

AVPL

ACCESS VERTICAL PLATFORM LIFT

PLANNING GUIDE

FOR STANDARD MODELS IN HOISTWAY
FOR ARCHITECTS AND LIFT CONTRACTORS

May 7, 2019

AMERICAN ACCESS INDUSTRIES AND SERVICES

Introduction

This Planning Guide is designed to assist architects, contractors, building owners and lift contractors in planning for an American Access Industries AVPL vertical platform lift that meets ASME A18.1-2017. Note: There may be state and local codes that affect the installation of and AVPL lift.

We strongly recommend that you contact the codes authority having jurisdiction in the area where the wheel chair lift will be installed. Become familiar with all requirements governing the installation and use of wheelchair lifts.

IMPORTANT NOTICE:

This Planning Guide provides nominal dimensions and specifications useful for INITIAL planning of a wheelchair lift project. Before beginning actual construction, be sure to receive application drawings customized with specifications and dimensions for your specific project. Call 816 997 9317 to find a dealer in your area.

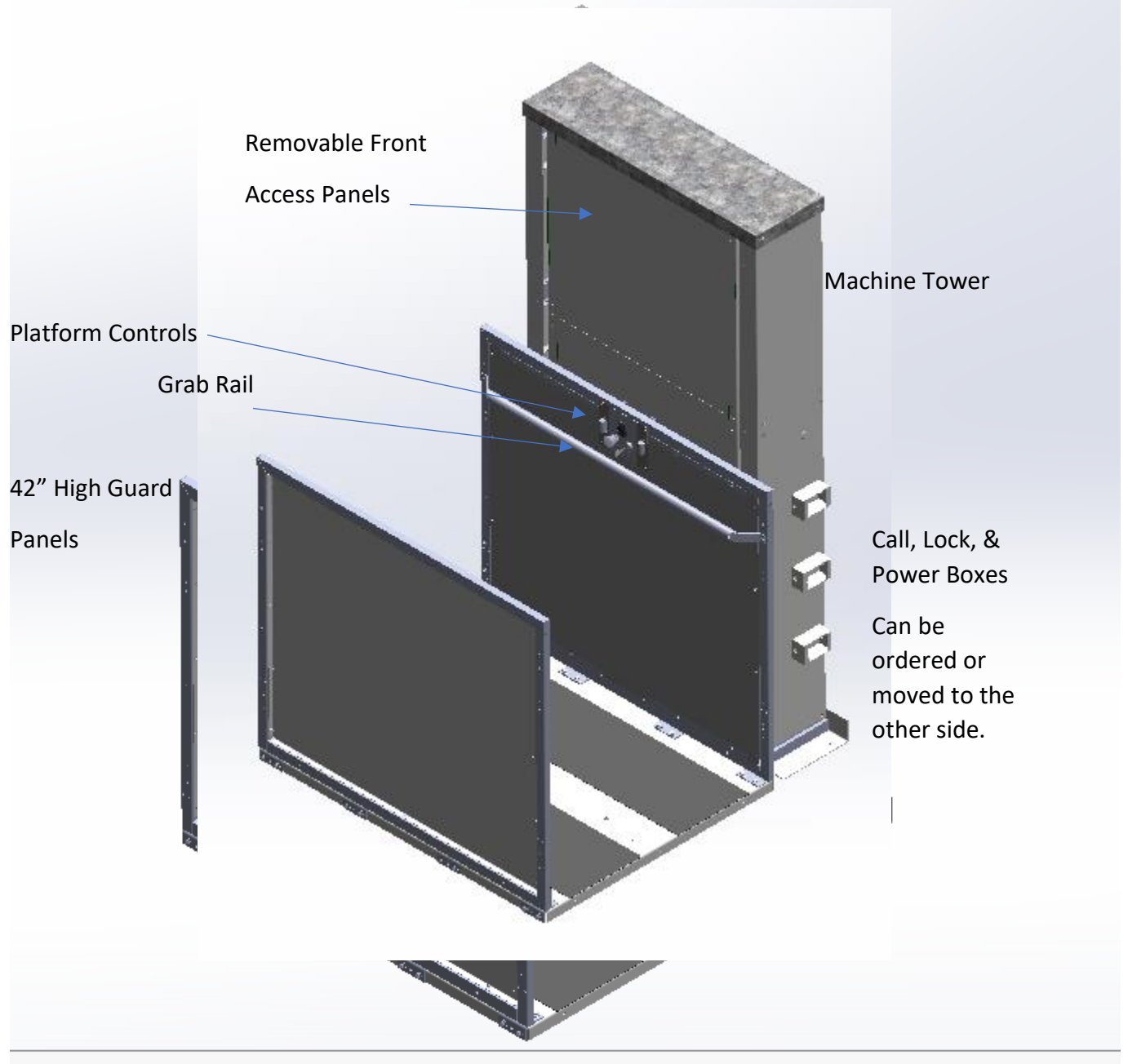
Wheelchair lift configurations and dimensions are in accordance with our interpretations of the standards set forth by ASME A18.1. Please consult American Access Industries or an authorized dealer in your area for more specific information pertaining to your project, including any deviations between referenced standards and those of any local codes or laws. Always contact local codes authorities for any variation to standards.

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

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AVPL Overview



Drive System

Pump: 24VDC Hydraulic pump, 1500 psi. with relief switch

Batteries: (2) 12-volt, 33 AH, sealed, no maintenance batteries, 4-amp Smart Charger.

Speed: With rated load 18 to 21 feet/minute

Safety: Manual Emergency Lowering Relief Valve, Broken Chain safety device, and services
Pendant plug.

Drive: 1:2 Chain hydraulic single stage 42mm cylinder with line rupture valve. (2) #60 chains.

General Equipment on all units.

750 lbs. Rated load. 42" High guard panels ETL Listed.

36"X48" Platform with optional 36"X60" Platform. Platform with non-skid surface

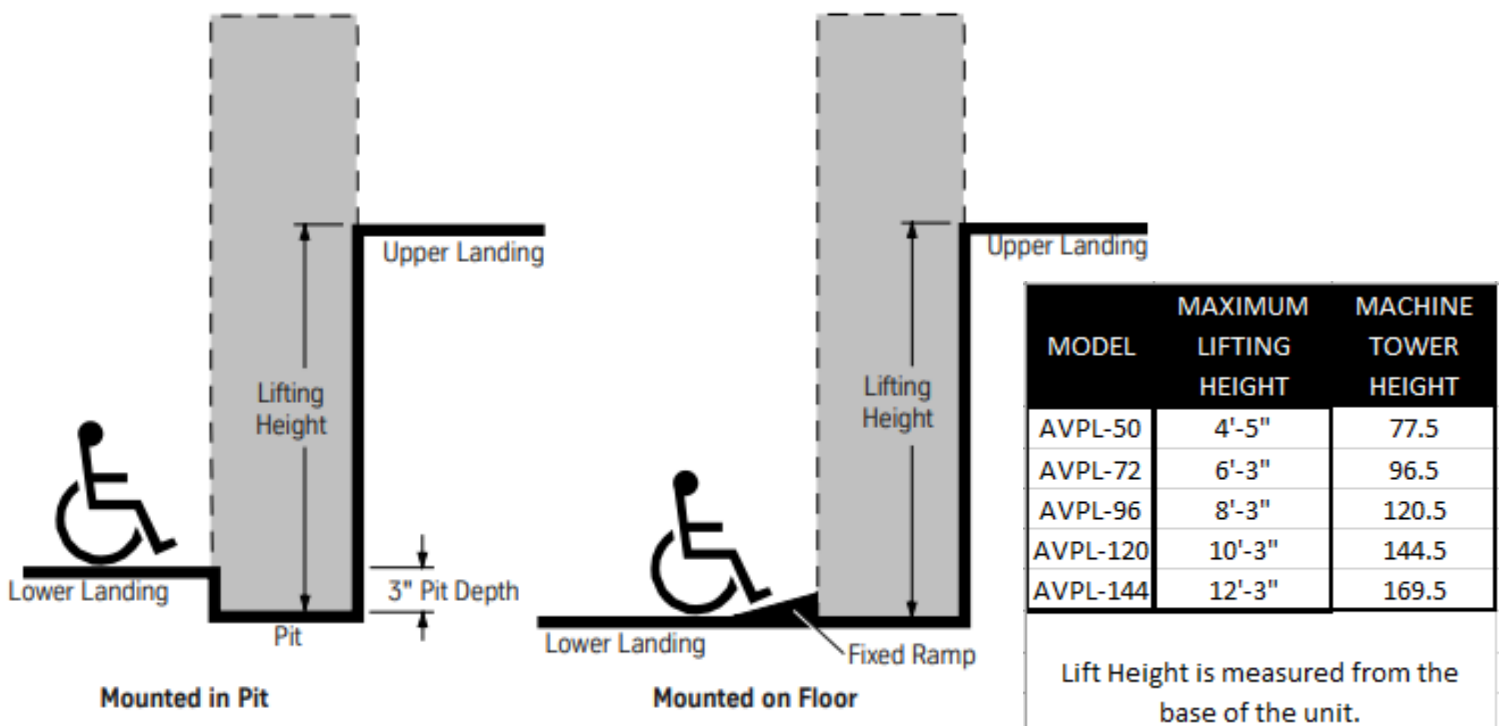
Optional Platform safety pan. Relay Logic motor controls. Final limit Switch.

