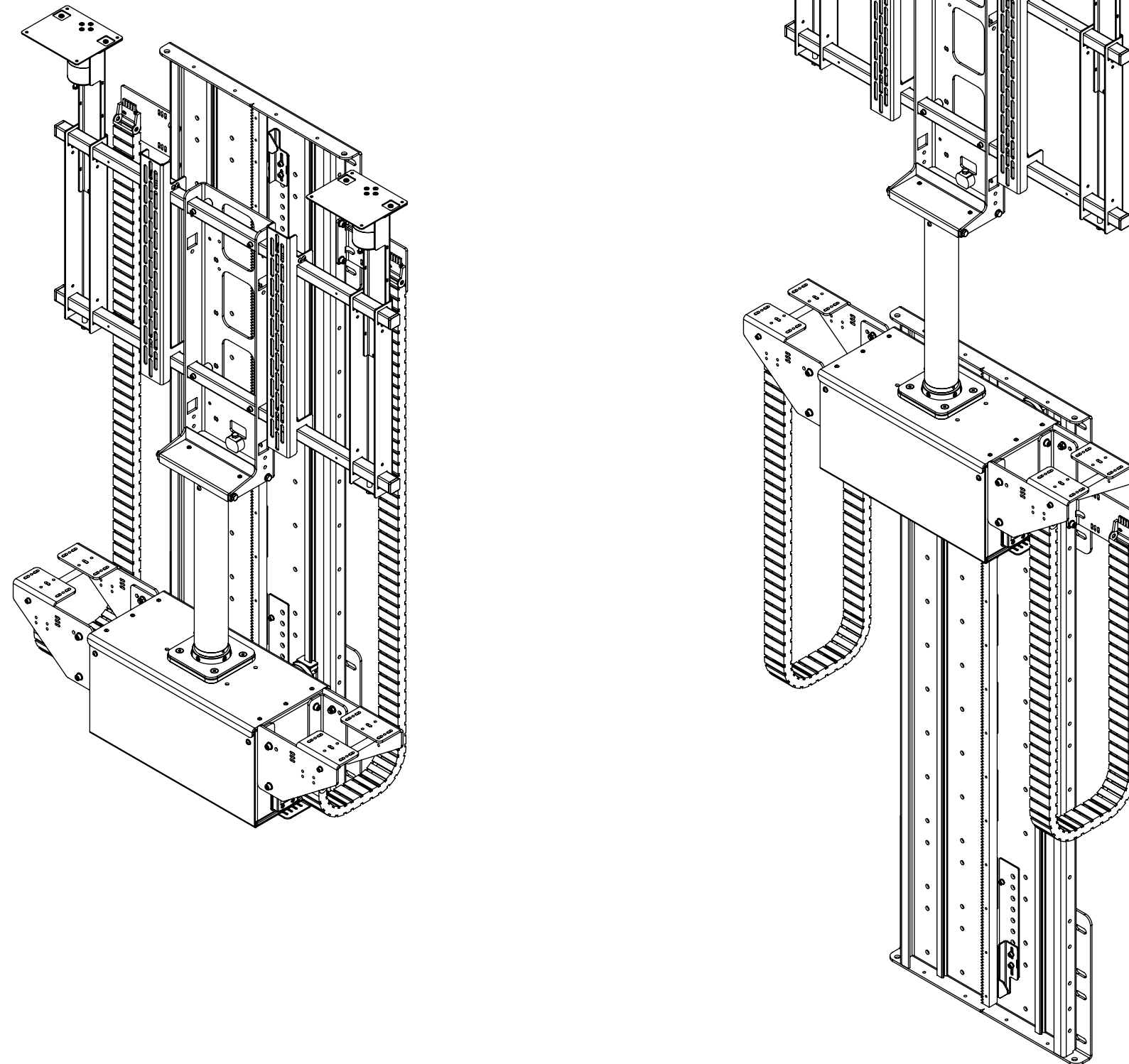


PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL



future automation



PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

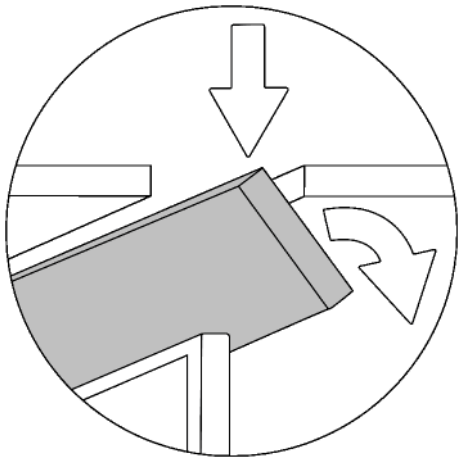
MODEL	DESCRIPTION	MIN SCREEN HEIGHT	MAX SCREEN HEIGHT
PLF-S-5	Vertical Floor Lift with Swivel for 55" Screens	680 [26 3/4"]	800 [31 1/2"]
PLF-S-6	Vertical Floor Lift with Swivel for 65" Screens	800 [31 1/2"]	920 [36 1/4"]
PLF-S-7	Vertical Floor Lift with Swivel for 75" Screens	920 [36 1/4"]	1040 [40 15/16"]
PLF-S-8	Vertical Floor Lift with Swivel for 85" Screens	1040 [40 15/16"]	1160 [45 11/16"]
PLF-S-9	Vertical Floor Lift with Swivel for 98" Screens	1160 [45 11/16"]	1280 [50 3/8"]
PLF-S-10	Vertical Floor Lift with Swivel for 105" Screens	1280 [50 3/8"]	1400 [55 1/8"]

ADDITIONAL MOTOR OPTIONS:

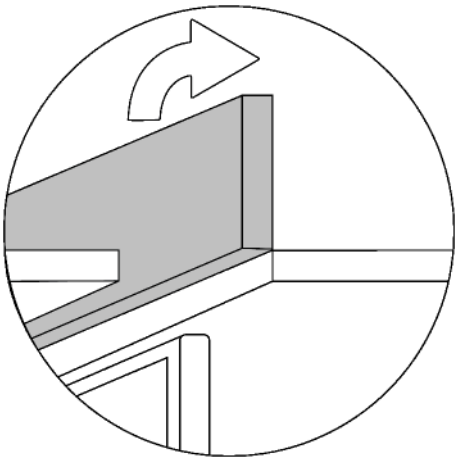


Z - SERVO MOTOR
Higher lifting capacity & faster operation.
(Not applicable to swivel)
See PLFZ-S Tech

ADDITIONAL FLAP OPTIONS:

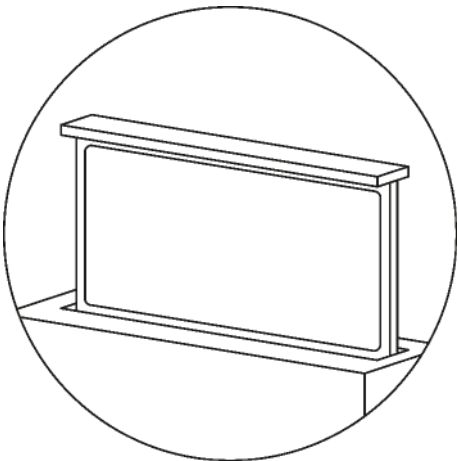


DRL - DROP & ROLL
See PLF-DRL Tech

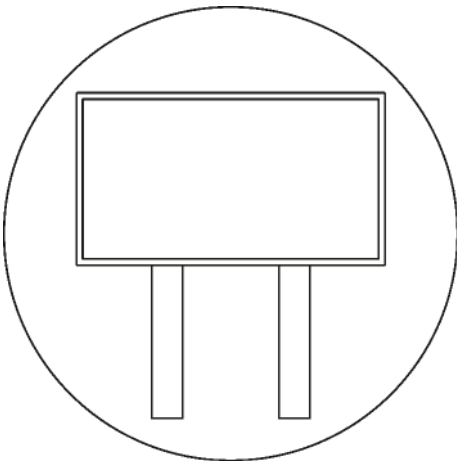


HF - HINGING FLAP
See PLF-HF Tech

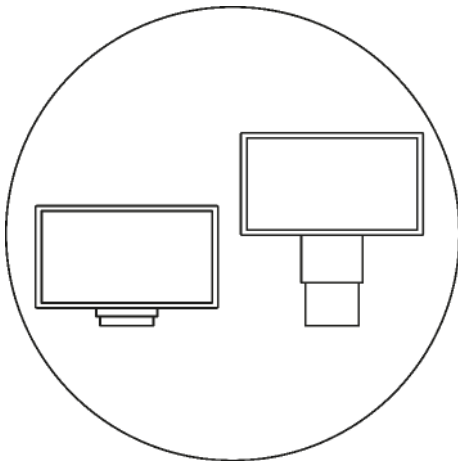
ADDITIONAL MOVEMENT OPTIONS:



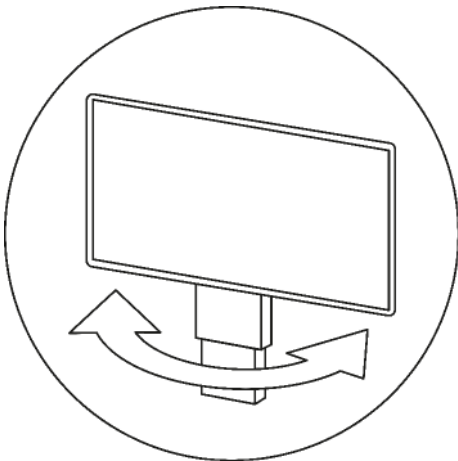
STANDARD
See LSH Tech



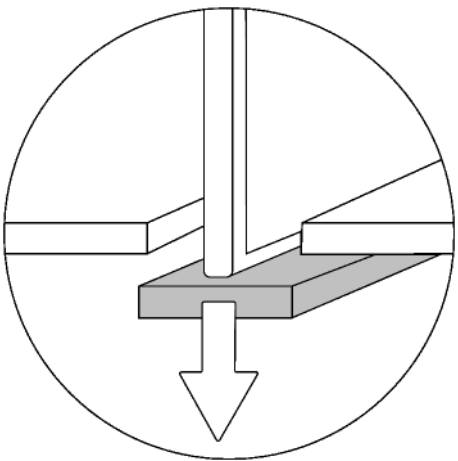
STANDARD
See PLF Tech



TU - TELESCOPE
See PLF-TU Tech



S-TU - SWIVEL & TELESCOPE
See PLF-S-TU Tech



I - INVERTED
See I-LSH Tech

PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

SPECIFICATION	MEASUREMENTS
Maximum Screen Height	920mm [36 1/4"]
Minimum Screen Height	800mm [31 1/2"]
Maximum Lifting Capacity	100Kg [220lbs] (Higher lifting capacity option available, see PLFZ-S-6)
Internal Pit Height	1770mm [69 11/16"]
Packaging Dimensions	TBC
Shipping Weight	TBC
Movement Type	Motorised
Speed	TBC
Power Supply Required	110V - 240V AC
Power Consumption	250 - 500W
Power Consumption Standby	3W
Mounting Patterns Supported	VESA 600, 400, 300 W x 600, 400, 300 H
Vertical Mounting Patterns Positioning	Mount holes in the bottom 115mm [4 1/2"] of the screen require a VOA Adaptor
Control Options	IR Remote, RS232, Contact Closure, RF Available
Colour Options	Custom RAL paint finishes
Package Contents	Mechanism, IR remote control
Marine Suitable	Yes
Outdoor Suitable	No (Marine outdoor option available, see PLF-S-6-MO)

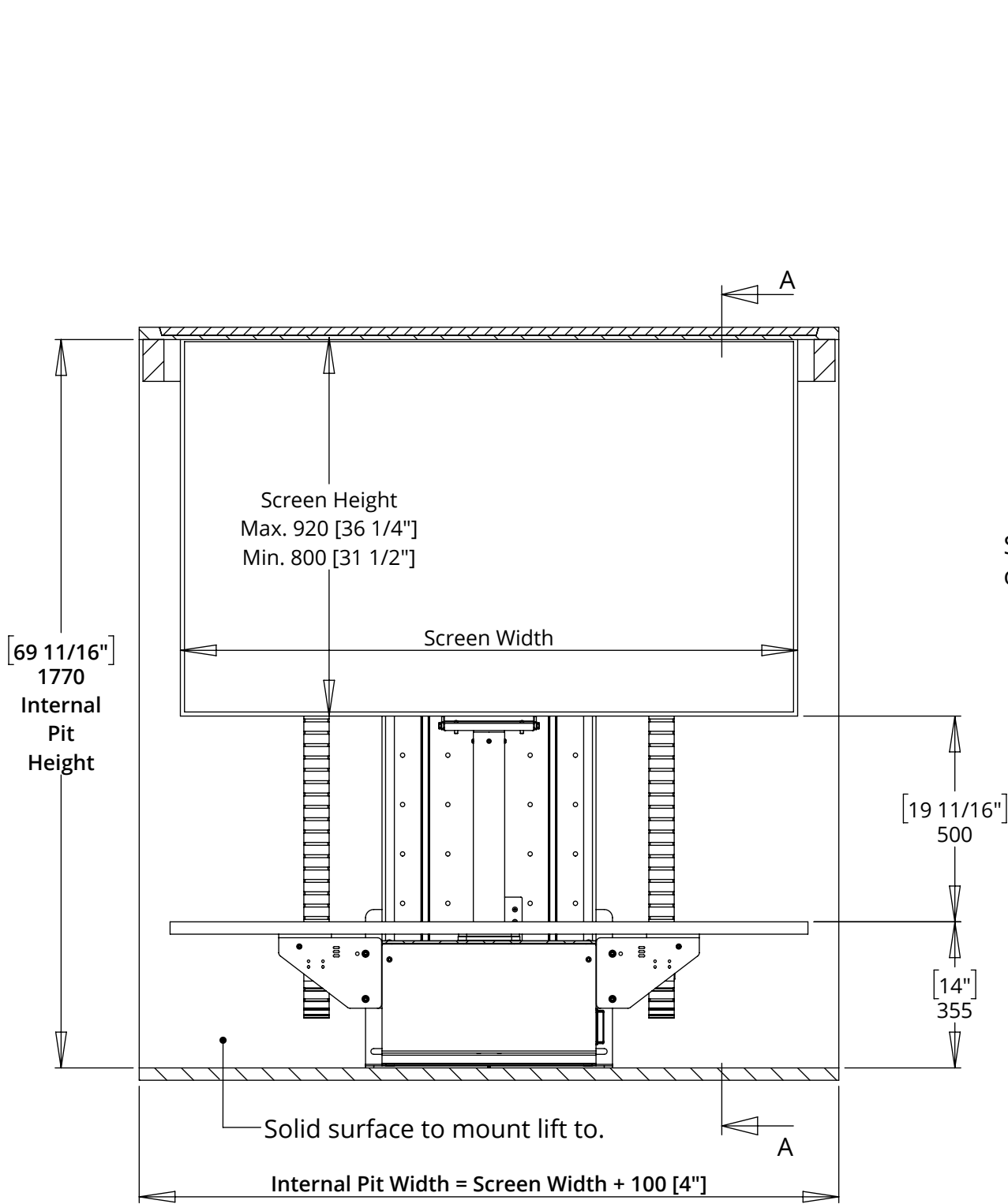
PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

