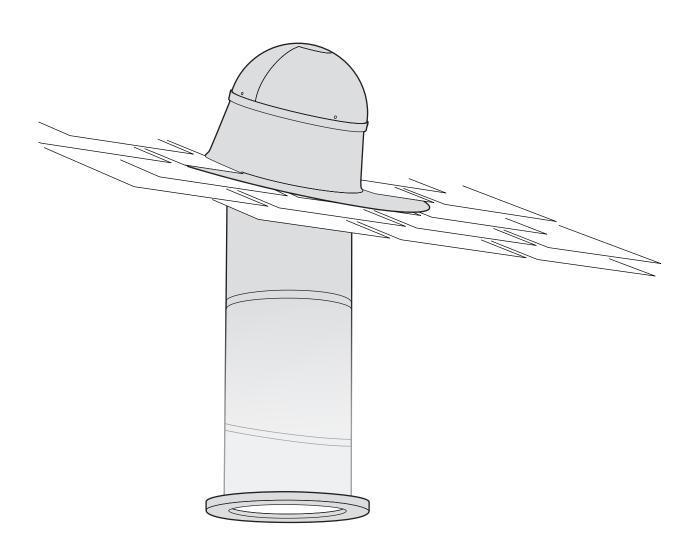


Installation Instructions



Important

Be sure to first read and then follow all step-by-step instructions completely. This will help to insure proper installation and functionality. Expect installation to take from 1 to 3 hours.



Section i What You Need To Know

REVIEW THIS INFORMATION PRIOR TO BEGINNING INSTALLATION

These instructions have been designed to help install your Wasco Skytube easily and safely. We've included a parts list, list of tools required, installation instructions for a variety of ceiling types, handy tips, and safety precautions. Please read these instructions thoroughly before installing your Wasco Skytube. Pay particular attention to the assembly diagrams, assembly order, and part names. Identify and organize all parts before assembly. Make a list of the tools and components you will need for each installation location. Following these instructions carefully will greatly enhance your ability to install your Skytube and enjoy flawless performance for many years.

Caution

The Skytube is not designed to hold your weight or the weight of tools or other objects. Walking/placing objects on the SkyTube could cause personal injury and property damage. A damaged SkyTube should be repaired immediately.

For safe installation and use, do not deviate from these installation instructions.

Warning:

Working on a roof is potentially dangerous but you can significantly reduce the risk by following these precautions:

- Never work in wet, windy or cold conditions. Roofing materials can be slippery when wet; asphalt shingles are brittle when cold and may crumble underfoot. Plan your installation for a calm, dry day.
- Wear shoes with slip-resistant soles.

△WARNING

POTENTIAL FIRE HAZARD. After removing the film lining from the interior of tube shaft, a reflective inner surface is created. DO NOT leave tube shaft components unattended or exposed to direct sunlight prior to full installation. Exposed surfaces may catch fire or incur heat damage as a result of focused sunlight until the tube shaft is fully installed with diffuser in place.

Safety information:

- Wear safety glasses and work gloves when using power tools.
- Use protective work gloves while handling tube sections to protect hands from sharp edges.

Pre-Installation Items to Review:

Tube Installation/Location

- Your Skytube kit comes with enough tubing for a 30" installation (50" for a Pro 3 Kit) if you require more tubing, you can purchase additional extension tubes through your retailer.
- For best results always attempt to install the tube as straight as possible (this would locate the dome/flashing directly above the ceiling diffuser).
- Make sure that the location you pick on your roof for your dome/flashing is exposed to direct sunlight throughout the day. You will not want any trees, chimneys, etc. to cast a shadow on your tube.
- Before installation, carefully survey the attic area of your desired location. Make sure your tube can avoid any wiring, plumbing, roof valleys, ceiling mounted registers/fans, etc.

For cathedral ceiling, see Section 10.

For long tube shaft installation, see Section 11.

For 14" skylight with 16" on-center rafter spacing see Section 5.

Building Codes:

- Consult your local building official about local construction ordinances before starting your installation.
- Consult your community covenants. Some subdivisions may not allow Skytube installed on the street side of home.

Determining roof pitch:

- "Roof Pitch" is how far the roof drops vertically for every 12" of horizontal run.
- Spun metal flashings can be used on flat roof to 12:12 roof pitch.
- Sloped composite flashings require a minimum pitch of 3:12 and a maximum of 12:12.

