



Curb Mount Installation Instructions for Sloped Roofs

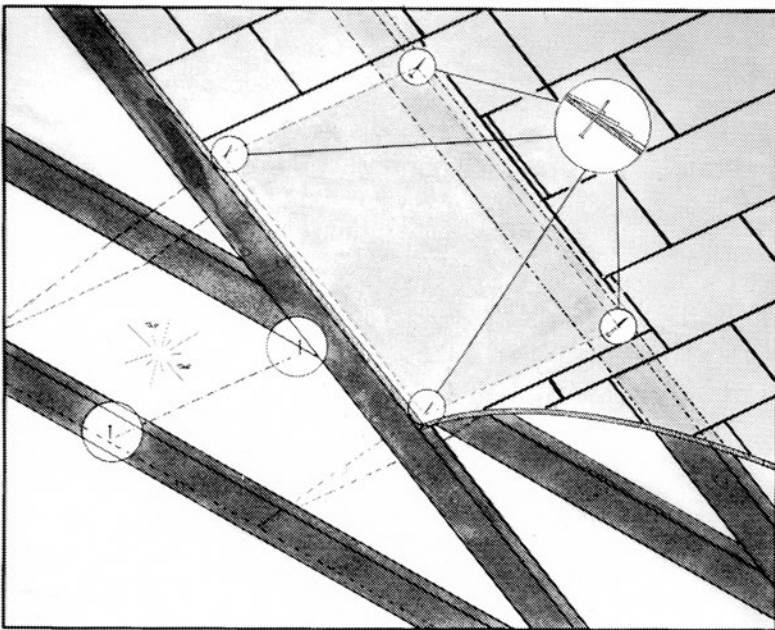


Figure 1

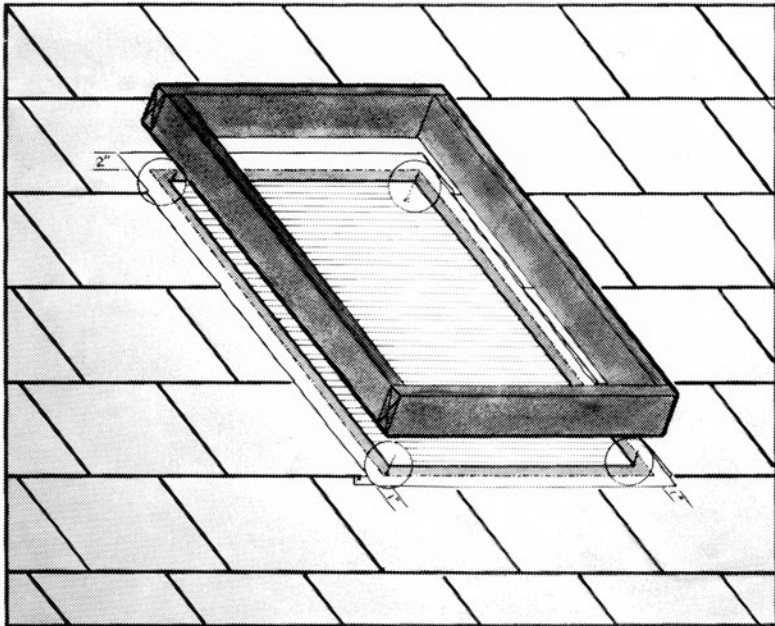


Figure 2

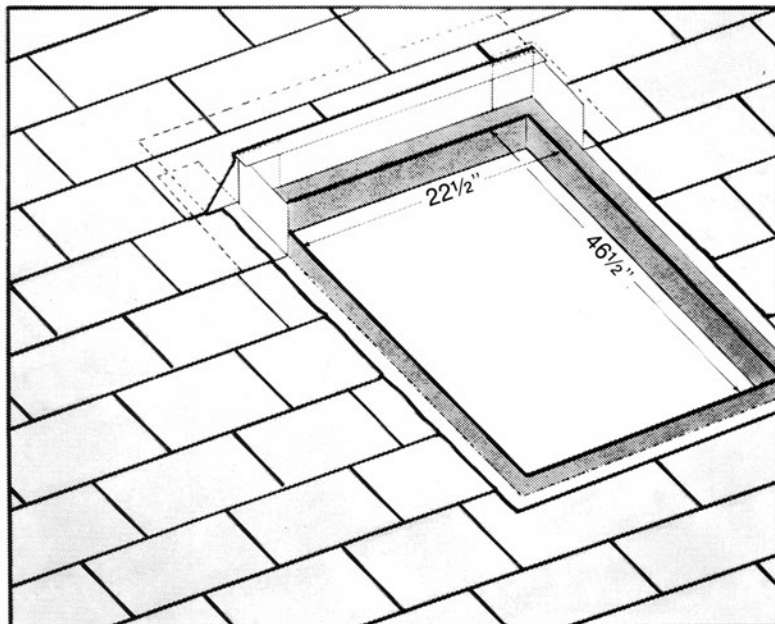


Figure 3

TOOLS REQUIRED:

Flashlight	4-ft. Carpenter's Level
Framing Square	Flat Pry Bar
Measuring Tape	Circular Electric Saw
Hand Saw	(Electric miter saw is a time saver)
T Bevel	Drywall Saw
Utility Knife	Hammer and Stapler
(8-ft. Step Ladder and 36 in. 2x10 Kneeling Board)	

PROCEDURE:

1. Location: (Figure 1)

In homes where the inside finish is completed:

- a) Find attic access and open it.
- b) Before entering, enlist the help of someone to tap on the ceiling with a broom handle in the area where you prefer to have the skylight tunnel.
- c) Once you have entered the attic and your helper is creating enough noise for you to hear, carefully move towards the sound. Walk only on the ceiling joists or the truss chords. (Be careful not to disturb the insulation.)
- d) When you have arrived at the location of the tapping, move the insulation away from the truss space.
- e) Now, taking two small nails, drive them through the ceiling at points beside each of the two trusses that you will be working in. (Most homes have 24" on centre, 22 1/2" inside).
- f) At this point, return to the room below and confirm that the location is suitable. Ensure that the location you choose has no plumbing components in the tunnel area. Electrical wiring that runs through the tunnel should be rerouted at a later time. It is not recommended that the tunnel should be placed in an area where the wiring is larger than 12 gauge, ie. 12/3 or 12/2. When rerouting wiring, always turn the Main Breaker OFF, then do your cuts and junctions (use metal junction boxes with covers for all connections). Place boxes in an area visible from the attic access (spray painting the covers red will make it easy to find them should you ever need to). Follow all Electrical Code By-laws or have the work performed by a qualified electrician. **BE SAFE - YOU'RE WORTH IT!!**

2. Curb Opening: (Figures 1 & 2)

Once you are satisfied with the location of the tunnel, go back into the attic to the area of the tunnel and determine where you wish to place the curb opening in the roof so that it aligns with the spacing you desire for the bottom of the tunnel. If you are installing a 2'x4' unit then the inside of the curb opening is to be 22 1/2" x 46 1/2". Now drive nails through the roof decking at points that represent the inside corners of the curb. Make sure that the nails protrude from the roofing membrane so that you can find them once you are on top of the roof.

3. Cutting The Curb Opening:

Now that you have established where the opening will be in the roof, construct the curb (fig.2) and carry it, along with a circular saw and a chalk line, onto the roof. Locate where the nails have stuck through the roof and place the curb down over the nails so that the nails are found at the inside corners of the curb. Now take the chalk line and snap lines around the outside of the curb (1" away from the curb is adequate to allow leaves and needles to be washed away from the curb).

Remove the curb now and drive the nails back through the roof. Using a hook-blade utility knife, cut away the shingles inside the lines all the way to the roof sheathing. Next, use the circular saw and cut away the roof decking, using the nails as points to cut to (keep in mind that the tunnel opening is 22 1/2" x 46 1/2"). Now that you have opened up the roof, you are ready for the next step.

4. Installing The Flashing And Curb:

The crucial part of LEAK-FREE Skylights is the flashing. Use extra care in this part of the operation. Remember: water runs downhill. If you ensure that it is always redirected onto another surface that leads to another that eventually carries it away

from the skylight, you will have little trouble. First, use the pry bar to remove any nails that will obstruct the head pan (a). Now slide the head pan into place under the shingles at the top of the opening (fig.3). The head pan protrudes approximately 2" past the curb on each side. This is to ensure that water coming from above the skylight will be redirected away from the curb. Be sure the head pan is under 2 layers of shingles. Next, place the two top step-flashing, one on each side and butt against the head pan (fig.3). Then place the curb over the opening in the roof and toenail into the trusses with 3" common nails. Ensure that the curb inside corners align with the marks on the trusses. Before completely nailing the curb, check for squareness.

