Savaria®
Luma L

Through-floor lift

PLANNING GUIDE

Applicable Codes:

ASME A17.1/CSA B44 2022, Section 5.3 (North America Only)
EN81-41-2024

savaria®

Important Notice

This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a project. Before beginning actual construction, make sure you have the installation (shop) drawings customized with specifications and dimensions for your specific project.

Lift configurations and dimensions are in accordance with our interpretation of the standards set forth by the codes listed below. Please consult Savaria or the authorized Savaria dealer in your area for more specific information pertaining to your project, including any discrepancy between referenced standards and those of any local codes or laws.

The dimensions and specifications in this Planning Guide are subject to change (without notice) due to product enhancements and continually evolving codes and product applications.

Visit our website **www.savaria.com** for the most current drawings and dimensions.

Purpose of This Guide

This guide assists architects, contractors, and lift professionals to incorporate the Luma L into a residential design. The design and manufacture of the Luma L meets the requirements of the following codes and standards:

- ASME A17.1/CSA B44 2022, Section 5.3 (North America Only)
- EN 81-41, 2024

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to residential elevators.

Revision History of This Guide

September 25 2026 - Initial release

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Product Elements Diagram

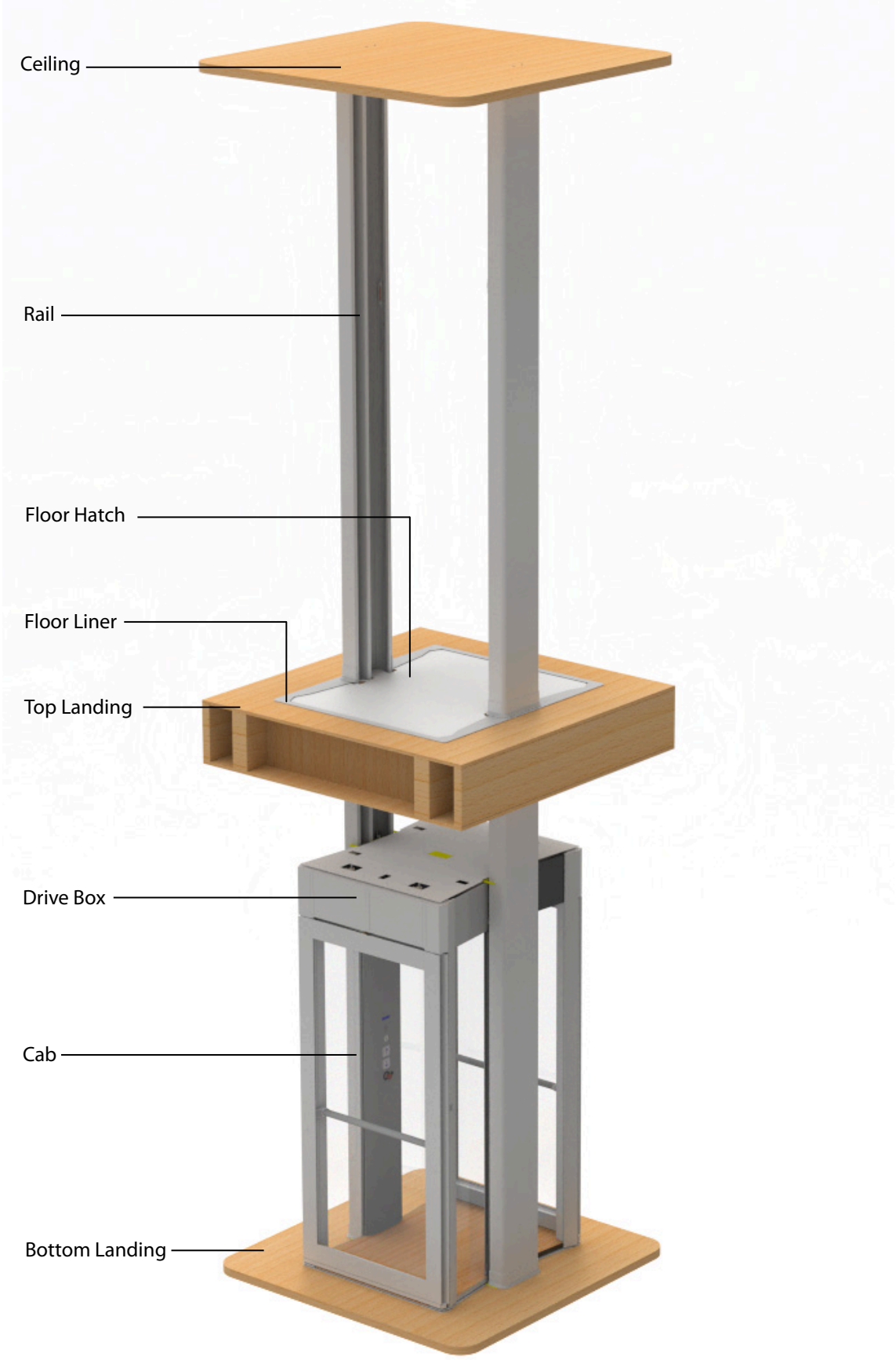


Figure 1: Luma L lift diagram

Technical Specifications

Specification	Specification Data
Load capacity	Europe - 250 kg North America - 500 lbs
Nominal speed	0.1 m/s (20 ft/min)
Power supply	110 - 240 VAC, Single phase, 5A
Drive system	Winding drum. 24 VDC Motor (Battery operated)
Operating temperature	+10 C to +35 C
Batteries	2x, 12VDC, 28 Ah 3x, 12 VDC, 4Ah
Charging	Charge stations positioned at the top and bottom landing
Internal Cab dimensions	1200 mm x 800mm (47 1/4" X 31 1/2")
Cab interior height	Standard - 2000 mm (78 3/4") Short Cab- (1905 mm (75")
Cab panel finish	Clear Acrylic
Cab floor area	1.08 m^2 (1677 in^2)
Maximum travel	4200 mm (165 1/4")
Noise level (Typical installation)	60 db (average inside cab)
Daily cycle	10 starts per hour (5 round trips) 30 starts per day (15 round trips)
Levels serviced	2
Minimum distance between 2 landings	Standard - 2380 mm (93 3/4") Short Cab - 2285mm (90")
Minimum ceiling height top landing	Standard - 2400 mm (94 1/2") Short Cab- 2310 mm (91")
Minimum ceiling height bottom landing	Standard - 2100 mm (82 3/4") Short Cab - 2005 mm (79")
Max distance from bottom landing to top ceiling	Standard - 6600 mm (259 3/4") Short Cab - 6505 mm (256")
Site floor thickness	Standard: Min - 200 mm (8") Max - 360 mm (14") Custom: (Additional charges will apply) Min- 100 mm (4") Max -915 mm (36")
Floor cut-out dimensions	1165 mm x 1300 mm (45 7/8" x 51 1/8")
Control system	Savaria Universal Vertical Controller
Compliance	ASME A17.1/CSA B44 2022, Section 5.3, EN 81-41, 2024

Specification	Specification Data
Safety feature	Overspeed protection Slack rope Manual lowering E-stop Top & Bottom safety pans Emergency power Cab floor interlocks
Phone system	One Touch Alert GSM Based (SIM card by others) -Supported: 4G LTE / Volte nano sim -Not supported: 5G, E-sim
Ventilation mode	Fan
Color of unit	Cab- White Powder coating PS111W2 Rails- White Powder coating PS111W2 COP and Opposite panel- Silver Velvacoat PK612s3
Interior cab floor finish	Altro- Bleached Oak (WSA2001)
Floor hatch finish	Altro- Symphonia Hibiscus (SY20005)
Cop panel	Can be mounted on either side
Call station	Handheld, Wall mounted 2 Button Remote- 868MHz for EU 2 Button Remote- 915MHz for NA
Remote diagnostic tool	Savaria Link (Optional, Wi-Fi Connection required)
Emergency operation	Full up and down travel on power interruption up to 10 starts, 5 round trips (full battery backup).
Options	Type 1 Type 2 Standard (2000 mm (78 3/4") Short cab(1905 mm (75") Door - Left hand/Right hand Luma seat (100 kg max) Power Door Operator

Provisions By Others

GENERAL

Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

Dimensions

The contractor/customer must verify all site dimensions prior to delivery of the unit.

Heated Floor

No heated floor below floor plates.

STRUCTURAL

Floor Loads

A structural engineer or qualified professional as required by your authority having jurisdiction is required to ensure the building will safely support all loads imposed by the lift equipment inclusive of additional safety factors required locally. Refer to the tables on the installation drawing or load pages of this guide.

ELECTRICAL

Electrical Requirements

110/240 VAC, Single Phase, capable of supplying 5 amps. Electrical connection must follow the guidelines outlined on site preparation section. Alternatively, a dedicated outlet located near the floor cut-out may be used to plug in the charger and route the necessary wiring to the lift.

Permanent Power

Before installation can begin, permanent power must be supplied.