Section ii

Limited Warranty for Wasco Skytube

Effective 12/11

Warranty Coverage

Subject to the conditions, exclusions and limitations herein, Wasco Products, Inc. ("Wasco") warrants that its Skytube Product ("Product") is free from defects in material and workmanship that would render the Product unfit for its normal and recommended use.

THIS LIMITED LIFETIME WARRANTY APPLIES AND EXTENDS ONLY TO THE ORIGINAL CONSUMER PURCHASING THIS PRODUCT. THE DURATION OF THIS WARRANTY BEGINS ON THE DATE OF PURCHASE BY THE CONSUMER.

Exclusions from Coverage

This warranty does not cover:

- Defects or damages arising out of shipment by common carriers, private transportation or other means of transportation.
- Defects or damages arising out of improper handling or cleaning, defective or improper installation (including installation not in accordance with Wasco's installation instructions), accident, act of God, intentional human act, misuse or abuse, or any other circumstances beyond the control of Wasco.
- Products installed in or submitted to high heat, high moisture, high vibration, or extreme temperature changes.
- Products subjected to stress resulting from (i) localized application of heat, (ii) movement of building and /or building components, or (iii) expansion or contraction of framing members
- Replacement products beyond the balance of the remaining warranty period applicable to the original Product or accessory which is replaced.
- Labor, shipping or other charges incurred or claimed by the Customer.
- Accessories, flashing or other installation materials manufactured or sold by persons other than Wasco.

Warranty Claim Procedures

If within the applicable warranty period the Customer discovers a defect in the Product or an accessory which is covered by this warranty, the Customer must follow this procedure:

- 1. The Customer must promptly present a written claim to the Customer Service Manager, Wasco Products, Inc., 85 Spencer Drive, Unit A, Wells, ME 04090.
- 2. The Customer must use reasonable diligence to include in the written claim all of the following:
- a. An adequate description of the claimed defect(s); b. Identification of Product (size, design, type and model number).; c. Date of the Customer's purchase, place of purchase, and the date of delivery to the Customer.
- 3. The Consumer must, if requested by Wasco, permit Wasco or its representative to inspect the Product either in person or via appropriate photographs of said Product.

Remedies

After receiving a valid claim, Wasco will, at its option, provide a replacement Product (or part, as appropriate) of like kind and design.

If Wasco elects to provide a replacement Product, the limited warranty on the replacement will last only for the balance of the original Product warranty period. If the Customer fails to provide satisfactory proof of the date of purchase, the date of manufacture shall be used instead.

WASCO'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE ABOVE, AND Wasco WILL IN NO EVENT BE RESPONSIBLE FOR SHIPPING, LABOR, REMOVAL OF ORIGINAL PRODUCT, INSTALLATION OF REPLACEMENT PRODUCT, FINISHING EXPENSES, OR OTHER CHARGES, COSTS OR CLAIMS INCURRED BY THE CONSUMER.

Disclaimer of Warranty

NO IMPLIED WARRANTY, INCLUDING WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THE PRODUCT (OR ANY REPLACEMENT) BEYOND THE DURATION OF THIS WRITTEN WARRANTY. (Some states/provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

Limitation of Remedies

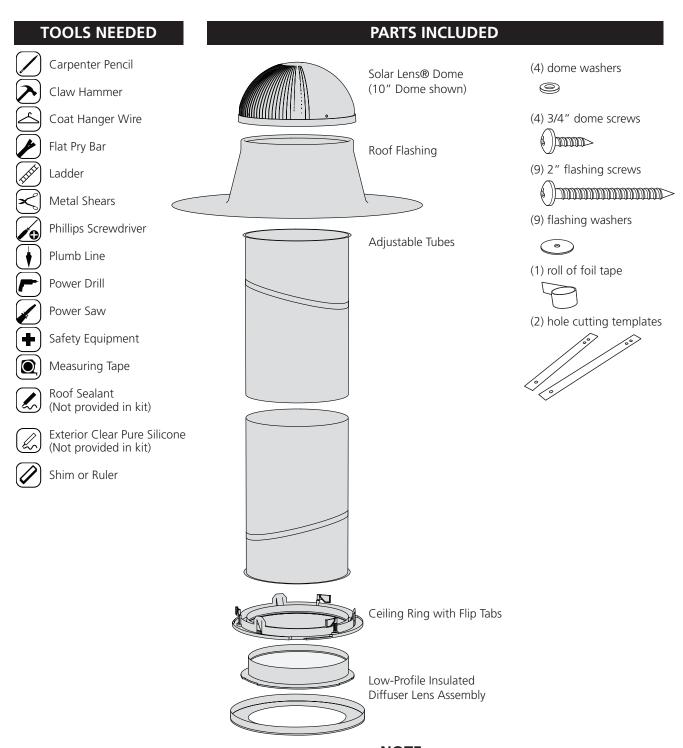
THE REMEDIES SET FORTH ABOVE ARE THE CONSUMER'S EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY OR NEGLIGENCE. IN NO CASE SHALL Wasco BE LIABLE TO THE CONSUMER OR ANY OTHER PERSON FOR ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. (Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.)