3 Year warranty on drive train (pump and hydraulic cylinder).

2 Year warrant on other components including batteries

Constant pressure, low voltage controls; rocker switch with key operation and optional emergency stop and/or alarm.

NOTE: All units and options are manufactured and designed to National Vertical Lift Code A18.
If you have any local codes that deviate from the national code. Please call to see if we can accommodate your specific circumstances.



Power requirements.

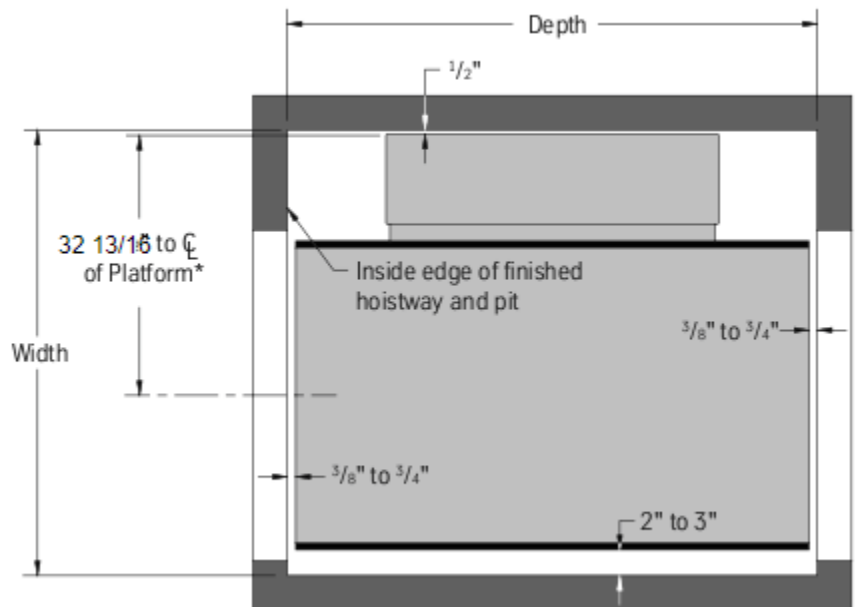
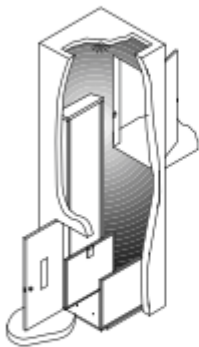
115 VAC, single phase, 15-amp, 60 Hz power circuit required to be supplied by others.

If the unit has auto door openers an outlet will be required at each door with the same power requirements.

Note: Unit is battery operated. 115 VAC source is for the battery charger.

HOISTWAY LAYOUT

Hoistway layout
Straight-thru platform



Sizes: 36" x 48" (standard)

36" x 60"

Available with 2 or 3 stops.

6'-8" minimum above top landing floor required for overhead clearance.

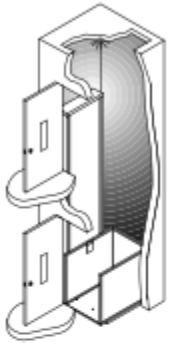
* Doors and gates are to be centered on the platform opening. See door and gate details for construction openings.

Note: Overall dimensions and running clearances conform to ASME-A18.1. Dimensions are to finished walls.

PLATFORM SIZE	HOISTWAY DIMENSIONS	
	WIDTH	DEPTH
36" X 48"	53 3/4" to 54 3/4"	48 3/4" to 49 1/2"
36" X 60"	53 3/4" to 54 3/4"	60 3/4" to 61 1/2"

Dimensions to finished wall

Hoistway layout
Enter/exit same side platform



Sizes: 36" x 48" (standard)

36" x 60"

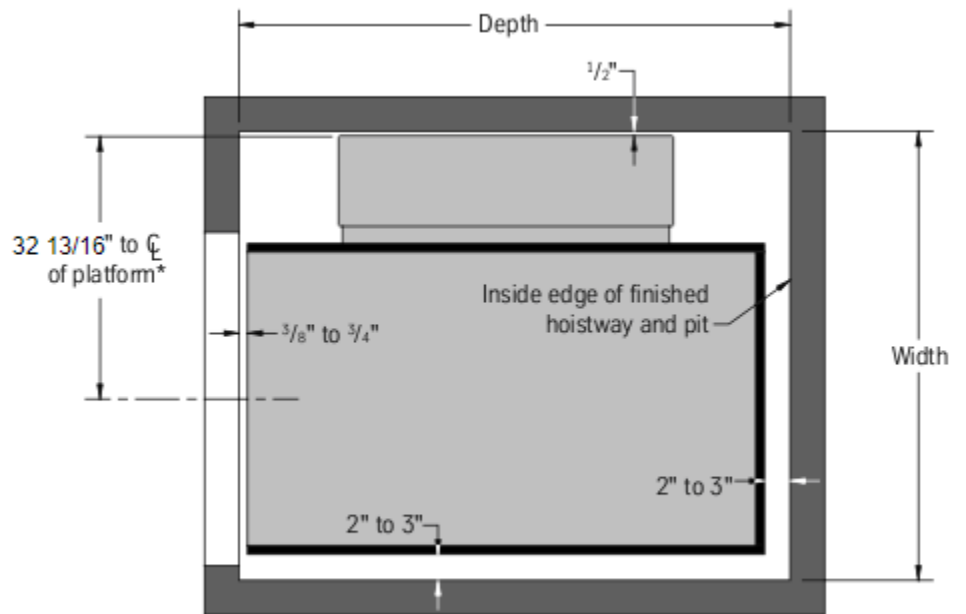
Lifting height must be a minimum of 8'-0".

Available with 2 stops only.

6'-8" minimum above top landing floor required for overhead clearance.

* Doors and gates are to be centered on the platform opening. See door and gate details for construction openings.

Note: Overall dimensions and running clearances conform to ASME-A18.1. Dimensions are to finished walls.

