



IMPORTANT! Before Installing...

Please take the time to read through the ENTIRE instructions prior to starting any work.

Precautions

1. Light Pipe material is very sharp when cut. Please use extreme caution when handling the light pipe.
2. Light Pipe is very bright, use proper eye protection when installing. **AVOID LEAVING THE PIPE EXPOSED TO THE SUN WITHOUT THE PROTECTIVE COATING.** (Protective coating should only be removed in Step 13.)
3. Ensure normal safety precautions are taken when using tools and walking on roofs.
4. Do not cut any structural members in the house.
5. Ensure wire runs, plumbing or ventilation ducts will not interfere with the light pipe installation.
6. Measure twice and cut once.

Parts List

- A. Clear UV Protected, High Impact Acrylic Dome
- B. (4) Phillips Head Stainless Steel 1/4" Sheet Metal Screws
- C. Black Nylon Horse Hair Gasket (self adhesive backed)
- D. (6) Philip Head Stainless Steel 1 1/2" Screws
- E. 1100 Series Aluminum Flashing
- F. Heavy Duty Foil Tape
- G. Light Pipe
- H. White Nylon Horse Hair Gasket (self adhesive backed)
- I. (8) Tek Screws
- J. (4) U-channel PVC self-adhesive tabs (8 for 18" model)
- K. (3) Black Speed Nuts
- L. Ceiling Ring
- M. (3) 1 1/2" Phillips Screws
- N. (2) Small Clear Polycarbonate Lenses
- O. (1) Large Clear Polycarbonate Lens
- P. High Impact Acrylic Soft White or Prismatic Diffuser
- Q. White Powder Coated Aluminum Trim Ring
- R. Caulk

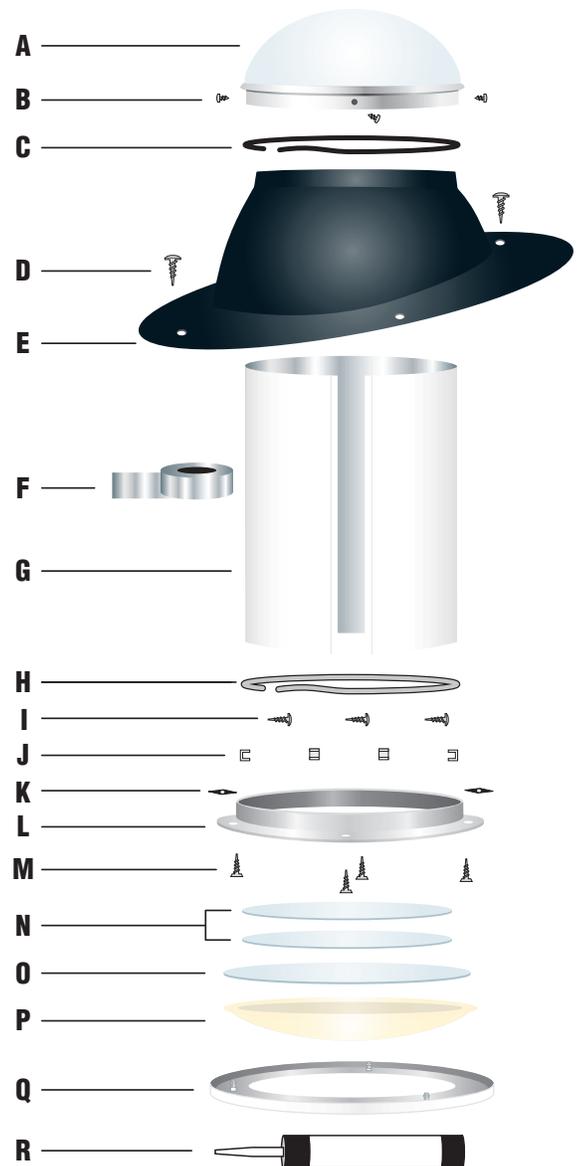
Optional:

Angle Adapter
(not included)



Tools Needed

- Caulking Gun
- Drill
- Drywall Saw
- Flashlight
- Flat Bar
- Hammer
- Marking Pencil
- Measuring Tape
- Reciprocating Saw
- Safety Goggles
- Screwdriver
- Stud Finder
- String
- Tin Snips
- Utility Knife
- Wire



