



IMPORTANT: Please take the time to read through the ENTIRE instructions prior to starting any work. Light Pipe material is very sharp when cut. Please use extreme caution when handling. **AVOID LEAVING THE PIPE EXPOSED TO THE SUN WITHOUT THE PROTECTIVE COATING OR DIFFUSERS IN PLACE PRIOR TO INSTALLATION.**

TOOLS/MATERIALS NEEDED

- Caulk
- Caulking Gun
- Driver & Bits
- Drywall Saw
- Flashlight
- Gloves
- Hammer
- Ladder/Step Ladder
- Marking Pencil
- Measuring Tape
- Philips Screwdriver
- Plumb Bob (optional)
- Reciprocating Saw
- Safety Goggles
- Stud Finder
- Tin Snips
- Utility Knife
- Wire

MATERIALS/TOOLS TO BUILD A CURB:

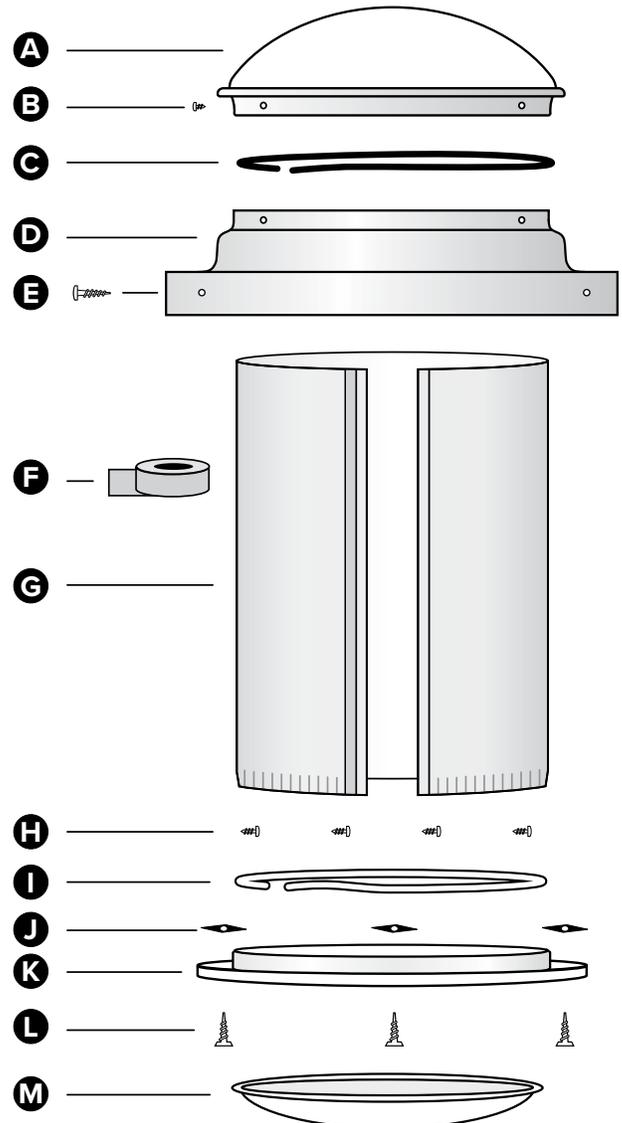
- Pressure-Treated Lumber (2" x 10")
- Hand or Circular Saw
- Wood Screws
- Galvanized Nails
- Roofing Material (matching existing roofing)

TUBULAR SKYLIGHT KIT PARTS:

- A.** Clear UV Protected, High Impact Acrylic Dome
- B.** (4) Phillips Head Stainless Steel ¼" Self-Tapping Screws
- C.** Black Nylon Horse Hair Gasket (self-adhesive)
- D.** Commercial Pure Grade Aluminum Curb Mount Flashing
- E.** (8) 1 ½" Pan Head Stainless Steel Screws
- F.** Heavy Duty Foil Tape
- G.** (2) 24" Light Pipe Sections
- H.** (6) Phillips Head Stainless Steel ½" Self-Tapping Screws
- I.** White Nylon Horse Hair Gasket (self-adhesive)
- J.** (3) Black Speed Nuts
- K.** White Powder Coated Aluminum Trim Ring
- L.** (3) 1 ½" Flat Head Phillips Screws
- M.** High Impact Acrylic Diffuser

PRECAUTIONS:

1. Ensure normal safety precautions are taken when using tools, ladder and walking on roofs.
2. Do not cut any structural members in the house.
3. Install only in dry weather.