RF Wireless Call Station

Handheld, Wall mounted. 2 Button remote (Figure 2)

- 868MHz for EU
- 915 MHz for NA

Figure 2: Radio-frequency remote control

Site Preparation

The following items MUST be completed prior to installation of the lift.

Fire Rated Area
Luma L is not suitable for installation in areas or rooms that require fire-rated protection or are part of a designated smoke barrier (i.e. garage).

Finished Floors
Finished floors be installed at both landings.

Floor Built for Load
Smooth level surface for installing the lift, with floor load bearing capacity for the elevator plus rated load.

Drywall and Painting
All drywall and painting must be complete.

Load Calculations

- Primary loads are carried by two rails that run from top to bottom on the lift.
- The load is supported on plates at the bottom of each of the rails.
- Luma L is designed to transfer the fully loaded lift weight and impact forces to the lowest level through the rail base plates, provided it is properly installed in a structurally sound building with consistent floor-to-floor heights. (Figure 3)
- Top floor and the bottom floor may be subjected to a maximum lateral load of 200 lbf.
- Where necessary, the building construction shall be reinforced to provide adequate support for the rails.
- Floor load figures include lift structure weight when loaded with full capacity

Drawings

Site construction details

Luma L requires a floor base capable of supporting a minimum load of **2330 lbf (10360 N)**.

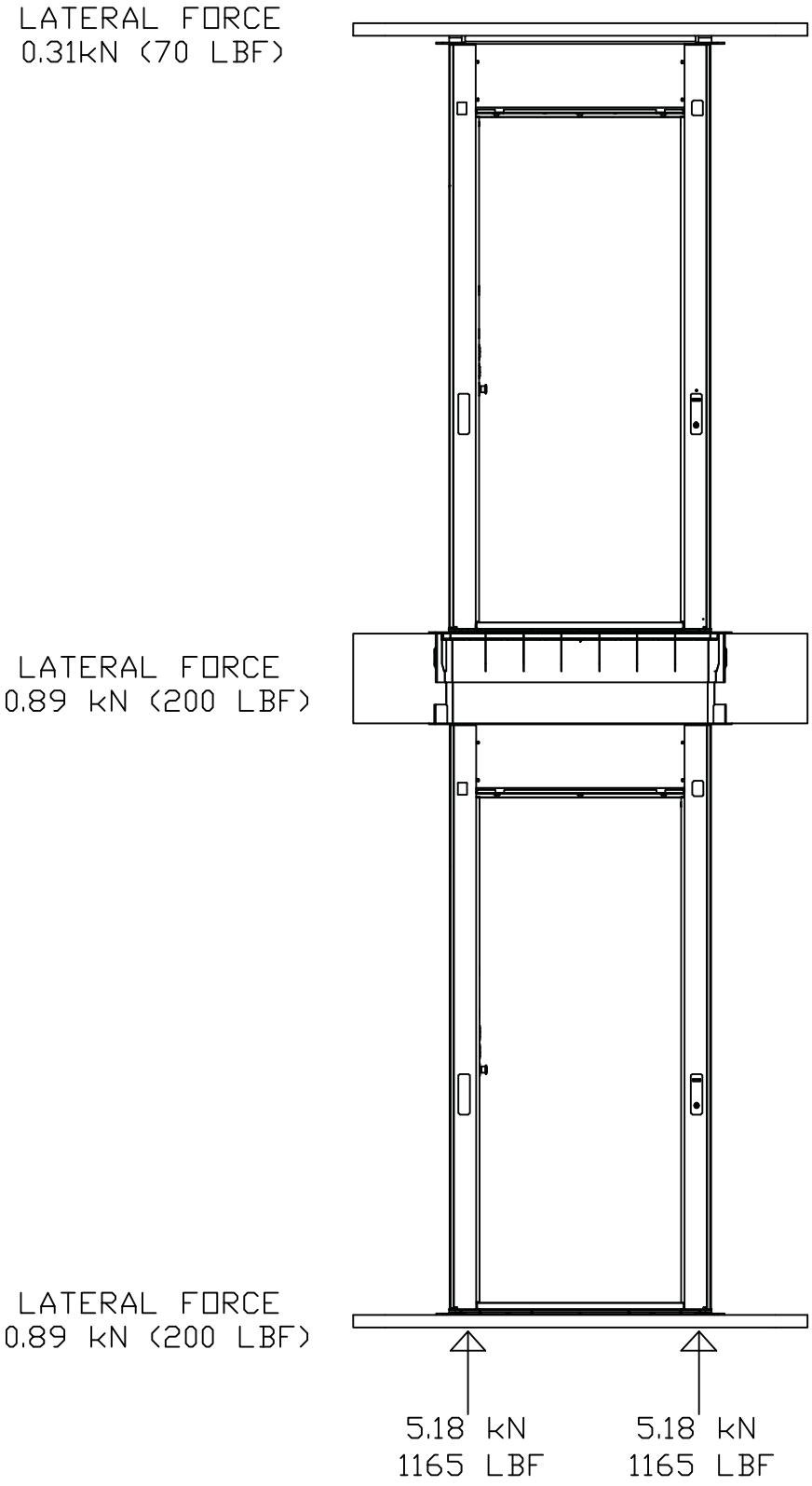


Figure 3: Support Load Diagram

NOTE: The house floor may need to be reinforced prior to lift installation if there is a habitable space below, to ensure structural integrity and meet safety requirements.