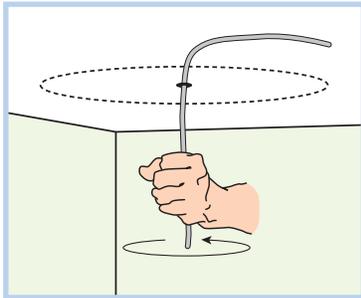
Installation Pointers

- When determining location of the unit, southern exposure is recommended. Also consider potential problems such as objects shading the unit during certain times of the day.
- Although adjustable elbows are available for use, straight light pipe runs result in higher light output and easier installation.
- Prior to starting the job, cut packaging straps on the light pipe and uncoil the tubes.
- It is highly critical to check for obstructions above the ceiling which may hinder the installation. If possible, visually check to ensure that there are no electrical wires or other obstructions where you plan to install the sky light. If you can not check visually, use a piece of wire as outlined in Step 1.

Please allow 2 hours to complete the installation. Components and hardware are referenced to the corresponding letters on parts list on front page.

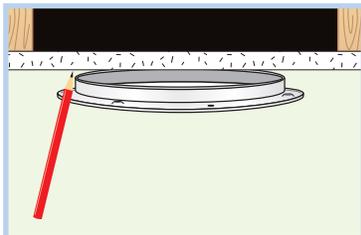
STEP 1

To facilitate installation, once the desired location is obtained, ensure that there are no obstructions in the attic between the roof and ceiling or on the roof. With a stud finder, locate the ceiling joists and center the ceiling ring (L) between joists as close to the desired installation area as possible. Mark the center of the ceiling ring (L), 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.



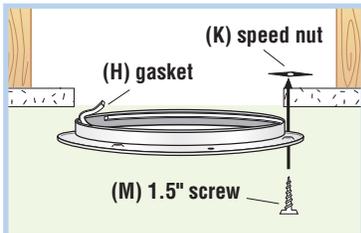
STEP 2

If there are no obstructions, scribe mark around the ceiling ring inner ring (L). Using a drywall saw, cut out the scribed mark in the ceiling.



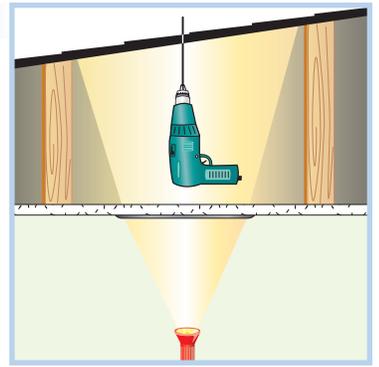
STEP 3

Install the ceiling ring (L) on the ceiling. Place ceiling ring in the hole cut in Step 2. Peel the protective covering off the white horse hair gasket (H) and apply gasket to the inner lip of the ceiling ring (L). This gasket ensures a dust free fit between the light pipe and the ceiling collar. Secure the ceiling collar to ceiling by inserting a 1 1/2" Phillips flathead screw (M) into one of the three pre-drilled dimpled holes and screwing it up through the drywall into speed nut (K) provided. Repeat this process for the other two screws.



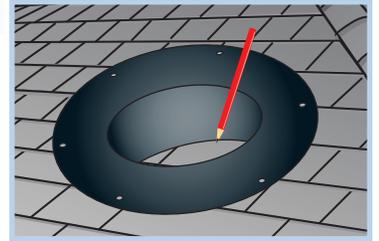
STEP 4

Place a ladder under ceiling ring hole and place a flashlight on top of ladder. The resulting flashlight beam will mark the location for centering hole. With a drill bit and appropriate extension rods, drill a pilot hole in the marked location on bottom side of roof. If attic is accessible, a plumb-bob may also be used.



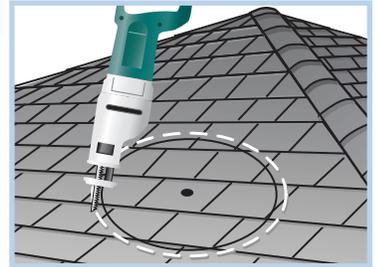
STEP 5

On the roof, locate the centering hole and outline the diameter of the hole that the pipe will pass through by turning the flashing (E) upside down and marking the inside of the flashing unit.



