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CUT-AWAY VIEW OF TYPICAL INSTALLATION

CURB MOUNT TOP DOME

CURB GASKET (PRE-INSTALLED)

CURB OR FLASHING FOR ROOF

TRIPLE-PLY PANEL FOR LIGHT WELL

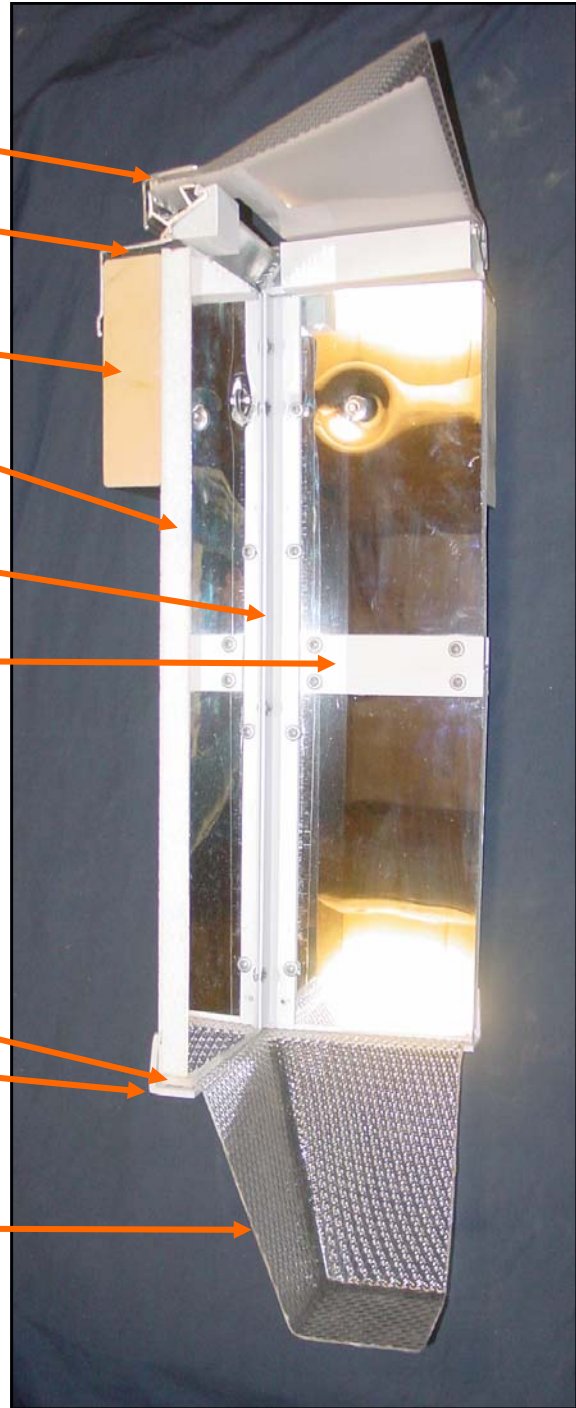
VINYL CORNER CONNECTOR

VINYL 'H' CONNECTOR

DIFFUSER GASKET

VINYL DIFFUSER RETAINER

DROP PAN DIFFUSER



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HARDWARE FOR INSTALLATION

FASTENERS:

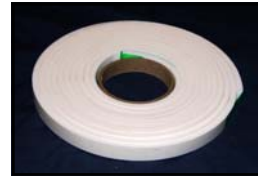
9/16" DRILL POINT MODIFIED TRUSS
HEAD, STAINLESS STEEL

1.5" SHARP POINT TWIN LEAD HEX
WASHER HEAD, STAINLESS STEEL

2" SHARP POINT, MODIFIED TRUSS
HEAD, ZINC COATED
(FIGURE 1)



GASKET FOR DIFFUSER .25" x .75"
(FIGURE 2)



VINYL CORNER CONNECTOR, FOR TRIPLE-PLY
PANELS, CREATING LIGHT WELL
(FIGURE 3)



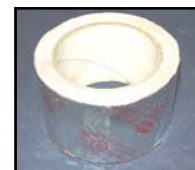
VINYL DIFFUSER RETAINER AND OPTIONAL
OUTSIDE CORNER
(FIGURE 4)



VINYL 'H' CONNECTOR FOR CONNECTING
TRIPLE-PLY LIGHT WELL PANELS
(FIGURE 5)



FOIL TAPE
(FIGURE 6)



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Thank You for purchasing our High Performance Daylighting System!