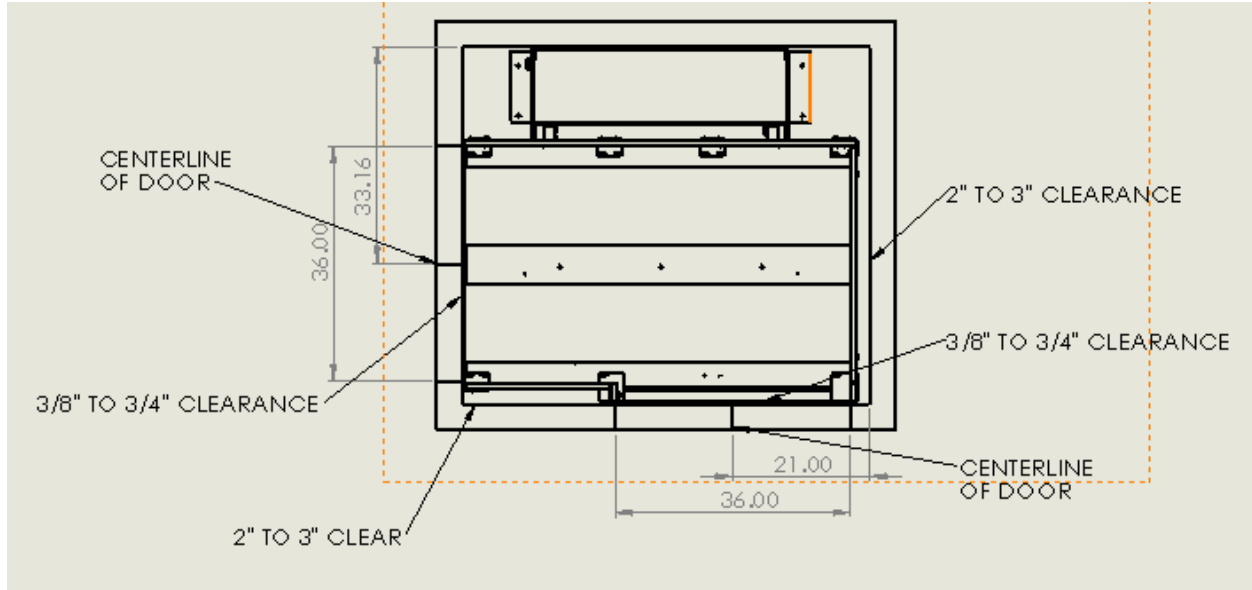


Left hand configuration shown, right hand opposite.

PLATFORM SIZE	HOISTWAY DIMENSIONS	
	WIDTH	DEPTH
36" X 48"	53 3/4" to 54 3/4"	50 3/8" to 51 3/4"
36" X 60"	53 3/4" to 54 3/4"	62 3/8" to 63 3/4"

Dimensions to finished wall

90 DEG PLATFORM, LH shown RH opposite

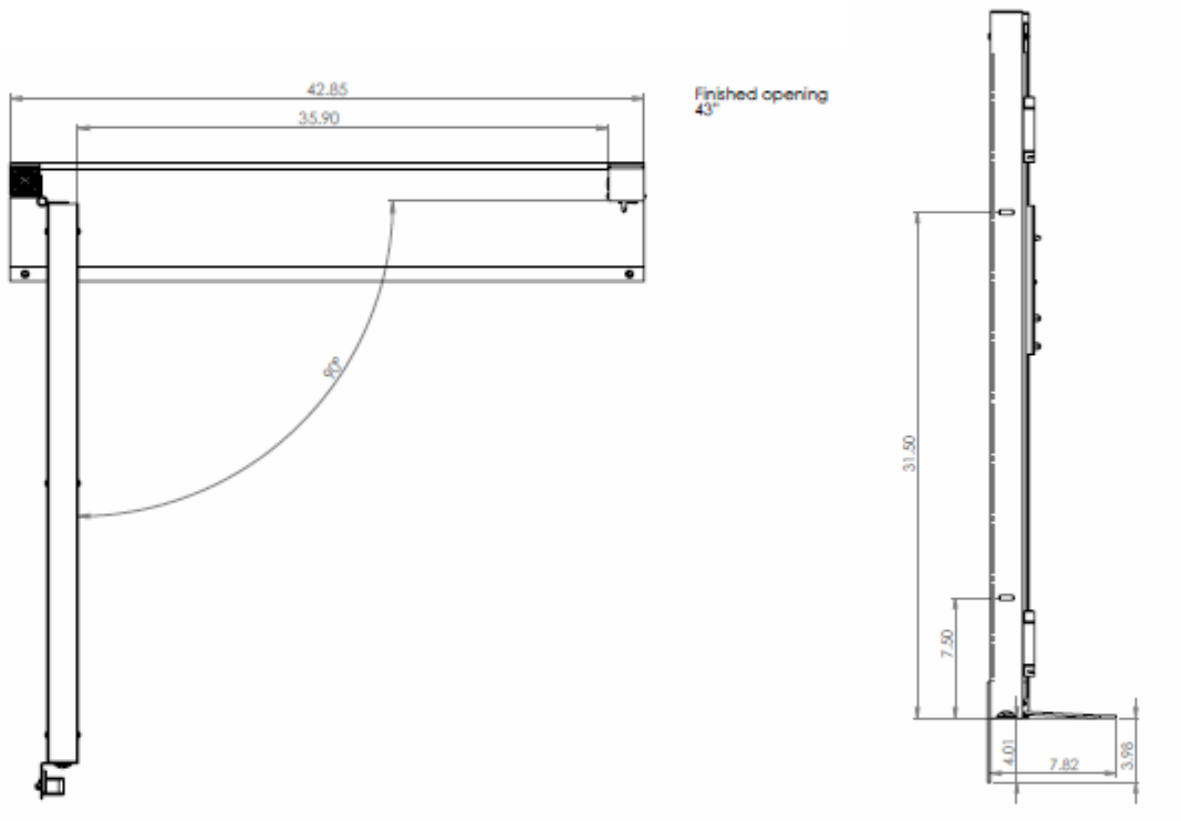


PLATFORM SIZE	HOISTWAY DIMENSIONS	
	WIDTH	DEPTH
36" X 60"	54 1/8" to 54 1/2"	62 3/8" to 63 3/4"

Top landing gate with Honeywell interlock.

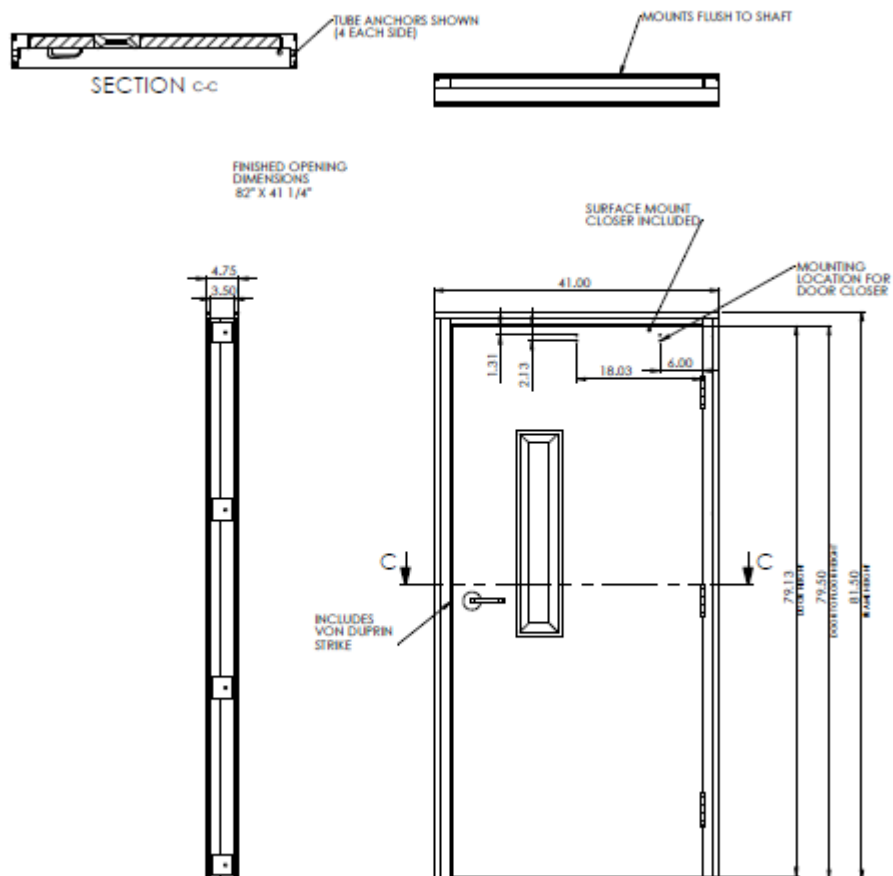
-Hostway side of gate and frame is mounted flush with the hoist way wall.

