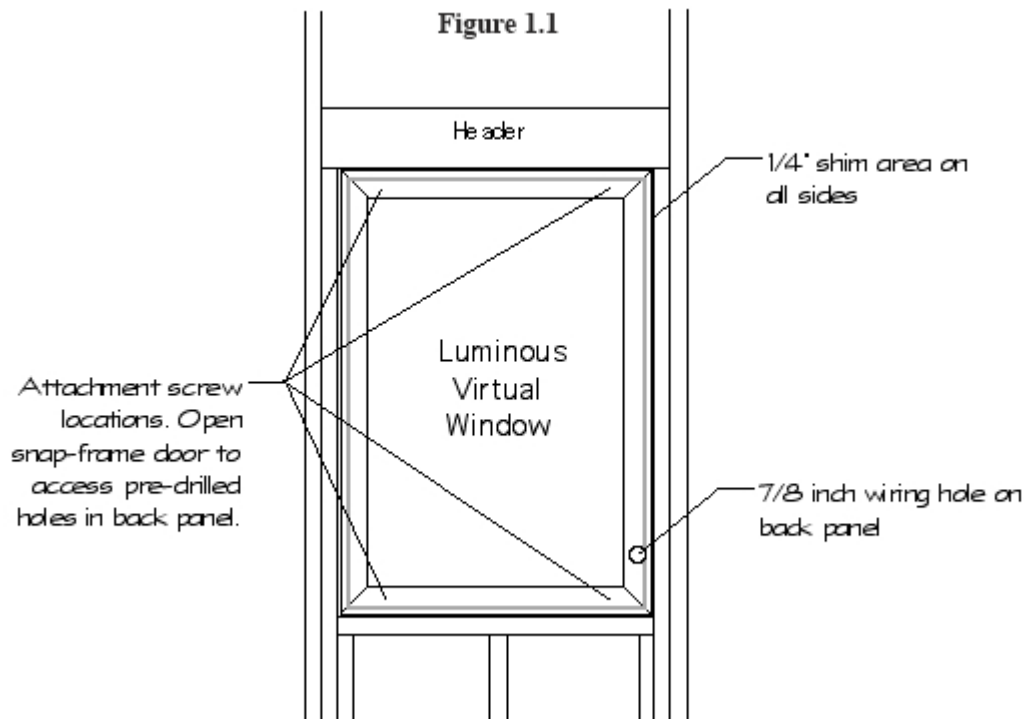


LED Luminous Virtual Window Recessed Installation Instructions

Recessed Installation

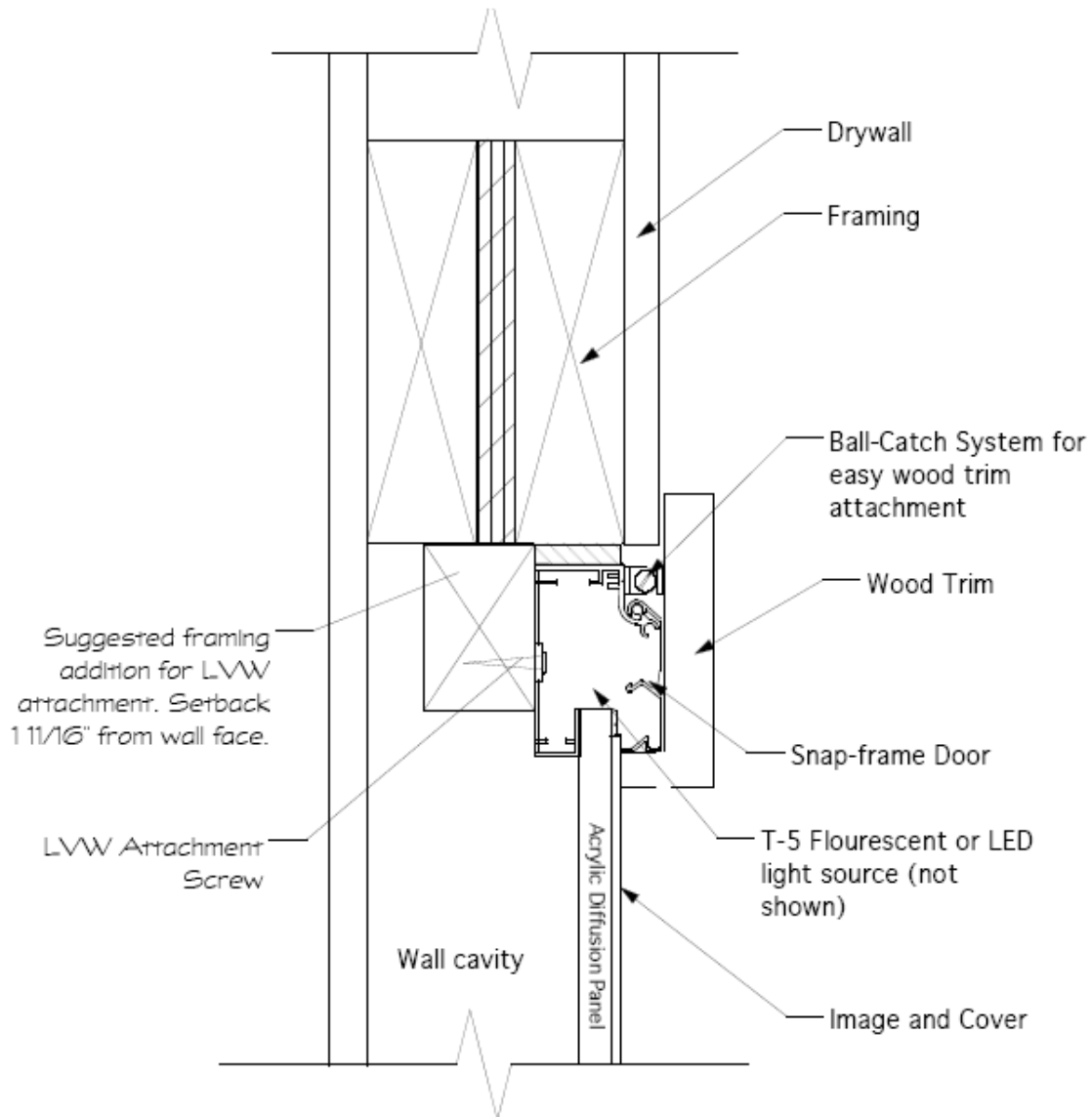
1. Frame the rough opening for LVW one half inch larger than actual outside dimensions of LVW extruded aluminum frame. See Figure 1.1 for typical framing details and Figure 1.2 for suggested framing additions.



2. If your order included wood trim, remove it and set aside. The wood trim is held by ball-catch hardware. Using both hands, grasp the wood trim and pull directly outward.
3. Open front face snap-frame doors in order to remove the clear polycarbonate image cover and image beneath. The four snap-frame doors are hinged on the outside; to open, hook thumb in the v-groove on the inside edge of the door, gently slide the door toward the outside edge of the LVW, then flip up and out. Carefully remove cover and image, and store in a location where they will not be handled or damaged.
4. See Figure 1.2 for suggested framing additions for attaching LVW. Attach framing additions 1 11/16" back from finish wall surface. Use screws to facilitate possible

repositioning. **IMPORTANT:** Framing additions should be installed on two sides corresponding to predrilled installation holes only, and allowing for easy access to wiring. Location of 7/8" access hole may vary due to interior demands of lighting.

Figure 1.2



5. While inserting LVW into rough opening, pass wiring and box connector (enclosed) through predrilled 7/8" hole on the backside.

Important:

All wiring, insulation and other materials behind the LVW must not press against the white back panel.

Pressure on the panel will create light "ghosts" in the image when lit.

6. Holes for attaching LVW to framing are located on back panel.
7. Shim LVW to center and level within rough opening.
8. Before attaching LVW, hold firmly in place, and using straight-edge check to see that the most forward point of the wall surface is 1/16" back of the snap-frame door.
9. Attach LVW.
10. Make wiring connections. See Wiring, below.
11. Replace image and image cover:
 - a. Remove any protective coverings used during the installation of the LVW.
 - b. Clean the LVW to remove any dust from the installation as per cleaning instructions included.
 - c. Replace image and image cover. While holding image cover in place, close snap-frame door panels.
12. Install LVW wood trim:
 - a. Installing the LVW wood trim is easiest with two people.
 - b. Have one person lift the trim up so the eye screws in the back of the trim are at the same height as the safety cables on the LVW frame. Have the second person attach the quick links to the eyes and screw the gates closed.
 - c. Then lower the trim until the ball-catches line up and press the ball-catch locations.
 - d. To adjust holding strength of ball catches loosen or tighten adjustment screws on the two ends of the ball catches attached to the LVW frame.

