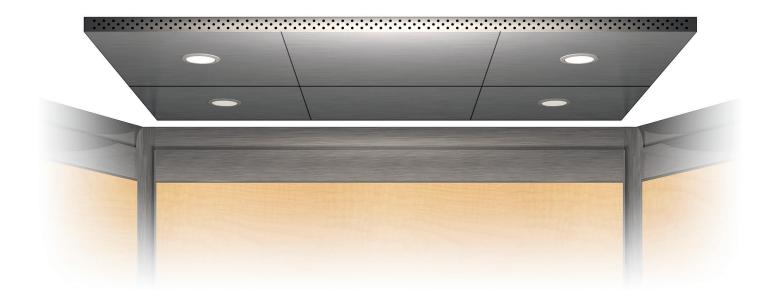


MODEL: ALTA

# INSTALLATION INSTRUCTIONS

**CEILING** 



### **TOOLS REQUIRED**

- Measuring Tape
- Drill
- Ladder
- 3" Paint Brush and latex paint for painting the canopy (If required)

### **SECTION 1: UNPACKING**

1.1. When your new Slim-line Alta Ceiling arrives, transport it near to the cab you will be renovating and organize the crates so that they will be easily accessible.

The crates contents are itemized on its surface.

- 1.2. Carefully un-crate the ceiling package, making sure that none of the components are damaged.
- 1.3. Check the colours, features, and dimensions of the components against your order before you begin removing the existing elevator interior.

If you have any questions at this point, contact ECR before going ahead with any part of the installation.

For technical support on the Slim-line Ceiling installation, please contact us at:

**Elevator Cab Renovations** 

Office: (613) 745-4870

Toll Free: 1-877-745-4870

ecr@elevatorcabs.ca

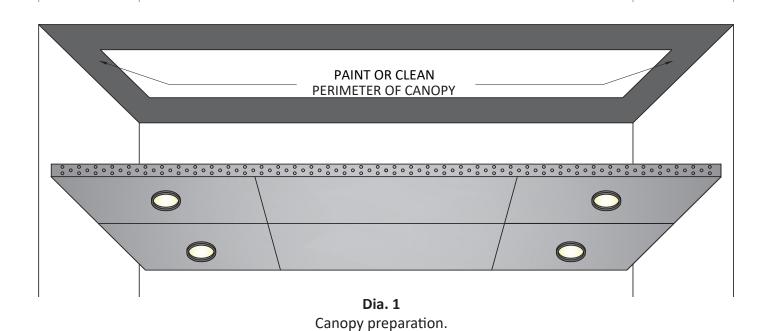
Office Hours: 6:30 AM to 3:30 PM Eastern Standard Time

### **SECTION 2: PREPARE CANOPY**

- 2.1. Unless specified otherwise, your new Slim-line Ceiling will be inset from the shell walls by 2" on all sides. Please consult drawings accompanying ceiling.
- 2.2. Prepare canopy to accept new Slimline Ceiling by completing one of the following options:
  - a) Sand, clean and re-paint the perimeter of the canopy with a desired color. Black or white are typical for this type of application
  - b) If the canopy is in good condition, a simple cleaning may be all that is required



Note: It is suggested that for both options a or b, a minimum of 6" of the perimeter of the canopy should be addressed by the process chosen.

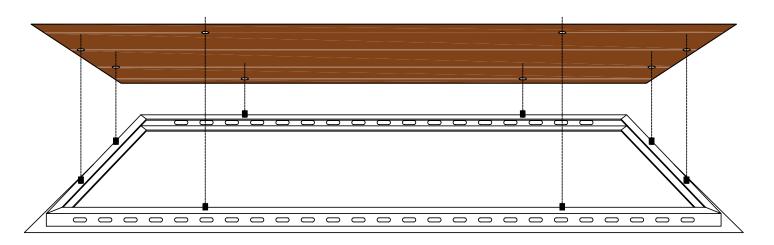




Note: Verify the lighting connections have all remained connected after shipping.

### **SECTION 3: PREPARE SLIM LINE ALTA CEILING**

- 3.1. Your ceiling includes a mounting template. This will be used to transfer hole locations from the perimeter support channels to the canopy of the cab. Determine safe locations on the car top where fasteners can be installed so that they are not obstructed by ribs, car top equipment, etc.
- 3.2. Place the template on top of the ceiling brackets and align it with the edge of the ceiling support frame. Once positioned, mark the mounting holes on the template and drill them out to at least 1/8" (Dia. 2).



**Dia. 2** Floating Ceiling with mounting template.

- 3.4. Position the template against the canopy of the cab in the desired location (typically centered side to side verify drawings accompanying ceiling) and temporarily secure into place with screws or tape. Copy the mounting holes to the canopy by marking through the template holes. Remove the template from the canopy.
- 3.5. Progressively drill holes up to ½" diameter in the canopy.