Once the curb is in place, start placing the step flashing under each course of shingles starting from the **bottom** of the curb and working upward to the head pan. Ensure that there is a minimum of 2" overlapping for the step flashing. Two top step flashing are cut differently to the rest so they will slide up under the head pan. One is for the left side and the other for the right side. Fasten the flashing to the top 1" of the curb with $\frac{7}{8}$ " galvanized roofing nails. Make sure that they sit flat on the roof and snug against the curb. Next, install the sill flashing. It slides under the bottom step and on top of the shingles (fig.4). **Note** – Caulking of the corners is advised (fig.6).

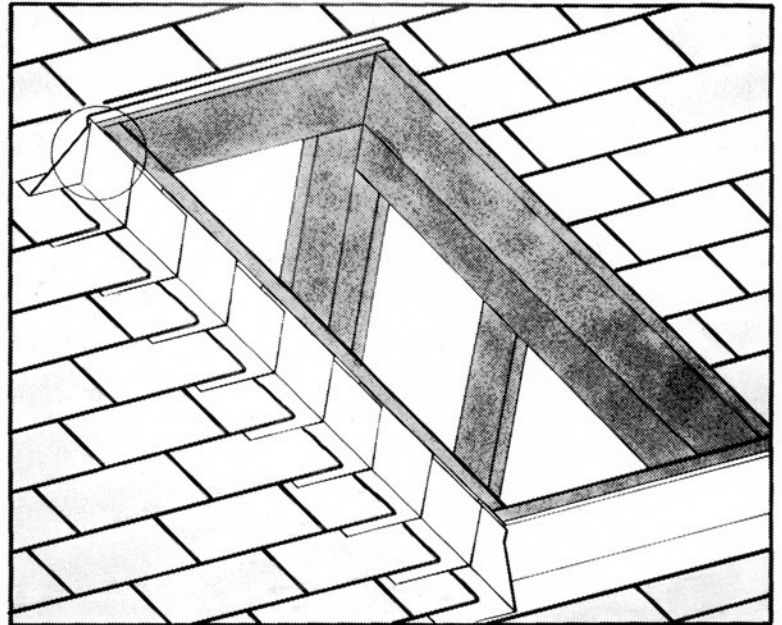


Figure 4

5. Tunnel Construction: (Figures 5)

The shape of the tunnel may vary with location of walls below or to the homeowner's taste. A recommended method has the four corners of the tunnel at 90° to the roof pitch.

The first procedure in framing the tunnel is to install headers between the trusses at the bottom of the tunnel, if you are using the bottom of the tunnel. If you are using the 90° method, use a framing square and the 4' level to determine the exact location to nail these headers.

After installing the headers, nail a 2×4 in each corner from the curb to the header. Next, establish the backing for the side panels. One piece is needed in each corner as well as one piece in the center of each sidewall. It is easiest to toenail these pieces into place. Angle cuts are easily done using a T bevel to transfer the angle. Ensure all framing members are true, straight and aligned with the inside of the curb.

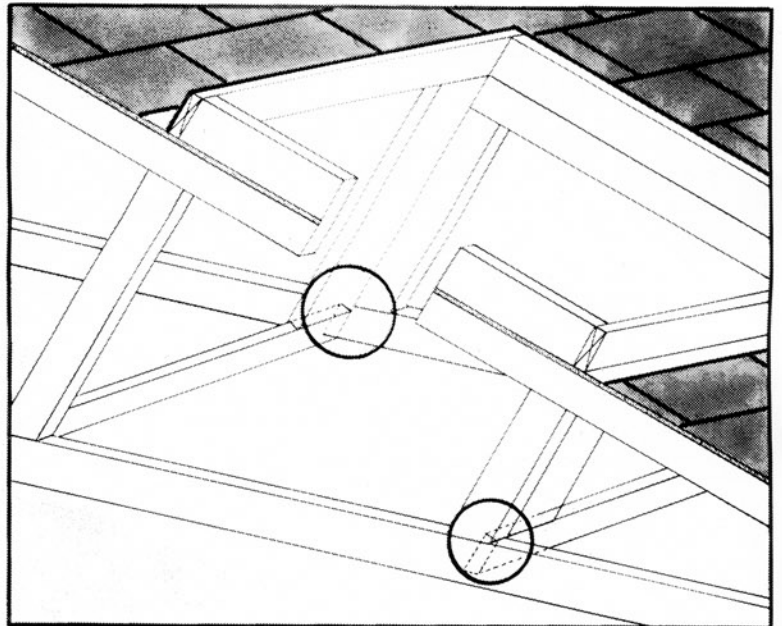


Figure 5

6. Removing Ceiling Material:

Once the tunnel is framed, reroute any wires that pass through it. Before cutting the ceiling material, erect a polyethylene curtain to the ceiling below. The curtain should wrap around the entire face of the tunnel and hang to the floor. This contains any dust created by sawing. The ceiling material can then be removed either from above or from below the ceiling level.

