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SlotLine & SlotLine Pro
CONTINUOUS LINE OF LIGHT LED ACCENT LIGHTING SYSTEM
24VDC REMOTE POWER SYSTEM

INSTALLATION INSTRUCTIONS - SURFACE MOUNT WITH SOUND PANEL

IMPORTANT:

Before installing SlotLine be sure to install Tempo Surge Suppression Device (SSD-120/SSD-277) to every branch circuit to validate warranty.

ELECTRICAL RATINGS

SlotLine is a Low Voltage system operating on Class II, 24VDC power supplies.

REQUIRED HARDWARE

1) Surge Suppression Device (SSD-120 or SSD-277).

2) 24VDC Power Supply.

3) Power/Jumper Feed Cable.

4) Mounting Screws

OPTIONAL HARDWARE

1) Jumper Feed Cable.

2) Power Enclosure for LED Drivers.

3) Additional Wire for extra long leads or jumpers

HARDWARE PROVIDED BY OTHERS:

1) Laser Level

2) Power tools

3) Hand tools

4) #26 drill bit

5) PVC Ratchet Cutter

⚠ **WARNING:**

Read and understand these instructions before installing. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Turn off main power supply before you start installing SlotLine.

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SLOTLINE INSTALLATION INSTRUCTIONS - SOUND PANEL

PREPERATION OF INSTALLATION LOCATION

STEP 1

Cut wood backing shims to spec:

Skip Steps 1 & 2 if not using sound panels or panels are 0.5" to 0.75" thickness.

The Slotline Surface Mount channel (model S1) is 0.7" wide and 0.7" tall, **Figure 1**. In order to install in sound panels so fixture is flush to surface of sound panel, wood shims are required to bring the SlotLine fixture to the surface of sound panels.

Cut 0.5" to 0.7" wide wood shims for the entire length of runs for greatest support. Height of slats is determined by thickness of sound panel. Example using 2" Acoustic Sound Panels shown in **Figure 2**.
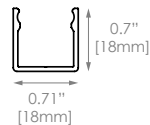
8' SlotLine Mounting Channel
SL-MCH-071-S1-08

0.7"
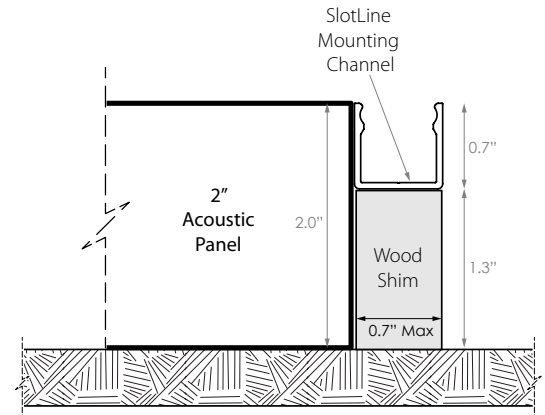[18mm]

0.71"
[18mm]

Figure 1

SlotLine
Mounting
Channel

2"
Acoustic
Panel

2.0"

Wood
Shim

0.7"

1.3"

0.7" Max

Figure 2

STEP 2

Mount Wood Shims:

Drill pilot holes in shims for flat head screws to hold shims in place. Secure shims to surface using appropriate screw length and type for application. **Figure 3**.

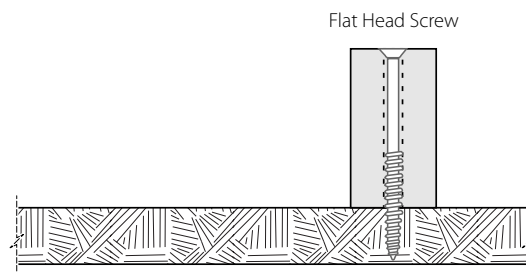Note: Screws should sit flush with surface of wood so SlotLine Mounting Channel sits evenly accross entire run.

Flat Head Screw

Figure 3

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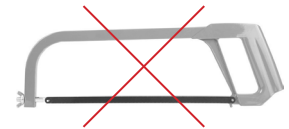## SLOTLINE INSTALLATION INSTRUCTIONS - SOUND PANEL

INSTALL MOUNTING CHANNEL

STEP 1

Cut aluminum Mounting Channel to length:

The Mounting Channel ships in 8 foot lengths that are field cut to length as needed with Miter Saw or Circular Saw using blades made for cutting aluminum. It is not recommended to cut with a hand saw. Deburr all edges after cutting.

NOTE: Allow 1 inch for attachment of feeder box at beginning of run (and end of run if using jumper feeds.)
Example: Extrusions for single 12 foot run will be cut to 12 feet but allow one extra inch of space at start of run for Feeder Box.

Hand Saw Not Recommended

STEP 2

Attach Feeder Box and End Cap:

Insert supplied Feeder Box into first extrusion of run and use pencil or felt tip pen to mark thru hole location for feeder box screw (**Figure 4**). Drill #26 (.147") hole in mounting channel for Feeder Box mounting screw and deburr edges. Attach Feeder Box to Mounting Channel with supplied 4-40 mounting screw through the back side of Mounting Channel **(Figure 5 & 6)**. Repeat process to attach end cap to last extrusion of run.
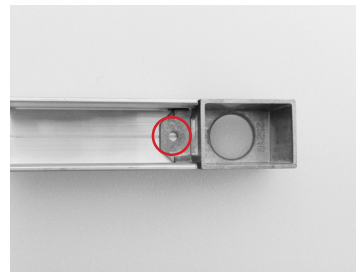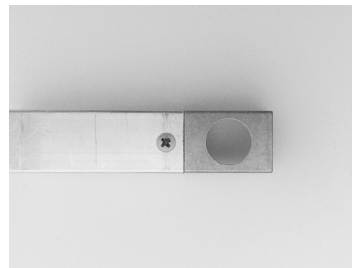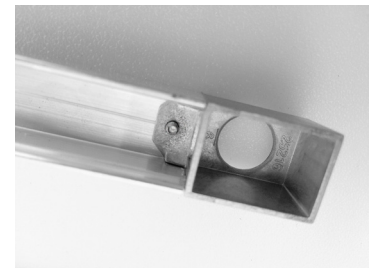
Figure 4

Figure 5

Figure 6

STEP 3

Drill Pilot Holes in Mounting Channel:

Using a #26 (.147") drill bit, drill pilot holes in Mounting Channel where needed to attach Mounting Channel to wood shims. There is a groove down center of each Mounting Channel to help start the drill bit in center of channel.

