

Installation Instructions

Ascend Ceiling Systems-Metal Frame with Panels

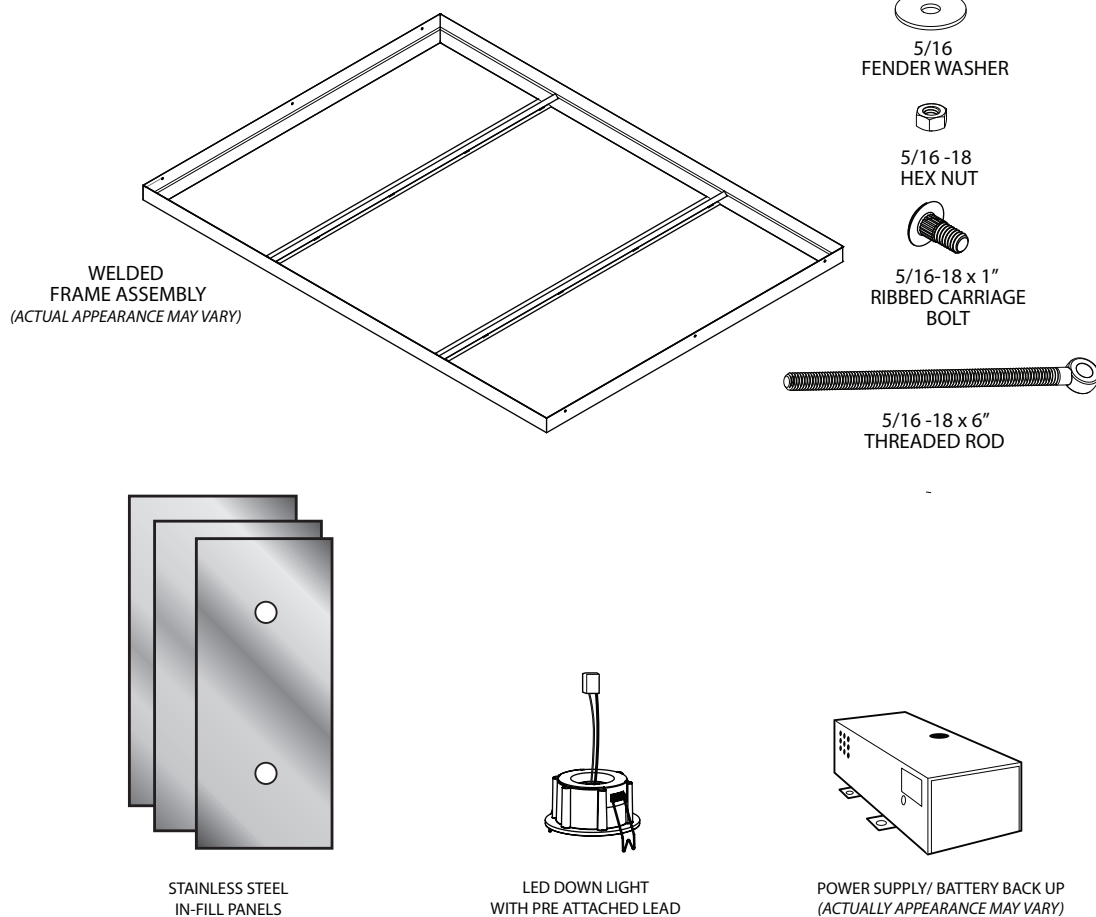
Important:

Install in accordance with manufacturer's installation instructions. Failure to do so will void the warranty.

Recommended Tools:

Socket Wrenches, Socket Set, Cordless Electric Drill Driver, 1/4", 5/16" & 1/2" Drill Bit, Step Ladder(s), Level, Flashlights.

Components and Fasteners: Powder Coated Frame Ceilings



IPC.1858/REV.3

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Always turn off power to lighting system and lock-out elevator before installation.