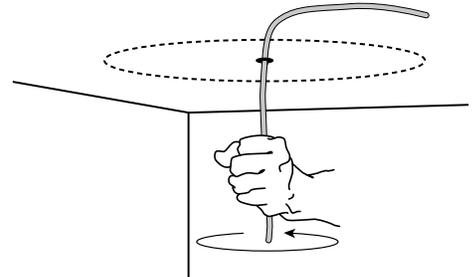


IMPORTANT INSTALLATION POINTERS – PLEASE READ BEFORE BEGINNING:

1. It is critical to plan the placement of the tubular skylight so that curb flashing and ceiling trim ring are aligned. Ensure that the curb is not installed over any framing trusses. **DO NOT CUT ANY STRUCTURAL FRAMING.**
2. When determining the location of the unit, southern exposure is recommended. Also consider potential problems such as objects shading the unit during certain times of the day.
3. Although adjustable elbows are available, straight light pipe runs result in higher light output and easier installation.
4. Prior to starting the job, **CUT PACKING STRAPS ON THE LIGHT PIPE AND UNCOIL THE TUBES.**
5. It's highly critical to check for obstructions above the ceiling which may hinder installation. If possible, visually check to ensure that there are no electrical wires or other obstructions where you plan to install the skylight. If you cannot check visually, use a piece of wire as outlined in Step 1.

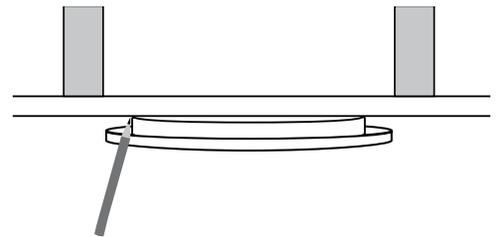
STEP 1

Find the desired location for the ceiling trim ring and ensure that there are no obstructions in the attic space between the roof and ceiling. With a stud finder locate the ceiling joists and center the ceiling ring between joists as close to the desired installation area as possible. If you cannot check visually for obstructions, mark the center of the ceiling ring, drill a hole and insert piece of wire bent at a 90 degree angle. Rotate the wire around 360 degrees. While rotating, feel for resistance that could indicate wire runs or other obstructions.



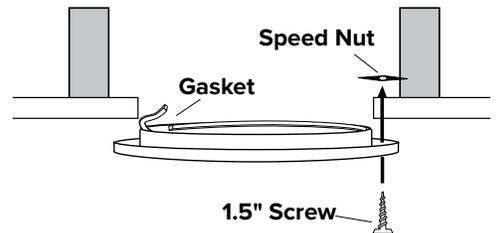
STEP 2

If there are no obstructions, scribe a mark around the trim ring (K), see diagram. Using a drywall saw, cut out the scribed mark in the ceiling.



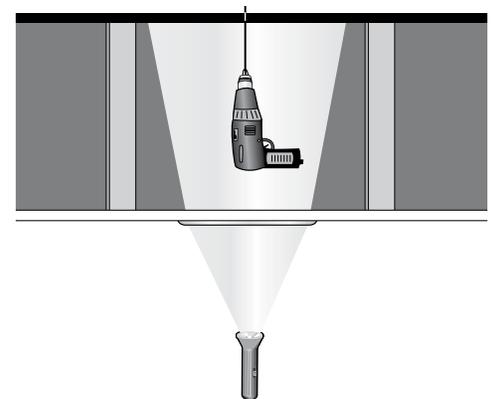
STEP 3

Peel the protective covering off the white horse hair gasket (I) and apply gasket to the INNER lip of the trim ring (K). This gasket ensures a dust free fit between the light pipe and the ceiling ring. Secure the ceiling ring to the ceiling by inserting a 1 1/2" flathead Philips screw (L) into one of the three pre-drilled holes and screwing it up through the drywall into the speed nut (J) provided. Repeat this process for all three screws.



STEP 4

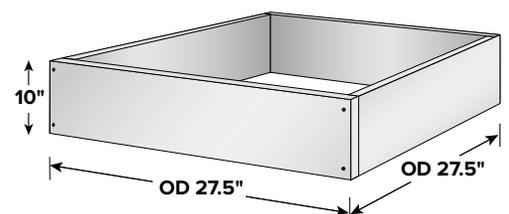
For the roof cutout, place a step ladder under the ceiling ring hole and place a flashlight on top of the ladder. The resulting flashlight beam will mark the location for the centering hole of the flashing unit on the roof. With a drill bit and appropriate extension rods, drill a pilot hole in the marked location on the bottom side of the roof. If there is access to the attic space, a plumb bob may also be used.



STEP 5

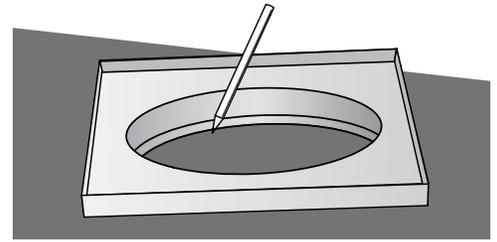
Assemble a curb with the outside dimensions slightly smaller than the width of flashing (outer dimension approximately 27.5" x 27.5"). The size of curb will vary depending on roofing material. Build curb using pressure-treated lumber secured at all four corners with wood screws or galvanized nails (use 2" x 10" lumber and adhere to local building codes).

