

INSTALLATION INSTRUCTIONS

DGS, LMMG-SERIES SKYLIGHTS

IMPORTANT: READ THE COMPLETE INSTRUCTIONS CAREFULLY BEFORE YOU START TO INSTALL YOUR SKYLIGHTS. Please make sure that you have all the tools and materials you will need. Allow yourself 2-3 hours with suitable weather for installation. Ignore steps that are not required or have already been completed.

TOOLS AND MATERIALS NEEDED

- | | |
|---------------------|-----------------------------|
| 1. TAPE MEASURE | 8. SQUARE |
| 2. KNIFE | 9. INSULATION |
| 3. ROOFING NAILS | 10. ROOFING CEMENT OR CAULK |
| 4. PENCIL | 11. 2"X4" OR 2"X6" BOARDS |
| 5. HAMMER | 12. MOLDINGS, WOOD FINISH |
| 6. HANDSAW | 13. DRYWALL OR PANELING |
| 7. COMMON 10D NAILS | |

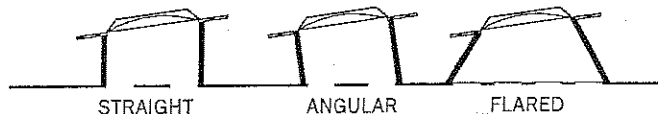
DIMENSION CHART

SKYLIGHT SIZE	ROOF OPENING
1632	14.5" X 29.5"
1648	14.5" X 45.5"
2424	22.5" X 21.5"
2432	22.5" X 29.5"
2448	22.5" X 45.5"
4848*	46.5" X 45.5"

* LMMG SERIES ONLY, NOT AVAILABLE IN DGS SERIES

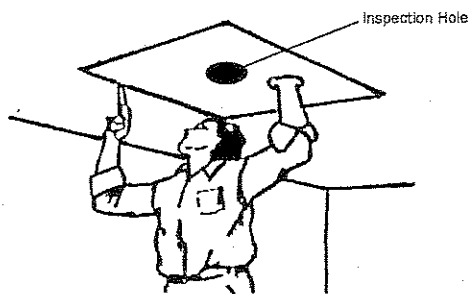
IMPORTANT NOTES ON LIGHT SHAFTS

Before beginning any installation, it is wise to examine the area in which construction is to take place. If possible, an examination of the attic area for obstacles, wires and other hazards should be made. It is also important that the installer decide the shape of the Light Shaft, as this will affect the size of the ceiling opening required.



1. LOCATING AND CUTTING CEILING OPENING

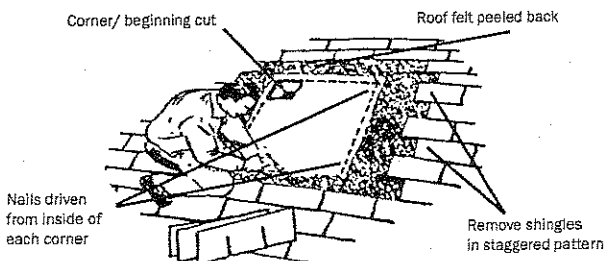
Locate the skylight position. Cut an inspection hole in the area where the skylight is to be positioned and observe for wires and rafters. Try to place the skylight between rafters if possible. Before continuing, be sure the skylight is square (parallel) to the nearest wall. Once the location is confirmed, cut and remove the appropriate size ceiling section.



2. LOCATING AND CUTTING ROOF OPENING

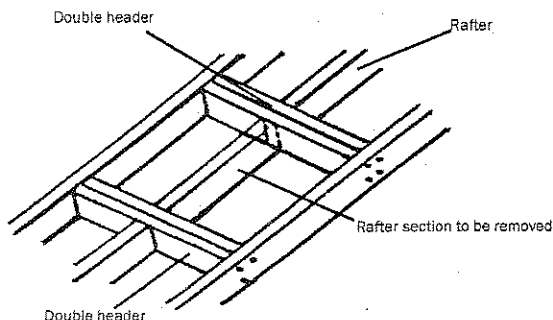
Locate the corner position of the roof opening using a level or rule as a guide and mark the corner positions on the interior side of the roof. Drive nails up through the roof to mark each corner.

Once on the roof, use the protruding nails as a guide to measure and cut the roof opening. First, using a flat prybar, remove shingles carefully around the indicated area making sure to bare enough surface for the curb to fit properly (about 7" added to the Outside Curb Dimension above should be adequate). Cut and roll back the roof felt, exposing the roof structure. Use the nails as a guide to mark out and cut the roof opening.



3. FRAMING THE ROOF OPENING

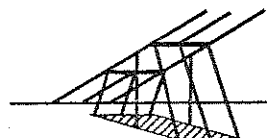
IMPORTANT: The inside dimensions of the framing must match the dimension chart above for proper skylight size/roof opening. If the rafter has been cut, use a double header as shown below.



4. CONSTRUCT THE LIGHT SHAFT

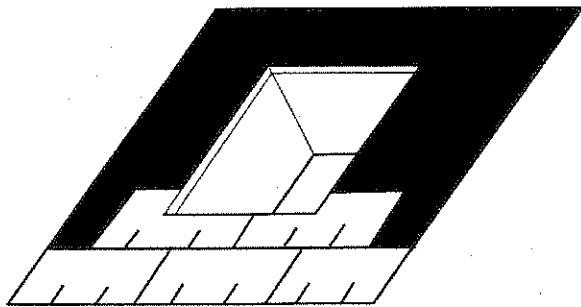
Direct the light by use of a light shaft. Position the skylight directly over area or slant/flair light shaft to direct light to area wanted. Frame in light shaft, doubling up framing to get at least 3.5" thick structure. Cover the exterior side (ATTIC SIDE) with plywood or sheathing. Hang insulation batts on the interior side of light shaft. Apply wall board inside shaft and finish.