1. WARNING:

Installation of HUVCO, L.L.C. products requires working on the roof, and handling materials with sharp edges. Both are hazardous to your health and could hurt you or cause serious lacerations. Always be careful when working on the roof, watching out for power lines, etc.

The HUVCO, L.L.C. recommends professional installation of the HPDS by a competent licensed contractor. HUVCO, L.L.C. is not an insurer of, or for any Contractor/Installer of its products and has no control over the installation process. Therefore HUVCO, L.L.C. is to be held completely harmless from any litigation arising from installation mishap, regardless of cause, or severity.

We recommend using only reputable contractors that are experienced licensed and bonded. This is a guide for a typical installation, your specific installation techniques may vary. You are responsible for complying with local building codes.

2. Verify all materials are on site, and suitable weather is expected.
3. Layout according to predetermined spacing criteria.
4. Clear area below the construction area and cover with protective plastic.
5. Mark hole locations from inside using long screw. All four corners must be marked to verify proper alignment. Verify absence of obstructions for light well.
6. Clear roof area to be cut, and mark straight and square template on roof deck.
7. Cut roof deck with proper equipment, the opening must be square.
8. Lay curb (see Chart A for dimensions) in place over hole, verify accurate placement.
9. Remove curb and caulk where curb mates with roof.
10. Replace curb, check for square, and fasten to roof deck.
11. Flash curb to roof deck using appropriate and accepted roofing procedures.
12. Prepare light well: On the roof surface, preferably a flat area, begin assembly of HPDS light well.
 - A.) Insert leading edge of panels into U-channel of the Corner Connector (Figure 3) making sure it is vertically and horizontally flush. (Figure 8) Make sure it slides all the way in before securing to channel with 9/16" Drill Point Modified Truss Head crews. (Figure 1)
 - B.) Continue securing panels together until light well is completely assembled.

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- C.) *Using a razor knife, cut along inside channel to loosen protective liner. Do not completely remove liner until step 14. (Figure 9)*
- D.) *If necessary, install 'H' Connector to create a longer light well. (Figure 5 and 10)*
- E.) *OPTIONAL: Attach light well to a (2 x 4) or other material (not provided) using brackets (not provided) to the inside edge of the light well as shown in Fig. 3 and 4.*
- F.) *After securing box, lift assembled box and lay over on other side making sure the HPSS is 'square' and 'flush'.*

13. Lower Lens Assembly

- A.) *Remove lower lens assembly (consisting of lens, lens retainer frame and gasket). Be careful not to lay the lens down on the prismatic surface.*
- B.) *Apply gasket to inside lens around the outside edge of lens. So it will fit between the bottom of the light-well and the diffuser. (Figure 12)*
- C.) *After gasketing the lens assembly, lift carefully and apply on HPDS light well. Making sure it is "SEATED" and flush. Apply a slight pressure downward and attach with supplied 2" screws.*

14. Lay the light well over carefully; making sure prismatic lens does not rest on any surface. Carefully begin peeling the liner from inside, making sure all liner is removed and unit is clean.

15. Raise the light well up. (2 people recommended) so prismatic lens is pointed downward. Carefully lower the light well through the curb. OR you can raise light well up from below, into the curb.

16. Lower down until light well is flush with the curb. Screw in at least 3 of the 2" (or larger) screws into each panel into the curb. (Figure 13)

17. Apply metal tape (Figure 6) and seal the gap in-between curb and the light well panel. Apply tape as shown (Figure 14)

18. Remove any debris inside the light well (screws, liner and etc.) which may be on lower lens with vacuum, tape, etc.

19. Gasket should be pre-installed on the dome. Lower dome onto curb. Make sure it is square on the curb and attach with supplied 1.5" Sharp Point Stainless Steel screws. (Figure 1).

