



Installation Instructions for motorized Vision Control® Skylights

(refer to our shop drawings)

1- PREPARATION OF KNEE WALL & ASSEMBLY OF SKYLIGHT STRUCTURE

- A. Study carefully the shop drawings.
- B. Make sure the knee wall is level, square, and plumb.
- C. Attach the horizontal mullions (ridge and base) between the rafters and seal all mechanical joints with Clear Silicone to prevent air and water infiltration.
- D. Secure the .032" aluminum flashings on the horizontal mullions (refer to shop drawings).
- E. Install skylight structure on knee wall with appropriate anchoring bolts (not provided by Unicel) and level properly.
- F. Spread the red primer on the knee wall surface.
- G. Wait until the primer is no longer sticky, then place the self-adhesive membrane all around the knee wall and seal the membrane joints with Sopramastic sealant where necessary. Leave the paper on the membrane for approximately 6" towards the interior of the skylight.
- H. Glue membrane on the .032" aluminum flashing.

2- INSTALLATION OF GLASS UNITS

- A. Install glass support brackets at the end of each bottom corner, with their neoprene setting blocks.
- B. Install the glass units in their respective openings, the laminated side toward the interior of the building. Each gear housing ($\pm 2'' \times 2''$ black box) should be located towards the bottom, on the jamb of the glass unit.

3- MOTORIZATION

- A. Install the tracks with the corner drives on the vertical mullions. The center of the corner drive plates should be aligned with the center of the screw flutes. Secure the tracks in place. At the same time, insert the rigid aluminum shafts (round/square) in between the corner drives.

- B. Secure the support of the motor on the frame.
- C. Insert the flexible cables into the stainless steel worm gear shafts and then into the corner drive shafts. Secure all flexible cables temporarily (without tightening permanently the little set screws).
- D. At this point, the electrician should have connected the motors. Turn the motor on and verify that the blades are synchronized. The blades of each panel linked to the same motor should turn in the same direction. If not, stop the motor, loosen the set screw at the corner drive and adjust manually with a reference panel by turning the stainless steel worm gear shaft with the flexible cable. Then, tighten the set screw, turn the motor on, and repeat this procedure until all panels linked to the same motor turn in the same direction simultaneously. When all panels open and close synchronically, loosen all set screws, apply a drop of Loctite on each set screw and tighten all set screws for a definite set-up.
- E. Operate the blades several times to verify that no screws loosen, and to make sure that the blades of the glass units linked to same motor stay synchronized.

4- EXTERIOR

- A. Install insulation according to our shop drawings.
- B. Install bottom flashings.
- C. Install top flashings.
- D. Install vertical pressure plates and snap-on covers.
- E. Install horizontal flat pressure plates.
- F. Snap the beveled snap-on covers and seal with silicone the joints with the vertical covers.
- G. Make all necessary exterior silicone joints.
- H. Special care must be taken when glazing laminated glass as it will react unfavorably with certain sealant components. Sealants made of 100% solid components, containing no solvents, must be used. Verify with your sealant manufacturer.
- I. All surfaces to be sealed must be completely clean and dry.
- J. The secondary polysulfide sealant of Vision Control® insulating glass units must be protected against ultraviolet rays to prevent premature seal deterioration.