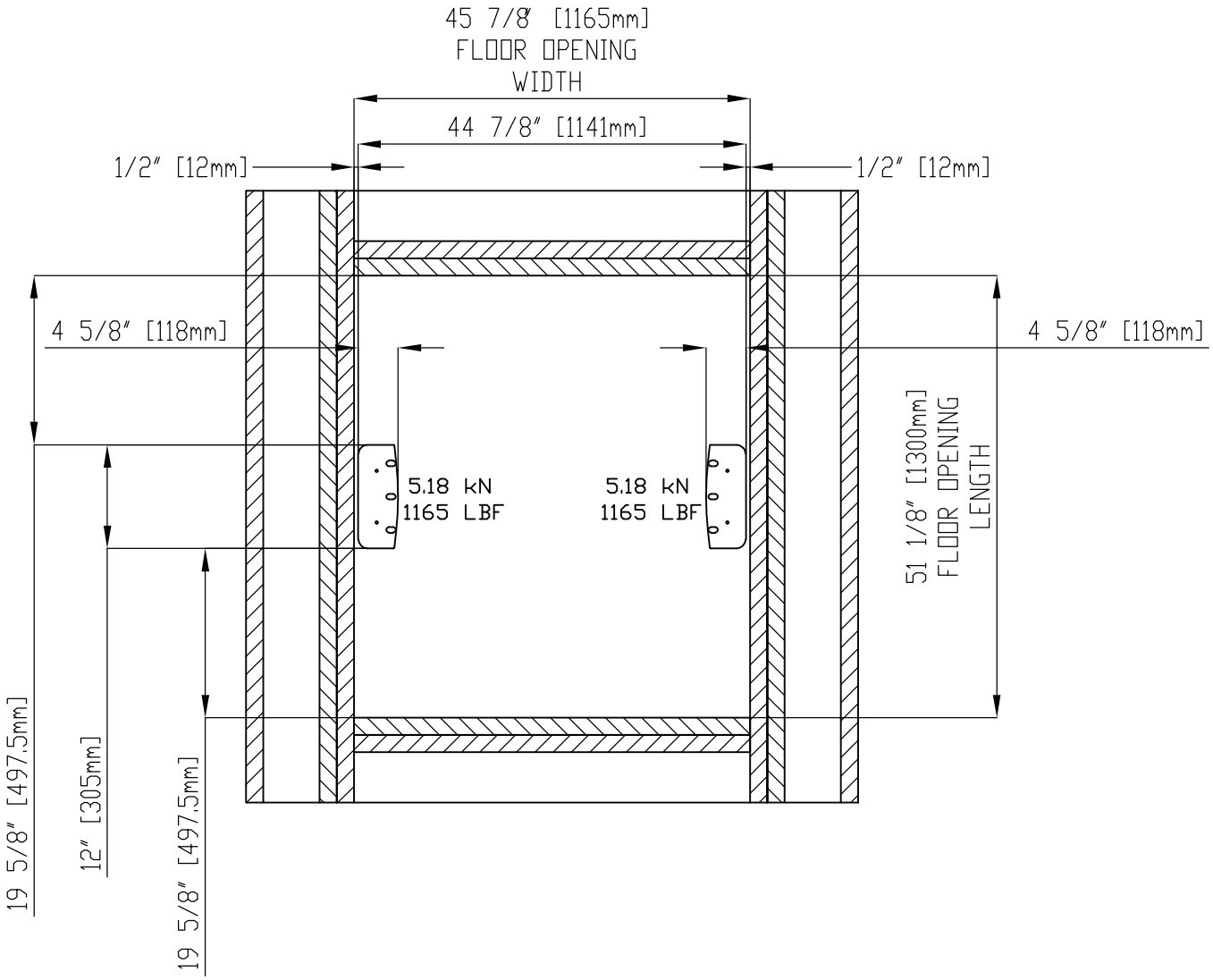


Figure 4: Bottom Floor Vertical Load Details

Ground Floor Attachment

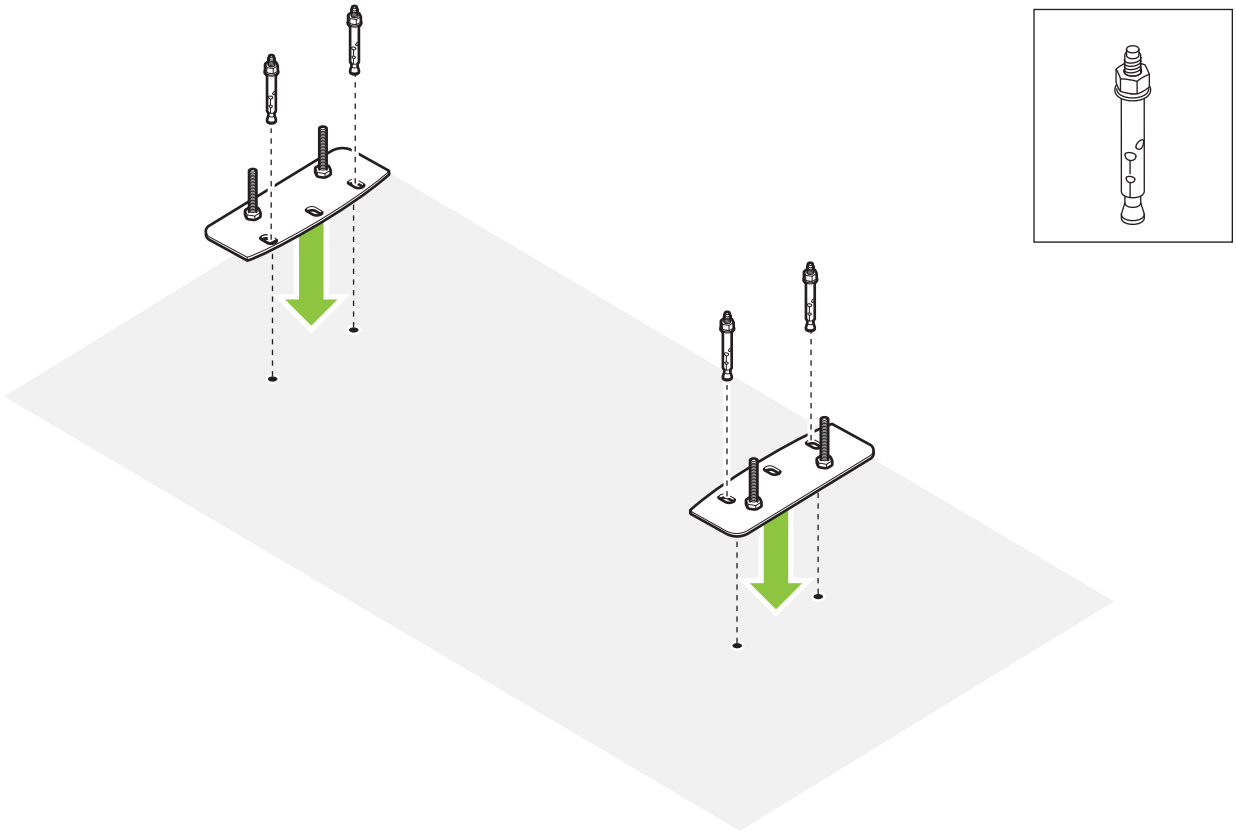


Figure 5: Floor Anchor for Concrete Floor on Bottom Landing

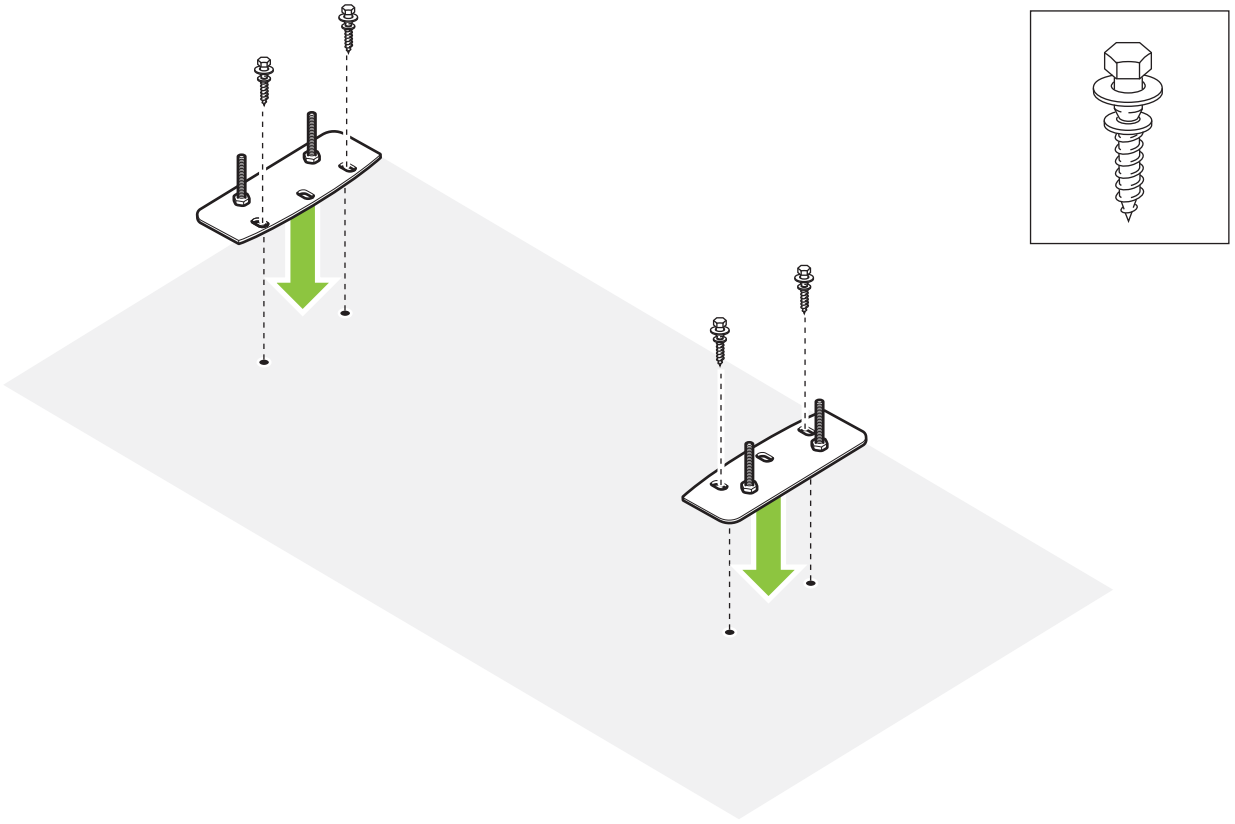
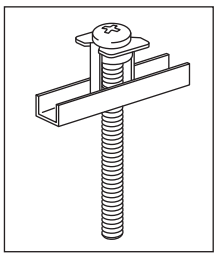