Unless modified in a later writing signed by both Wasco and Consumer, this warranty is the complete and exclusive warranty related to the Product, and it supersedes all earlier agreements and other communications relating to the Product. No employee of Wasco or any other party is authorized to make any warranty in addition to this warranty. Invalidation of any one or more of the other provisions of this warranty shall not invalidate or affect one of the other provisions. This warranty is not transferable.

This warranty gives the Consumer specific legal rights, and the Consumer may also have other legal rights which may vary from state to state, or province to province.

Wasco Skylights • 85 Spencer Drive, Unit A • Wells, ME 04090 • www.wascoskylights.com

Section iii Tools & Parts Identification



NOTE-

Read through the section specific to your roof for additional parts and tools.

Section 1

Determine The Desired Position Of The Skytube In The Ceiling

TOOLS & PARTS



Carpenter Pencil



Claw Hammer



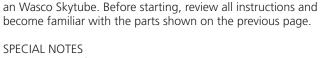
Coat Hanger Wire



Measuring Tape



Phillips Screwdriver



These instructions outline the step-by-step process to install

- Always use safe procedures.
- Wear safety glasses when working with tools.
- Check all measurements before cutting or drilling. • It is helpful to have a second person assist during installation.



Using a stud finder or hammer, find a location between the ceiling joists. Push a screwdriver or nail through the desired position.

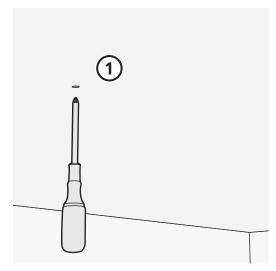
Cut and insert a section of coat hanger wire through the hole. This will make it easier to identify the hole location in the attic.

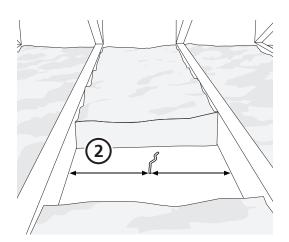


Refer to Pre-installation Checklist for tube location tips in section i.



In the attic, locate the coat hanger wire. Adjust its location, centering the opening for the tube between the framing members. Check wire visibility in the ceiling below as well as from the hole that will be cut in the roof.





Section 2 Locating The Roof Position

TOOLS & PARTS

Carpenter Pencil



Claw Hammer



Ladder



Measuring Tape



Phillips Screwdriver



Plumb Line



Safety Equipment



f I f J Straight Tube Installation

In the attic, use a plumb line to find a straight location from the ceiling hole to the roof location. Center the opening for the tube between the framing members. Drive a nail up into the roof deck and through the shingles.



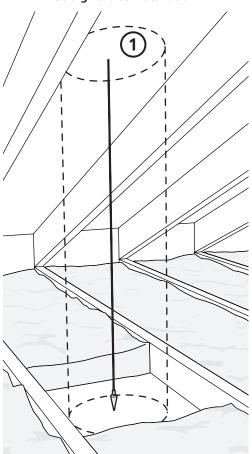
Angled Tube Installation

In the attic, if there are obstructions at the roof location (valleys, wires, pipes, ducts, framing, etc.), adjust tubes up to a combined 45° angle to find a path that avoids interference. Center the opening for the tube between the framing members. Drive a nail up into the roof deck and through the shingles.

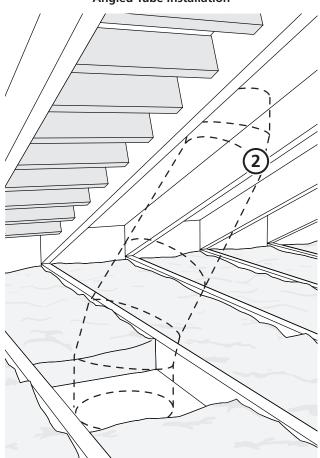
NOTE-

Trial-fitting your tubing will help in determining adjustablilty and need for additional extensions.

