ILLUMINATED
BACKSPLASH KITS

INSTALLATION INSTRUCTIONS and TECHNICAL INFORMATION

IMPORTANT: READ INSTRUCTIONS COMPLETELY PRIOR TO INSTALLATION.

TOOLS NEEDED FOR INSTALLATION

- Typical carpentry tools. Read the instructions thoroughly prior to installation to determine what tools you will need to use for proper installation.

PREPARATION PRIOR TO INSTALLATION

1. Acclimatize all panels for a minimum of 24 hours prior to fabrication.
2. Prepare the surface. Smooth and flat is best.
3. Measure heights, widths, and lengths and cut the moulding options purchased to size.
4. If mitering, make sure that you follow instruction for proper mitering techniques for snap frames.
5. **Shut off any electrical outlets or switches that protrude from the backsplash wall at the breaker and disassemble them.**

CUTTING AND FINAL MEASUREMENTS FOR SNAP FRAME AND/OR J-CHANNELS

1. Cut the moulding to the proper size and attach it to the wall (find studs on the wall for this). Insure that the screws used do not protrude but are as flat as possible. **(See figure 1)** NOTE: If using a snap frame make sure to allow a minimum ¼ inch gap above the moulding so the moulding can open and close properly. **(See figure 2)**.

Figure 1

TIP
Leave a minimum of ¼" gap so that the snap frame can open and close properly.

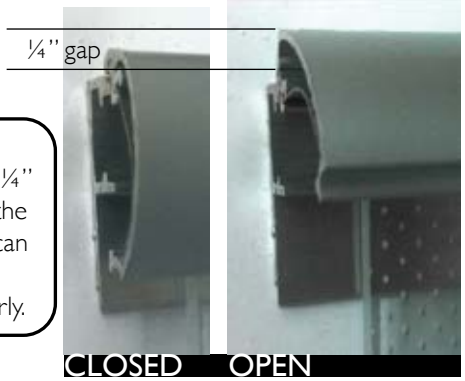

Figure 2

2. **Snap frame and mitered snap frame use.** Make sure you are familiar with mitering techniques for snap frames as they require double mitering. When measuring the height of the panel needed to fit make sure you measure to the right points in the snap frame. **(See figure 3)**

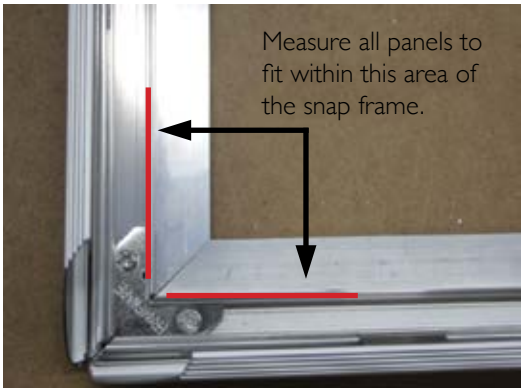

Figure 3

3. Measure the opening where the panel will sit (**NOTE:** The measurement is different for snap frames and J-Channels - take care that you determine the correct measurement to use for the various hardware systems and combinations we offer). If using a J-Channel **top** (5/8" lip) and J-Channel **bottom** (3/8" lip) you MUST add 3/8" to the opening height dimensions to get the correct measurement to cut down the light guide panel (LGP) with the light bar (LB) attached. **(See figure 4)**

   The LB and top of the LGP goes into the J-Channel **top** only (it will not fit into the J-Channel bottom). Make sure the opening measurements are the same across the entire length of the area to receive Illuminated Backsplash regardless of the mouldings used. If not then adjust. Panels, when cut-to-size, slide under the upper J-Channel lip and clear the lower J-Channel lip when pushed into place. They then drop down into the lower J-Channel bottom.

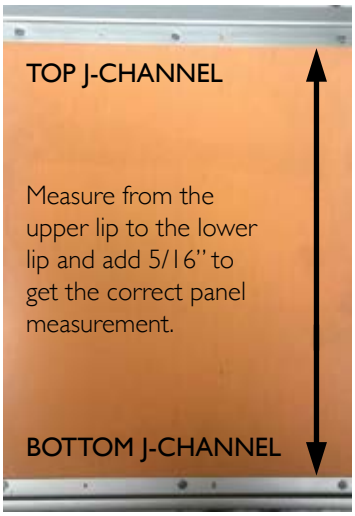

Figure 4

TIP

Measure upper to lower all across the wall to find the narrowest point to determine height. For length, determine if you will using side mouldings as this will affect the length.