Figure 6: Floor Anchor for Wooded Floors on Bottom Landing

Ceiling Attachement



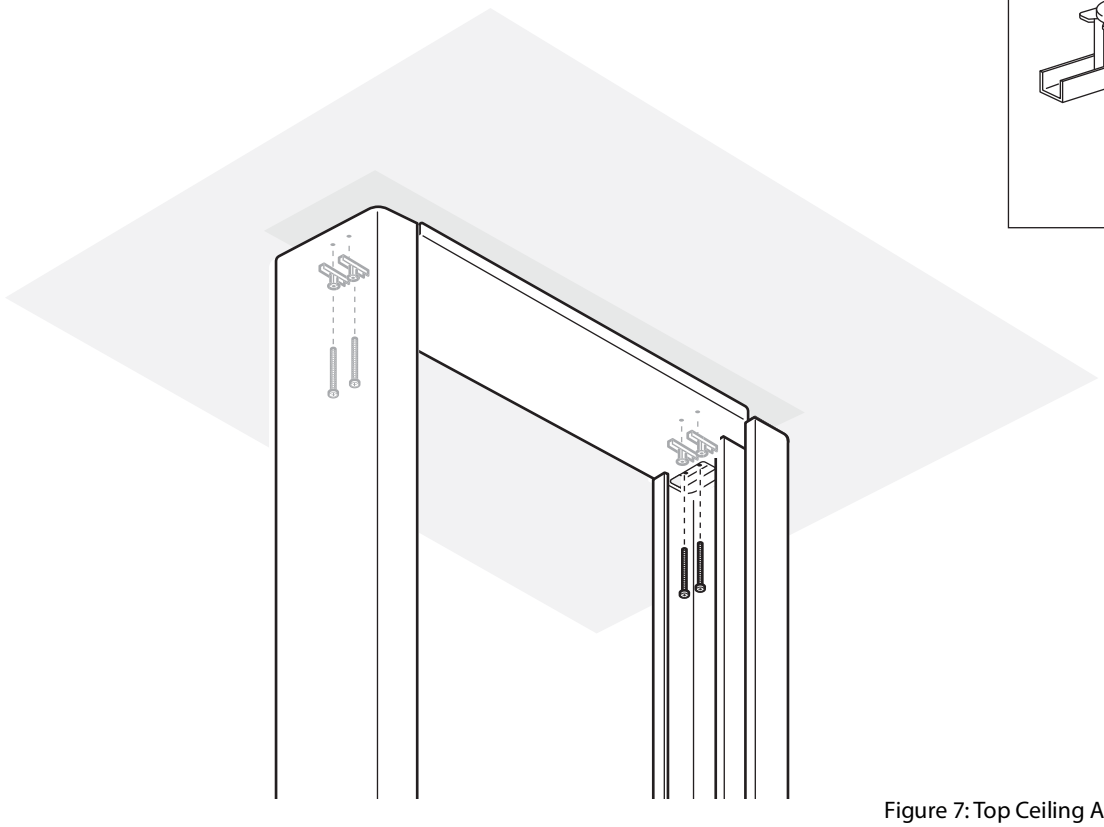
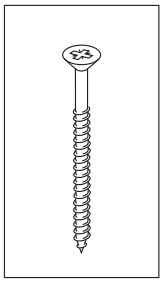


Figure 7: Top Ceiling Anchor System



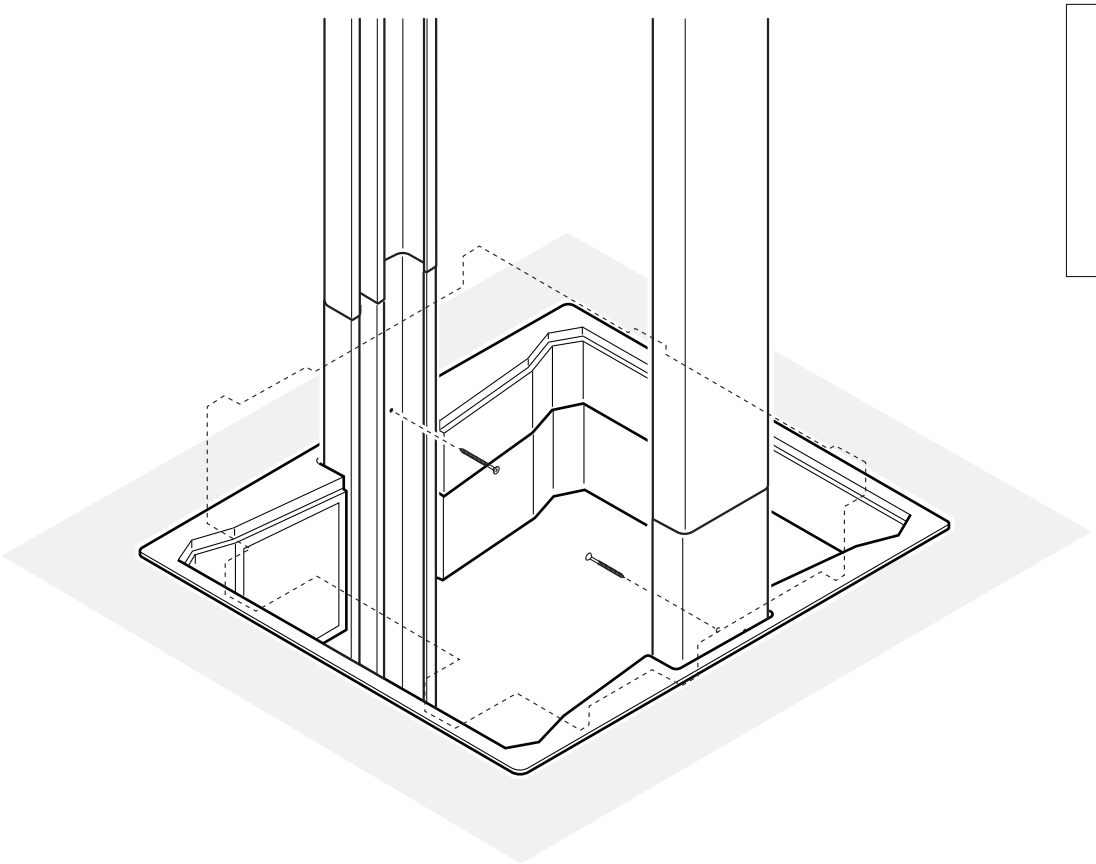


Figure 8: Floor Liner Anchor System

Floor Opening (Type 1 and 2)

Floor Opening must be Reinforced with double joist on all four sides (Figure 9).

There should be hole on the back side of floor opening for electrical connection (Figure 10).

NOTE: Floor cutout vertical faces don't need to be finished, as they will be covered by the floor liner