Straight Tube Installation



Angled Tube Installation



Section 3 Prepare The Components

TOOLS & PARTS



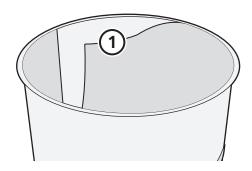
Adjustable Tubes



Hole Cutting Template



Remove protective film from inside all tubes.

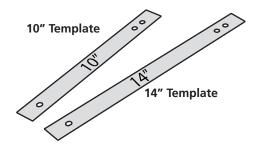


MARNING

POTENTIAL FIRE HAZARD. After removing the film lining from the interior of tube shaft, a reflective inner surface is created. DO NOT leave tube shaft components unattended or exposed to direct sunlight prior to full installation. Exposed surfaces may catch fire or incur heat damage as a result of focused sunlight until the tube shaft is fully installed with diffuser in place.

CAUTION-

From the hardware pack, be sure to use the correct hole cutting template for the selected tube size.



TIP

It is recommended that you put all of your tools and rooftop components in a box or bag for easy transfer to the roof. See Section 4.

Section 4aOn The Roof

TOOLS & PARTS

Carpenter Pencil



Ladder



Safety Equipment



Power Drill



Power Saw



Hole Cutting Template



-IMPORTANT-

For 14" skylight with 16" on-center rafter spacing, see below.



Select the correct hole cutting template for the tube (10" or 14").



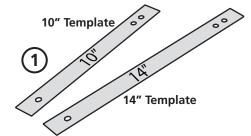
Locate the protruding nail. Use the correct holecutting template to trace the diameter of the outer template hole.

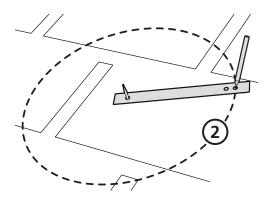


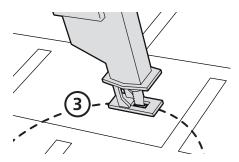
Use a reciprocating/sabre saw to cut the roof hole.



Drill a hole inside the traced circle to insert saw blade.

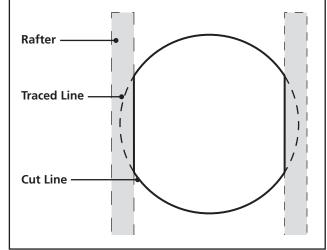






-IMPORTANT-

For 14" skylight with 16" on-center rafter spacing, the 14" template will draw a line that overlaps the rafters. Be sure to adjust your cutting angle to avoid cutting into the rafters. (See illustration)



Section 4b On The Roof

TOOLS & PARTS

Caulk Gun

Claw Hammer

Flat Pry Bar

Ladder

Phillips Screwdriver

2" Screws



3/4" Washers



Roofing Sealant (not provided in kit)



Safety Equipment



Roof Flashing

TIP

The vertical seam of the reflective tube should point to the East or West to avoid irregular light patterns in your room.

Use a flat pry bar to carefully break the seals on the shingles' upslope above the cuthole. Use a claw hammer to remove nails on the shingles above the cut hole.

Generously apply roof sealant around bottom of flashing. Slide top and sides of roof flashing under top shingles.

STOP

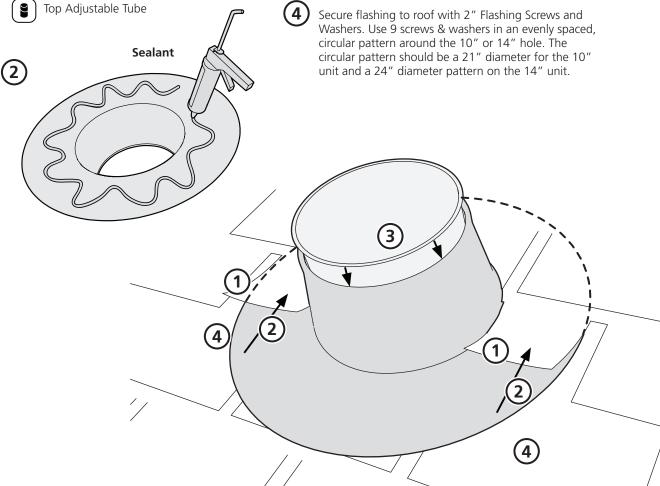
-IMPORTANT-

For short shaft cathedral style installation see Section 10. Do not install dome yet.