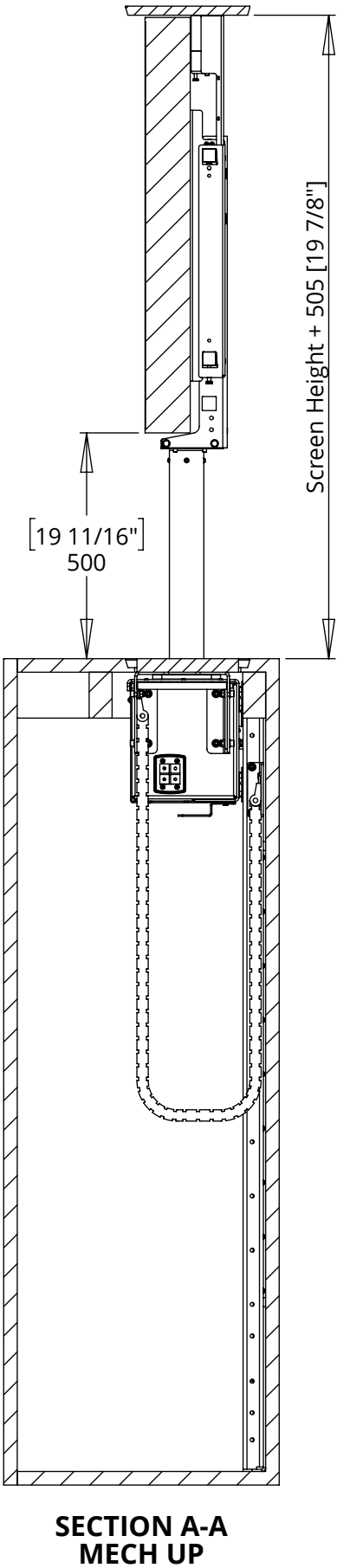
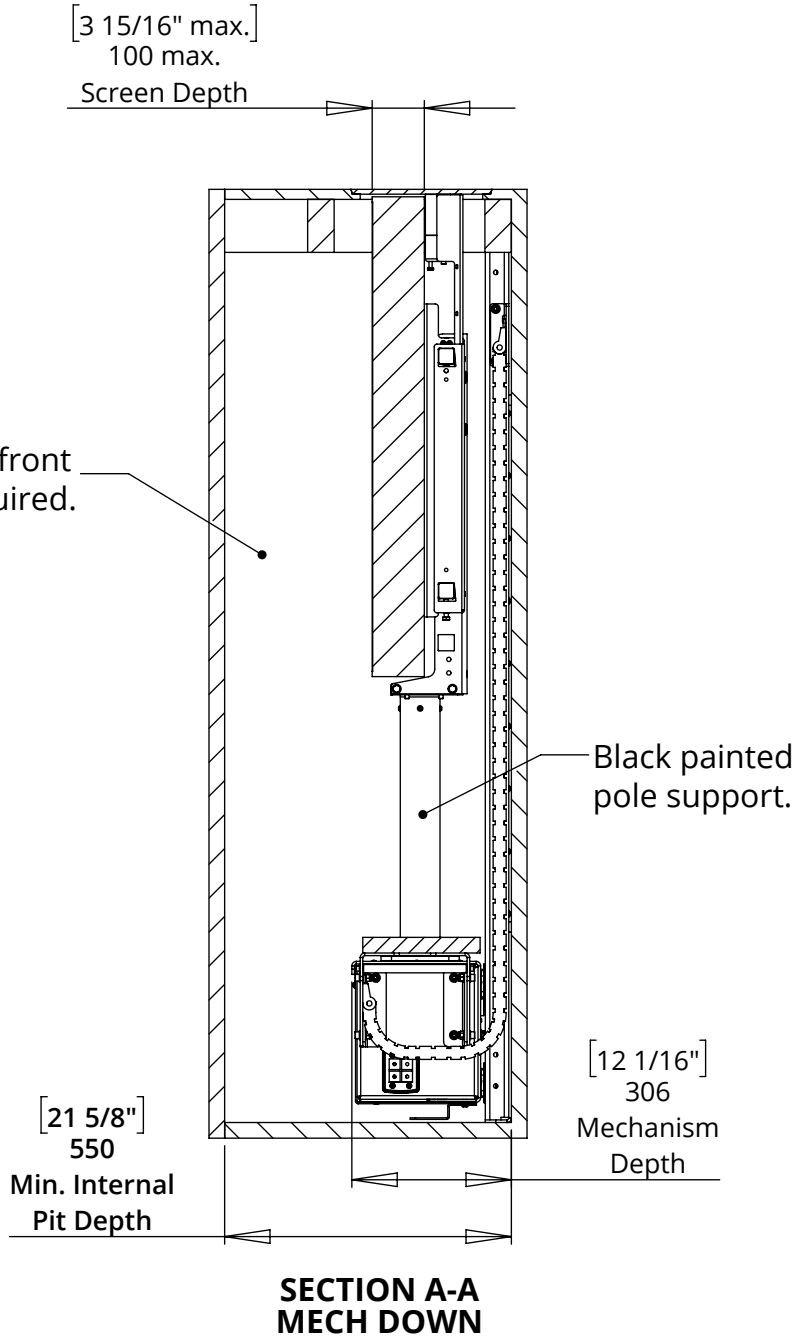


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GENERAL DIMENSIONS



Note:
For screen depths greater than 100mm [3 15/16"], the depths of the pit, base and top panel must be increased.



PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

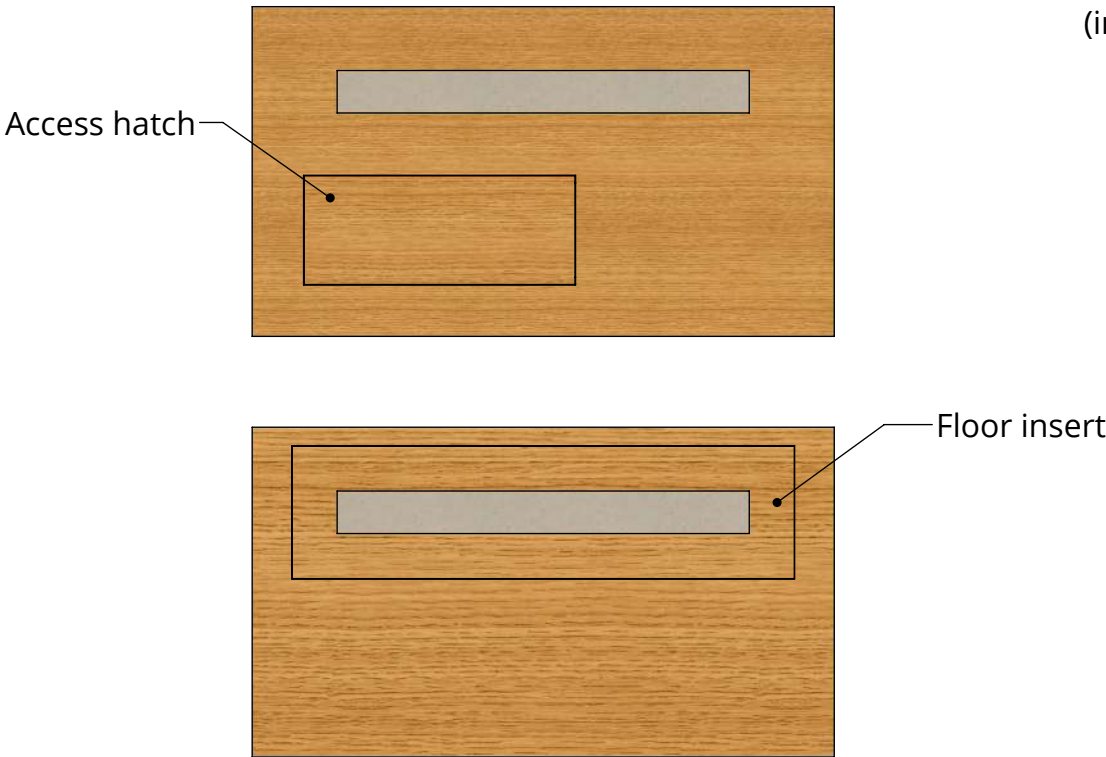
IN GROUND PIT - CONSTRUCTION DETAILS & CONSIDERATIONS

GENERAL CONSTRUCTION

Below is an example of how a subterranean pit for a lift mechanism should be constructed.

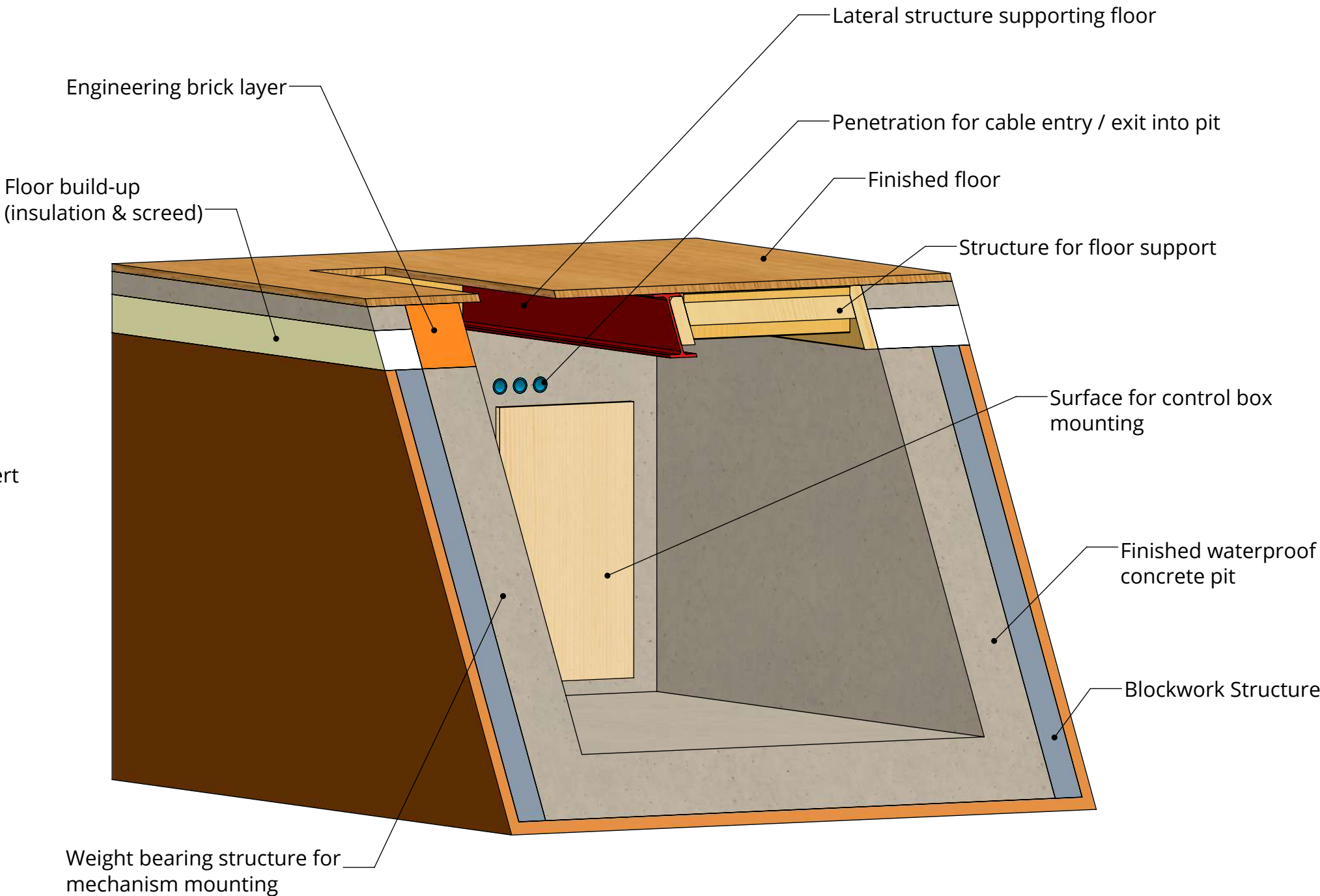
The main points that need to be considered are as follows:

- Access to Mechanism for Installation and Servicing**
The pit should have sufficient access to help with future installation and servicing. An example of an access hatch and a floor insert is shown below. The method of access will depend on the particular site scenario.



- Humidity Control**
A method of dehumidification should be implemented into the pit to reduce the build up of condensation.