-Call/send control can be mounted in the gate frame adjacent to the door pull (optional).



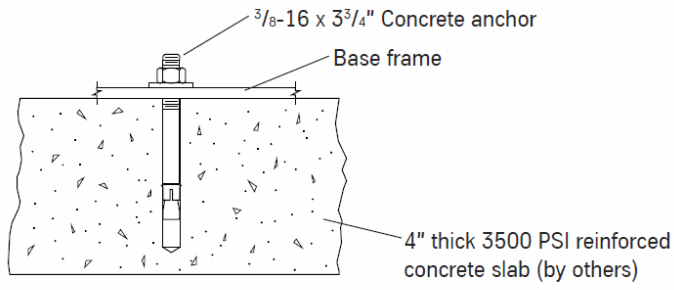
Fire door prepped for electromechanical interlock

- 1 ½ hour “B” label fire rating.
- Constructed of steel sheet metal, primed for painting at jobsite.
- Hostway side of door and frame is mounted flush with hoist way wall.
- U.L. Listed electromechanical interlock can be included with door.
- 3” wide 6’8” tall door. **(Check to see if the door dimensions meet codes in your location)**

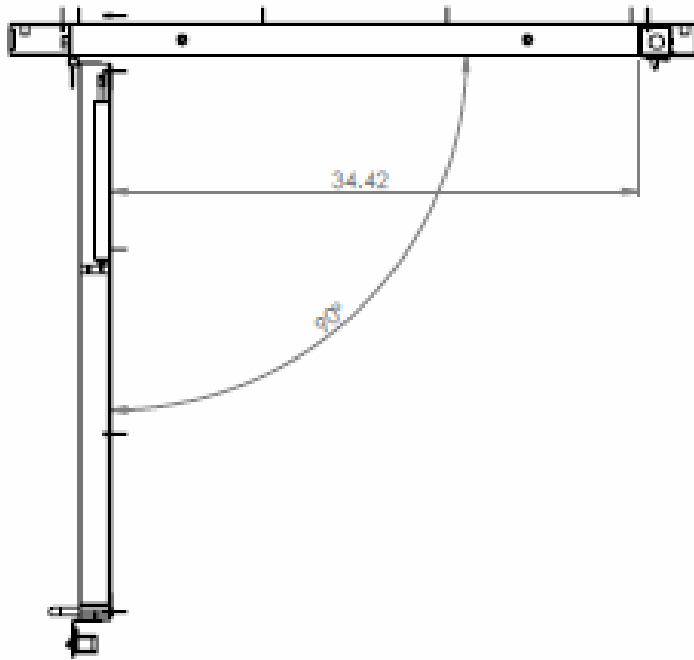


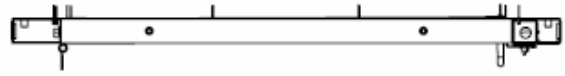
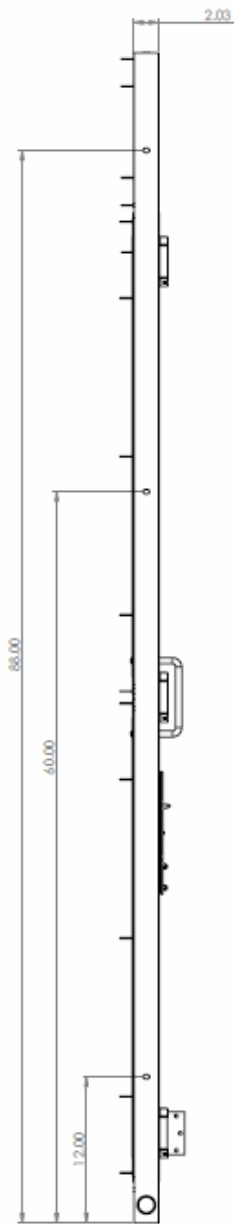
Mounting details