NOTE: Do not try to "bundle" exterior of light shaft with insulation. A small gap will cause the drywall to be cold. This can cause ice and moisture to form on the interior of the light shaft.



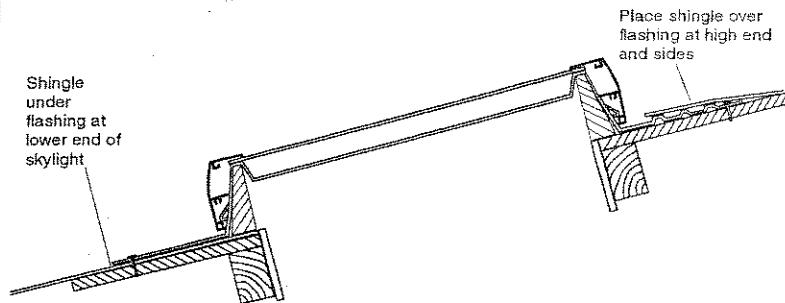
5. PREPARING THE OPENING

Shingle the roof deck up to the lower edge of the skylight roof opening. Cut shingles to fit around end of roof opening if necessary.



6. SECURING THE SKYLIGHT

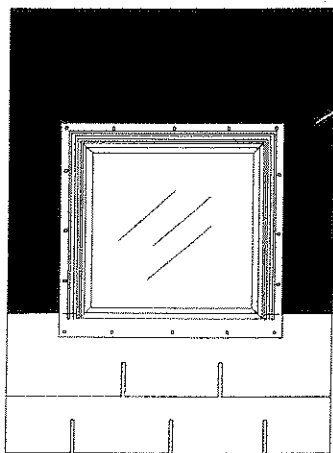
Nail down side flashing only where holes are prepunched. Do not nail through the flashing in any other place.



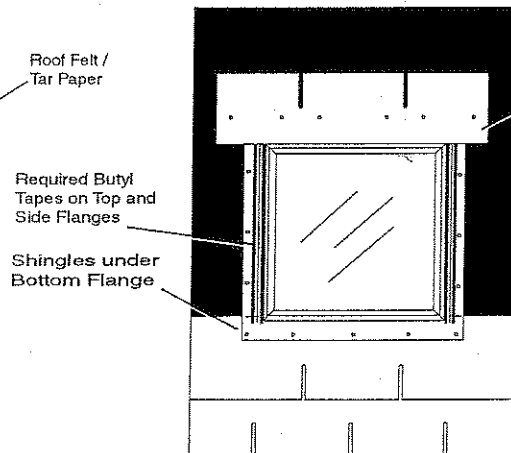
SKYLIGHT INSTALLATION: ONLY USE BUTYL TAPES 1/8" THICK, 1/2" MIN TO 3/4" MAX WIDTH

Place lower row of shingles under bottom skylight flange as illustrated. Staple, nail or screw (based on Wind Zone requirements) the flange area of skylight through the pre-punched mounting holes. Start at middle of each side and work toward the corner. **DO NOT OVERDRIVE FASTENERS!** Apply butyl tape to top and side flanges of skylight. The butyl should be applied in two strips. Apply one strip around perimeter of skylight dome (top and sides only) and another strip on top of anti-siphon rib near mounting holes (top, left and right only). These butyl tapes will provide an excellent water seal and adhesion to shingles. Once skylight is mounted to roof deck, shingle skylight as shown :

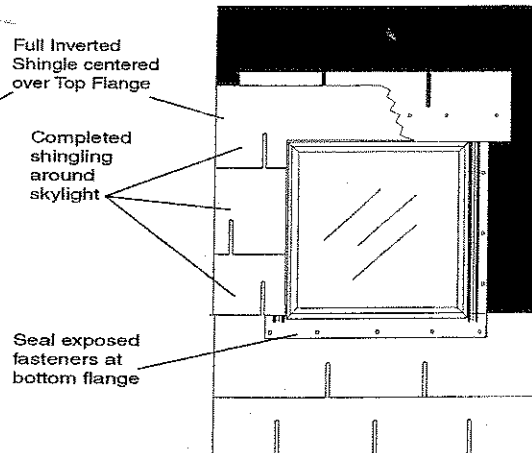
INSTALL SHINGLES WITH A 1/2" GAP BETWEEN SHINGLE EDGE AND SKYLIGHT DOME TOP. FAILURE TO SHINGLE CORRECTLY MAY CAUSE INADEQUATE WATER CONTROL.



PHASE 1

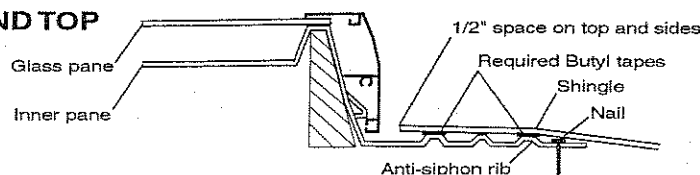


PHASE 2



PHASE 3

CROSS SECTION, SIDE AND TOP



7. CROSS SECTION OF SKYLIGHT, ROOF & RAFTERS.

