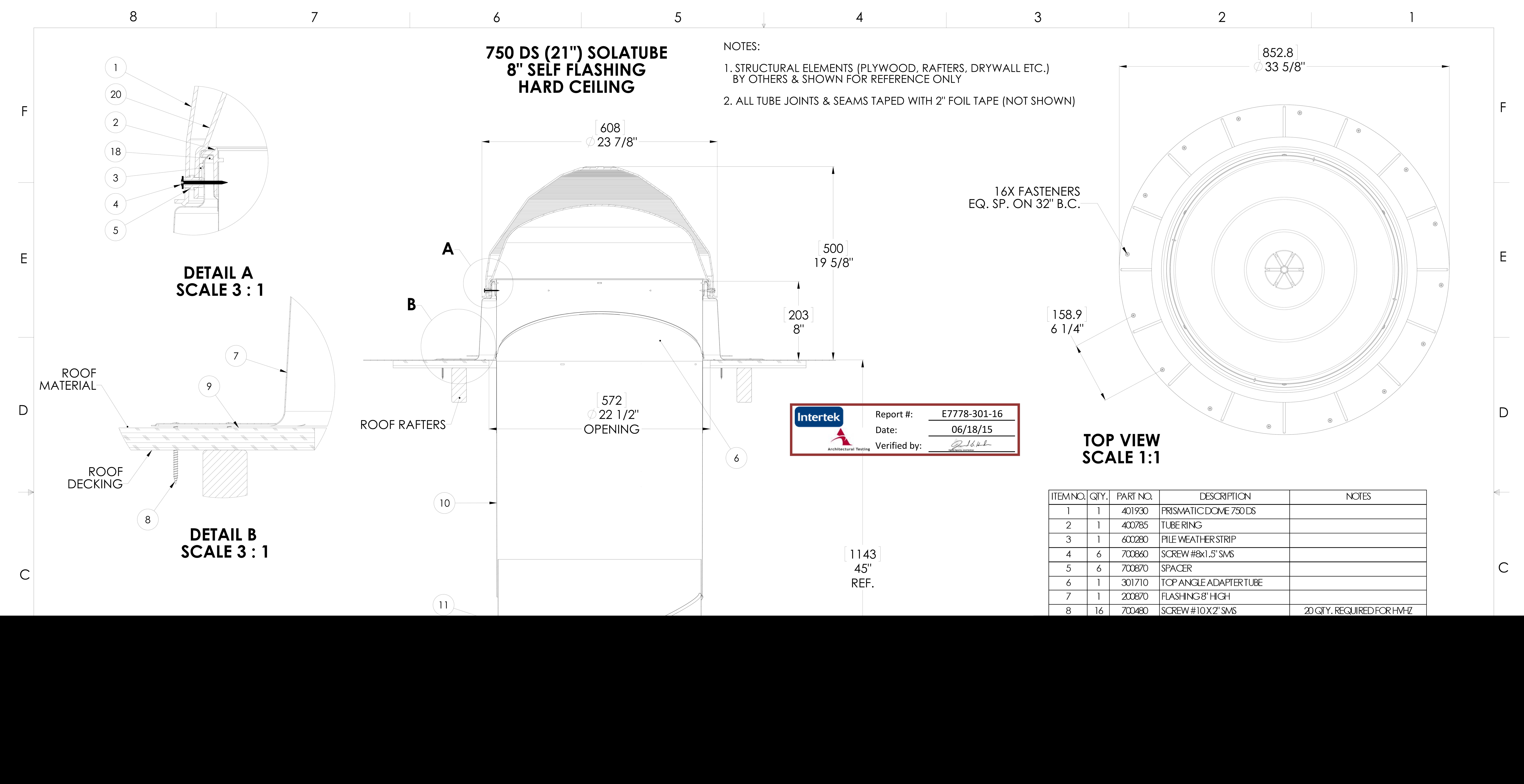


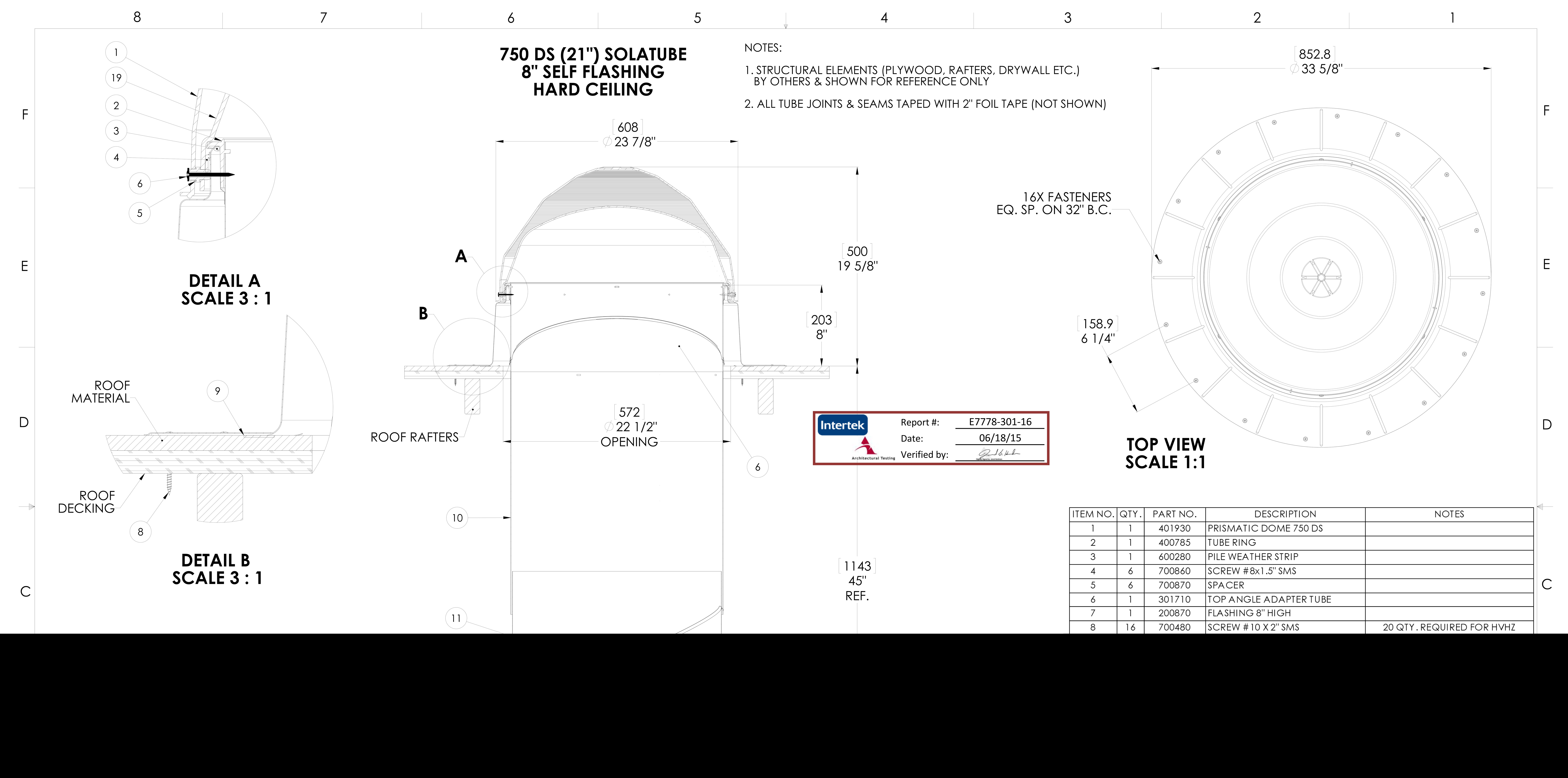
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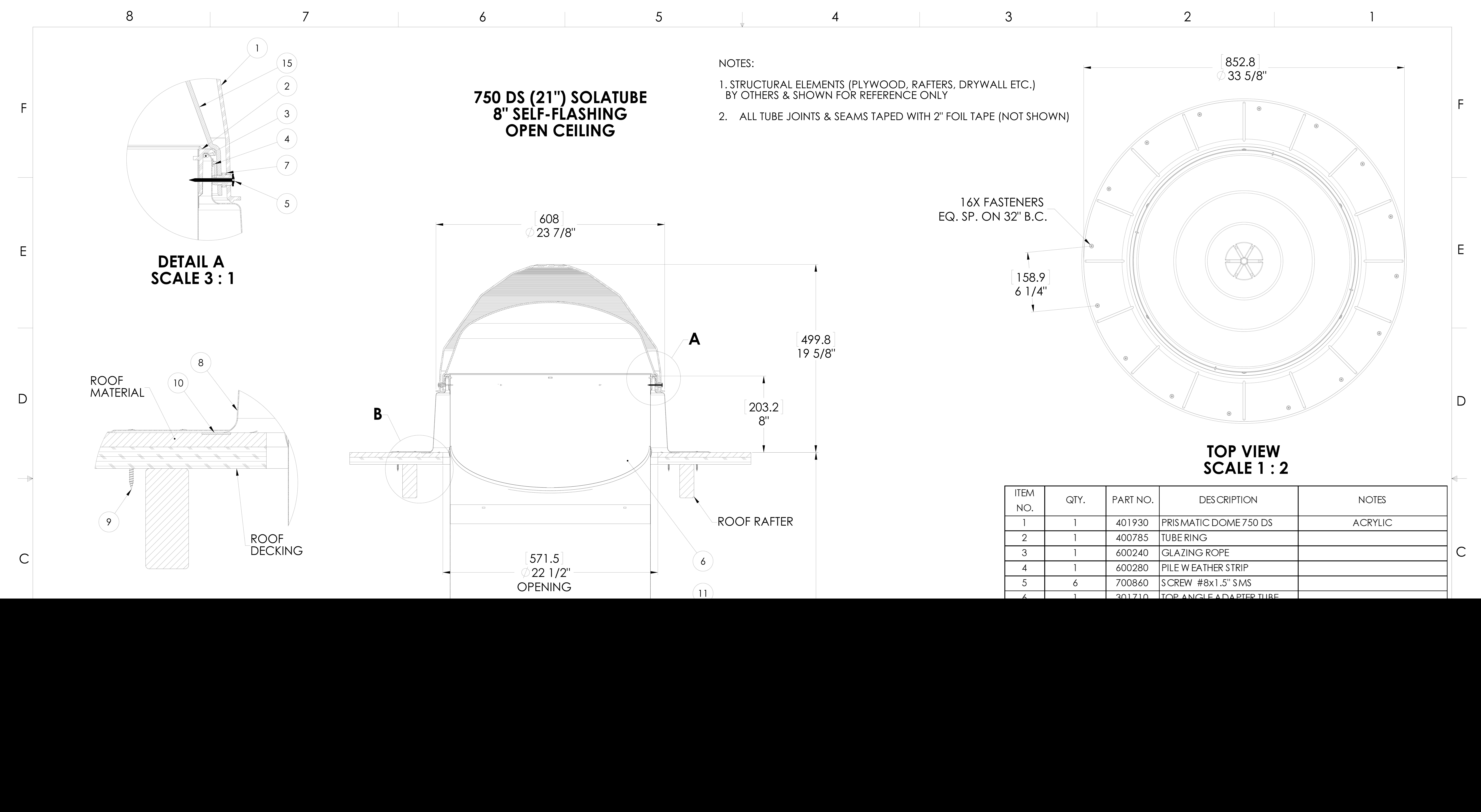
Appendix B

Drawings













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Appendix C

Installation Instructions



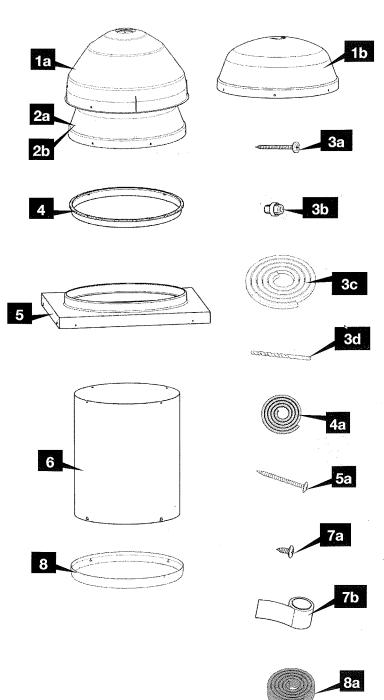
Solatube® SolaMaster® Series

Solatube® 330 DS Daylighting System Solatube® 750 DS Daylighting System

Installation Instructions

Open Ceiling

For Closed Ceiling, see back of this page.