Remove all debris from roof. Once installed the HPDS should require no maintenance. Normal rainfall should keep the skylight clean. However, washing with soap and water will not harm the unit. No petroleum or ammonia based cleaners should be used.



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Chart A:	Actual Dimension of Skylight Retainer	Recommended Outside Curb Dimension	Recommended Inside Curb Dimensions
Model Number HPDS 2020 (2' x 2')	26.5" x 26.5"	26" x 26"	23" x 23"
HPDS 2040 (2' x 4')	27.5" x 51.25"	26.5" x 50.5"	23.5" x 47.5"
HPDS 4040 (4' x 4')	51.25" x 51.25"	50.5" x 50.5"	46.5" x 46.5"

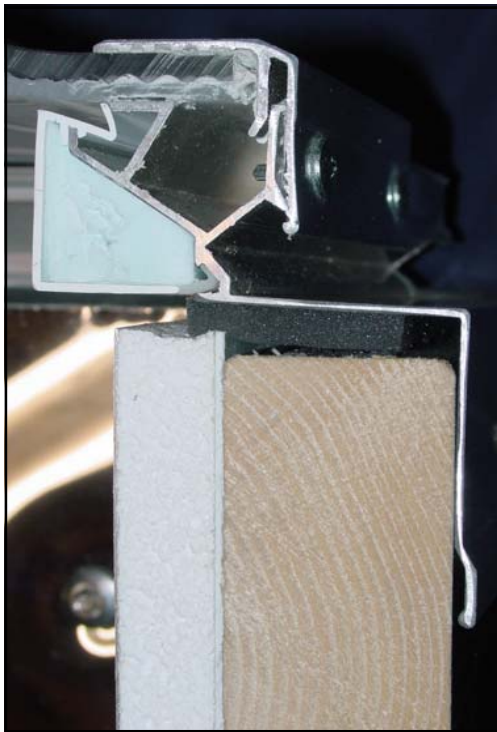