Floor anchor detail

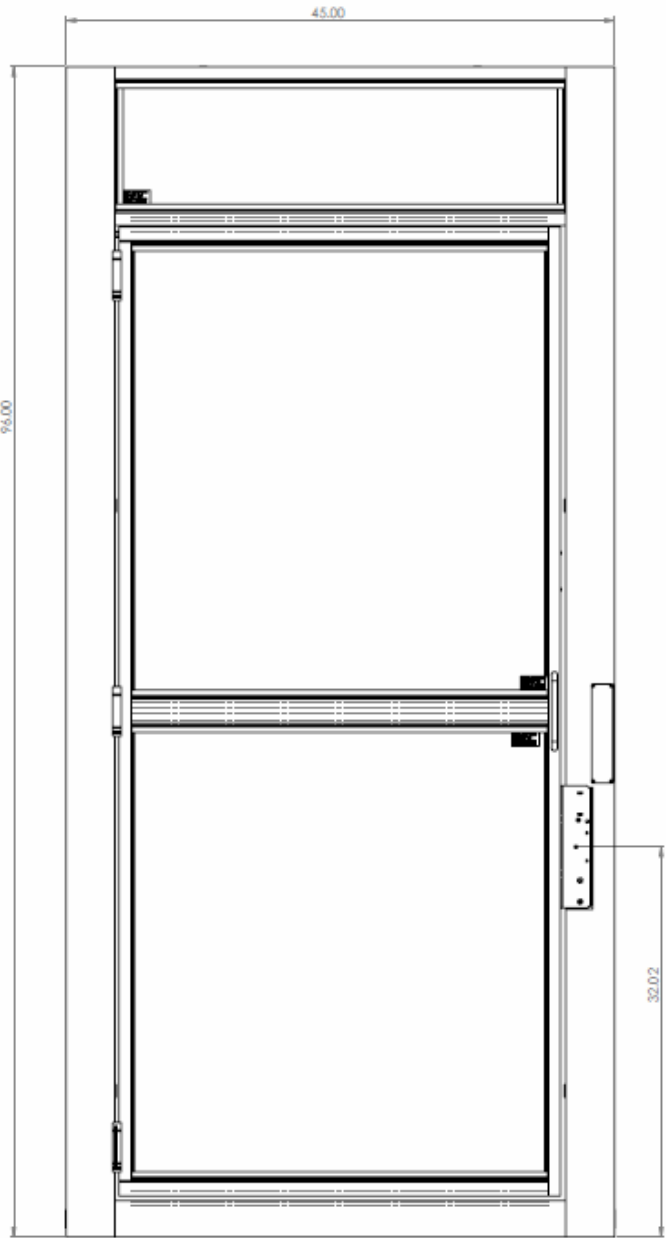


Non-Fire rated door with Honeywell interlock

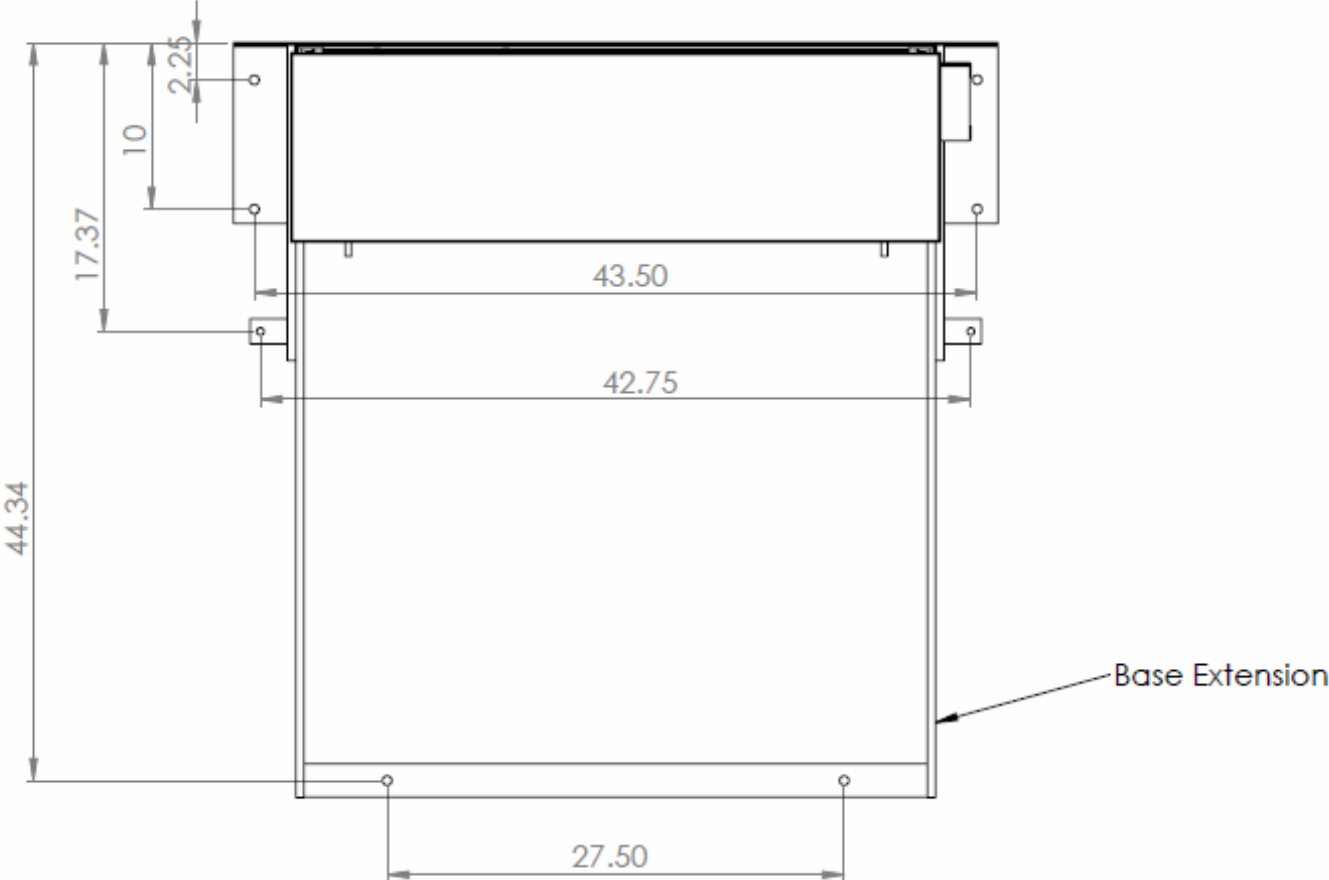




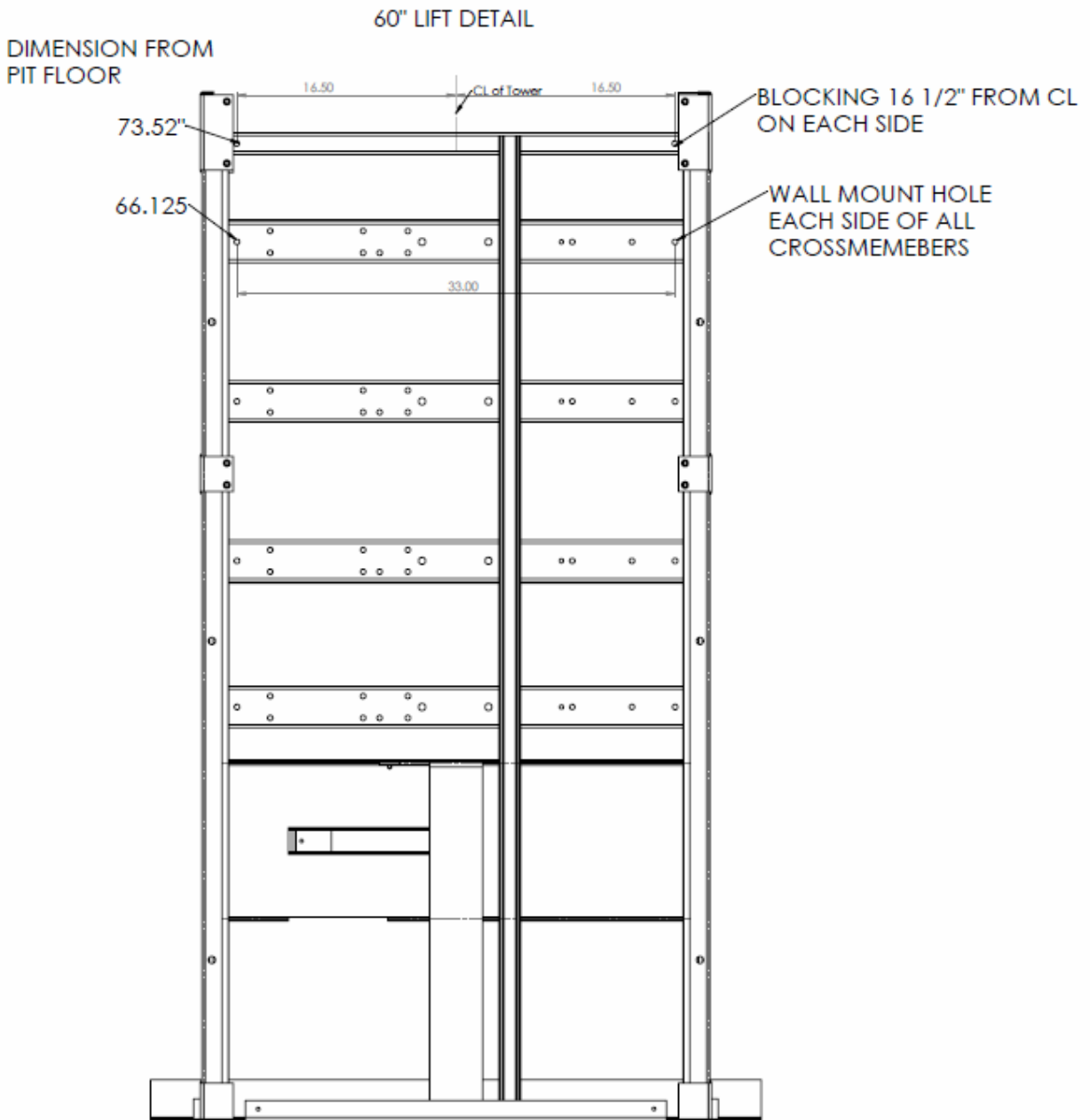
FINISHED OPENING 45.25" X 96.25"