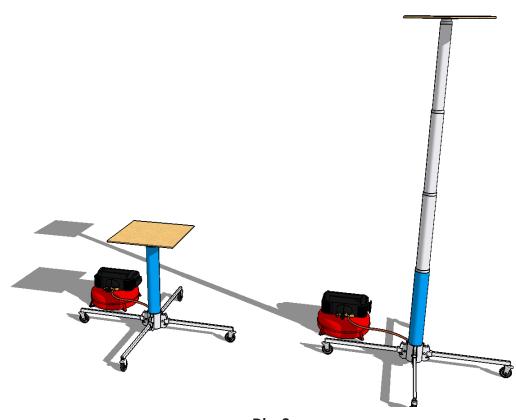


Note: Before drilling through the canopy, ensure that there are no encumbrances. If required, the fasteners can be moved and re-installed to suit the site conditions.

### **SECTION 4: INSTALL SLIM-LINE ALTA CEILING**



All floating ceilings should be raised into position using a mechanical lifter (such as a Genie Super hoist) rated with enough capacity. Lifting the ceiling into position without proper equipment can result in damage to the ceiling, the surrounding wall finishes and/or personal injury.



**Dia. 3** Genie ceiling lift.

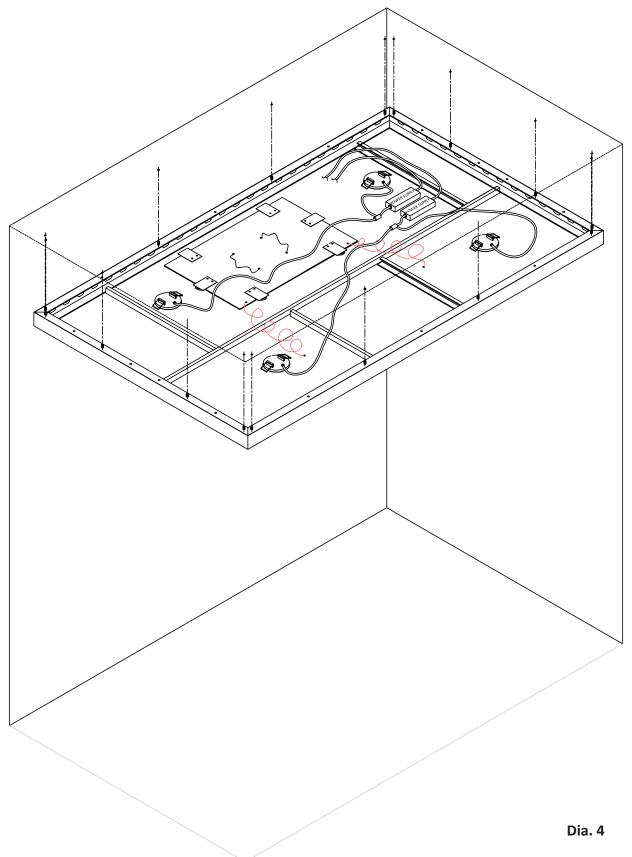


Protect any exposed wall finishes prior to raising the floating ceiling into position.

- 4.1. Ensure the platform of the lifter will not damage the ceiling during use. This can be accomplished using plywood covered with foam, or another non-marking material. If possible, it is preferable to leave the hatch area un-obstructed.
- 4.2. Open the hatch on the canopy.
- 4.3. Place the ceiling on the lifter with the good side facing down. Remove the Floating Ceiling hatch portion and place it inside the false ceiling where it can be reached from the escape hatch in the canopy.
- 4.4. Slowly raise the ceiling into place. This is best done with a person at the hatch looking between the ceiling and the canopy and making any adjustments necessary to align the studs with the holes in the canopy.

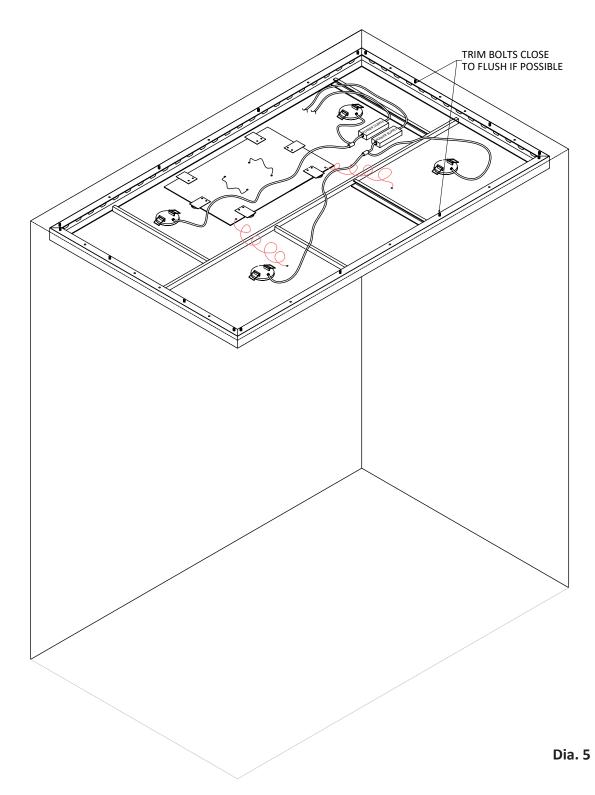
# **SECTION 4: INSTALL SLIM-LINE ALTA CEILING (CONTINUED)**

4.5. Fasten the Slimline ceiling to the canopy using the 1/4-20 bolts provided (Dia. 4). Loctite can be applied to the nut/bolt assembly (Loctite is not included).