FIGURE 7
CLOSE UP OF DOME AND CURB CONNECTION



FIGURE 8:
INSTALLING CORNER CONNECTORS



FIGURE 10:
OPTIONAL 'H' CONNECTOR FOR
EXTENDING LIGHT WELL LENGTH

FIGURE 9:
SCORING PROTECTIVE
FILM, BEFORE REMOVING
FROM THE LIGHT WELL
PANEL



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FIGURE 11:
SAMPLE OF LIGHT WELL, AND
DIFFUSER INSTALLATION

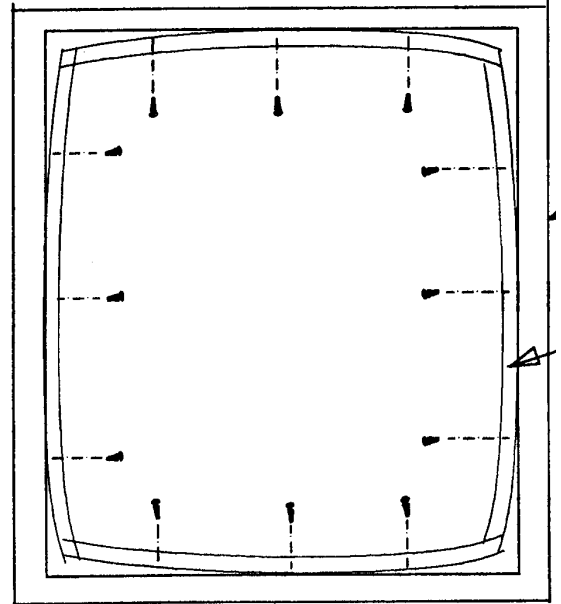


FIGURE 13:
TOP VIEW OF LIGHT WELL INSIDE CURB

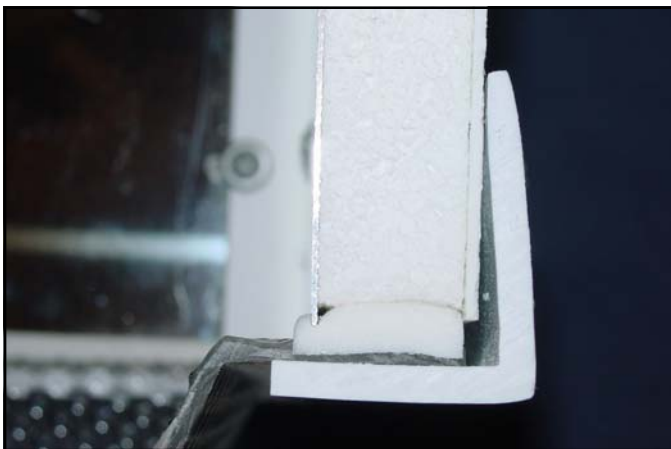


FIGURE 12:
CLOSE UP OF LIGHT WELL, GASKET, DIFFUSER,
AND RETAINER CONNECTION

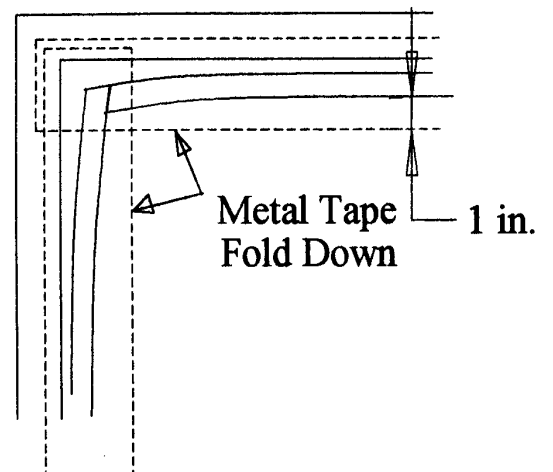
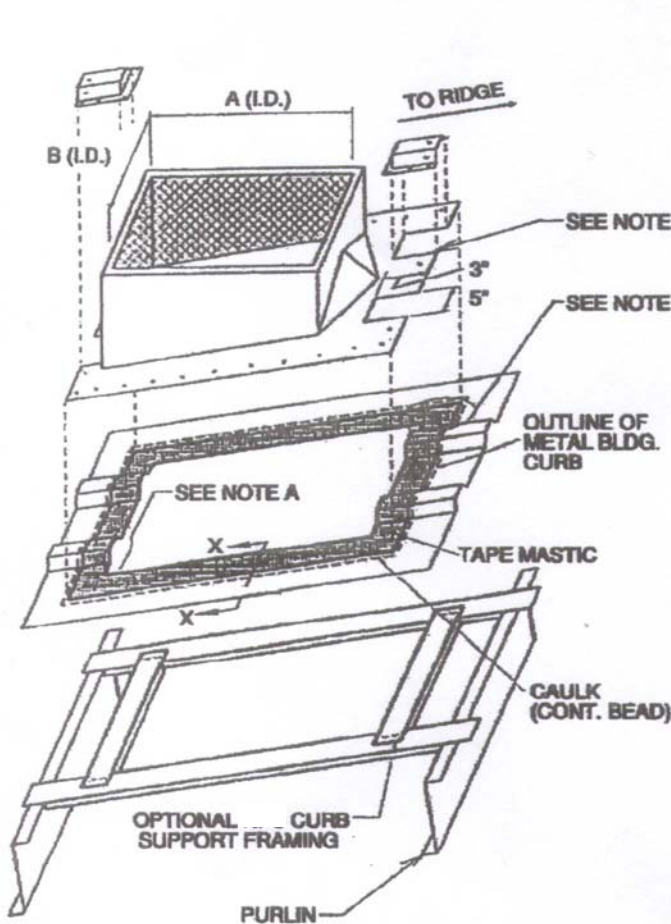