Slide Top Adjustable Tube into the flashing to check for proper alignment.





Section 4c On The Roof

TOOLS & PARTS



Ladder



Phillips Screwdriver



Safety Equipment



3/4" Dome Screws



Dome Washers



Top Adjustable Tube



Solar Dome



Exterior Clear Pure Silicone (not provided in kit)



For angled tube installation, reach and adjust the Adjustable Tube so it points to the wire in the ceiling, or adjust the angle of the tube and then insert tube into flashing.

NOTE-

It is easier if 2 people work/turn the tube in opposite directions to angle the tube as needed.



Using the 3/4" dome screws and dome washers (dome washers have the rubber backing – rubber backing should face the dome), mount the dome on the flashing aligning the "N" (molded into outer edge of the dome) towards the North.

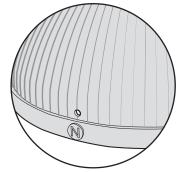
-TIP

Dome screws should be snug but do not over-tighten. Over-tightening can create too much pressure against the dome.

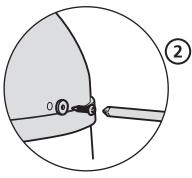


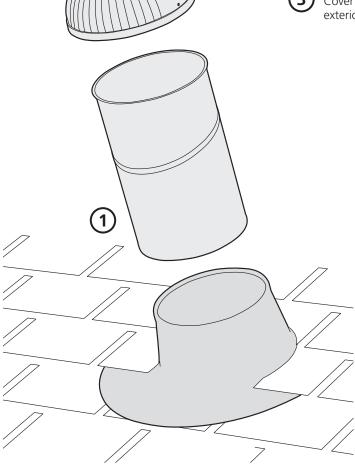
Cover dome screw heads and washers with an exterior clear pure silicone .

Align Toward North



Mount Dome





Section 5 Inside The Room

TOOLS & PARTS

✓ F

Pencil



Phillips Screwdriver



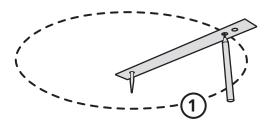
Power Saw

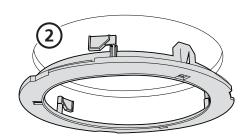


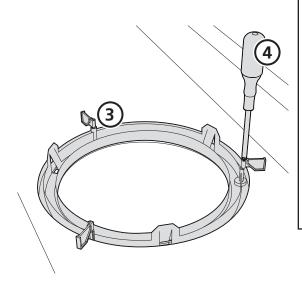
Hole Cutting Template



Ceiling Trim Ring









IMPORTANT-

For 14" skylight with 16" on-center rafter spacing, see box below.

Using the correct Hole Cutting Guide for your size tube and a pencil, locate protruding wire in the ceiling and trace the diameter of the ceiling inner hole using the template marked "A".

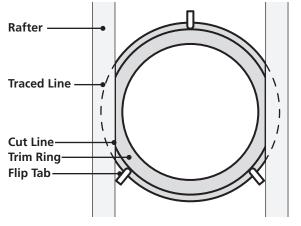
TIP

You may have to drill a hole inside the traced diameter circle to insert saw blade.

- 2 Use a keyhole/drywall saw to cut the hole.
- Slide the Trim Ring up into your ceiling hole. Make sure the flip tabs are turned in. Reach through hole and turn flip tabs out to hold ring in place.
- $oxed{4}$ Secure the ceiling trim ring by tightening the screws.

-IMPORTANT-

For 14" skylight with 16" on-center rafter spacing, the 14" template will draw a line that overlaps the rafters. Be sure to adjust your cutting angle to avoid cutting into the rafters. (See illustration)



Section 6 In The Attic

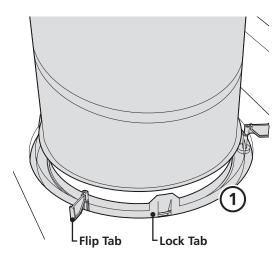
TOOLS & PARTS

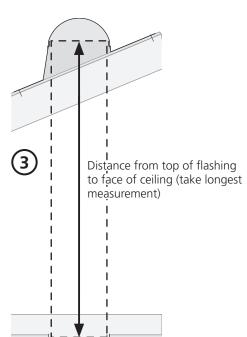
Measuring Tape

Bottom Adjustable Tube



Foil Tape





TIP

The vertical seam of the reflective tube should point to the East or West to avoid irregular light patterns in your room



IMPORTANT-

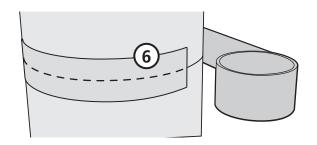
At this point, if you purchased a dimmer or combo kit, this is where you reference the dimmer instructions packaged with the dimmer unit.