Figure 1

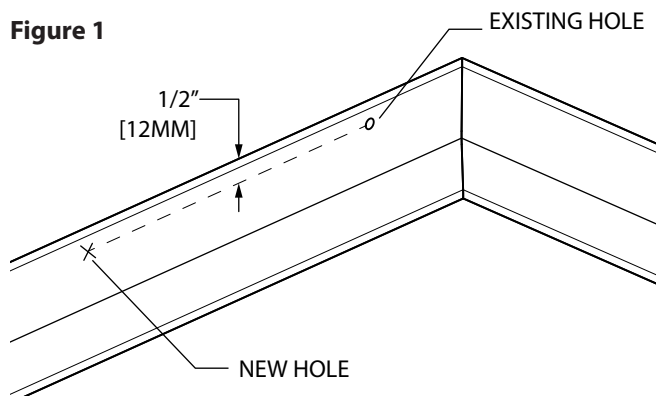


Figure 2

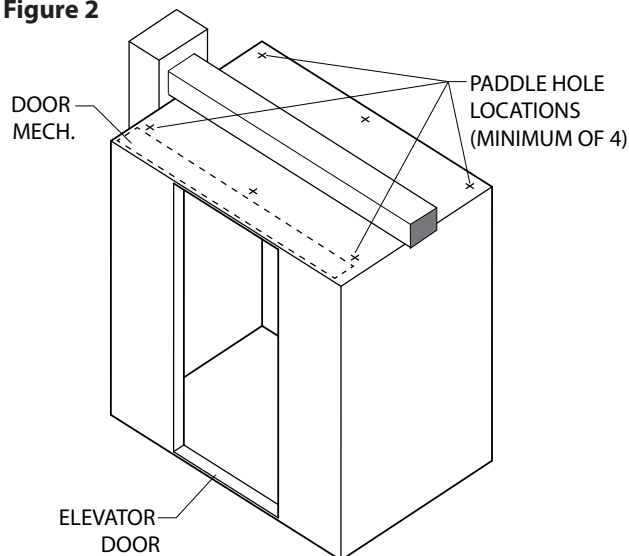
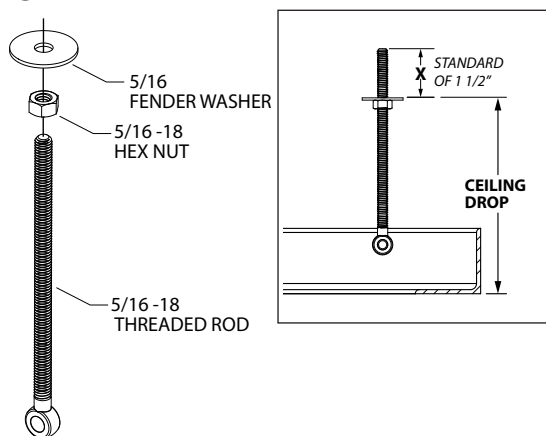


Figure 3



Please read all instructions before installing any Ascend™ ceiling systems. If ceiling system uses spring clip LEDs or Fluorescent lights, reference the installation instructions on the last two pages before installing the ceiling.

Ceilings should be installed after the wall system is in place.

Material must be stored, installed and used in environmentally controlled conditions.

Before installation inspect the top of the elevator cab to see if fasteners will interfere with any mechanical equipment. In-field adjustment may be necessary prior to installation.

Figure 1

1. Ensure the pre-drilled hole locations on the frame system will not interfere with existing mechanical/electrical equipment. If hole locations have to move, re-drill the hole in the desired location using a 1/4" drill bit. Locate the hole 1/2" below the top edge of the frame.

Figure 2

2. Pre-drill the hole locations for the hanging threaded rods in the top of the cab using a 3/8" [10mm] drill bit. Always be mindful of the door operating mechanism and electrical conduit/wiring that may be on the top of the cab when drilling.

NOTE: If a ceiling was previously installed, it is possible to reuse the hole locations if holes are in the appropriate locations.

TIP: For cab capacities 4,000 lbs and greater, Inpro recommends using 6 paddle locations to prevent bowing of the frame.

