Light Frame Installation Instructions

Typical Panel Details featuring "Profile A" Individual Panel
Downward Accessibility

Designed and Engineered by: Decoustics

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Light Frame Installation Instructions

1. Prior to installation please verify that all required components have been received. Using the attached drawings identify all components received.

2. Check and verify the quantities of components received against the quantities required for the project.

Light Frame panels are manufactured specifically for each project. Please review the Light Frame panels delivered against those required for the actual project. Note the panel shown features the "A" profile edge extrusion which utilizes cog connectors.

Installation Tool - Two types of tool exist to tighten up the LightFrame cog connectors. The model shown is for open areas and is the most common tool. The second tool is used in perimeter locations such as at walls and features a recessed gear drive so that the tool will engage the cog.

Tension Scissors - Tension Scissors are used to pull Light Frame panels closer together in areas where there are multiple runs of panels.

Please note that Light Frame panels installed inline and consecutive should not exceed a total of seven panels without a physical perimeter break. Panels that are ganged together exhibit an accumulative force.
3. Review the installation drawings. Make sure that the perimeter frame elements have been correctly installed on site and that all the Light Frame mounting points co-ordinate with the manufactured Light Frame panels.

Light Frame panels are installed into perimeter frame openings designed and engineered to meet local code requirements. The perimeter frames are specifically designed to the project requirements and to accept the Light Frame panel product as per the layout and construction of the panel.

The layout shown features threaded mounting points incorporated into the perimeter to mate with cog connectors built into the perimeter frames.

- Reflected Ceiling Plan - Two Panel Light Frame Installation

Light Frame panel construction is tailored to the location and perimeter condition required. The Light Frame panel shown features cog connectors built into all four edges of the panel. This is typical of an end condition. Light Frame panels with cogs on the two ends and along one side with threaded inserts on the other are generally used as infill panels in a larger Light Frame installation. When Light Frame panels are installed in a floating perimeter frame they may be fastened to the frame utilizing 10mm bolts. In this case the Light Frame panels feature threaded inserts on all four sides of the panel.

Legend

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
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<tbody>
<tr>
<td>A-N</td>
<td>10 mm threaded mounting points in the perimeter frame (by others)</td>
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- Typical Light Frame End Panel Construction

- Typical Cog Connector Mounting Point
4. When handling Light Frame panels it is important to follow some simple steps in order to keep your Light Frame panels clean and in good working order:

(a) Always wear soft, clean, white cotton gloves when handling Light Frame panels.

(b) Only handle Light Frame panels by the extruded Light Frame panel edge.

(c) When lifting Light Frame panels into perimeter openings do not put pressure on the textile panel face.

5. To properly install Light Frame panels into perimeter openings a minimum of three installers are required. In low ceiling installations (less than 10'- 0") the panels can be installed from ladders. For installations over 10' - 0" it is preferable to utilize a mobile platform scissor lift.

6. With an installer at each end of the Light Frame panel lifting the panel from the extruded Light Frame rails, insert the panel into the perimeter opening. Once in position the third installer utilizing the drill powered installation tool should engage the cog connectors into the perimeter frame at both ends and then at the center of the panel. Please see the schematic drawing below. Note: do not fully engage the cog connectors untill all panels are positioned in the ceiling opening. This will make the installation of additional panels easier.
7. Repeat the steps in step six for the installation of additional Light Frame panels. Once all of the panels have been placed in the ceiling all of the cog connectors can be fully engaged utilizing the installation tool. Once all of the cog connectors are tight the installation is complete.
Light Frame Extruded Aluminum Perimeter Profile

Structurally sound perimeter opening installed on site (by others) to meet local building codes.

Extruded aluminum perimeter profile assembly incorporating threaded inserts to receive cog connectors. The rails must be attached to a structurally sound perimeter opening that has been installed on site (by others). Structural connection of extruded aluminum perimeter rails to the perimeter opening to be accommodated with bolt or screw connection as per local codes.

End view of perimeter assembly featuring the threaded steel (stone) insert. Note that the perimeter extrusion components are machined and assembled to meet the requirements of individual projects.

- Exploded Perspective - Light Frame Panels with Extruded Aluminum Perimeter
Application of the light frame infill strip requires the material to be incorporated on all four sides of the light frame panel.

The infill strips are manufactured from opaque white plastic. Once installed the infill strip eliminates light leakage.

Light Frame plastic infill strip. Material is supplied in rolls and is cut to length. The infill strip is supplied oversized in width. It must be cut to size and mounted in the extrusion rail under tension. See detail below.

Light Frame infill strip shown installed in the Light Frame panel. Please note that the light infill strip is cut to length and installed into the perimeter of the Light Frame panel.

Light Frame panels installed into an engineered ceiling opening. Note the installation features the Light Frame extruded aluminum perimeter.