- Gently set the Bottom Adjustable Tube flange down on the trim ring. Do not snap in place at this time.
- If you have an angled installation you will need to twist your Bottom Adjustable Tube so it lines up with the Top Adjustable Tube above. (Be sure you have removed the protective film.)

-NOTE

It is easier if 2 people work/turn the tube in opposite directions to angle the tube as needed.

- Measure distance from the top of Roof Flashing to ceiling (See illustration) to determine proper trimming of length of tubes. Refer to "**Tube Length Chart**" in Section 8 for cutting recommendations if you need to shorten the tubes.
- Slide Bottom Adjustable Tube over the outside of Top Adjustable Tube.
- Now you can push down to lock the Bottom
 Adjustable Tube securely into the lock tabs of the ceiling trim ring.
- Tape ALL seams securely with Foil Tape to keep dust, moisture, and insects out of the tube.



Section 7When Cutting Your Tube...

TOOLS & PARTS

Carpenter Pencil



Metal Shears



Safety Equipment



Safety Glasses



Extension Tubes



Gloves

-IMPORTANT-

Once contact is made with adhesive strip on an Extension Tube, parts cannot be repositioned.



Be sure to measure and cut if necessary, before removing adhesive strip and assembling the Extension Tube. Wear gloves when working with sharp edges.

-TIP

When trimming Extension Tubes, always measure and start from the wide end where tube end diameter = 10" or 14".

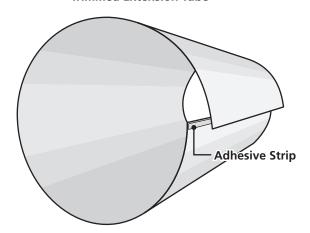


After referring to "**Tube Length Chart**" in Section 8, use metal shears to shorten the Extension Tube. Allow for a 1" overlap at each end where you will connect each tube to another.

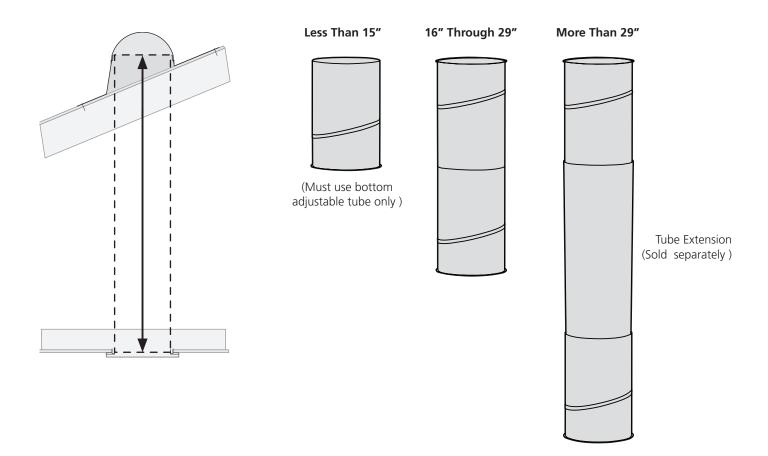


Once Extension Tubes are sized to the proper length, remove tan backing paper from adhesive strip on edge of Extension Tube. Beginning at one end of the Extension Tube, over-lap the edges of the tube/s, aligning the edge of the tube along the crimp on the other side.

Trimmed Extension Tube



Section 8Tube Length Chart



Section 9 Inside The Room

TOOLS & PARTS



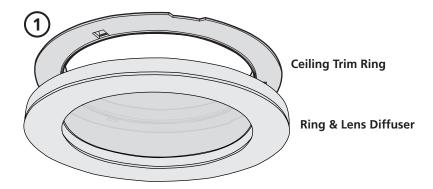
Diffuser Lens Assembly



Install the Diffuser Assembly by aligning the Diffuser with the three tabs on the Trim Ring. Turn clockwise until snug in place on the ceiling.

Diffuser should be rotated at least through two "clicks". (Full rotation is four "clicks") to attach to Trim Ring.

Installation Complete!