NOTE: Do not build curb prior to being on job site.



STEP 6

On the roof, locate the centering hole drilled in Step 4. Center the curb over the hole and ensure that the curb placement is **NOT** over any structural trusses. Outline the diameter of the hole that the pipe will pass through by turning the flashing (**D**) upside down and marking the **inside** lip of the flashing unit as shown.



STEP 7

With a reciprocating saw, cut the diameter of the hole **1" LARGER** than the area marked in Step 6.

IMPORTANT: The light pipe must pass between the roof rafters. **DO NOT CUT THROUGH ANY FRAMING MEMBER.**



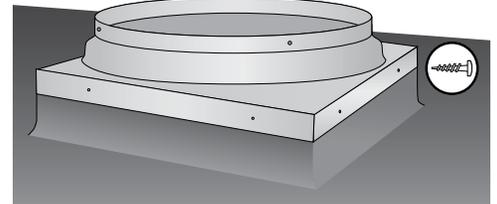
STEP 8

Center the curb over opening and toe-nail into existing roofing using galvanized nails. If necessary, build blocking to ensure the curb is secure. Wrap curb with roofing material to prevent leaking.



STEP 9

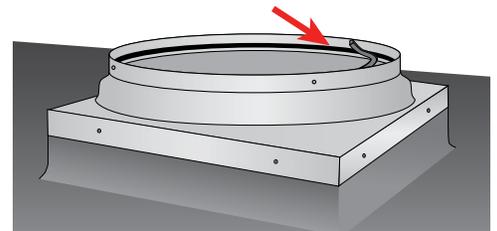
Attach the skylight flashing (**D**) to the curb using (8) 1 1/2" Phillips pan head stainless steel screws (**E**) provided through the pre-drilled holes on the skylight flashing lip.



STEP 10

Peel the protective backing off the black nylon horse hair gasket (**C**) and apply gasket to the **INNER** lip the flashing collar.

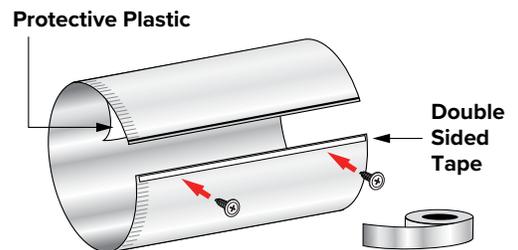
NOTE: If also installing a security bar (sold separately), place the black horse hair gasket **3/4" BELOW THE EDGE** of the flashing rim in order to leave room to attach the security bar.



STEP 11

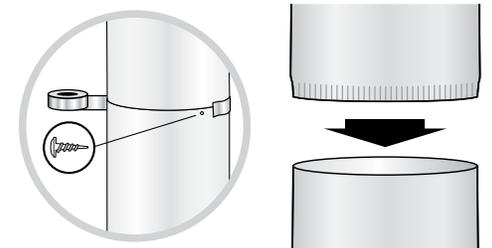
Assemble the light pipe sections (**G**) by peeling back the protective plastic that covers the mirrored interior about 1" from the **opposite edge** of the double sided tape. Remove the paper cover over the double sided tape. Overlap the edges of the light pipe to seal. Put pressure on both sides of the seal to ensure a good bond. Secure tube using the (2) 1/2" sheet metal screws (**H**) provided. Then, place foil tape (**F**) over the entire seam to strengthen seal.

IMPORTANT: Remove all the plastic from the light pipe interior to avoid having the color of the plastic reflecting through the diffuser.



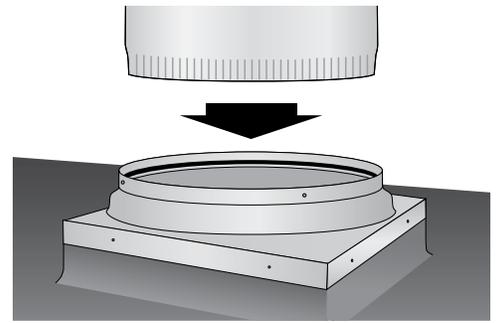
STEP 12

Join the two light pipe sections (**G**) together by placing the crimped end of one of the sections into the other section of light pipe. Secure with (2) 1/2" sheet metal screws (**H**) and seal joints with heavy-duty foil tape (**F**).