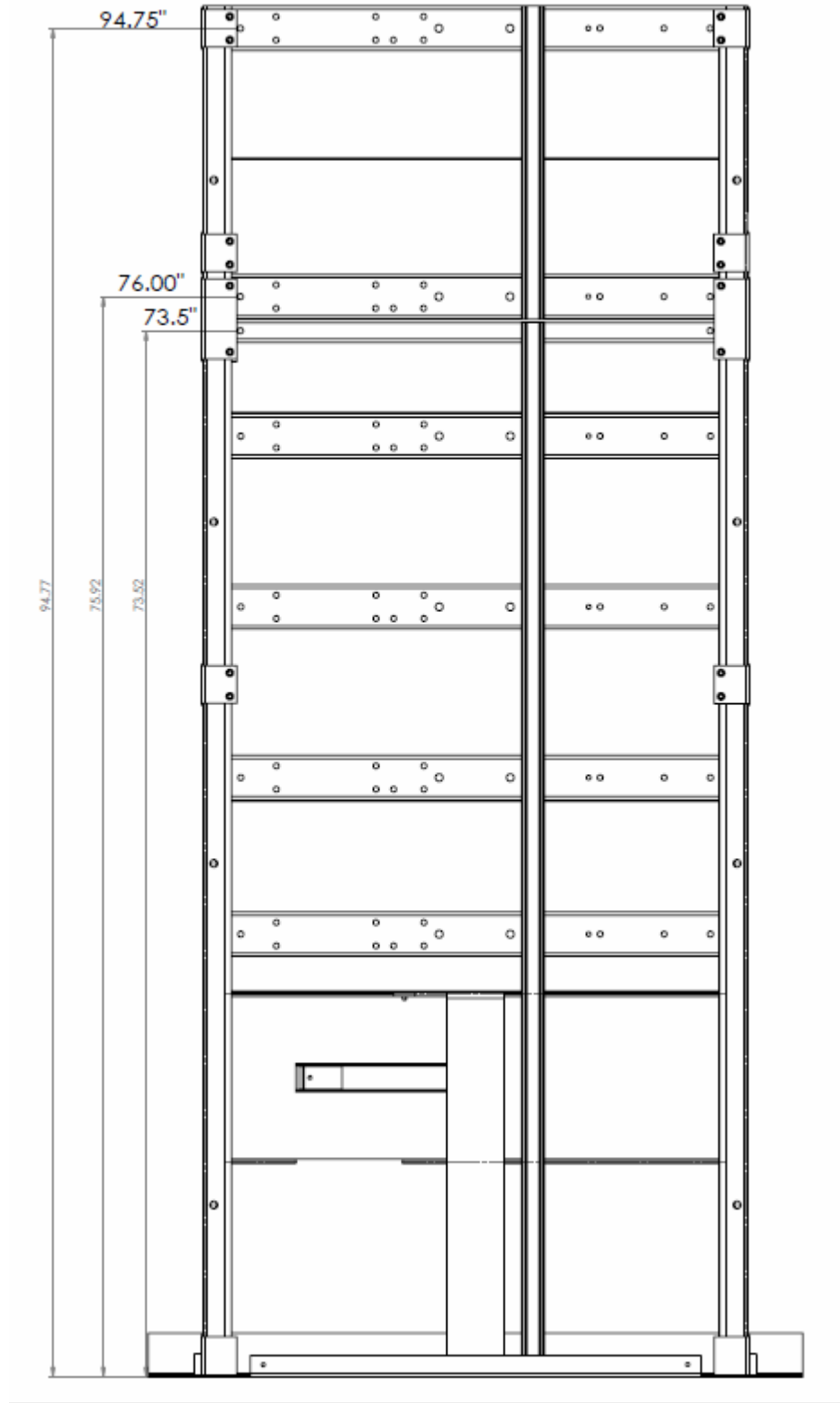
Base frame anchor location.