STEP 6

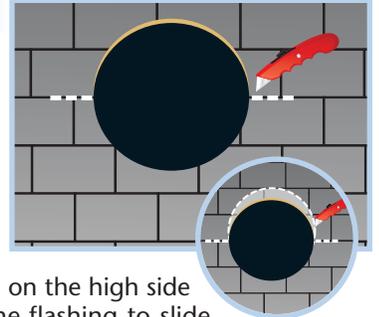
IMPORTANT: Light pipe must pass between roof rafters. **DO NOT CUT THROUGH ANY FRAMING MEMBER.** With a reciprocating saw, cut the diameter of the hole 2" larger than the area marked in Step 5.



STEP 7

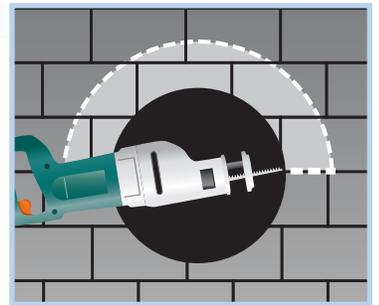
With a utility knife, cut a four inch slit through the shingles and tar paper at the 3:00 and 9:00 o'clock positions of the flashing. This allows for the footprint of the flashing to be inserted under the shingles.

NOTE: Additional shingles may also need to be removed on the high side towards the ridge to allow the flashing to slide over hole (see inset).



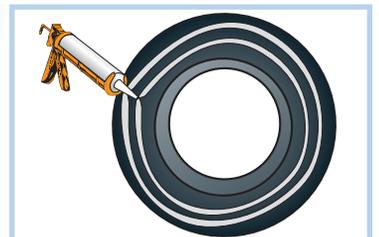
STEP 8

Insert the reciprocating saw blade sideways at the 3:00 o'clock position and start cutting the roofing nails up and around to the 9:00 o'clock position. This process removes nails that prevent flashing foot print from sliding under shingles.



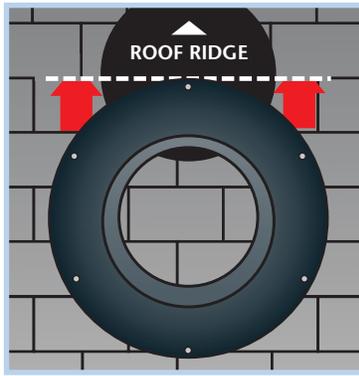
STEP 9

Caulk the **underside** of the flashing (E) with the provided caulking material (R). Two concentric rings of caulking material is sufficient.



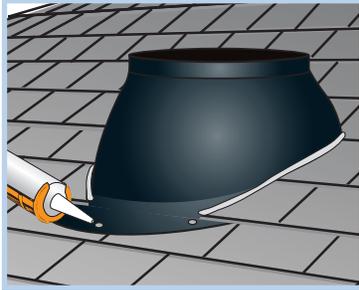
STEP 10

Taking care not to smear caulk on the exposed shingles, slide flashing under tar paper and shingles and force flashing up until the shingles come in contact with the raised portion of the flashing. The bottom side of the flashing will be on top of the shingles. Secure flashing with six Phillips head screws (D).



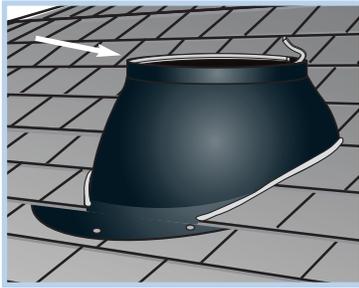
STEP 11

Apply caulk over all exposed screw heads (since they will be exposed to the weather). Use remaining caulk to seal the areas where the 4" slits were made and around area where shingles meet with raised area of the flashing.



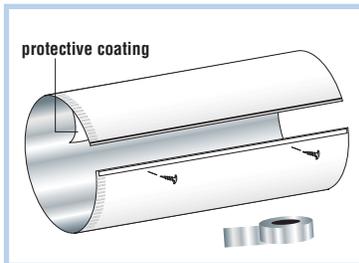
STEP 12

Peel the protective backing off the black horse hair gasket (C) and apply gasket on the inner lip of the flashing collar (E).