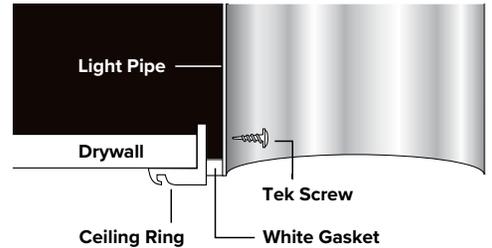
STEP 13

Insert the light pipe (G) through the flashing (D) with **CRIMPED END DOWN** and gently rock pipe back and forth with slight downward pressure. Slide the pipe down until it terminates evenly with the inner collar of the trim ring (K).



STEP 14

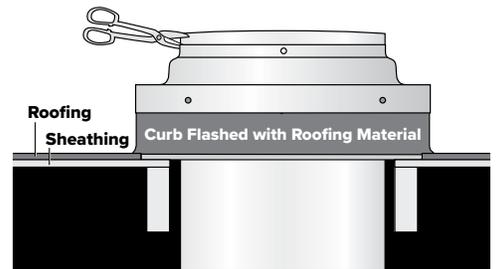
Back inside, secure bottom of light pipe to ceiling ring with (4) self-tapping screws (H).



STEP 15

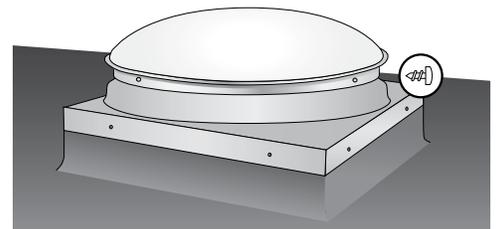
Back on the roof, if there is excess pipe sticking out of the flashing, using tin snips, cut from the top down to the lip of the flashing and trim off the excess pipe.

CAUTION: The light pipe is extremely sharp, handle with care and wear gloves.



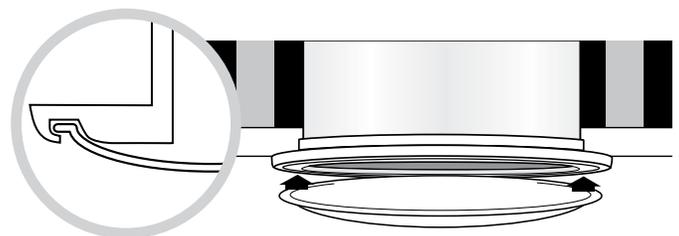
STEP 16

Place dome (A) on top of the flashing unit. Secure dome to flashing by screwing in the (4) self-tapping Phillips head 1/4" (B) screws provided into the pre-drilled holes in the dome collar.



STEP 17

Place the diffuser (M) into the trim ring. Start with inserting one end of the diffuser lip into the channel on the inside of the trim ring. Slightly bend the diffuser and work the rest of the diffuser lip into the trim ring channel until the diffuser sits completely inside the trim ring.





21" Tubular Skylight Lifetime Limited Warranty

Natural Light Energy Systems (hereinafter NLES) warrants any tubular skylight manufactured by NLES to be free from defects in materials and workmanship to the original residential purchaser (hereinafter CONSUMER) from the date of purchase. All aspects of the Warranty are subject to the following limitations, terms and conditions.

1. DURATION OF WARRANTY

If a NLES tubular skylight (hereinafter "Equipment") is determined to have a defect in material or workmanship, NLES will, at its sole discretion, repair or replace the defective part at NO CHARGE to the CONSUMER, (excluding labor, and applicable shipping and handling costs) for the duration of the CONSUMER'S ownership of the original equipment (hereinafter "LIFETIME").

2. LIMITATIONS OF COVERAGE

This Warranty extends only to the CONSUMER for damage resulting from defects in materials and workmanship, it does not extend to damage caused by the CONSUMER'S neglect or abuse, or by accident, to damage caused by wind, hail or abnormal weather conditions, or to damage caused by acts of God, civil insurrection or extraordinary circumstances which are beyond the control of NLES.

NLES shall not be liable for any direct or indirect damage resulting from the use of the Equipment, and in no event shall the extent of the Warranty coverage exceed the purchase price of the Equipment.

NLES assumes no liability for the determination of the proper equipment necessary to meet a CONSUMER'S requirements, nor does it authorize others to assume such obligations on its behalf.

3. MISCELLANEOUS

In order to be considered for validation, all claims for Warranty coverage must be accompanied by a copy of the purchase agreement indicating the date of initial installation, NLES reserves the right to inspect the tubular skylight prior to honoring any Warranty claim.

This Warranty gives you specific legal rights, and you may have other rights which may vary from state to state. Any and all inquiries or claims under this Warranty must be submitted in writing to **Natural Light Energy Systems, Attn: Warranty Department, 10821 N. 23rd Avenue, Phoenix, AZ 85029** or by e-mail to info@nltubular.com.



To register your Tubular Skylight, please visit
www.nltubular.com/warranty-registration.html



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