FIGURE 14:
INSTALLATION OF METAL FOIL TAPE
ON TOP OF CURB AND LIGHT WELL

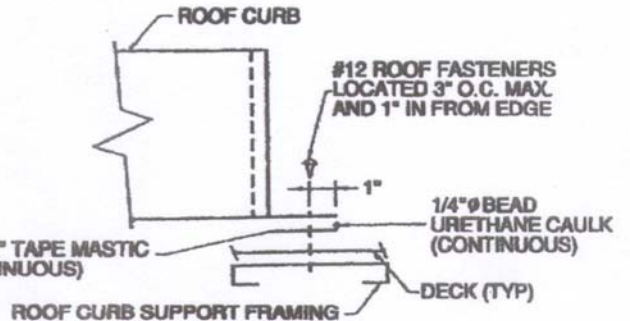


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INSTALLATION DETAIL



SECTION X-X

INSTALLATION STEPS:

1. THE STANDING SEAM ROOF IS TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE ROOF CURB
2. CUT THE OPENING IN THE ROOF PANEL. OPENING SHALL BE 'A' + 8 1/2" X 'B'. A & B DIMENSIONS ARE CURB I.D.
3. MARK THE UP SLOPE AND DOWN SLOPE FLANGES OF THE CURB AND NOTCH 5" WIDE BY 3" DEEP, DO NOT OVERSIZE THE NOTCH.
4. SET CURB OVER OPENING AND MARK THE OUTER FLANGE LINE WITH A FELT-TIP PEN.
5. REMOVE CURB.
6. APPLY 2 1/2" X 3/16" TAPE MASTIC 1/2" INSIDE OF FLANGE LINE.
7. APPLY 1/4" BEAD OF URETHANE CAULK BETWEEN TAPE MASTIC AND FLANGE LINE ON ALL 4 SIDES. (DO NOT APPLY CAULK OVER THE SEAMS AT THIS TIME.)
8. PLACE CURB OVER OPENING AND ATTACH TO ROOF WITH SELF-DRILLING SCREWS.
9. APPLY 6" X 1/4" BEAD OF CAULK UNDER CURL OF DECK.
10. APPLY 3/4" TAPE MASTIC TO UNDERSIDE OF CAP CELL FLANGE. TAPE TO BE 1/4" BACK FROM OUTER EDGE. APPLY 1/4" BEAD OF URETHANE CAULK BETWEEN TAPE MASTIC AND OUTER EDGE.
11. PLACE CAP CELL OVER SEAM AND FILL GAP AT OUTER END OF CAP CELL AND ROOF SEAM WITH URETHANE CAULK.
12. ATTACH CAP CELL WITH SELF-DRILLING SCREWS.
13. TOOL CAULKING AT ALL EDGES OF THE CURB AND CAP CELLS.

NOTES:

- A. DEBURR ALL FIELD CUT EDGES AT PANEL CORRUGATIONS.
- B. NOTCH UPSLOPE AND DOWNSLOPE FLANGES AT CORRUGATION LOCATIONS DO NOT OVERSIZE NOTCHES. PROPER NOTCHING IS CRITICAL TO WEATHERTIGHTNESS.
- C. CUT (DO NOT TEAR) TAPE MASTIC AT 45 DEG. ANGLES AT CORNERS.
- D. ROOFS WHICH REQUIRE THERMAL BLOCKS SHALL HAVE THERMAL BLOCKS BETWEEN FRAMING AND CURB.



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PHOTO PAGE OF DIFFERENT ROOF CURBS



Site built wood (2"x8") roof curb (sitting upside down on roof). Preparing to install gasket and flashing



The same site built wood roof curb pictured to the left, flashed in with coil stock



Site built wood roof curb on asphalt shingle roof with step flashing and vinyl siding



Factory built metal roof curb (pictured upside down with gasket installed) ready to be installed on metal roof



Factory built metal roof curb in place, ready for fasteners



Factory built metal roof curb, secured in place, with built-in diverter or cricket on the peak side of roof