Figure 7

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SLOTLINE INSTALLATION INSTRUCTIONS - SOUND PANEL

INSTALL MOUNTING CHANNEL

STEP 4

Install Mounting Channels:

Attach Mounting Channel to surface using #6 Phillips bugle head screws. Tempo supplies screws for wood, metal and drywall applications. If surface is not one of these materials, make sure the screws used are #6 bugle head as these type screws will sit flush with surface of Mounting Channel without the need to countersink holes.
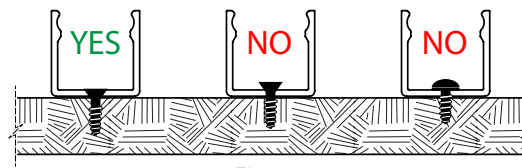
*IMPORTANT NOTE: If bugle head screws are not available you will need to countersink the holes so screw head sits flush in bottom of Mounting Channel. If the screw head projects more than 1/16" above, then the light engine will not seat properly into the bottom of channel. (**Figure 8**)*

Figure 8

Mounting Channels are supplied with an orange snap-in alignment insert (**Figure 9**) for runs longer than 8 feet. Place alignment insert in between Mounting Channels to ensure straight alignment from channel to channel during installation, (**Figure 10**). Remove and discard alignment insert after Mounting Channels are installed.
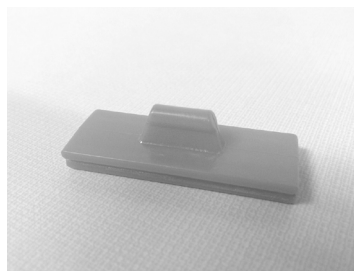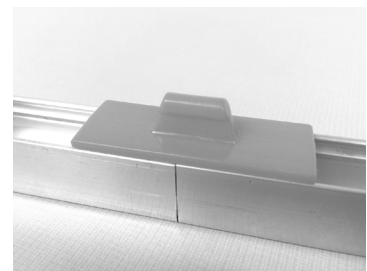

Figure 9

Figure 10

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SLOTLINE INSTALLATION INSTRUCTIONS - SOUND PANEL

LIGHT ENGINE INSTALLATION

STEP 1

Run Power Feed Cable:

Run power feed wire with Thru-Wire Connector into hole in bottom of feeder box. Pull connector up & out of extrusion. (**Figure 11**). You may need to core drill or remove section of wood shim for wire feed-thru into Feeder Box.

Figure 11

Figure 12

STEP 2

Connect First Light Engine:

Connect wires from first light engine to Thru-Wire connector from power feed by pushing the two wires from light engine into connector, (**Figure 12**). Then push connector back into Feeder Box, (**Figure 13**). Press Feeder Box Cover into top of feeder box to protect connection, (**Figure 14**).
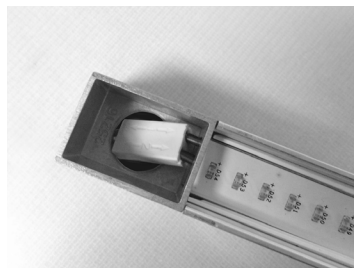

Figure 13

Figure 14

STEP 3

Install 1st Light Engine:

Press light engine into Mounting Channel with palm of hands so it sits flush with top surface of mounting channel, (**Figure 15**).

IMPORTANT NOTE: Do not press Light Engine all the way into the mounting channel with fingers or tools. Installation of lens in following steps will seat the Light Engine properly down into the mounting channel without touching the LEDs.
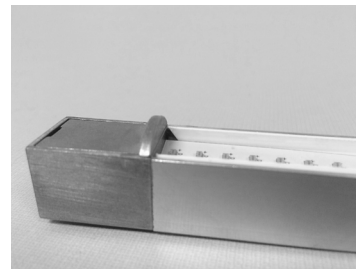

Figure 15

STEP 4

Repeat Step 2 and 3 above for each additional light engine using the connector already attached to end of each light engine:

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SLOTLINE INSTALLATION INSTRUCTIONS - SOUND PANEL

LENS INSTALLATION

STEP 1

Prepare Lens:

Measure total length between inside wall of Feeder Box and End Cap of run and cut the SlotLine lens to proper length by slicing with PVC Ratchet Cutter or multi purpose blade tool. It is recommended to cut lens about 1 inch longer than needed, then precisely slice off extra lens material at end of lens installation.

Recommended tools for cutting lens

STEP 12

Installing Lens:

Starting at one end of run, line up end of lens with edge of End Cap (or Feeder Box) and press lens straight into the Mounting Channel (**Figure 16**). Continue pressing lens straight into channel with the palm of your hand down the entire length of run (**Figure 17**). During lens installation the Light Engine will automatically recess into bottom of Mounting Channel.

DO NOT try to slide lens, press directly from top, into the Mounting Channel, with palm of hand as shown in (**Figure 17**).

When end of run is reached, mark and slice off extra lens material as needed so end of lens sits flush with inside wall of Feeder Box or End Cap.

Figure 16

Figure 17