Figure 3

3. Assemble each threaded rod with a single 5/16 - 18 hex nut and a 5/16" fender washer. This will allow the ceiling frame to hang at the proper height
4. Position the washer and hex nut at the appropriate location on the threaded rod. Inpro standard ceiling drop is 6 1/2".

TIP: The equation: $X'' - 7.5'' = \text{Ceiling Drop}$ can be used to determine the proper distance from washer to the tip of the threaded rod.

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Figure 4

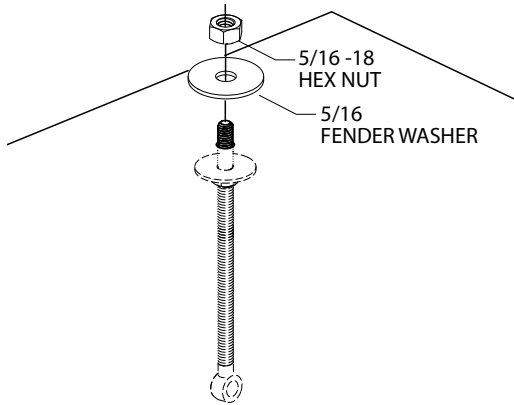


Figure 5

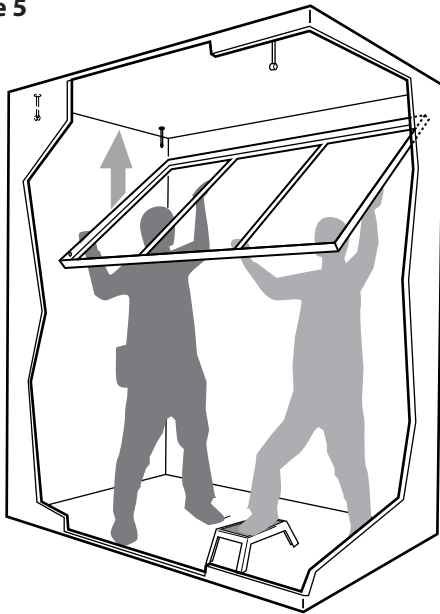


Figure 4

5. Before installing the ceiling system, insert the threaded rods into the drilled holes on the top of the cab. With the tip of the threaded rod protruding through the top surface of the cab roof, place a 5/16 fender washer and thread a 5/16-18 hex nut onto the threaded rod.
6. Repeat for the rest of the threaded rods.

Figure 5

7. Carefully maneuver the assembled ceiling frame into the cab. For frame ceilings it is recommended that this step is completed before installing the ceiling panels.
8. Line up the pre-drilled holes on the frame with the eye of the threaded rod, insert the supplied 5/16-18 x 3/4" carriage bolt into the frame and through the eye of the threaded rod hanger.
9. Secure the threaded rod to the frame using the supplied 5/16" washer and hex nut. It's recommended that the paddle is secured snugly to the frame.
10. Repeat for the rest of the back side threaded rods.
11. After the back edge of the frame is secured to the top of the cab, dry fit the pre-drilled holes on the front edge of the frame to the hanging rods, making adjustments to rod locations if needed. **DO NOT** secure the front edge in place yet.

NOTE: Ensure the escape hatch lines up properly.

Figure 5a

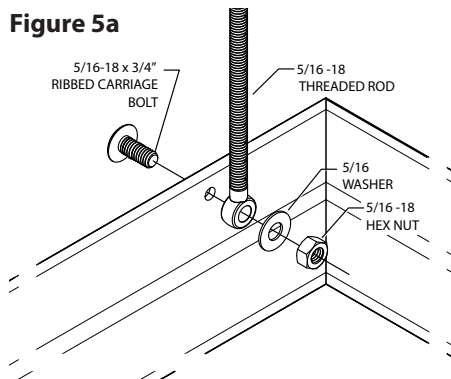
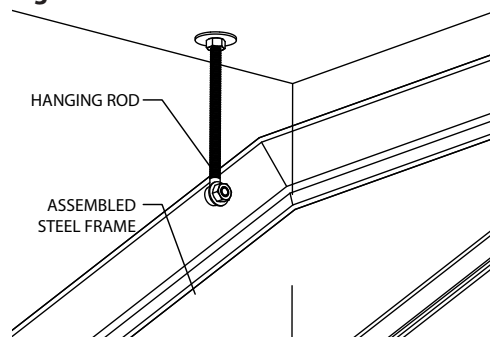