Wiring

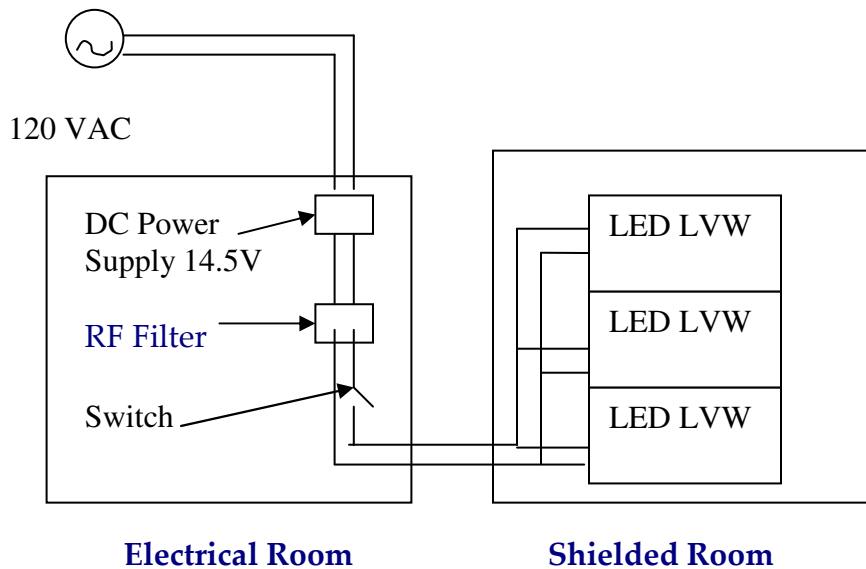
1. Open LVW front face snap-frame doors, and remove image cover and image panel and store in a safe location.
2. Power is connected to the 3 - 6" conductors inside the aluminum frame, bottom right (as viewed from the front). Fasten the Snap-It shielded cable connector through the 7/8" hole on the outside edge of the LVW frame and make the electrical connection inside the LVW. **Red is DC positive (+), Black is DC negative (-).**
3. Connect power (15 VDC) in conformance to local and national Electrical Codes. See **Figure 2.0** below. The DC Power Supply is powered by 115/230 VAC – factory set to 115 VAC. Check the red slide switch on the side of the power supply to ensure the correct setting. Connect 115 VAC or 230 VAC in, and DC power out. All DC output terminals should be jumpered together (all + together, all – together). Enclosures are not supplied, but are available with mounting brackets if required.

4. Where multiple LVW's are installed, all **MUST** be wired in parallel. Red wire goes to the +, Black wire goes to the -, and the Green (Ground) wire goes to the middle hole marked with the earth ground symbol.
5. The 4022 LVW's draw 4.55 amps each. The 6334 LVW's draw 7.15 amps each. Use a wire gauge appropriate to the amperage as per local and national electrical codes.
6. Use a switch that can carry the full load amperage of the installation.
7. Connect switch so that it is between the RF filter and the load. **Under no circumstance should the Power Supply be switched on the AC side while the load is attached.**

See Figure 2.0 below.

8. After wiring is completed and tested, go to Step 10 of the Recessed Installation.

Figure 2.0



IMPORTANT The Power Supply voltage must be adjusted before powering up the LED LVW(s).

CHECK that the output is 15 volts. Note polarity and **MAKE SURE** that the Red wire to the LVW's is connected to the (+) terminals and the Black wire is connected to the (-) terminals.

CHECK the polarity of the output of the RF filter. **Damage to the LVW's will occur if reverse polarity is connected. MAKE SURE** that the Red wire is connected to the (+) terminal of the filter and the Black wire is connected to the (-) terminal of the filter.

Because the RF filter typically causes a small voltage drop (approximately 2 volts), the output of the power supply **must be adjusted** to compensate. Use a small Philips screwdriver to carefully turn the small white plastic screw on the front of the Power Supply (+V ADJ), while monitoring the voltage **at the load** with a voltmeter. Adjust until the reading is 15 volts.

For technical support please call us toll free at 866-759-3228. We want your installation to go as smoothly as possible. Thank you for choosing The Sky Factory.