	Outer Dome Options	44. 440s
1	a. 750 DS Dome with Raybender® 3000 Technology	(1)
	b. 330 DS Dome with LightTracker™ Reflector	(1)
	Inner Dome Option	(1)
2	a. Inner Dome for 750 DS (Optional)	(1)
	b. Inner Dome for 750 DS (Optional, Polycarbonate*†)	(1)
	Dome Fasteners	
	a. Dome Screw #8 X 1 5/8 in (40 mm)	(4)
3	b. Dome Spacer	(4)
	c. Dome Seal	(1)
	d, Drill Bit #40 (3/32 in/2.5 mm)	(1)
	Tube Ring	(1)
4	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)
	Spectralight® Infinity Tubes	
6	a. 24 in (610 mm) Extension Tube with Tube Fastener Kit	(1)
	b. 48 in (1220 mm) Extension Tube with Tube Fastener Kit	(1)
	Tube Fastener Kit	(1)
7	a. Tube Screws - #8 X 9/16 in (14 mm)	(5)
	b. 2 in (50 mm) Foil Tape - 18 ft (5.5 m)	(1)
A.	Diffuser for Open Ceiling	(1)
8	a. Diffuser Seal	(1)

Required Tools:

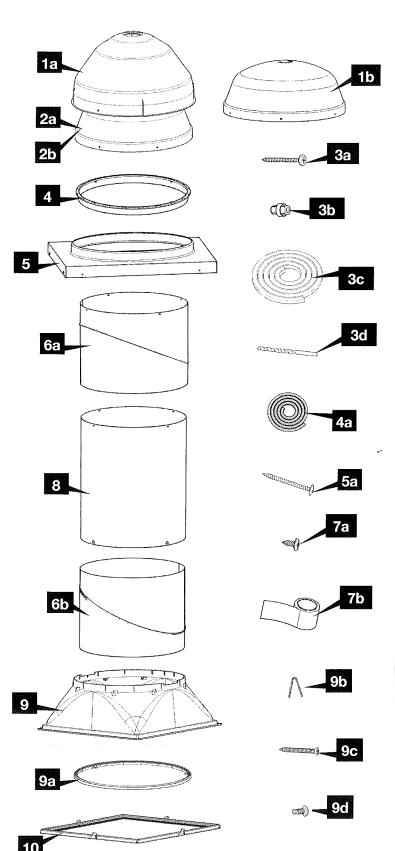
Saber or Reciprocating Saw	Utility Knife
Flat Bar	Caulking Gun
Tape Measure	Lumber Crayon
Screw Gun with Phillips Head	Metal Shears
Magnetic Compass	Required Safety Equipment
Hammer	

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

Part No. 950160 v2.1

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

Closed Ceiling



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

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

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

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





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

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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.



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

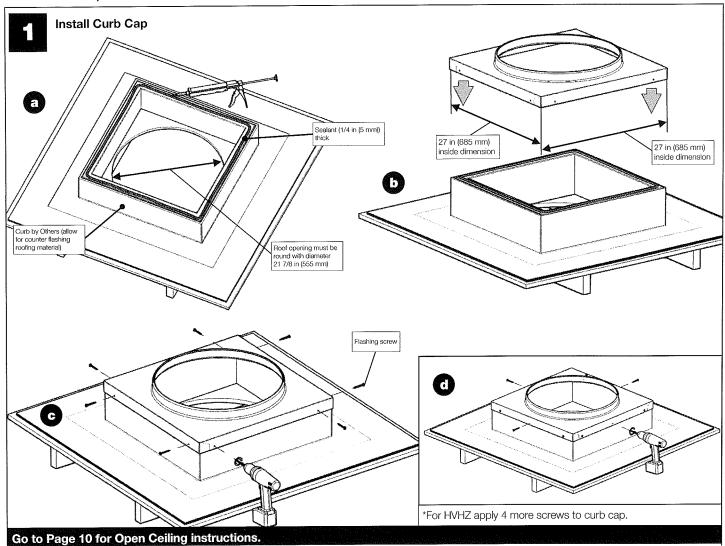
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Carbon monoxide may be drawn into a house or attic space with the operation of Solar Star products if fuel-burning equipment is not serviced or monitored regularly. Carbon monoxide (CO) is a colorless, odorless gas that can be hazardous to your health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

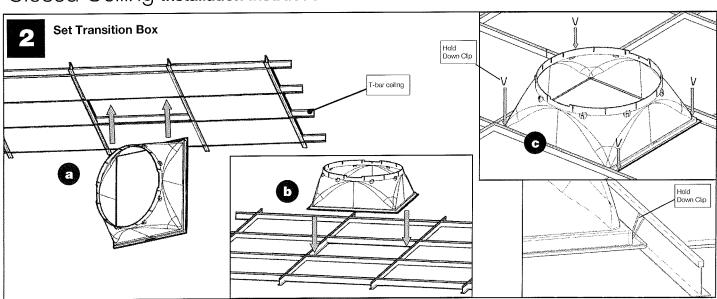
For the most current Installation Instructions, please visit www.solatube.com/instructions