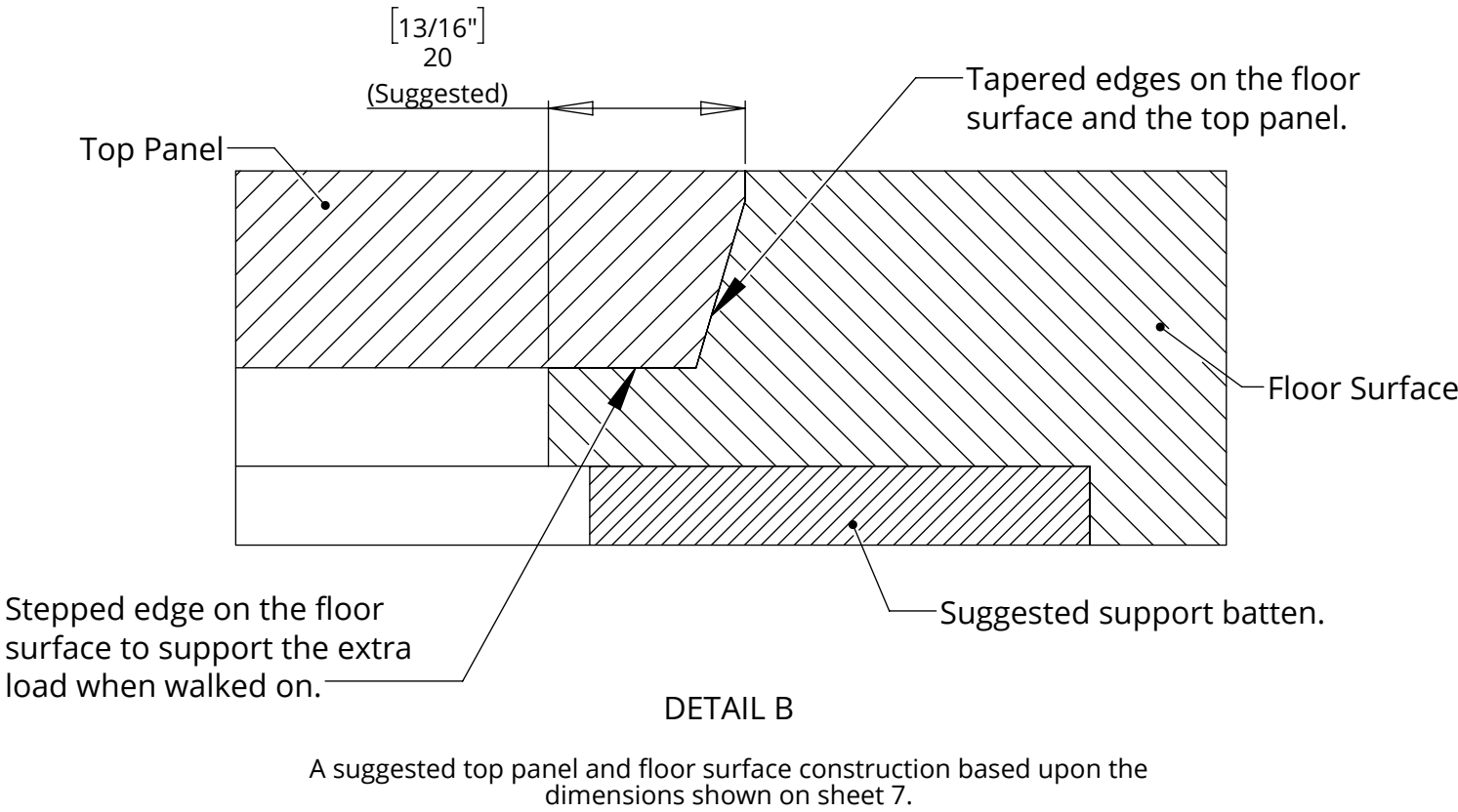
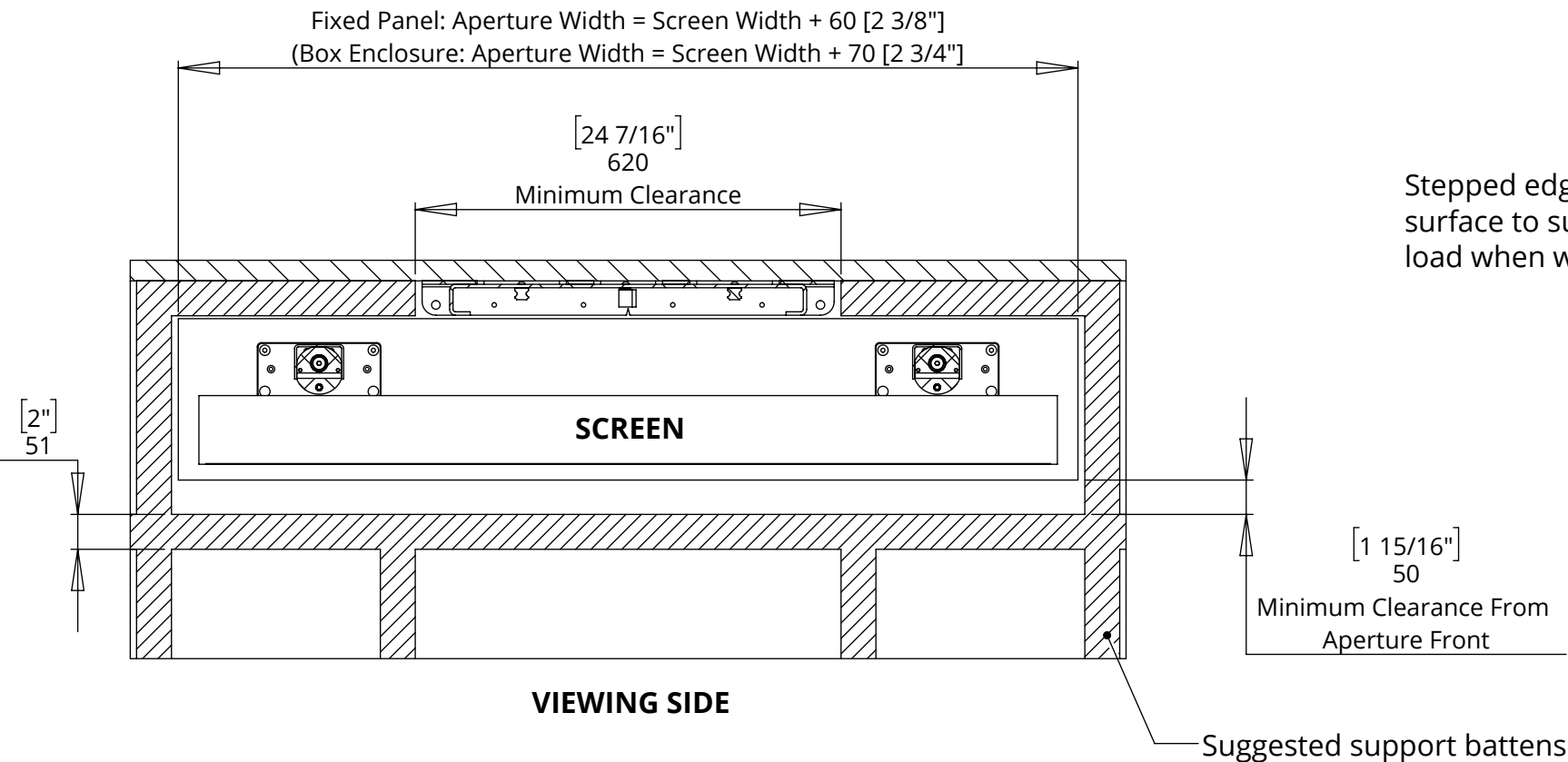
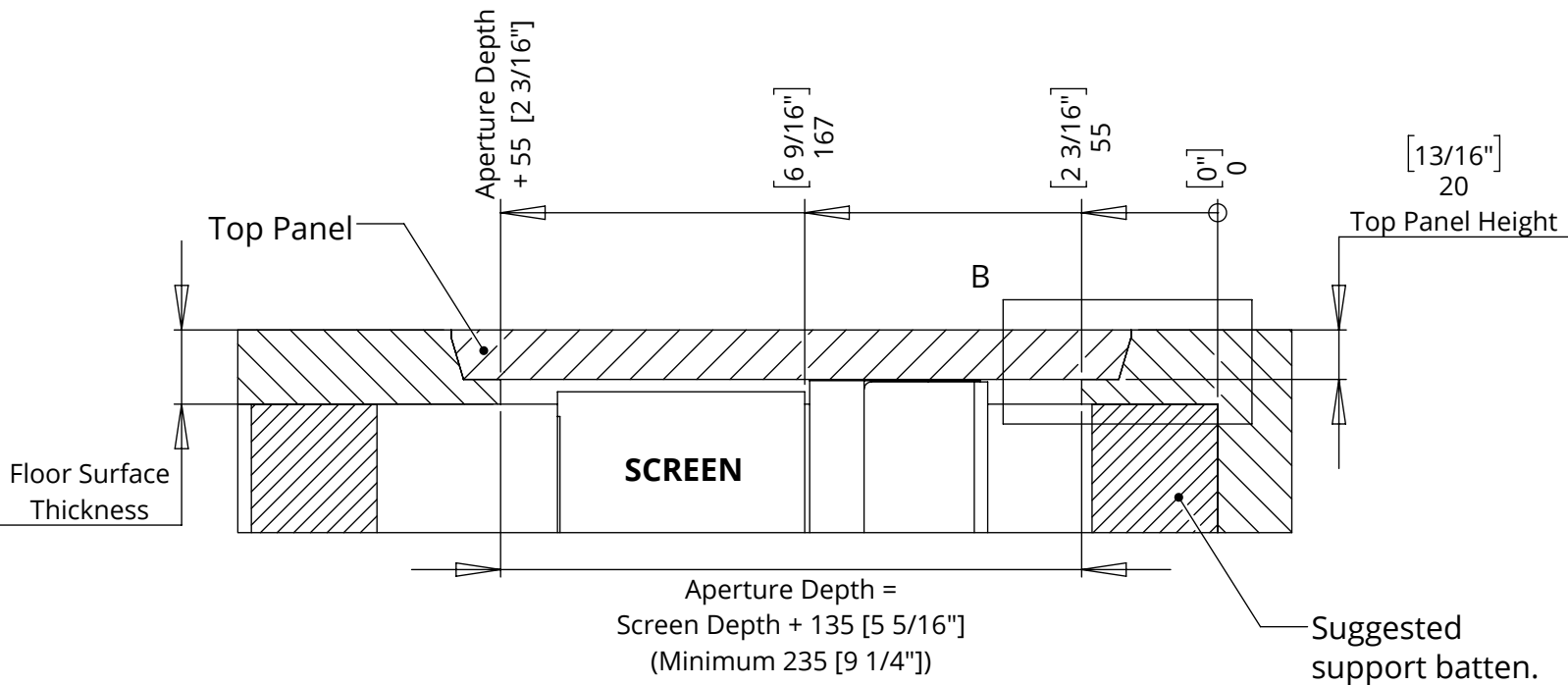
Note: Scan the QR code for further details on pit construction.



PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

APERTURE DIMENSIONS AND FLOOR DETAILS

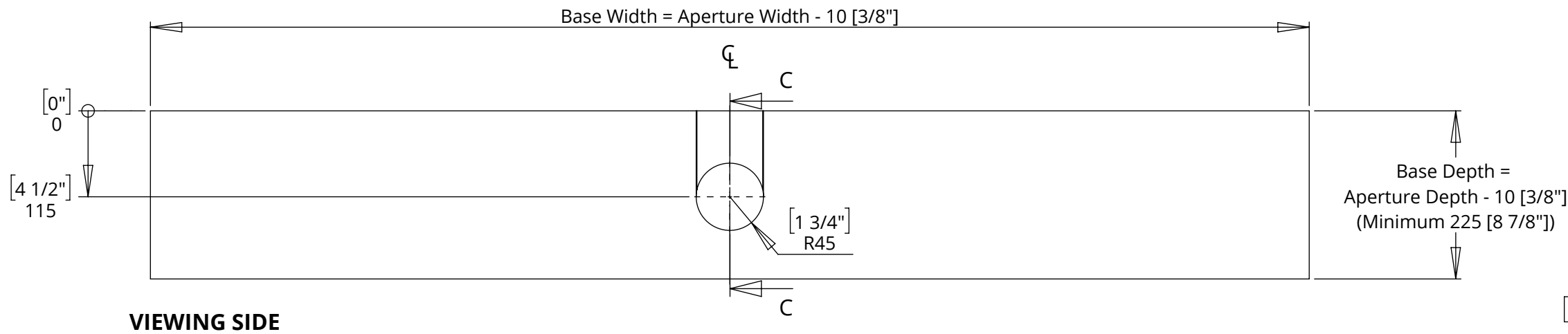


PLF-S-6

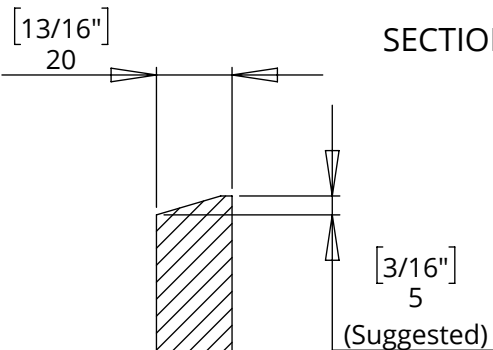
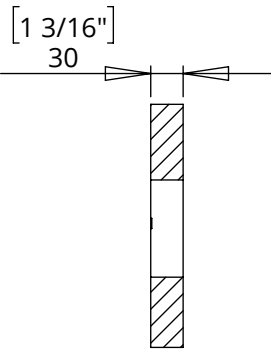
FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