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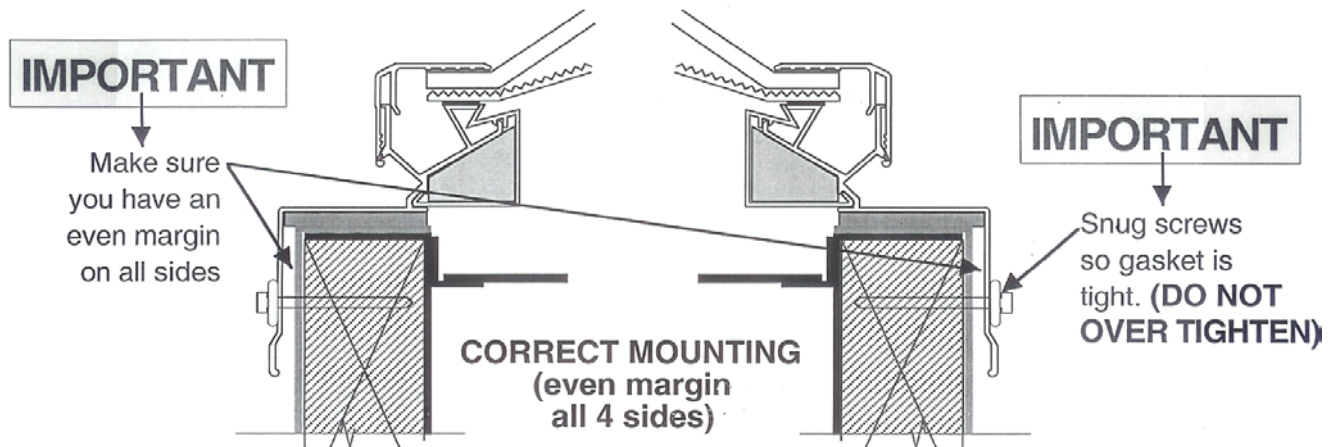


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HUVCO TOP DOME INSTALLATION INSTRUCTIONS

1. Set skylight over prepared, flashed curbs, making sure skylight is square and evenly spaced on all four sides.
2. Mount skylight to the curb with stainless steel screws, Using 1 fastener for each hole provided. Drive screws just snug to the skylight flange. Check skylight for squareness and readjust screws if necessary.

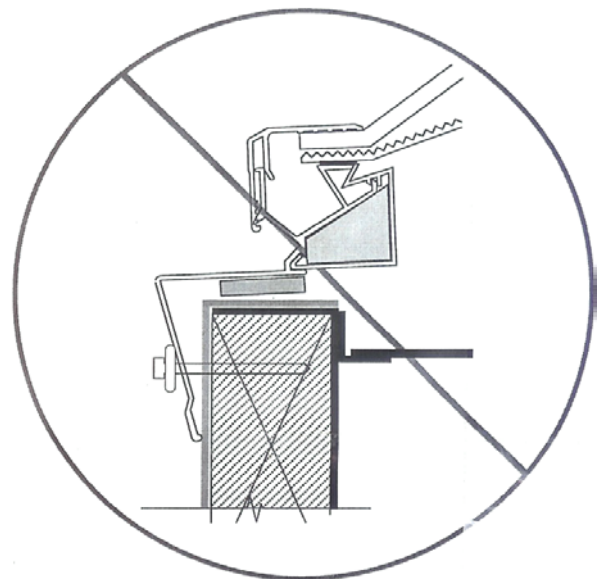


NOTE:

When securing the skylight to the curb, run screws just snug to the skylight flange. Overtightening will distort the flange. This in turn may create forces which may crack the skylight lens.

(VERY IMPORTANT)

DO NOT HIT SKYLIGHT FRAME WITH HAMMER OR ANY OTHER KIND OF MALLETT, THIS MAY CAUSE THE WELDS TO SPLIT.



HANDLE WITH CARE-SKYLIGHT LENSES CAN BREAK!

INCORRECT MOUNTING

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FLARED LIGHT WELL INSTALLATION



The flared light well provides more light output per unit than a straight light well.

Install curb, flashing and top dome



Install light well: Install the top two foot of light well straight, then flare the remainder of the light well to the ceiling diffuser opening. The HUVCO corner connectors make this easy.



Custom flared light well diffuser with two 2' x 4' drop pan diffusers



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