Section 10a

Cathedral Ceiling/Short Shaft Installation

TOOLS & PARTS



Ladder



Pencil/Marker



Safety Equipment



Shim or Ruler



Bottom Adjustable Tube



The solar powered dimmer will not work with a cathedral ceiling or some short installations due to space restrictions.

Start with regular installation instructions beginning in Section 1.



Place bottom adjustable tube (with the flanged end down) through the rough-cut hole in the ceiling.



Guide the top portion of the tube up through the roof flashing so it protrudes upward through the flashing collar on the roof.



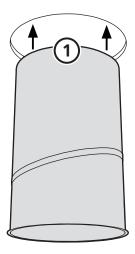
Place a temporary shim or ruler across the ceiling opening. (Approx 1/8" thick)

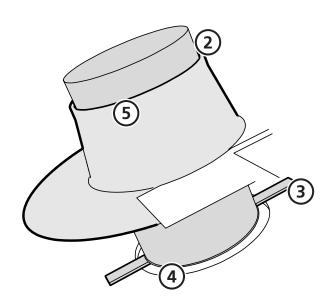


Center the tube over the ceiling cut-out, resting the tube down onto the shim. (The shim will keep the tube from falling through the ceiling.)



On the roof, mark the protruding tube at the top of the flashing collar with a felt pen. This will indicate where the extra length of tubing must be trimmed off for a short shaft install.





Section 10b

Cathedral Ceiling/Short Shaft Installation

TOOLS & PARTS



Gloves



ladder



Metal Shears



Safety Equipment



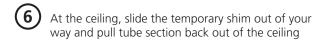
Bottom Adjustable Tube

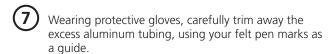
6



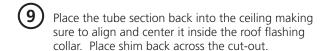
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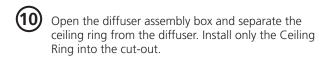
Ceiling Ring



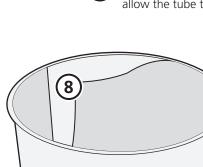


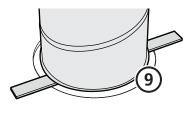


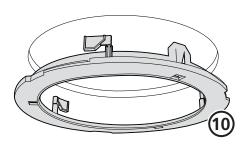


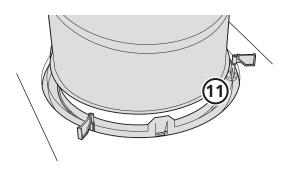


You can now remove the shim from the ceiling and allow the tube to rest centered over the ceiling ring.









Section 10c

Cathedral Ceiling/Short Shaft Installation – On The Roof

TOOLS & PARTS



Ladder



Phillips Screwdriver



Safety Equipment



3/4 Dome Screws



Dome Washers



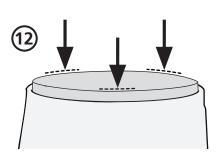
Bottom Adjustable Tube



Diffuser



Solar Lens Dome



-IMPORTANT

Use protective work gloves — The trimmed edge of the tube will be sharp!



While wearing gloves, carefully press downward on the trimmed end of the tube. It will lock down into the 3 plastic locking tabs located in the Ceiling Trim Ring, securing the tube into the rubber gasket in the ceiling trim ring.

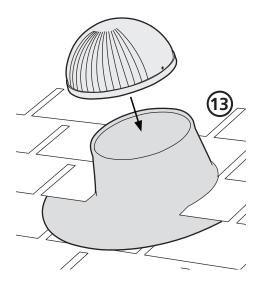


Install the Solar Lens Dome onto the flashing collar. See dome install instructions Section 4c, then return to this page for further instructions.