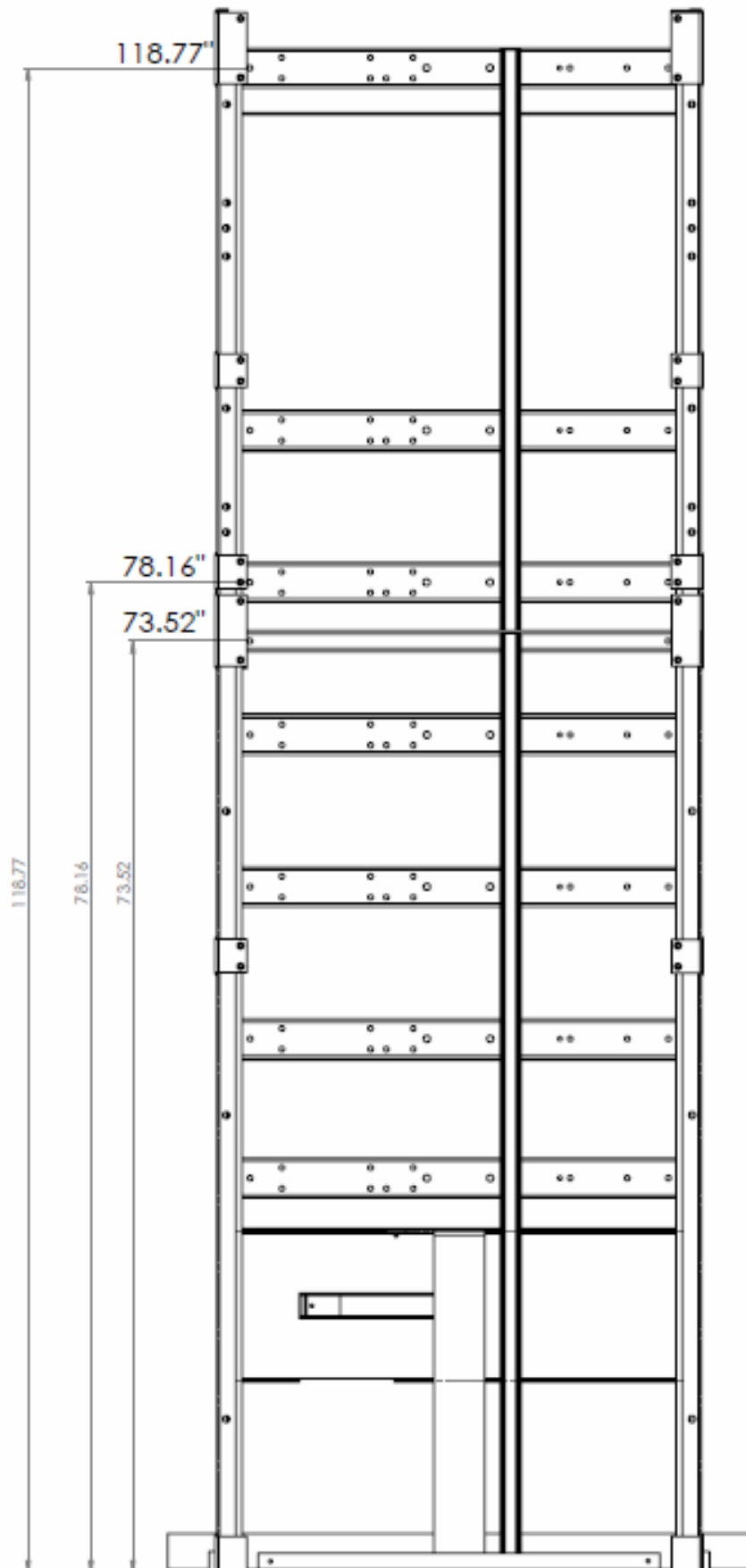
Tower anchor locations



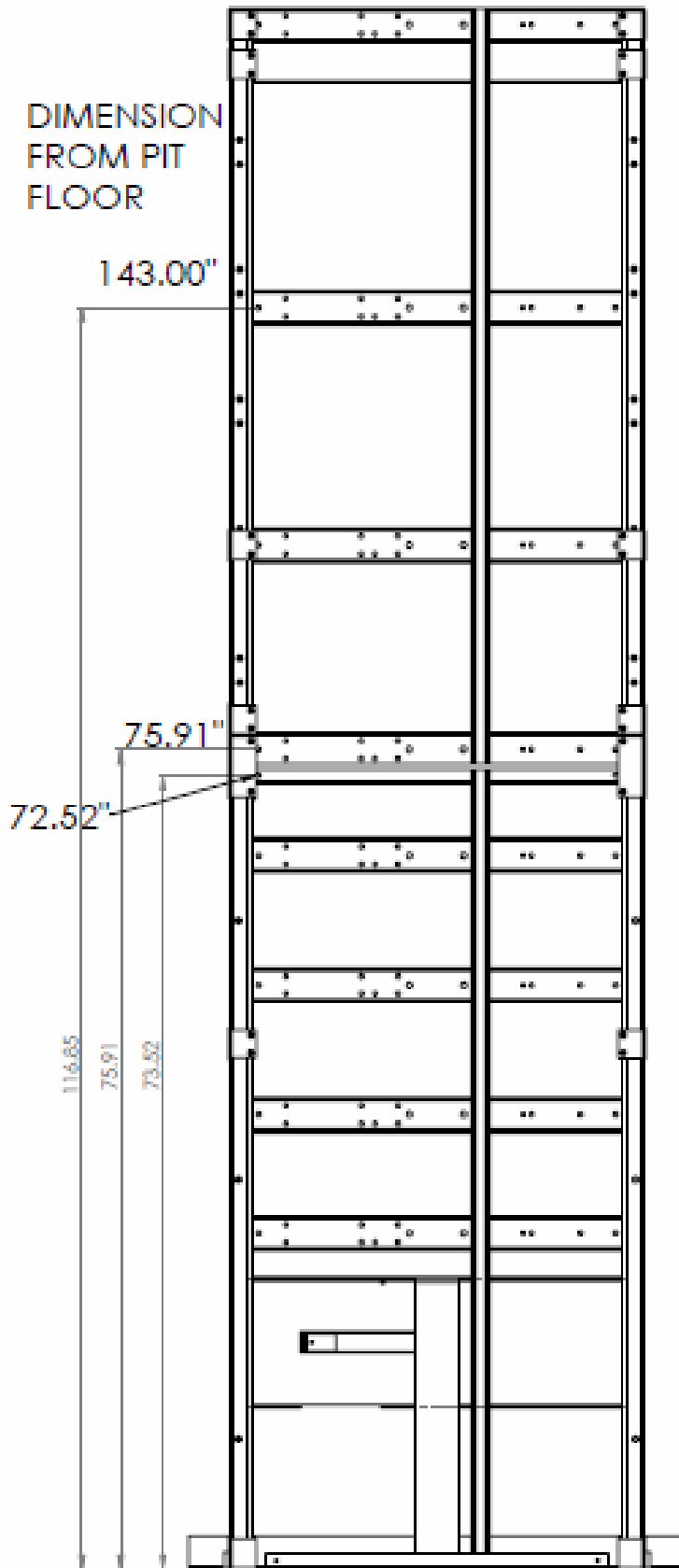
AVPL 72 MOUNT LOCATIONS



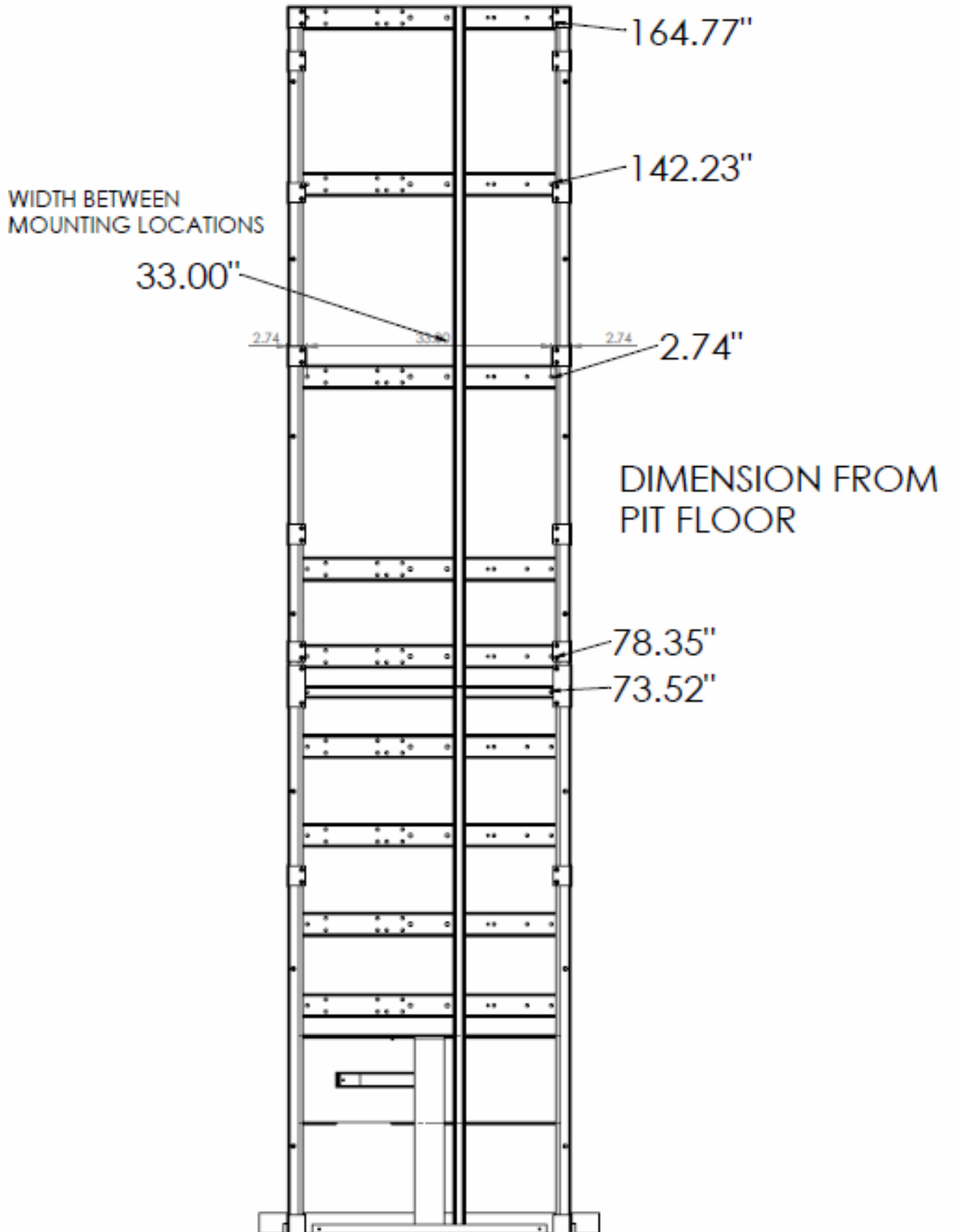
AVPL 96 MOUNT LOCATIONS



AVPL 120 MOUNT LOCATIONS

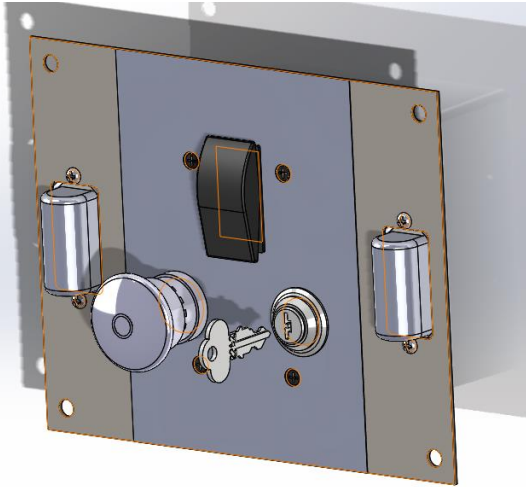


AVPL 144 MOUNT LOCATIONS



Features

Platform controls



Used to control the platform while riding on the platform.