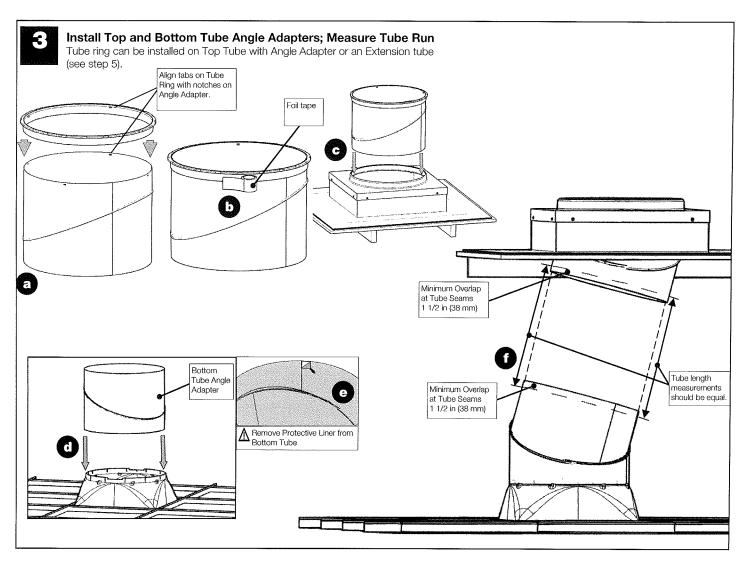
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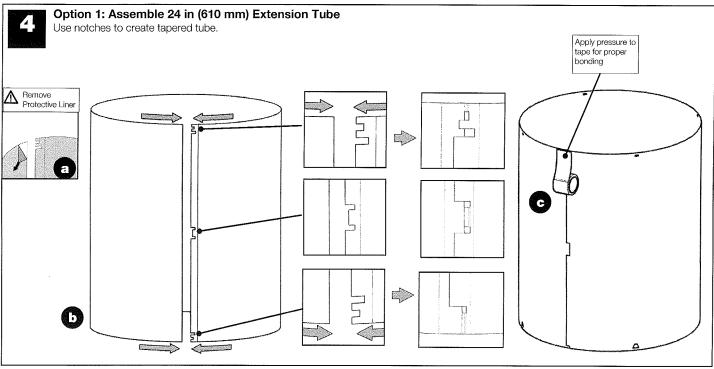
Curb Cap Installation Instructions



Closed Ceiling Installation Instructions

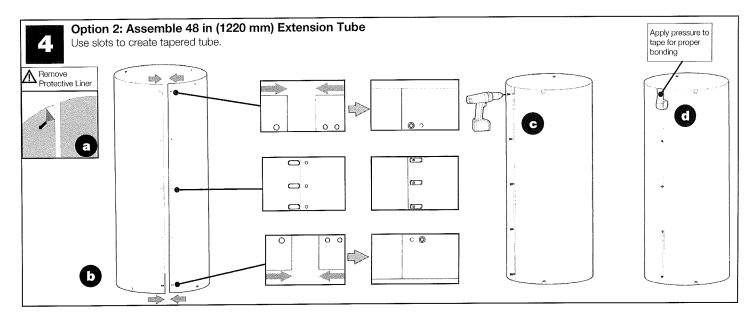


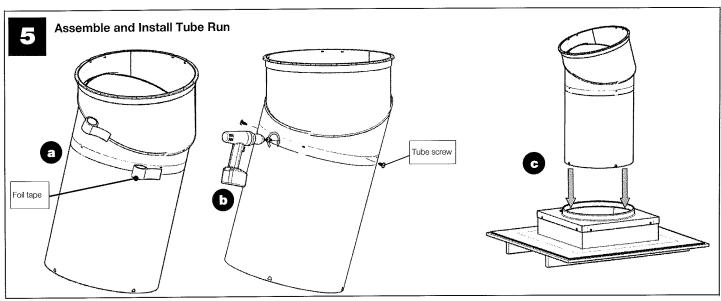


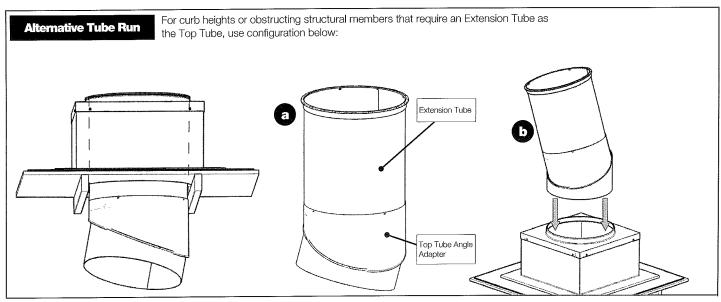


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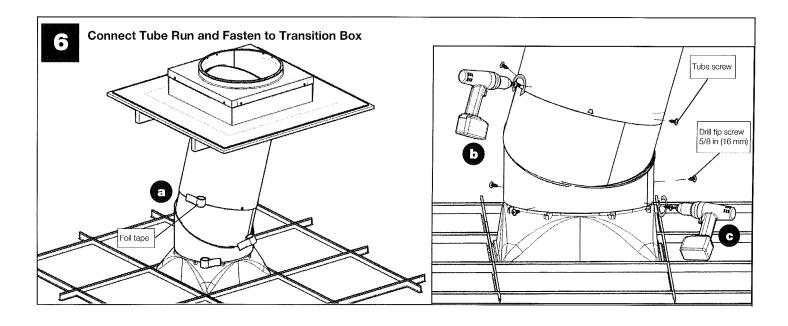
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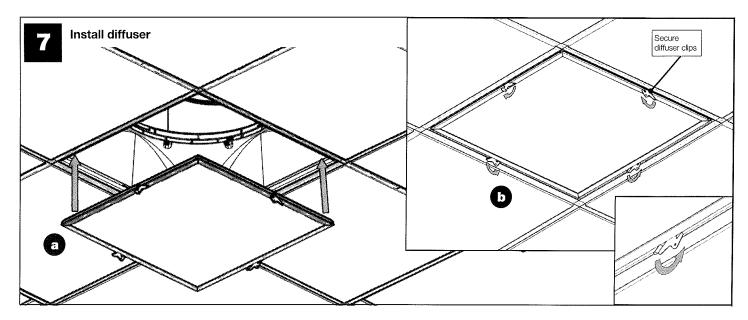