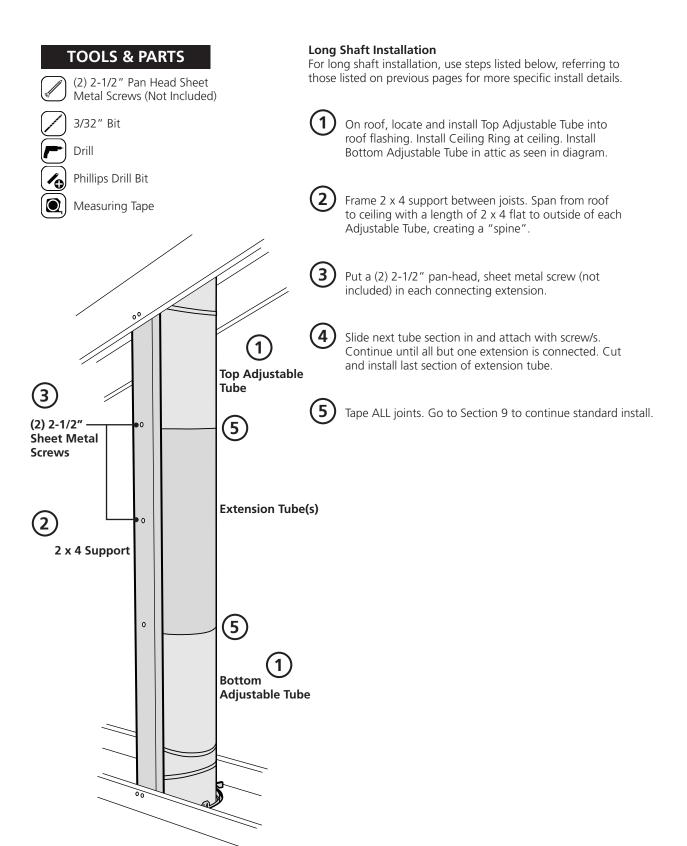
Rotate the Insulated Ceiling Diffuser onto the Ceiling Trim Ring. See Section 9.

Installation Complete!



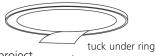


Section 11 Long Shaft Installation

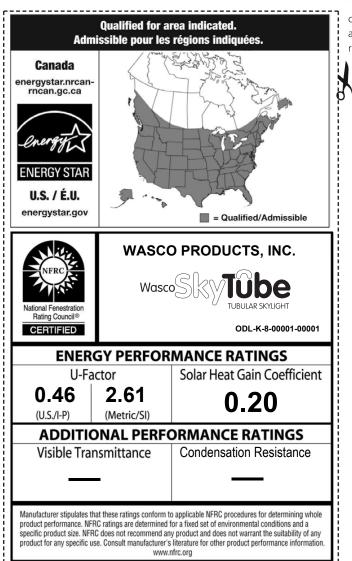


For new homes and projects requiring building permits, cut out this NFRC label once product installation is complete.

(2) Affix to diffuser ring as shown and secure with tape.



Abbel to remain in place until final inspection to qualify project for Energy Star.



cut out along dotted line, and place under diffuser ring after installation.

U-Factor: The lower the value the lower the rate of heat flow. Less heat flows so heating and cooling bills are reduced.

Solar Heat Gain Coefficient (SHGC): Measures ability to block heat caused by sunlight. The lower the SHGC the more it reduces air conditioning costs.



FIRST-CLASS POSTAGE REQUIRED

Attn: Customer Service

WASCO PRODUCTS, INC. 85 SPENCER DRIVE, UNIT A WELLS, ME 04090

Illiandalllandalallandaall

FOLD HERE

Thank you for your purchase of this Wasco product.



Wasco Products, Inc. 85 Spencer Drive, Unit A Wells, ME 04090 www.wascoskylights.com If you would like additional information on Wasco products, visit our website at www.wascoskylights.com or call our toll free number: 1-800-388-0293.

TAPE HERE • DO NOT STAPLE



To validate your warranty, please complete and return within the next 10 days.

	State/Province: Zip:		
Priorie:	nail:		
3. Purchaser's Gender: 🔲 Male 🔲 Female	9. What three factors most influenced your		
4. Type of dwelling where the Skylight will	decision to purchase this product?		
be installed?	☐ Limited Lifetime warranty☐ Leak proof design		
Residential	☐ Energy efficient design		
☐ Commercial	☐ Easy installation and performance		
	95% reflective tubes		
5. Please specify the Skylight purchased?	☐ Accessories		
☐ 10" Tube ☐ 14" Tube	Solar lens dome with reflex optics		
5. Who installed the Skylight?	☐ Made in the U.S.A.		
Homeowner	Dark space in home need more light		
☐ Installer	150 to 300 sqft space illuminated		
☐ Other	Other		
Specify:	Specify:		
7. Diagonal de la contra del contra de la contra del la contra de	10. Please rate the overall satisfaction		
Please specify the retailer where you purchased the Skylight?	☐ Excellent ☐ Fair ☐ Poor		
Retailer name:			
Retailer Hairie.	11. Any additional comments?		
8. How did you learn about the Skylight?			
In-store packaging/displays			
☐ Mailing to your home			
☐ Store sales staff			
Recommended by a friend			
☐ Magazine advertising ☐ TV			
☐ Newspaper advertising ☐ Internet search			
Other			
Specify:			
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