- Constant pressure up/down rocker switch.
- Emergency stop/alarm button. Illuminated and alarm sounds when pushed.

Call/send controls

-Shown with optional Emergency Stop Switch and Surface Mount Box



Used to control the platform from a landing.

- Constant pressure up and down paddle switch.
- Can be provided with or without an emergency stop switch and signalling device. Signalling device is an alarm that sounds when the emergency stop is activated.
- Key switch with key removable in "off" position only.
- Shipped with a water tight black plastic box that can be surface mounted to a wall or can be flush mounted by recessing an electrical double gang box into the wall.
- Conduit and wires between control and the lift are to be provided by others.
- The call/send control can also be integrated into gates or doors.

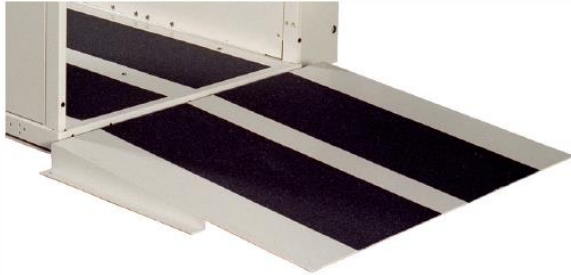
Remote emergency lowering switch.



Used to lower the platform in the event of an emergency.

- To be located at the lower landing within sight of the platform.
- Constant pressure key switch; turn key to lower platform.
- Shipped with a watertight metal box that can be surface mounted to a wall or can be flush mounted by recessing an electrical gang box into the wall.
- All safety devices are disabled during operation of switch.
- Conduit and wires between control and the lift are to be provided by others.
- This is in addition to the standard manual emergency lowering relief valve.

Fixed access ramp

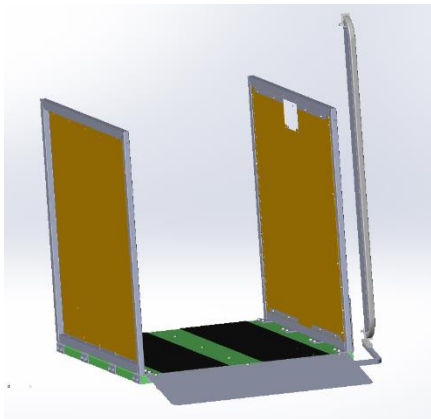


Used when the lift is mounted to the lower landing floor (vs. mounting inside a pit.)

- 1:12 slope.
- 43" wide x 31¹/₂" deep.
- Non-skid surface.

Note: Lower landing door must be blocked up 3" to accommodate the fixed access ramp.

Auto access ramp



Used when the lift is mounted to the Lower landing floor (vs. mounted inside a pit).

36" wide x 15" long.

AutoOpener™ (optional)



Automatically opens gate or door when platform stops at the landing.

- Mounts to wall near top of gate/door on the hinge side. Backing is required by contractor.
- Automatically reverses when an obstruction is encountered.
- If platform is already at the landing, gate/door can be opened by pressing call/send switch.
- Requires 115 VAC outlet near the top of the gate/door on the hinge side at each landing.

Battery disconnect

Used to disable lift without disconnecting the batteries.

- Located inside the machine tower.

Telephone jack (optional)

Used to provide telephone service for the user in event of an emergency.

- Located near the platform controls.
- Telephone or ADA compliant equipment optional.

Optional lighting

For low light situations, code may require additional external lighting. Optional platform lighting is available.

- Light only
- Light with phone jack
- Light with ADA compliant phone

Optional colors

The standard color for all equipment is grey white.

Consult your sales representative for a quote on other

colors

SUMMARY

PART 1 GENERAL

1.1 SUMMARY

- A. A vertical platform (wheelchair) lifting device, manufactured by American Access Industries and Services is designed to provide access to or within a building for mobility impaired persons. The lift consists of a machine tower and lifting platform selected and dimensioned to provide adequate lifting height to suit building access requirements indoors and out.

1.2 REFERENCES

- A. The lift shall be designed, manufactured and installed in accordance with the following standards:
 - a. American National Standards Institute (ANSI).
 - b. American Society of Mechanical Engineers (ASME).
 - c. ADA Accessibility Guidelines (ADAAG).
 - d. Underwriters Laboratories (UL).
 - e. Intertek Testing (ETL).
 - f. International Building Code (IBC).
 - g. National Electrical Code (NEC).
 - h. American Society for Testing Materials (ASTM).
 - i. American Welding Society (AWS).

1.3 SYSTEM DESCRIPTION

- A. Drive:
 - a. Battery powered 1:2 chain hydraulic drive; 3/4hp 24VDC pump motor with two 12 V 33 AH, sealed no maintenance batteries with 24 V 4 amp "smart charge" battery charger.
- B. Number of Stops: (specify:) 2 stops or 3 stops.
- C. Platform Configuration: (specify:) straight-thru or enter/exit same side.
- D. Maximum Travel: (specify:) 63", 75", 99", 123", or 147".
- E. Rated Load: 750 lbs. with minimum safety factor of 5X.
- F. Rated Speed: 18-21 fpm with rated load.
- G. Platform Size: (specify:) 36" x 48" or 36" x 60" with 42" high guard panels.
- H. Main Power Supply Wiring: Electrical contractor shall provide 120vac single phase 15 amp. 60 Hz power circuit.
- I. Operating Features:
 - a. Platform Controls: Directional rocker switch, on/off key switch, emergency stop switch with alarm and illumination.
 - b. Landing Controls: Directional rocker switch and on/off key switch (specify options) emergency stop with alarm mounted inside gate/door frame.
 - c. Constant pressure operation.
 - d. Grounded electrical system with upper final limit switches and 24 v operating controls

- e. Platform under panel equipped with obstruction sensors.
- f. Ramp if lift is no installed in a pit.
- g. Non-slip surface on platform and ramp.
- h. Grab rail on platform.
- i. Manual lowering device.
- j. Remote emergency lowering switch. (optional).
- k. Broken chain safety device and flow control valve.
- l. Pit switch (where required by code).
- m. Telephone jack on platform (optional).
- n. Upper landing gate/Door: (specify:):
 - i. 42" high, self-closing gate with mechanical interlock and (specify:) steel sheet metal or acrylic insert panels.
 - ii. 6'-8" self-closing, flush mount, 1 ½ hour rated fire door with electromechanical interlock.
- o. Lower/Middle Landing Door: (specify:):
 - i. 6'8" self-closing, flush mount, 1-1/2 hour fire rated door with electromechanical interlock.
- p. Automatic Gate/Door opener (optional)

1.04 WARRANTY

A. manufacturer shall warranty the AVPL lift's drive system for a period of 4 years. The drive system consists of the pump, hydraulic cylinder, chains, and sprockets. All other components will be covered for 2 years. The warranty will begin on the date the unit was shipped from the factory.

1.05 MAINTENANCE

A. The AVPL lift must be maintained in accordance with the manufacturer's instructions.

B. Failure to perform the required maintenance will void the warranty. See Owner's Manual for maintenance requirements