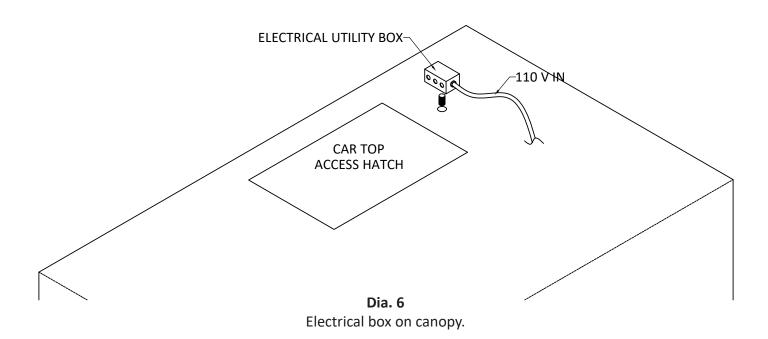
# **SECTION 4: INSTALL SLIM-LINE ALTA CEILING (CONTINUED)**

- 4.6. Once the ceiling is secured in place, trim the studs protruding from the canopy as flush as possible to remove any potential trip hazards (Dia. 5).
- 4.7. Carefully lower the mechanical lifter and remove it from the cab



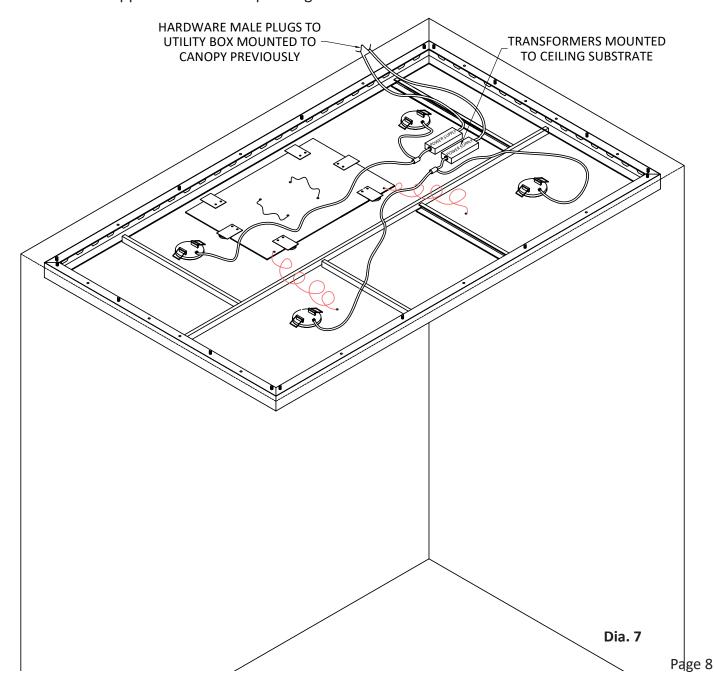
## **SECTION 5: ELECTRICAL CONNECTIONS**

- 5.1. The ceiling will be supplied pre-wired.
- 5.2. The lighting system runs on 110V AC through two low voltage power supplies. The installer must provide 110V to the lighting system. The system can be hard wired (utility box and connectors are provided) (Dia.6).
- 5.3. Mount an electrical utility box (provided) on top of the canopy (outside on the car), preferably at the rear of the car (near the hatch). This will provide the junction for the 110 V from the car top to the 110 V that will feed the power supplies for the disk lights.



### **SECTION 5: ELECTRICAL CONNECTIONS**

- 5.4. With the hatch in the open position, remove the male plugs from the 110V side of the power supplies to hardwire into the utility box from 5.3.
- 5.5. If a dimmer was purchased, the inline dimmer can be installed on the DC side of each power supply; the intensity can be adjusted by accessing the dimmer through the open hatch;
- 5.6. Set the required light level for you jurisdiction (ASME A17.1-2013/ CSA B44-13):
  - a) 50 lux for passenger elevators\*
  - b) 25 lux for freight elevators\*
  - \*Appendix E 100X for passenger



# **GLOSSARY**

#### Canopy:

The roof of the cab.

The top structural component of the shell.

The canopy houses the emergency hatch.

The canopy may have various electrical and mechanical components attached to its surfaces, both interior and exterior.

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