Figure 5b



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Figure 6

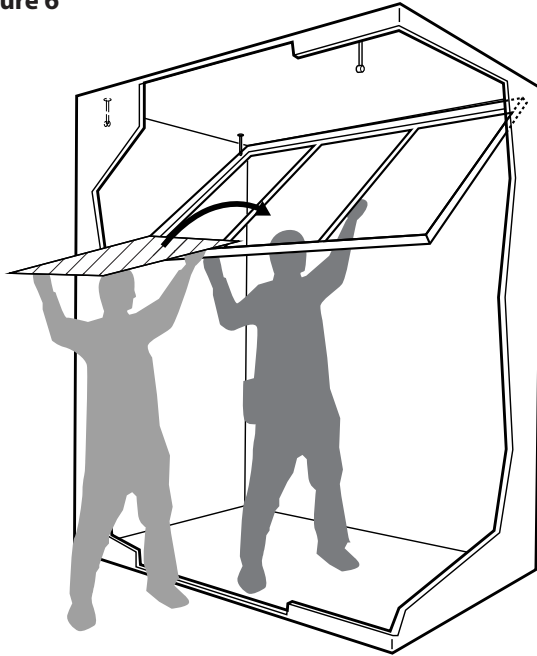


Figure 6 -If installing a ceiling frame with panels

12. While one person holds the frame at an angle the 2nd person can place the panels in the frame, making sure to place the appropriate panels in the proper location on the frame.

TIP: All ceilings have 3 panels; 2 panels of the same size and a single panel of a different size. The single panel of a different size is ALWAYS the center panel.

Figure 7

13. Pivot the front edge of the ceiling back into position.
14. Secure the front edge in the same fashion as the back edge (see Figure 7a)
15. Install LED down lights (see last page, if applicable)

Once the LED lights are installed wire the lights to the power supply/battery back up. ALWAYS consult your local elevator code for proper wiring regulations.

16. After all fixtures are connected, turn power to lights back on, and test to ensure lights are properly wired.
17. Clean up work area, remember to double check the top of the cab for tools.
18. Re-activate the elevator cab for service.

Figure 7

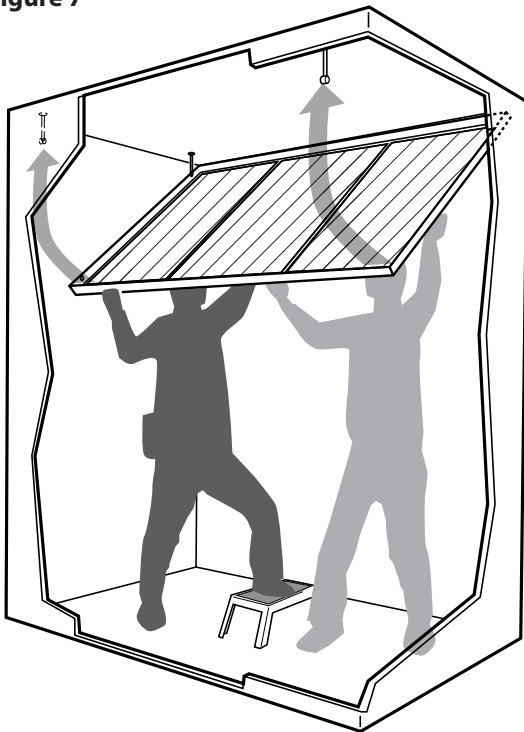


Figure 7a