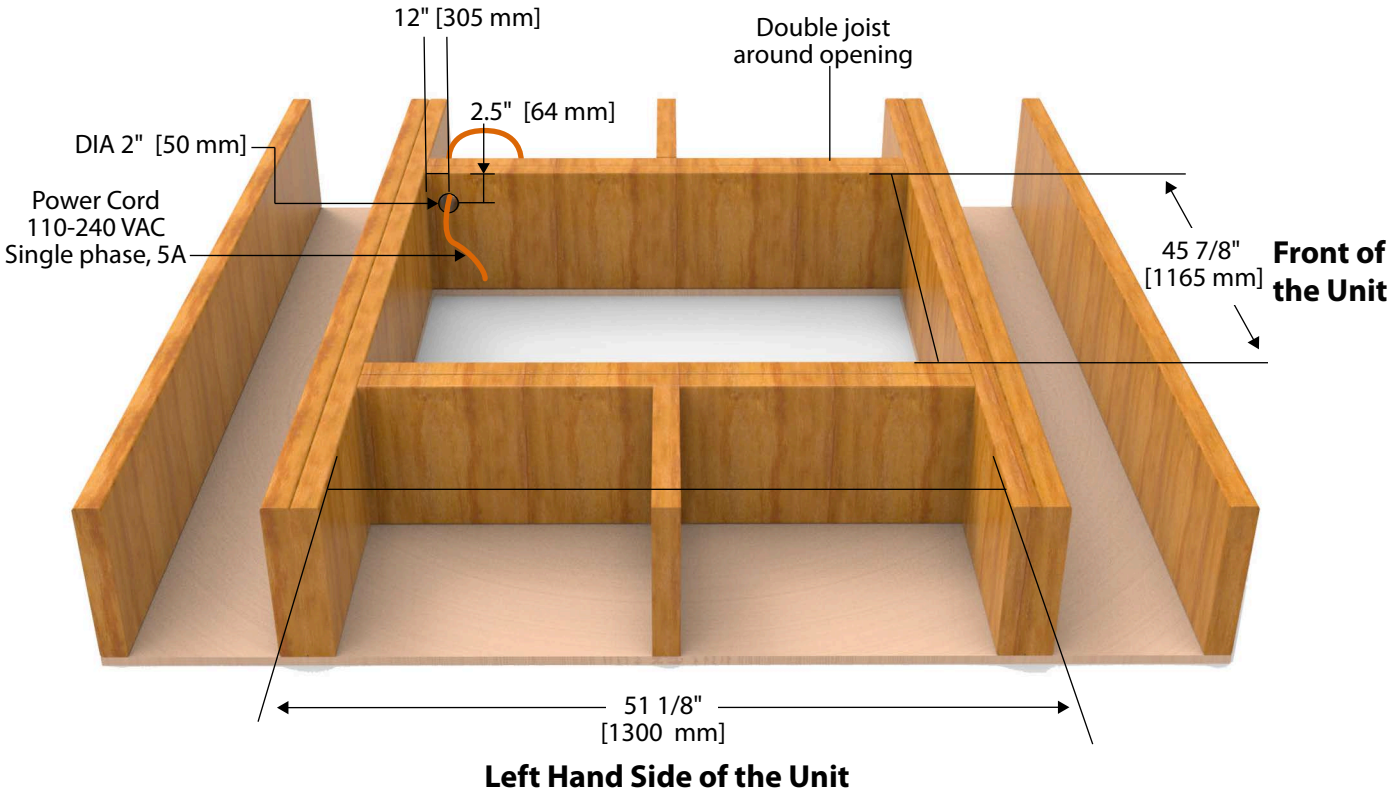


Figure 9: Top Landing Floor Opening

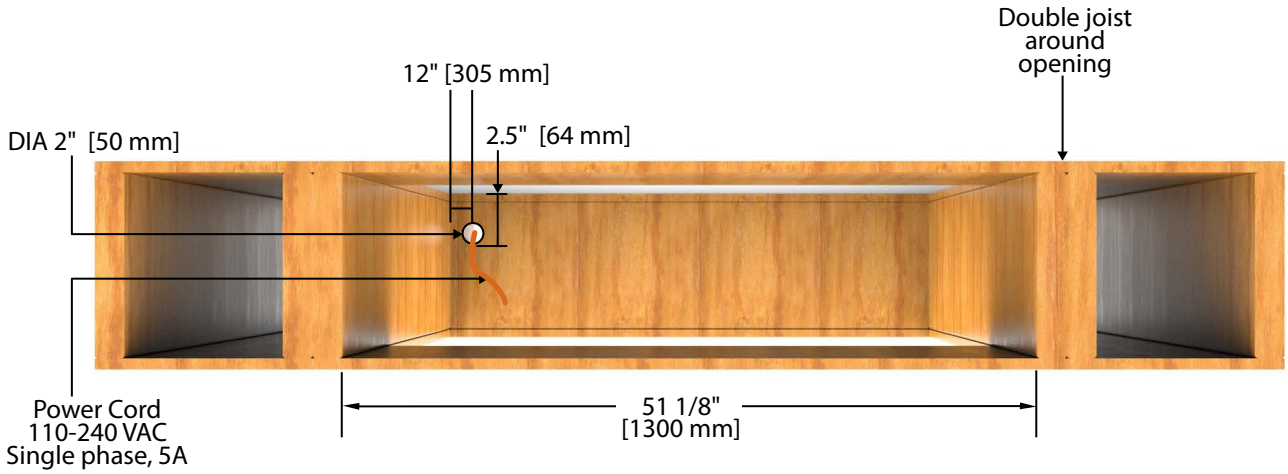


Figure 10: Hole for Electrical Provision

Electrical Provision:

110–240 VAC, single phase, capable of supplying 5 amps power source is required. As part of the site preparation, the power cable should be routed through the floor opening and made ready for installation (Figure 11). This preparation is the responsibility of the homeowner or contractor and should be completed prior to installation. Alternatively, a dedicated outlet located near the floor cut-out may be used to plug in the charger and route the necessary wiring to the lift (Figure 12).

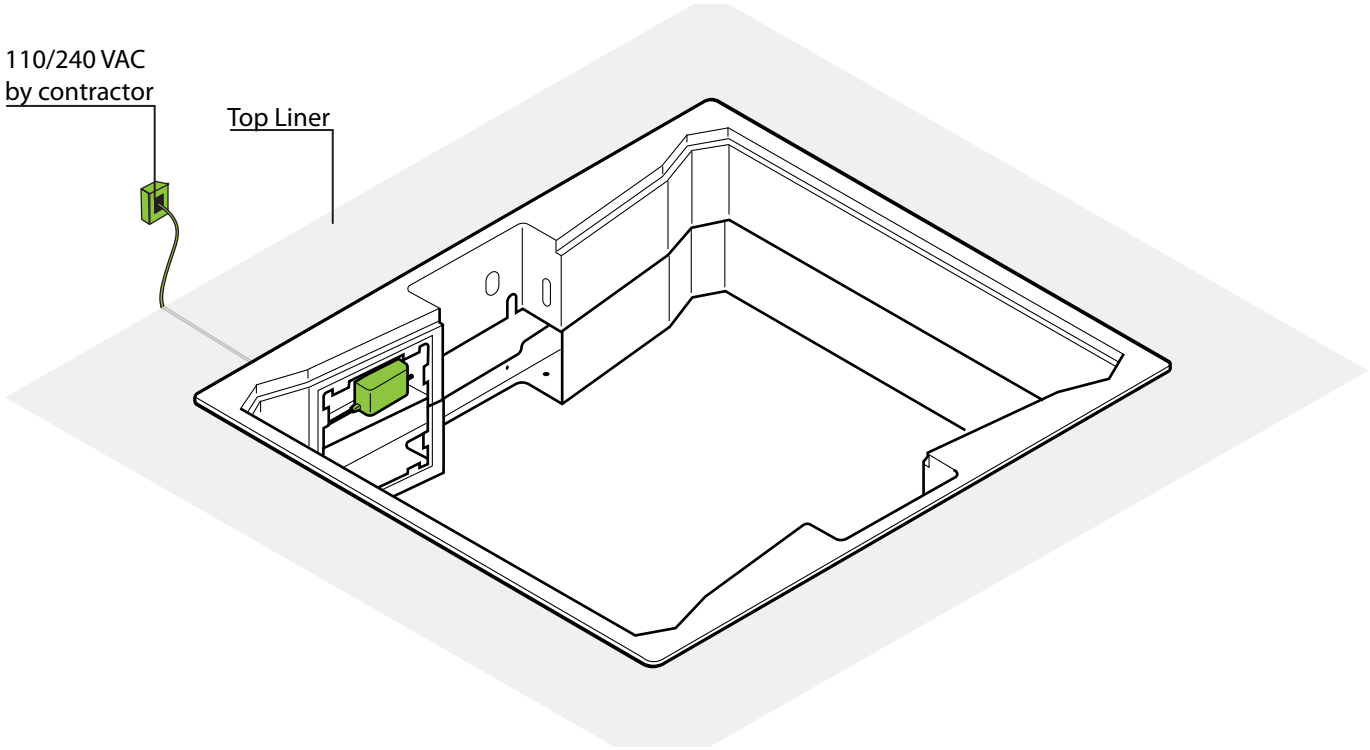


Figure 11: Option A - Power Cord outside Floor Liner (By Contractor)

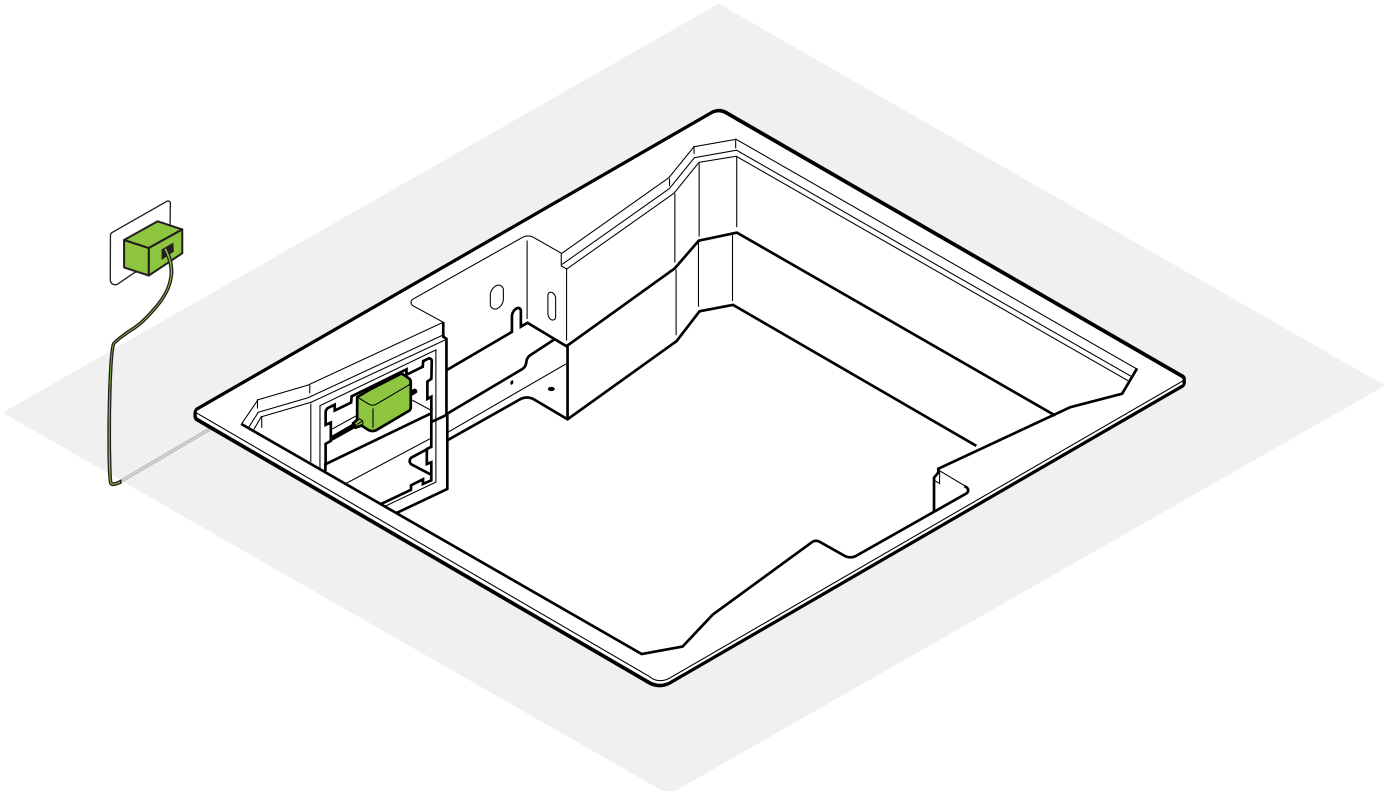


Figure 12: Option B - Power Connected to Near By Outlet

Floor Hatch:

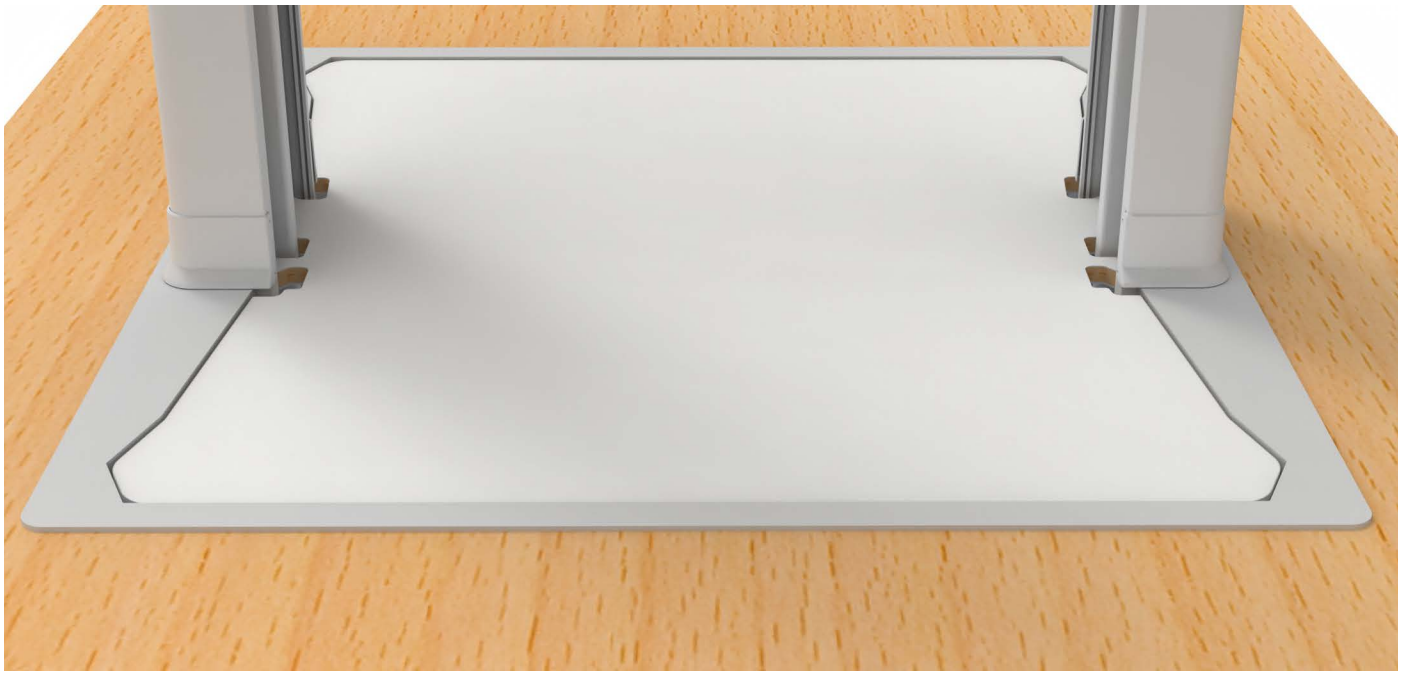


Figure 13: Hatch View From Top Landing

Figure 14: Floor Liner View From Bottom Landing

Minimum Space requirement:

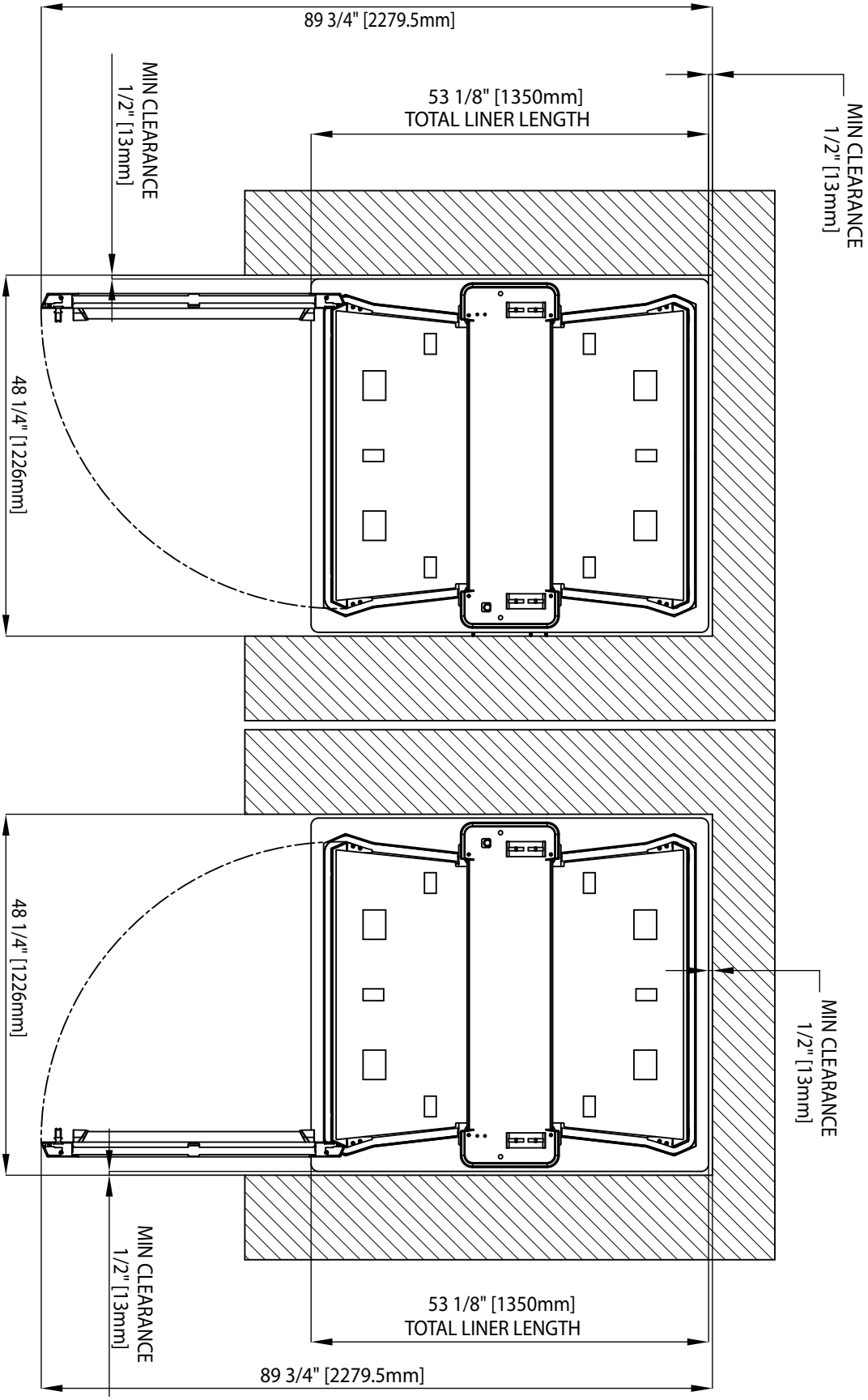


Figure 15: Type 1

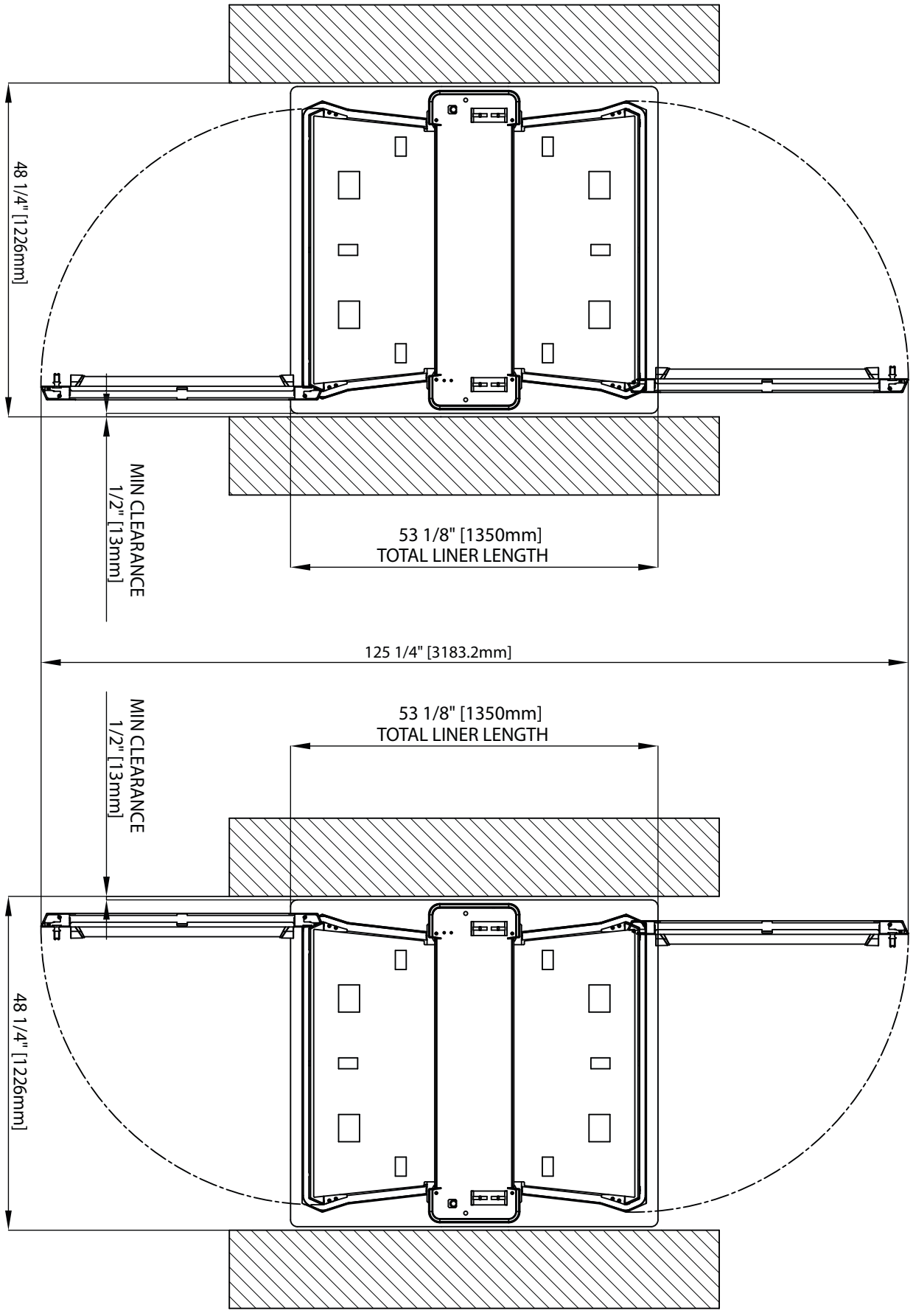


Figure 16: Type 2

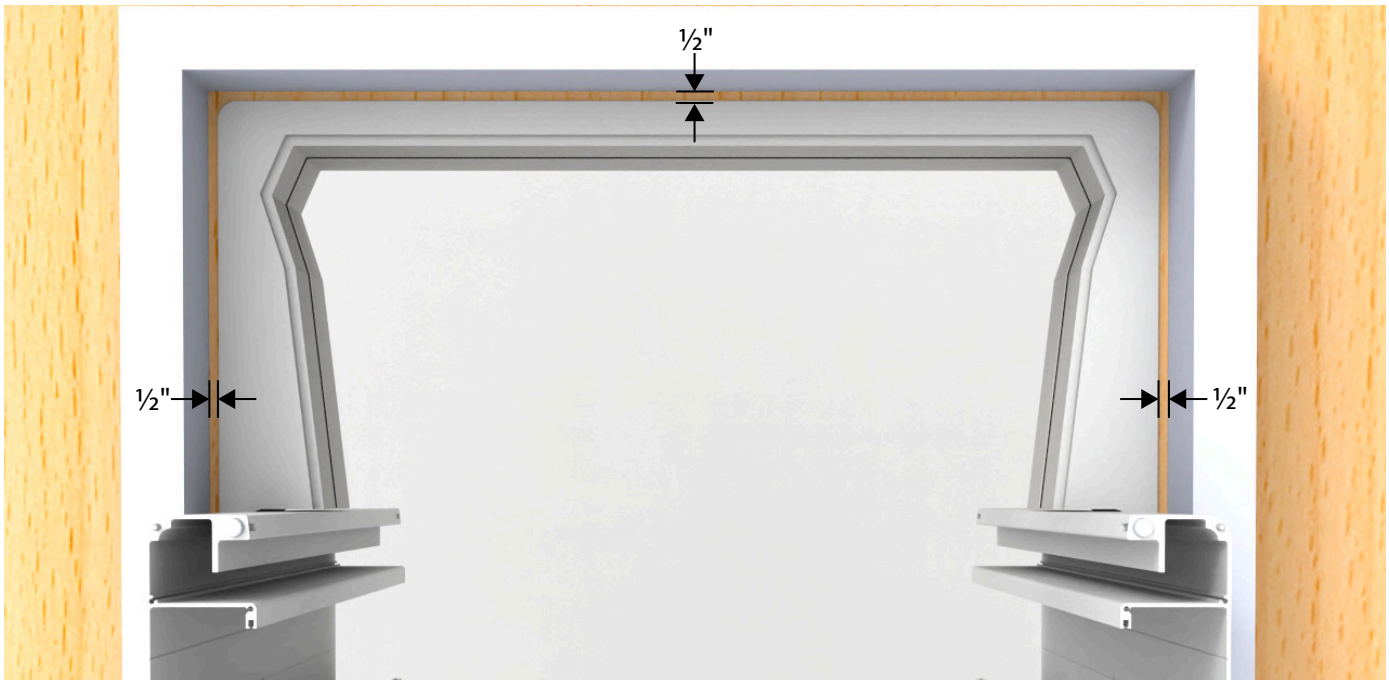


Figure 17: Floor Liner Minimal Clearance

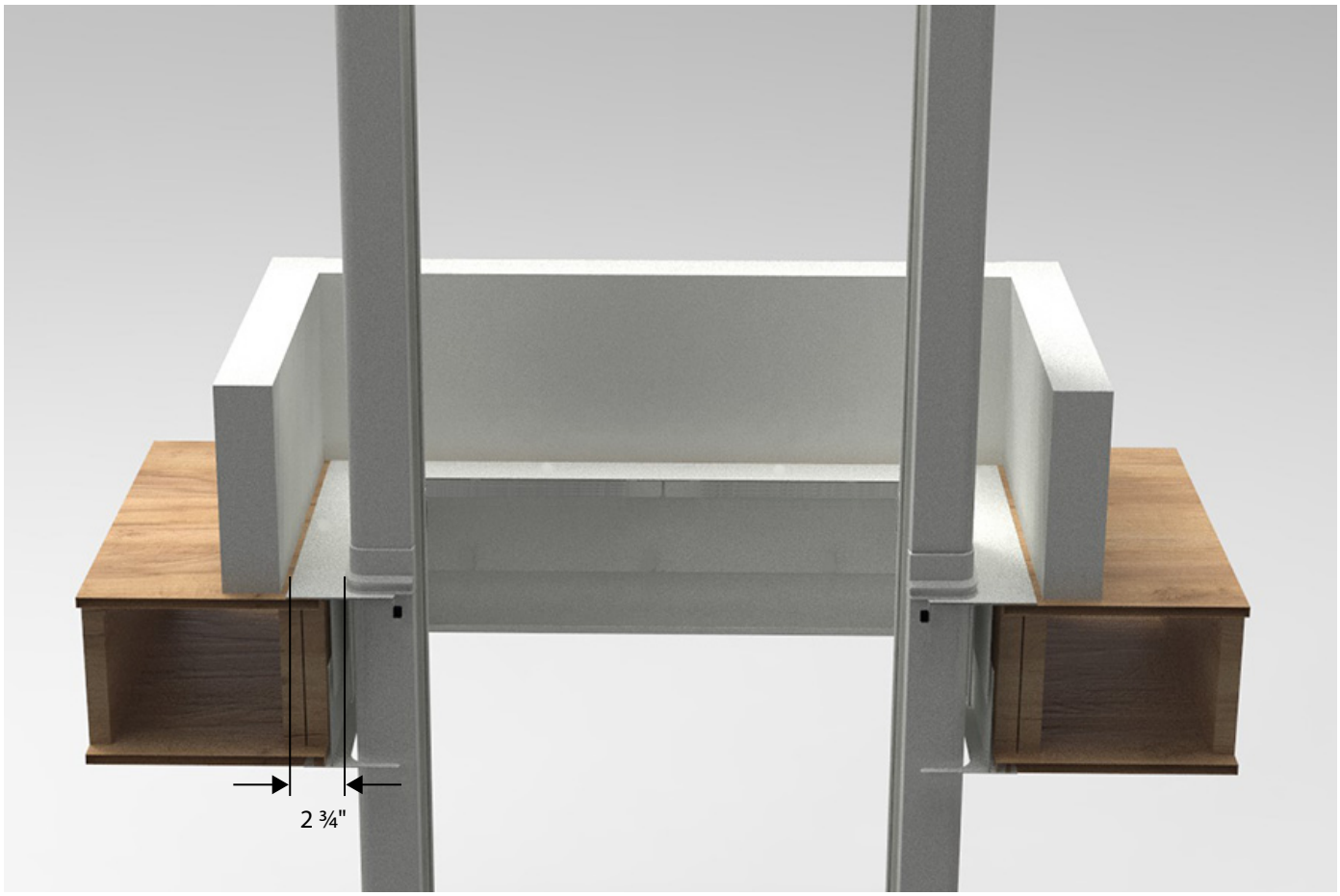


Figure 18: Minimal Clearance From Wall To Floor Opening

Elevation View

The following illustration shows the general elevation view and dimensions of the Luma L.