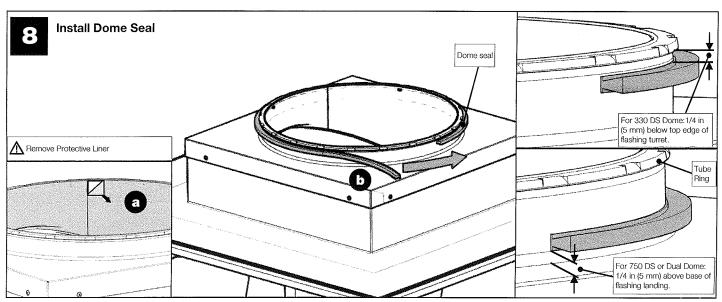




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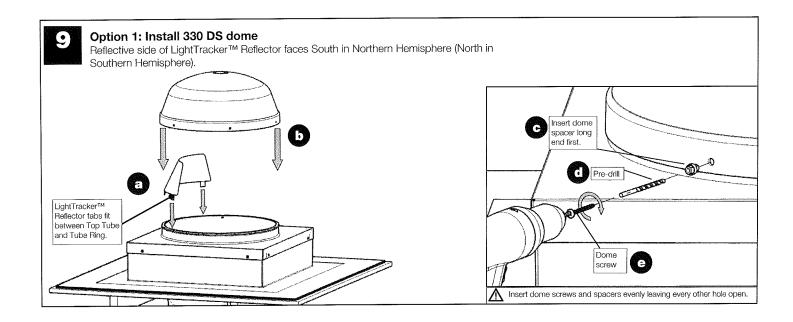


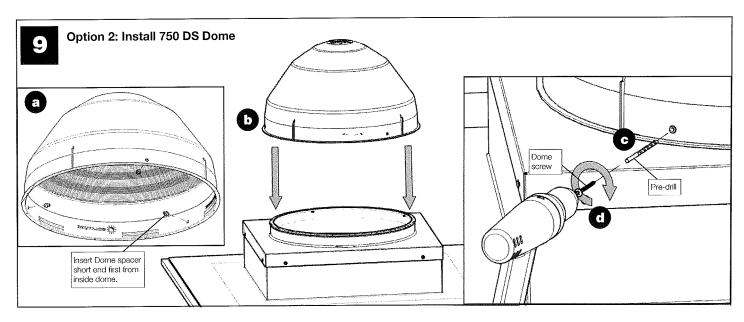


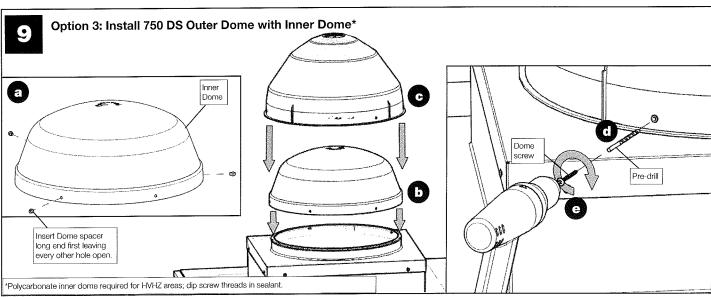


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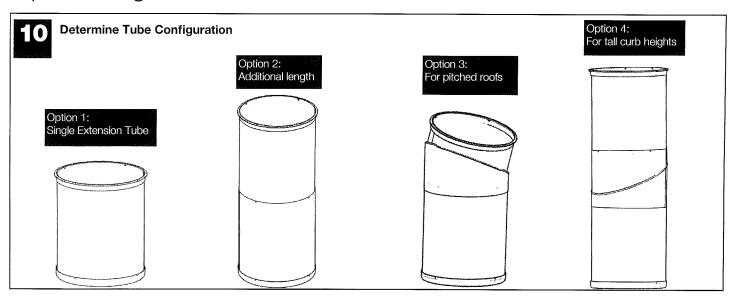


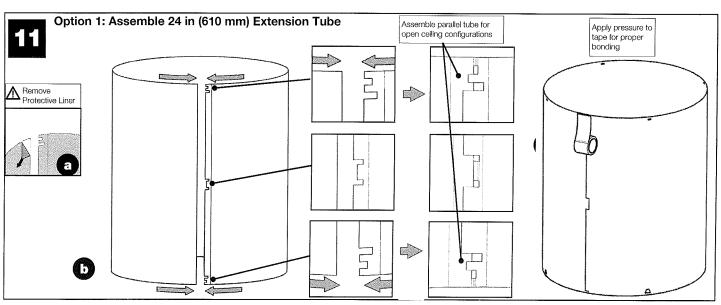


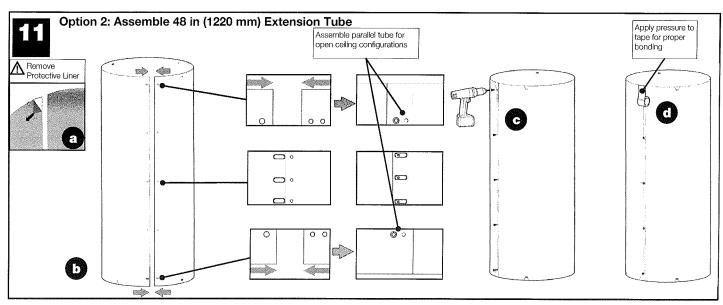


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Open Ceiling Installation Instructions



