



LightLouver™ Unit Installation Manual

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The LightLouver Daylighting System is protected under U.S. Patent Numbers 6,239,910 B1, 6,48,336 B2 and 6,714,352.

Failure to adhere to the installation procedures described in this Manual may result in damaging the LightLouver units and voiding the Limited Warranty. See the LightLouver Limited Warranty for more details.

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Introduction

This document describes the proper procedures for installing LightLouver™ units. These installation procedures, and associated installation precautions, should be carefully read and fully followed to ensure the proper installation of LightLouver units and to reduce the potential for injury to installers. Additionally, the LightLouver unit product warranty may be voided by not adhering to the installation procedures and precautions described in this manual. LightLouver units, in most instances, must always be installed by at least two people. One person attempting to install LightLouver units without assistance may damage the units or the windows, or incur bodily injury. In order to familiarize yourself with this product, please read through the installation instructions, Maintenance Manual, and the product warranty before beginning installation.

Tools Required

- Rolling platform with room for two people. The use of a rolling platform is the recommended and preferred method of accessing the “daylight” windows that will receive LightLouver units. If a rolling platform is not available, two ladders of adequate height can also be used.
- A powered drill with a #2 Phillips driver bit. A drill with a clutch is recommended.
- Cotton gloves. All LightLouver unit installers must wear cotton gloves to ensure no damage or marring of the LightLouver unit reflective slat surfaces.
- Scissors or utility knife.

Installation Timing and Conditions

LightLouver units must be installed just prior to building turnover. Final construction clean-up must be complete, including all wipe-downs, floor vacuuming, and window washing, before LightLouver unit installation begins. Also, the HVAC filters should have been recently changed in preparation for occupancy, and the indoor environment should be essentially dust-free. The reflective surfaces of a LightLouver unit are highly durable under normal occupancy conditions, and will require only a light dusting twice per year. However, because construction dust contains highly abrasive substances, such as gypsum, the reflective surfaces can become damaged if the units are installed too early

and are exposed to potentially damaging dust and debris. Do not attempt to “seal off” LightLouver units from the construction environment once they have been installed. Taping plastic or any other material over the installed LightLouver units can result in damage to the product that is not covered by the warranty.

Installation Procedures

The following instructions pertain to LightLouver unit installation in aluminum window assemblies, curtainwall or storefront style. For instructions pertaining to wood window assemblies, please contact LightLouver LLC at info@lightlouver.com or (303) 444 8773.

The following procedures should be followed when installing LightLouver units:

1. Determine the location of each LightLouver unit type, and transport the shipping proper containers to the appropriate rooms. Leave the LightLouver units in their shipping containers whenever possible, or enclose the units in protective wrapping if a need arises to remove individual units for transport. Wear cotton gloves at all times when handling LightLouver units to reduce the risk of fingerprints or smudges on the reflective slats.
2. Place a rolling platform, with room for two people, directly in front of the “daylight” window into which the LightLouver unit will be installed. Alternately, place ladders of adequate height on each side of the window.

Caution must be used in handling the LightLouver units to ensure that minimal torque is applied to the units by inadvertent twisting.

3. Open the shipping container at the top where the stickers are located. Remove each piece of adhesive-backed light-blocking foam strip and cut it to the width of the corresponding daylight window opening. Expose the adhesive and apply the strip to the window sill with the inside edge (closest to you) positioned roughly 1.5” from the glass.
4. While still in the shipping container, remove the installation assembly (integrated support brackets and valance) from the LightLouver unit by pivoting the valance into the open position and rotating the support brackets 45 degrees toward the front of the unit. LightLouver units are packaged so that the front (side facing inside with the reflective surface) of the units are facing each other in the middle of the box. Check the installation assembly, ensuring that the support brackets are in their correct positions on the valance – small location marks on the back of the valance indicate where the sides of each support bracket should be located.
5. Hold the installation assembly against the top of the daylight window frame so that the backs of the support brackets are in contact with the glass, the installation tabs are flat against the top window frame, and the valance is centered between the side mullions. Insert an installation screw into the support bracket slot and drive the screw until it bottoms out, being careful not to strip the hole. The installation screws are self-drilling and will cut threads into the aluminum as it passes through, creating

a cleanly tapped hole. Repeat process with two screws per support bracket, taking care to ensure that all brackets are aligned correctly with the front parallel to the glass. This will ensure that the valance is straight after installation.

Note: DO NOT substitute any other type of screw for the installation screws provided with the LightLouver unit, as failure to follow these installation instructions will void the product warranty.

6. Wearing clean cotton gloves, two people should grasp the header bar of the LightLouver unit, one at either end, and carefully remove the LightLouver unit from the shipping container. Remove any packaging material that may remain attached and briefly inspect the unit for damage. Any apparent damage should be immediately reported to the General Contractor and to LightLouver LLC.

Note: DO NOT set the LightLouver unit down directly onto the floor, as this can cause damage to the “footer” components that cap the bottom end of each vertical support rod. If the LightLouver unit must be set down, place a piece of 1” X 4” packaging foam on the floor first, and then set the LightLouver unit on the foam.

Two people, one on either end of the LightLouver unit, should gently grasp the bottom slat with one hand, and support the back of the top slat with the other hand. Both hands should be located as closely as possible to where the nearest vertical support rod runs through the slats. With the reflective surface of the slats (inside surface) facing up, and holding the LightLouver unit at a 45 degree angle with the top edge closest to the window and the bottom edge furthest, pass the horizontal aluminum header bar through the openings in the support brackets. Continue to apply moderate pressure upwards and towards the glass, and carefully allow the bottom edge of the LightLouver unit to pivot downward into the resting position. Once released, the LightLouver unit should hang vertically with all of the “footer” components contacting the glass. It may be necessary to gently and slightly “twist” the unit if it is no longer perfectly square due to shipping or installation movement. Likewise, if any unit twisting is apparent, it may be necessary to gently correct the twist so that the LightLouver unit is positioned flat in the window. If excessive twisting, racking, or warping is observed and cannot be readily corrected, please contact LightLouver LLC.

7. Ensure that the unit is centered between the window mullions. If adjustment is necessary, exert lateral force on the horizontal header bar only to avoid racking the LightLouver unit out of square. Pivot the valance into the “closed” position so that the header bar is no longer visible. The valance should lock into position on the support brackets with an audible click when fully closed.
8. Perform a final inspection of the installed LightLouver unit before installing the next LightLouver unit. Remove any observable dust, fingerprints, or smudges on the reflective surfaces using the dusting and glass cleaning products provided with the product. All cleaning and maintenance MUST be performed in accordance with the LightLouver Maintenance Manual.