The minimum overhead clearance is **2400 mm (94 1/2")** for a **2000 mm (78 3/4") inside height cab** and **2310 mm (91")** for a **1905 mm (75") inside height cab**. Please refer to your site-specific installation drawings for details relevant to your job site.

NOTE: Below shows the standard dimensions for upper landing floor thickness. For custom floor thickness, a minimum of 100 mm (4") to a maximum of 914 mm (36") is available.

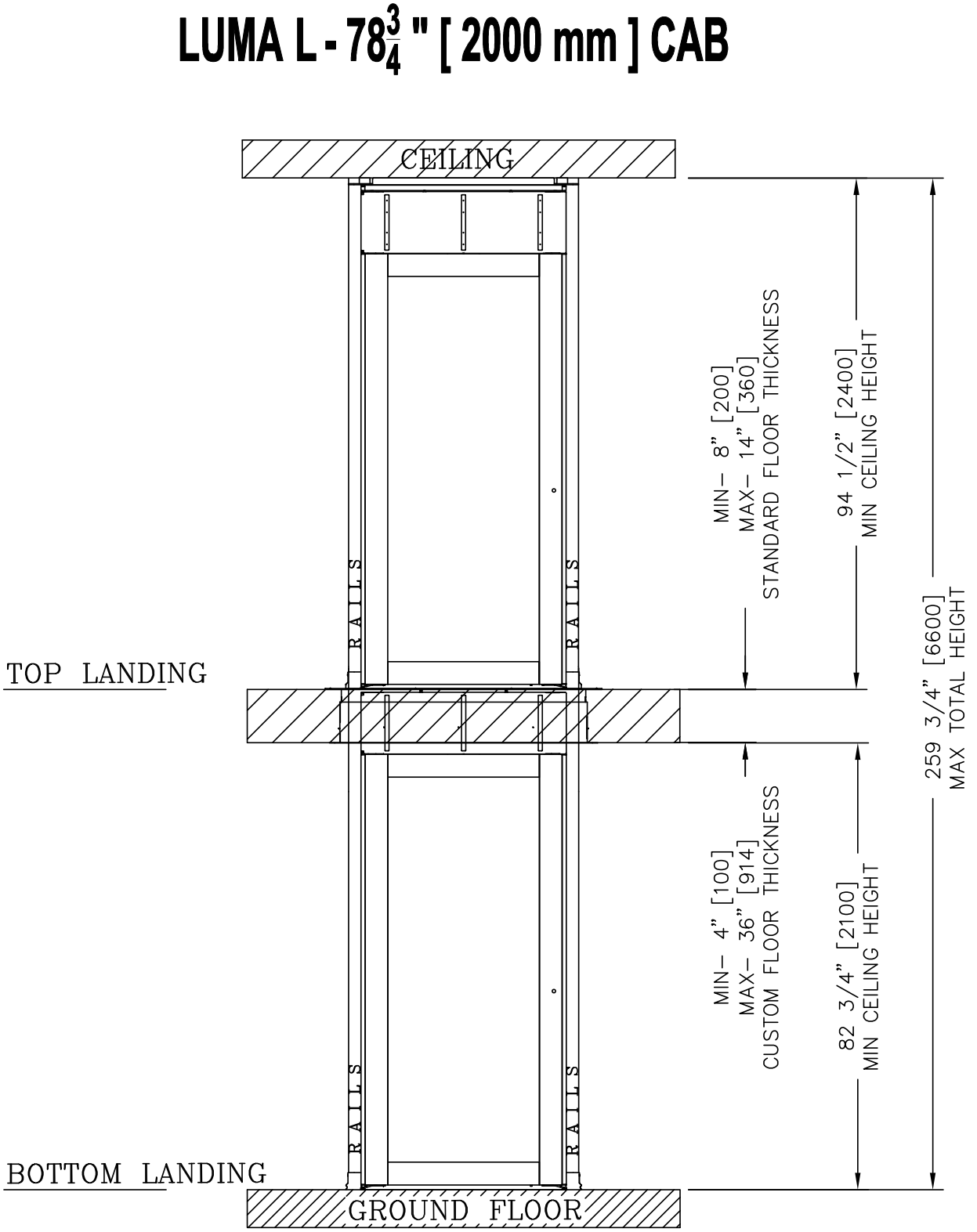


Figure 19: Elevation View - 2000 mm (78 3/4") Cab

LUMA L - 75 " [1905 mm] CAB

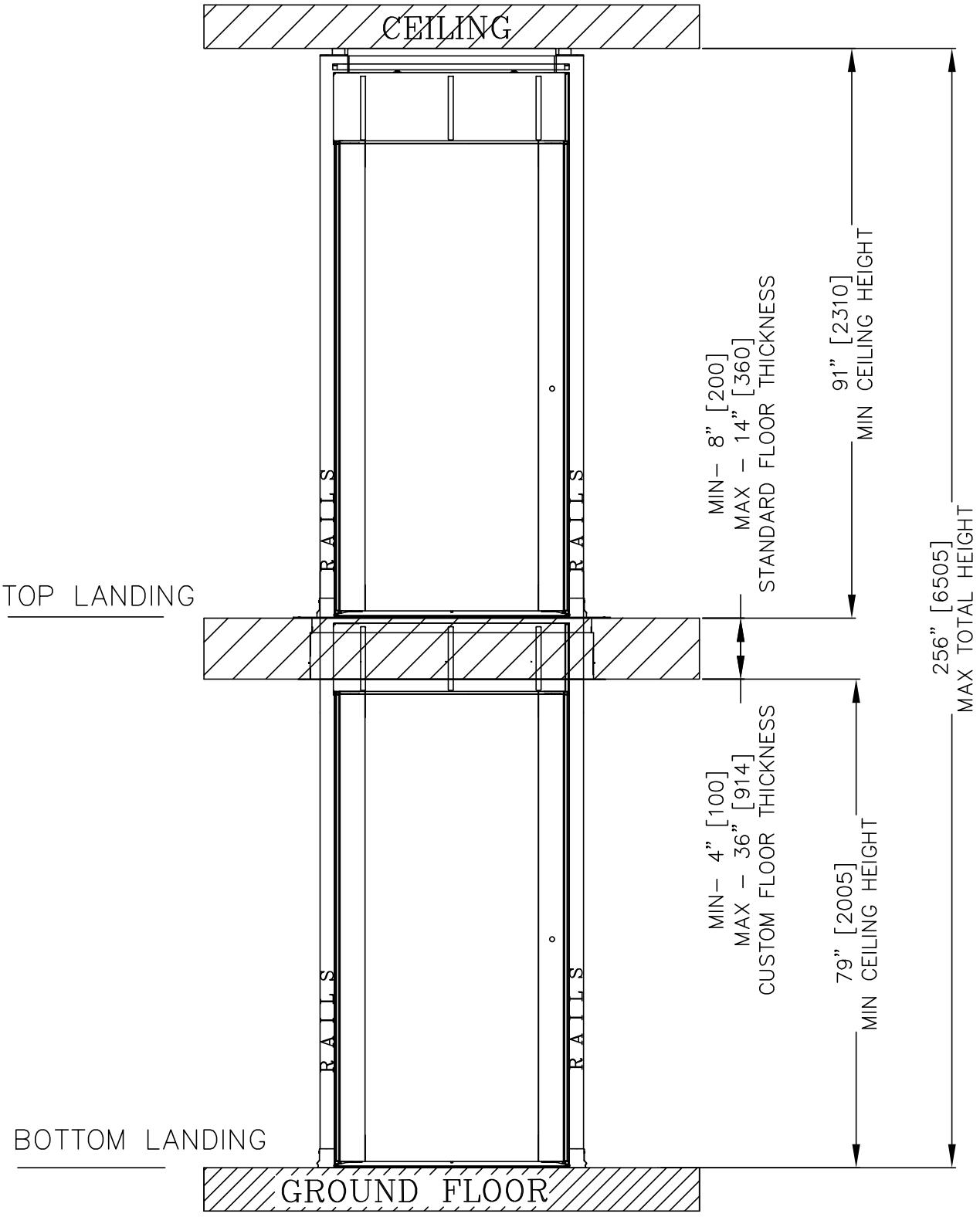


Figure 20: Elevation View - 1905mm (75") Cab.

Savaria Luma L

Through-floor Lift
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