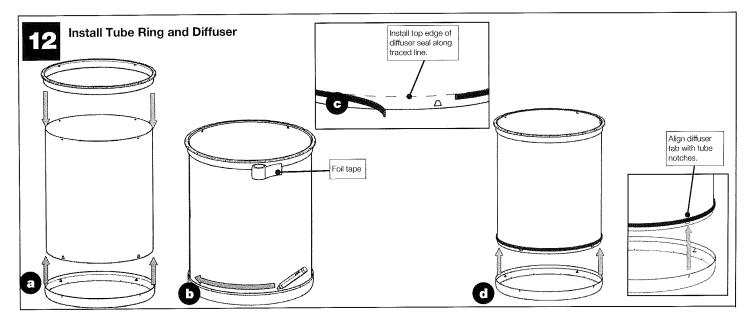


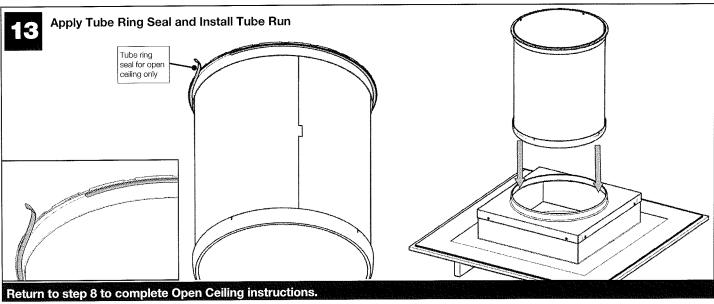


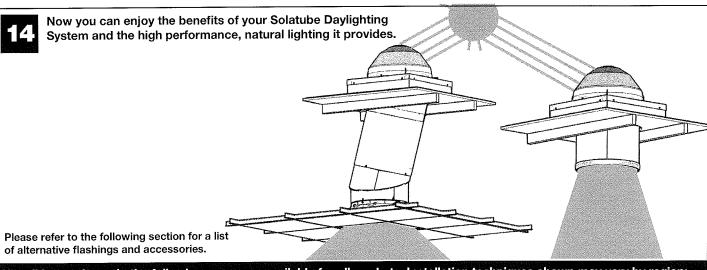
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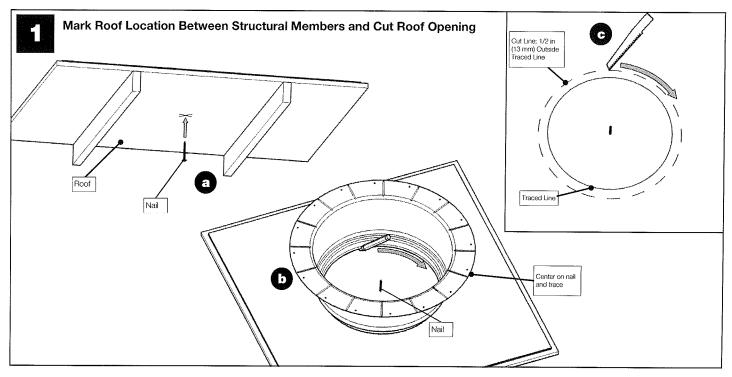


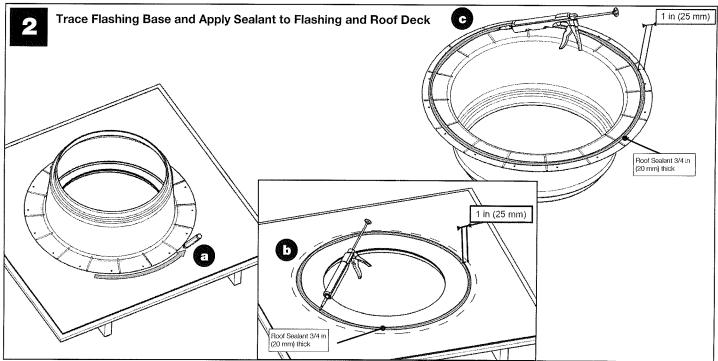
Not all items shown in the following pages are available for all markets. Installation techniques shown may vary by region; please consult local building codes and Solatube International Representatives for guidelines.

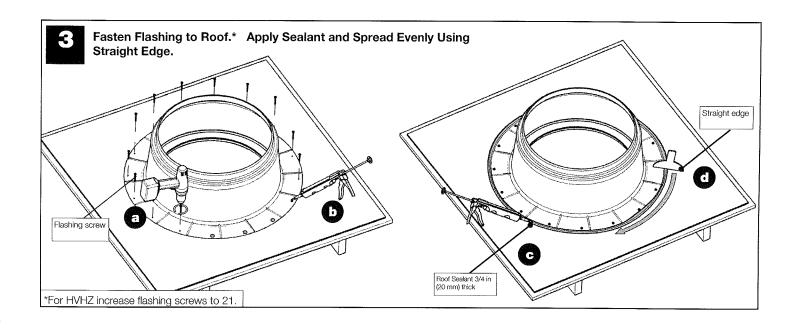
Self-Flashing Installation Instructions Appendix

Par	ts 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)

Add	ditional Materials and Tools Quantity
1	Roof Sealant (3)
2	Straight Edge (1)



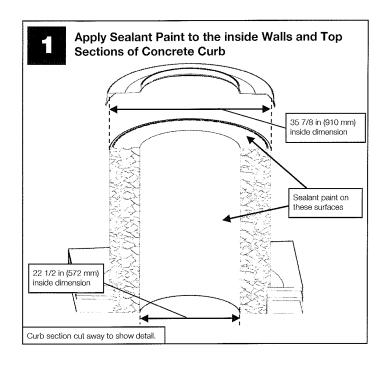


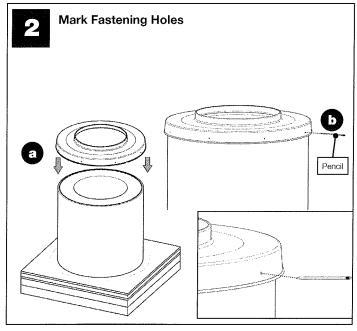


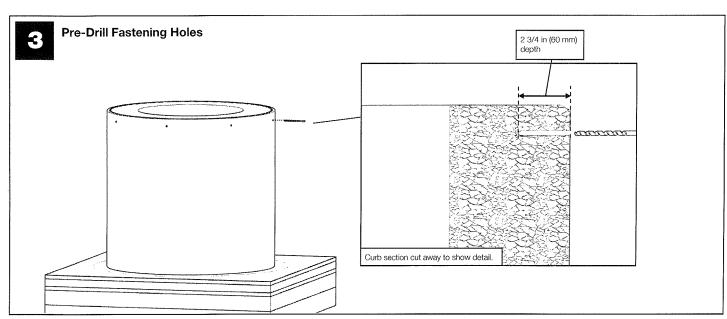
Round Concrete Curb Cap Installation Instructions Appendix

