

### Installing Roof Flashing (21")

The SunScope kit includes roof flashing base "E" and storm collar "D". While this type of flashing works on many different roofs, tile roofs and tar and gravel roofs (flat) require custom flashing which most roofers fabricate on-site. The flashing base E will require trimming on roofs which have a slope either greater or less than 3/12 pitch. (SEE FIGURE 5 and 6).

**STEP 8:** Place the flashing on top of the Sun Scope so the base of the flashing is parallel to your roof. (SEE FIGURE 6)

**STEP 9:** Confirm that the lower 3 or 4" lie on top of the shingles. If it does not, remove the flashing and add a row of shingles. Seal the flashing to the shingles with roof caulking compound. (SEE FIGURE 6).

**STEP 10:** With the flashing in place and squared, replace the shingles around the flashing. Three or four galvanized roof nails will secure the lower flashing base "E" to the shingles. Be sure to caulk the heads of these nails with silicone. (SEE FIGURE 6).

#### STEP 11: Cylinder Installation

- \* Fit cylinders together by inserting crimped end (male) F into straight end female "H". Remove the film only after completing the installation. (SEE FIGURES 2 & 3).
- \* Wrap the joining points of the two cylinders with the supplied silver tape "G" to Prevent separation. Silicone caulking is also recommended to further seal cylinders.
- \* Insert the cylinder through the ceiling and roof holes until 1/8" protrudes down from the ceiling. The 1/8" overhang makes it easier to apply the caulking around the edge of the hole.
- \* Secure the SunScope by screwing the 1/2" short broadhead screw "N" through the cylinder and into the adjacent joist.
- \* Apply caulking around the SunScope and ceiling on both sides of the drywall ceiling.
- \* If the SunScope is being suspended from the roof it is necessary to screw and tape the two joining cylinders together. Multi-sectioned cylinders are sometimes easier to insert from the roof. Be careful not to damage the ceiling or cylinder when using this insertion method.

**STEP 12:** Apply a generous amount of silicone (about the thickness of a pencil) around the top of the base "E" where it meets the SunScope. (SEE FIGURE 6).

**STEP 13:** Attach and tighten the storm collar "D" to the SunScope directly above the base E. Leave at least 3 1/2" of SunScope exposed for the top dome A and clamp C. Apply generous amounts of silicone to the storm collar and seam of the SunScope as these are the main water seals. (SEE FIGURE 6).

#### Mounting the Top (Clear) Dome

**STEP 14:** If any trimming of the SunScope is needed, do it now. Be sure to leave a minimum of 3 1/2" of SunScope exposed above the storm collar.

**STEP 15:** Slip the dust deflector "C" over the pipe, with the flat side up. Apply the dark fur tape "B" around the top outside perimeter of the SunScope pipe about 1/8" of an inch from top. If the temperature is below 60° F or 16° C the foam will not adhere properly, it is best to apply the tape to the warm pipe indoors and then take it outdoors to install.