STEP 13

To assemble light pipe (G), peel back the protective coating that covers the mirror coating that covers the mirror coating about 1" from the opposite edge of the double-sided tape. Remove the paper cover over double-sided tape and overlap 3/4" to the scribe line. Put pressure on both sides of seal to ensure a good bond. Secure the tube using the provided tek screws (I) - two screws per tube. Then place foil tape (F) over the entire seam to strengthen seal.



STEP 14

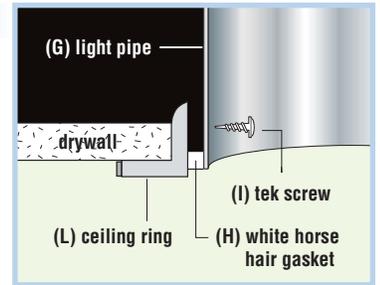
When joining the two light pipe sections (G) together, with the crimped end down, place crimped end of one pipe into the non-crimped end of the other pipe. Secure with two tek screws (I) and seal joints with foil tape (F).

IMPORTANT: Remove protective coating that covers the mirror finish inside the tube.



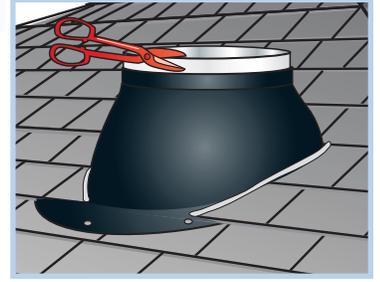
STEP 15

Insert light pipe (G) through the flashing unit with crimped end down (E) and gently rock pipe back and forth with slight downward pressure until pipe terminates evenly with the inner collar of the ceiling ring (L). Trim any excess light pipe with tin snips. Secure bottom of light pipe to ceiling ring with two tek screws (I). **NOTE:** Use caution, light pipe is extremely sharp.



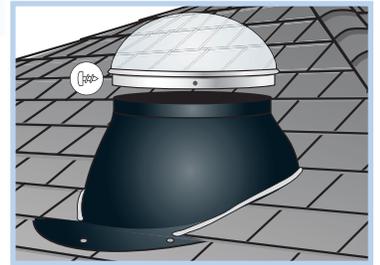
STEP 16

If there is excess light pipe (G) 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. **NOTE:** Use caution, light pipe is extremely sharp.



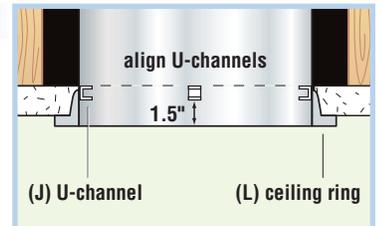
STEP 17

Place dome (A) on top of the flashing unit (E). Secure the dome to the flashing by screwing (4) 1/4" sheet metal screws (B) through the pre-drilled holes on the dome collar and into the lip of the flashing.



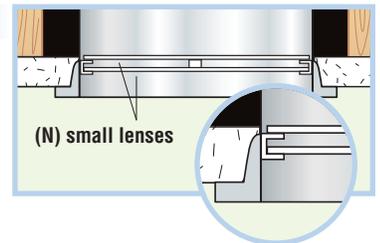
STEP 18

Remove paper backing from the adhesive tape on the U-channels (J) and place 1.5" from bottom of light pipe equidistant from each other so legs of the U-channels align vertically.



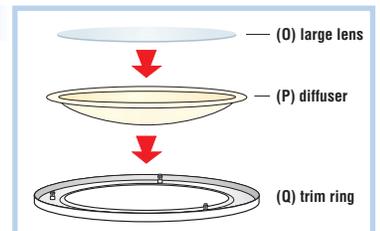
STEP 19

Remove protective film from both sides of small lenses (N). Place one lens on TOP of the U-channel leg (J) and the other lens (N) on the BOTTOM of U-channel leg (J) (see close-up).



STEP 20

Place the diffuser (P) into the white powder coated trim ring (Q). Remove protective film from both sides of large lens (O) and place on top of diffuser (P).



STEP 21

Line up the three steel pins (four pins on 18" unit) of the white trim ring (M) with the holes on the ceiling ring (K). Push up to snap in place.