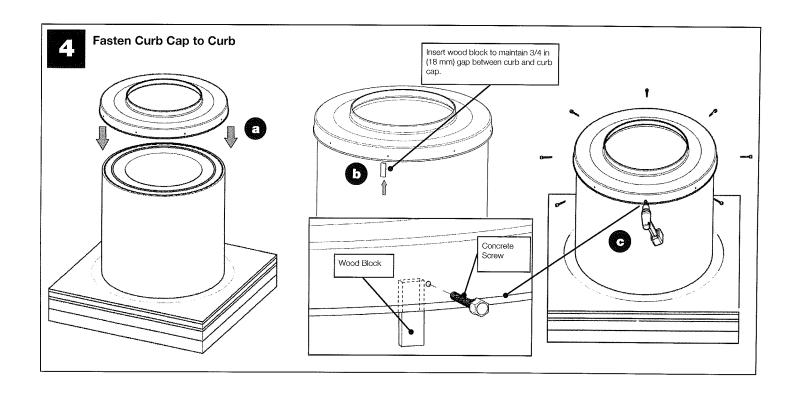
Pai	rts List Quantity
1	Round Curb Cap (1)
2	Concrete Screw 3/16 in x 2 3/4 in (5 mm x 70 mm) (8)
3	Concrete Drill Bit 5/32 in x 3 1/2 in (4 mm x 89 mm) (1)

Additional Materials and Tools Quantit	у
2 Sealant Paint (Not Provided)	







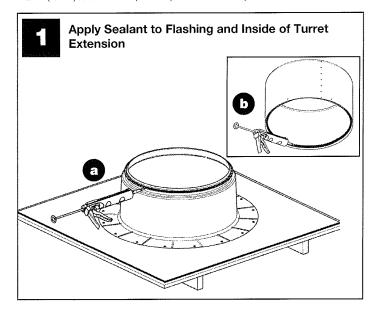


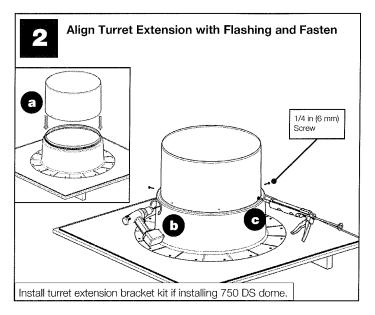
Turret Extension Installation Instructions Appendix

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)	

Add		I Materials and Tools Quanti
1	Roof	Sealant (1)

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

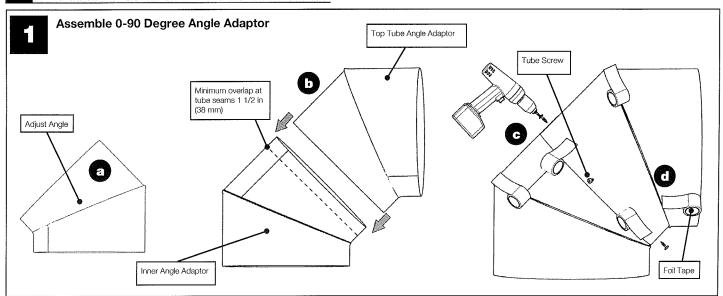




0-90 Degree Extension Tube Installation Instructions Appendix

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	



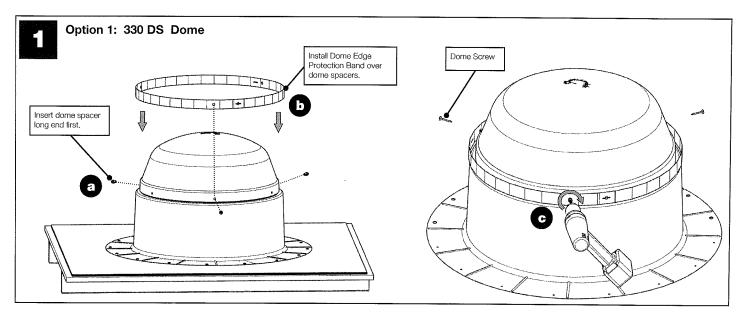
For the most current Installation Instructions, please visit www.solatube.com/instructions Solatube International, Inc. | 2210 Oak Ridge Way | Vista, CA 92081-8341 | www.solatube.com | T: 888.SOLATUBE

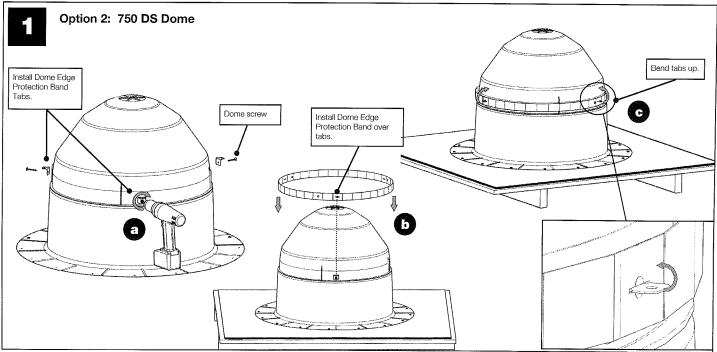
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Dome Edge Protection Band Installation Instructions Appendix

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

Additional Materials and Tools	Quantity
1 None	

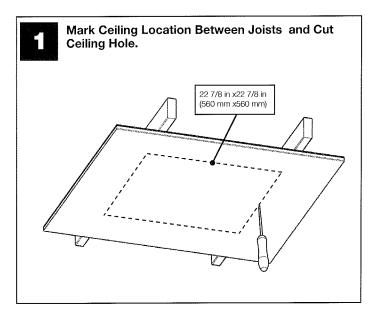


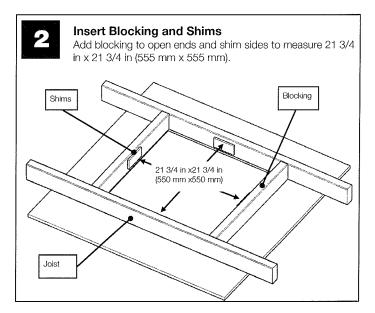


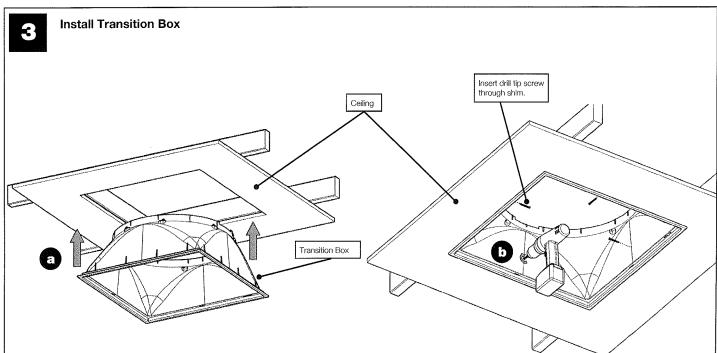
Hard Ceiling Installation Instructions Appendix