PANEL INSTALLATION

1. If you haven't done so already, turn off any electrical outlet or switches that protrude from the backsplash wall and the breaker and disassemble them. Either paint the wall white or apply our white reflective backer laminate by using a few strips of our pressure sensitive adhesive to the wall at the top, middle and bottom **(See figure 5)**.

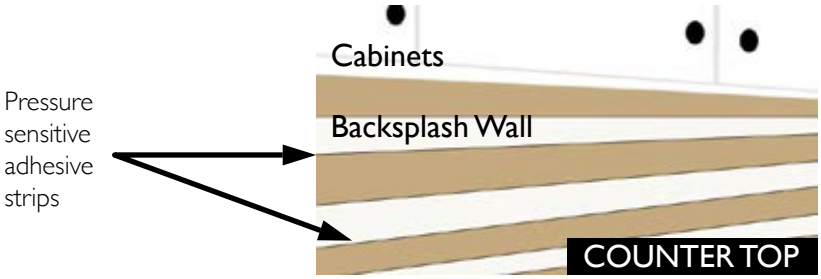

Figure 5

2. Cut the backer to size and apply to PS adhesive strips. Press firmly in place to get rid of any air bubbles. Cut out any outlet or switches as necessary. **(See figures 6a and 6b)**.

Figure 6a

Figure 6b

3. Cut and assemble the light bars to proper size **(Only cut on the cut marks. See figure 7)**. Make sure the electrical plug-end is at the extreme left or right as ordered so that the plug-end can reach an electrical connection. (**NOTE:** An electrician may be required).

Figure 7

ATTACHING THE LIGHT BARS TO THE LIGHT GUIDE PANEL

1. Top edge only with the printed side of the light guide panel (LGP) to the rear - this is critical and is marked on the panel. Use the PS adhesive strip that is on the light bar. Make sure the LED lights come into direct contact with the top edge of the light guide panel and that the connection prongs from the

light bar to the next light bar is secure and firmly in place. **(See figures 8a, 8b, and 8c)**.
NOTE: The adhesive strip of the light bar attaches to the printed side of the LGP only (if not installed properly, luminance will be greatly reduced).

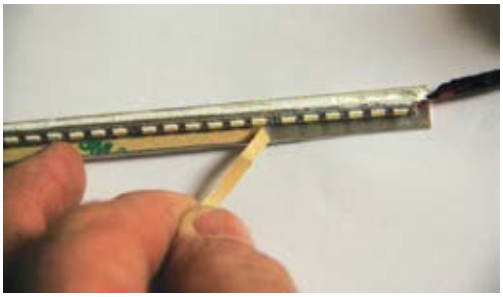

Figure 8a

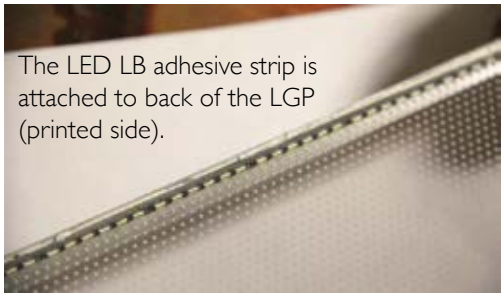

Figure 8b

Figure 8c

2. For LGP 24" or smaller, cut the LGP **(bottom edge only)** to proper height (other than J-Channel installations) (this is critical so be careful!) make sure your measurements includes adding the LB to the top edge before cutting to the final size (LB measures 1/8"). Insure that the printed side of the LGP is closest to the wall **(THIS IS CRITICAL)** and that the panel is marked appropriately. For panels that have LBs on two parallel sides, the LGP is reduced by ¼" (1/8" for each LB).
3. Cut the LGP to the proper length.
4. Using a template (if necessary) cut out any switch or outlet holes. Or you can install the panel (after the holes have been cut in the white vinyl) and mark the location of the cutout.
5. Put the LGP into place to make sure it fits. Adjust if necessary.
6. Remove the panel from the moulding and use it as a template to cut the decorative graphic panel to the proper size.
7. Reinstall the LGP and then install the decorative graphic panel.
8. Connect to the power source.
9. Add the side trim strips as needed to complete the installation.
10. If adjoining two panels together, make sure that the edges are blackened to prevent light leakage, or request our H moulding to cover the edges.
11. Dim as required by mood. (Optional, only if installing with a dimmer).

OTHER TECHNICAL POINTS

1. Excellent chemical resistance properties (details available)
2. Proper tools for cutting (use tools suitable for cutting FRP and acrylic).
3. Do not try to laminate any of the layers together with any type of adhesive as this will destroy the light emitting qualities.
4. See out installation video.