7. Tunnel Finish:

Working from the inside of the tunnel, wrap 2" strips of polyethylene every foot or so around the outside framing of the tunnel. Tie these strips loosely as these will hold the insulation in place. (We recommend installing R20 insulation.) Make certain that the insulation covers the entire tunnel without any gaps.

Once insulation is in place, install a 4 mil polyethylene vapour barrier. Allow 6" overlap on all joints and secure with staples. This will eliminate any moisture forming on the tunnel area.

8. Skylight Installation:

You are now ready to install your **SUNBURST SKYLIGHT**. First apply a bead of caulking to the top of the curb. This is recommended for an airtight fit. Next, drop the **SUNBURST SKYLIGHT** into place and fasten with screws and clips.

9. Interior Finish:

Finish tunnel as preferred: gypsum board, panelling or tongue and groove wood. All make attractive finishes. Keep in mind that light colored finishes allow better light reflection into the room. A wooden trim can be used to finish between the existing ceiling and the tunnel.

This completes your **SUNBURST SKYLIGHT** installation.

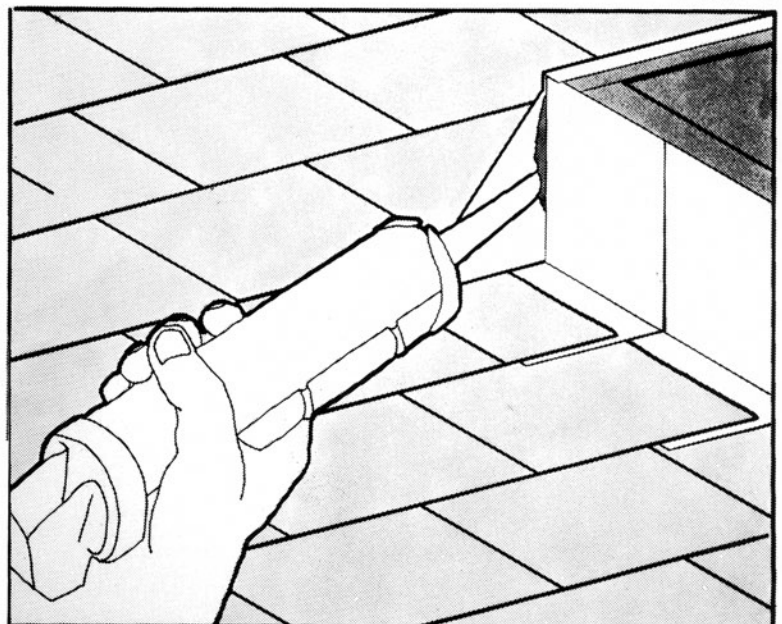
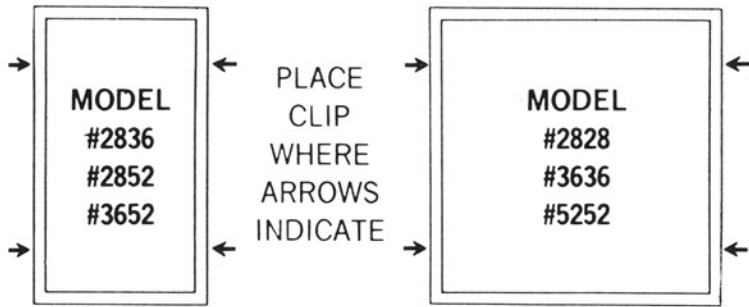
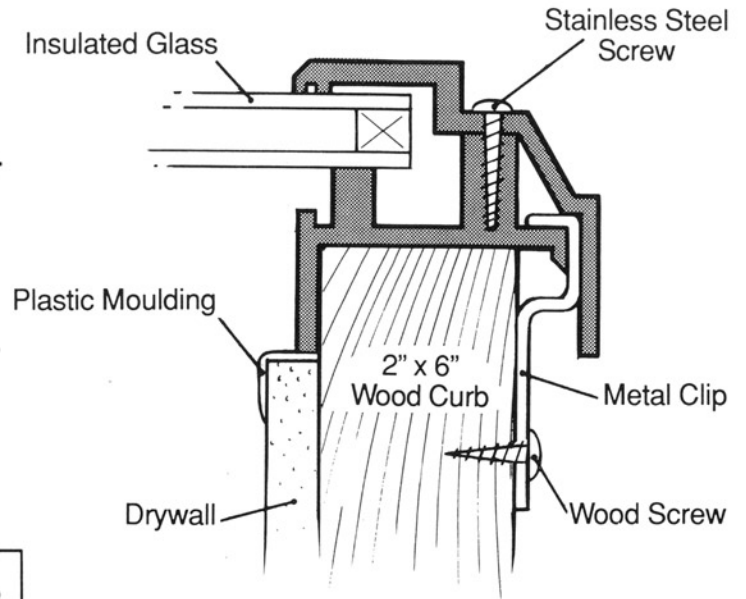