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

Add	litional Materials and Tools Quantity
1	Wood Blocking (2)
2	Shims



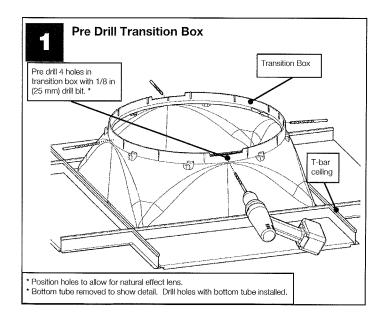


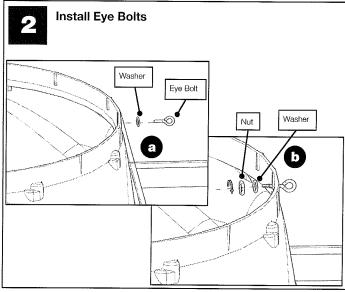


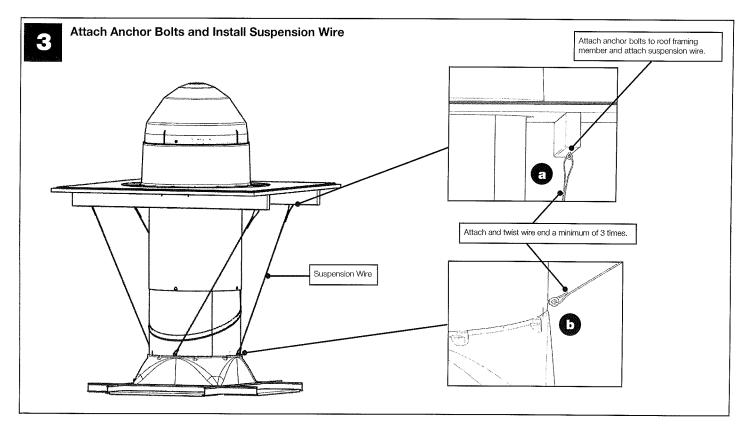
Suspension Wire Kit Installation Instructions Appendix

Par	ts 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)

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





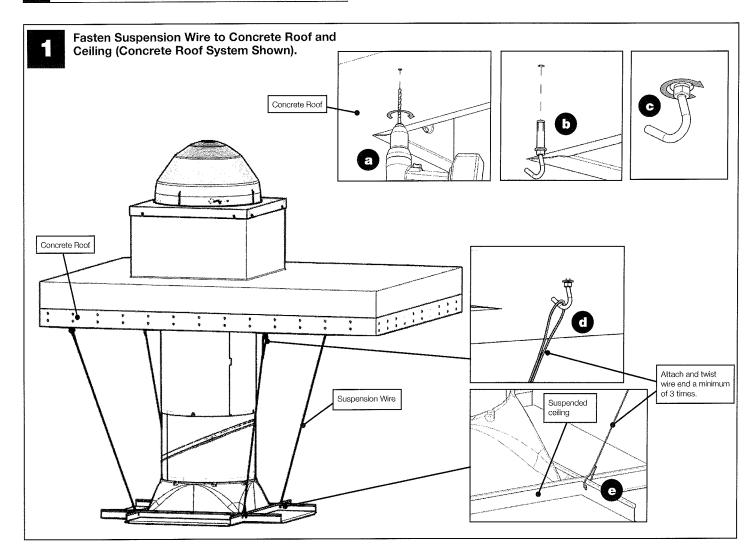


Suspension Wire Kit for Suspended Ceiling

Installation Instructions Appendix

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

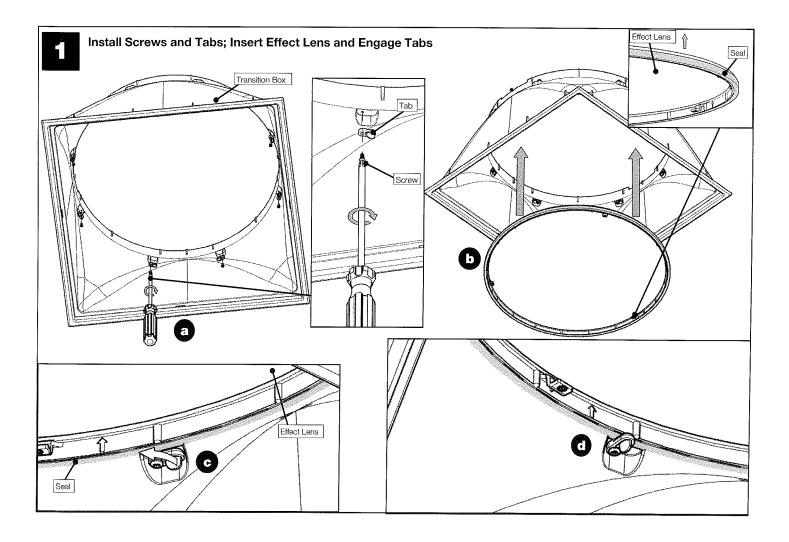
Additional Materials and Tools Quantity		
1	Concrete Drill Bit 7/16 in (11 mm) (1)	
2	Concrete Hammer Drill (1)	



Natural Effect Lens Installation Instructions Appendix

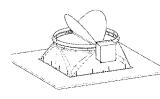
Pa	rts List * Quantity
1	330 DS/750 DS Natural Effect Lens (1)
2	Screw #6 X 3/8 in (10 mm) (8)
3	Natural Effect Lens Tab (8)

Additional Materials and Tools Quantity	į.
1 None	



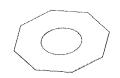
Solatube Solamaster® Series Accessories

Add more function by upgrading your Solatube Daylighting System with any of these great accessories.



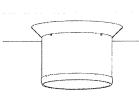
Daylight Dimmer

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.



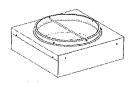
Flashing Insulator

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.



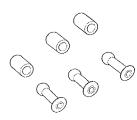
Open Ceiling Trim Ring

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.