Figure 6



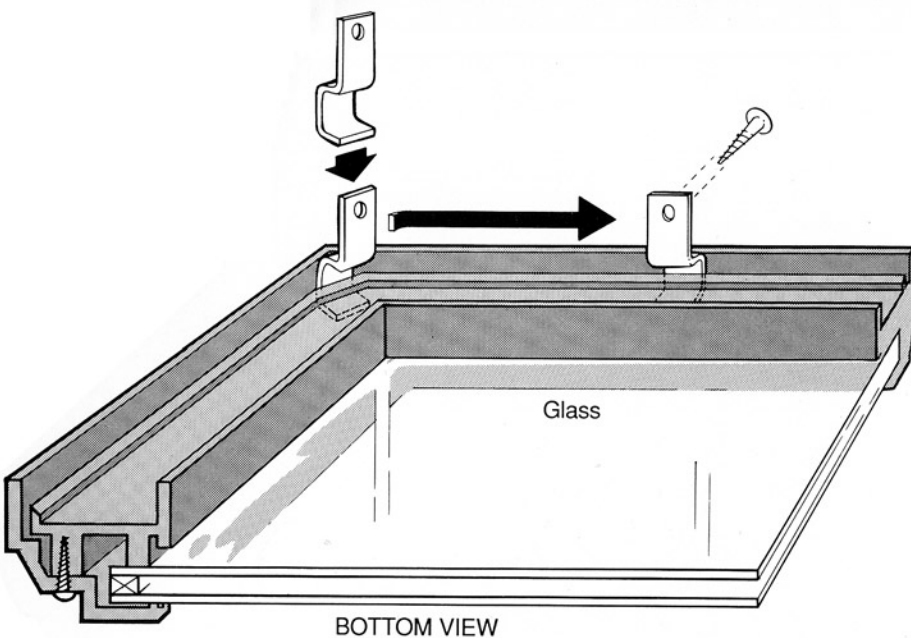
WARRANTY VOIDED IF CLIPS NOT USED

Model	Inside Rough openings	Outside Rough Openings When Using 1 1/2" Thick Curb	
2828	22 1/4 x 22 1/4	25 1/4 x 25 1/4	2 x 2
2836	22 1/4 x 30 1/4	25 1/4 x 33 1/4	2 x 3
2852	22 1/4 x 46 1/4	25 1/4 x 49 1/4	2 x 4
3626	30 1/4 x 30 1/4	33 1/4 x 33 1/4	3 x 3
3652	30 1/4 x 46 1/4	33 1/4 x 49 1/4	3 x 4
5252	46 1/4 x 46 1/4	49 1/4 x 49 1/4	4 x 4



Installation

To fasten skylight to curb, use supplied metal clips. Insert clips at corners; slide away from corner approximately 8", and screw into curb from outside.



LIFETIME GUARANTEE

Sunburst Skylights are guaranteed against defects in material and workmanship for Life, to the original purchaser, provided such units are installed in accordance with our approved installation instructions. Liability of the manufacturer is limited under this guarantee to replacement of the defective unit only, exclusive of all shipping charges, installation/re-installation costs and any other associated costs and or damages. No form of glass breakage is covered under this guarantee. Any addition and or alteration to the Sunburst product voids this guarantee.

Proof of original purchase must be presented with any claim. Please retain a copy with this certificate.