FIXED PANEL - BASE PANEL AND TOP PANEL DETAILS

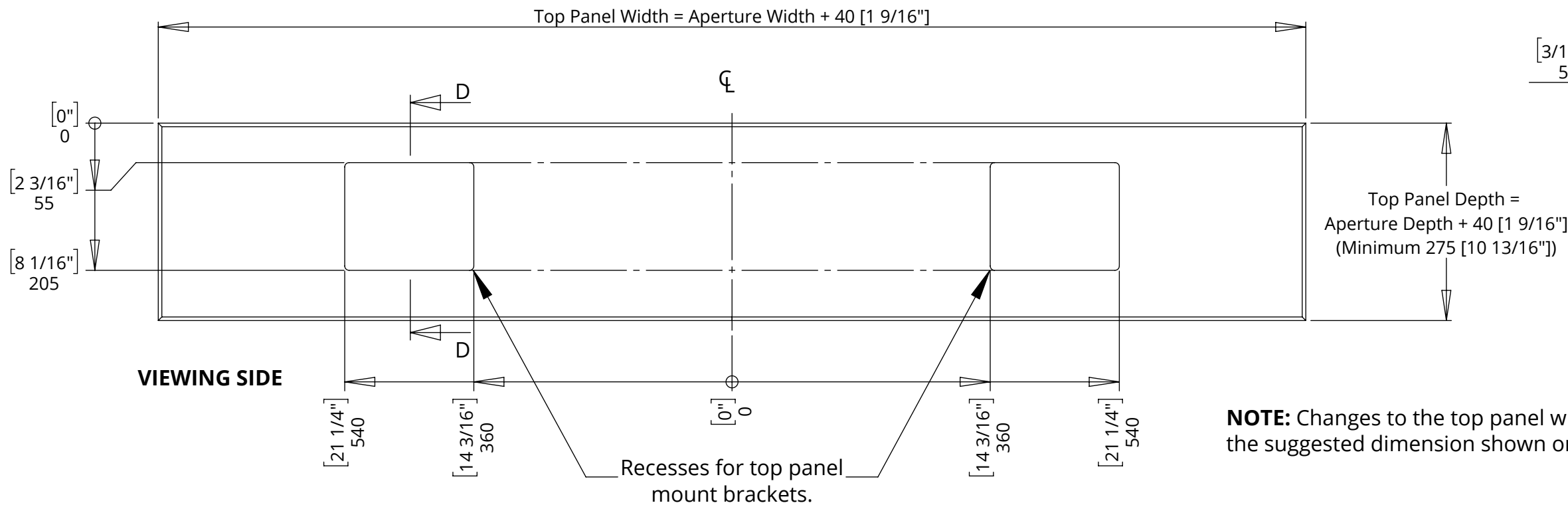
BASE PANEL



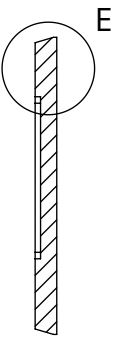
Base thickness to be equal to or larger than the floor surface thickness.



TOP PANEL



NOTE: Changes to the top panel will affect the suggested dimension shown on sheet 6.



PLF-S-6

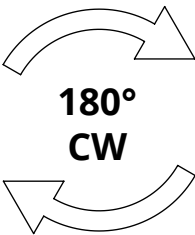
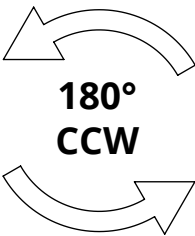
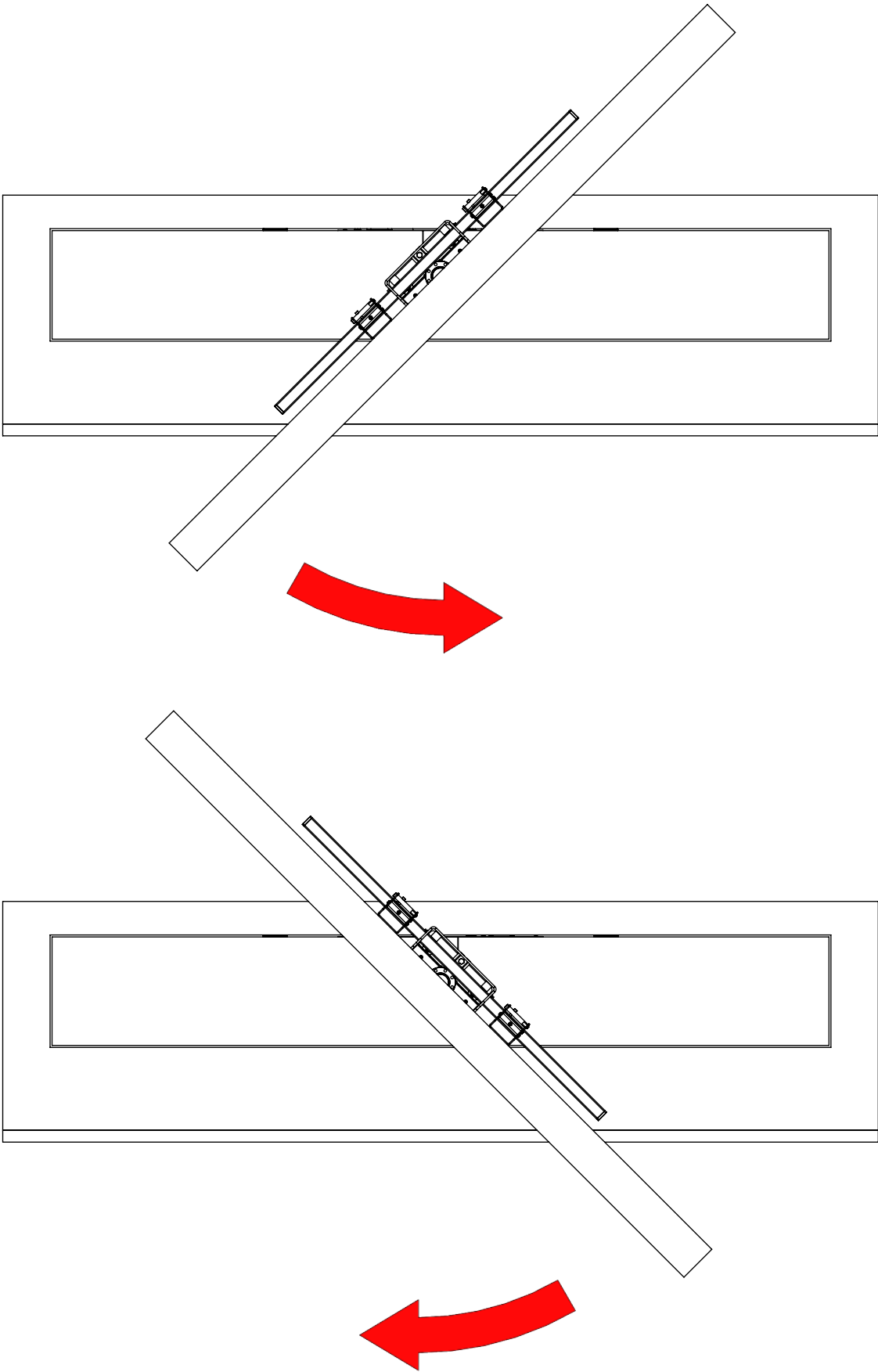
FLOOR LIFT SYSTEM HEAVY WITH SWIVEL



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SWIVEL DETAILS

The PLF-S can swivel a full 180° in both the clockwise and counterclockwise direction.



PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

FIXED PANEL - INTEGRATION CONSIDERATIONS



High Risk - Crushing Hazard

Crush hazard between the top panel and the floor surface as the lift closes.



Mitigation

The top panel is constructed to allow vertical movement in the presence of an obstruction, causing the mechanism to return to open again.



High Risk - Crushing Hazard

Crush hazard between the screen and the floor surface when the mechanism is closing.



Mitigation

See general mitigations.



High Risk - Crushing Hazard

Crush hazard between the base panel and the floor surface when the mechanism is opening.



Mitigation

A Tapeswitch can be installed underneath the base panel to detect any obstructions. Scan the QR code and navigate to the Cabinet Safety document for further details.



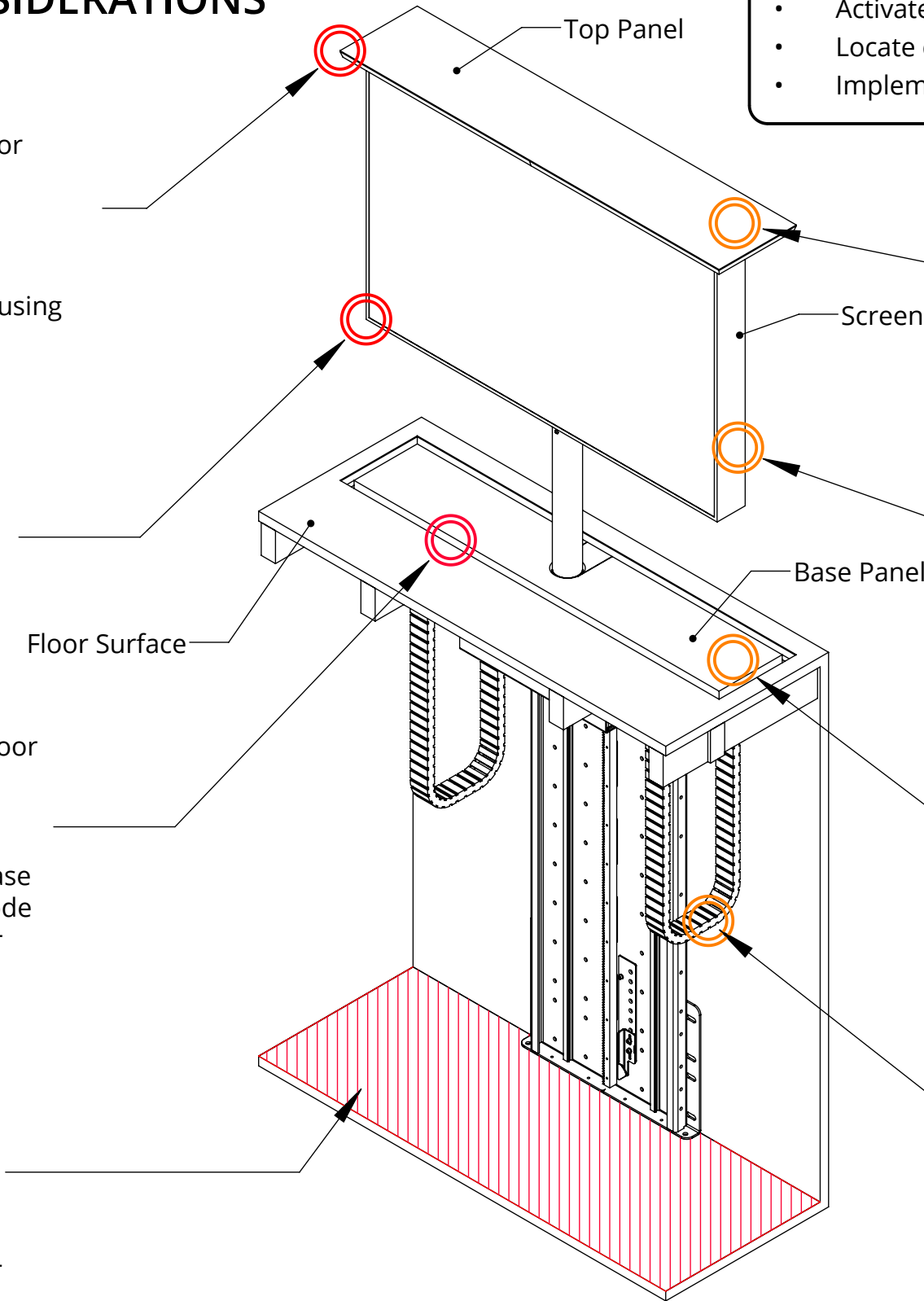
High Risk - Crushing Hazard

Crush hazard below the mechanism when the mechanism is closing.



Mitigation

Ensure the area below the mechanism is kept clear at all times during operation. If installing or maintaining the mechanism, do so with the mechanism turned off.



General Mitigations:

- Activate hold-to-run/dead-man switch operation.
- Locate controls within direct line of sight of the mechanism.
- Implement password or key switch protected operation.



Low Risk - Falling Objects Hazard

Falling object hazard if objects are left on top of the top panel.



Mitigation

See general mitigations.



Low Risk - Impact Hazard

Impact hazard around the mechanism when it is swivelling.



Mitigation

Set swivel limits to prevent impact with surrounding objects. See also general mitigations.



Low Risk - Falling Hazard

Falling hazard when the mechanism is closing or opening. Fallen items may also cause damage to the mechanism during operation.



Mitigation

See general mitigations.



Low Risk - Cable Snagging Hazard

Cables could be snagged if not properly managed through and around the mechanism, causing damage to the mechanism and electronics.



Mitigation

Ensure sufficient cable slack is allowed around movement joints to prevent stretching and/or damage to the cables and/or mechanism.

The installer is responsible for conducting a site-specific risk assessment. Due to the unique conditions of each installation, Future Automation cannot provide an exhaustive list of all potential risks. Installers must ensure that all risks associated with installation, operation, and maintenance are identified and mitigated in accordance with applicable legislation and best practice. Further safety and servicing guidance is available at: www.futureautomation.net/safety

PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

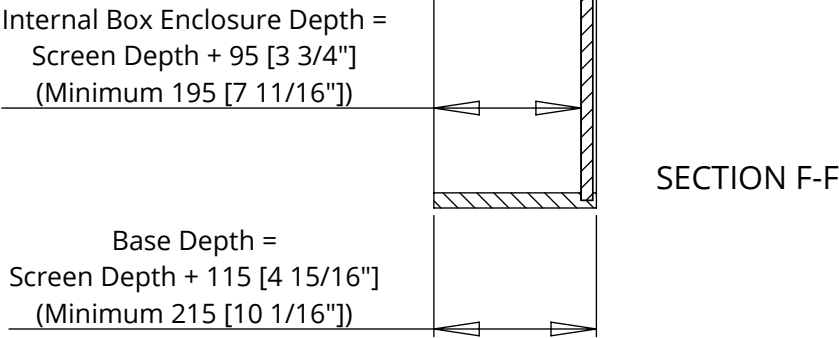
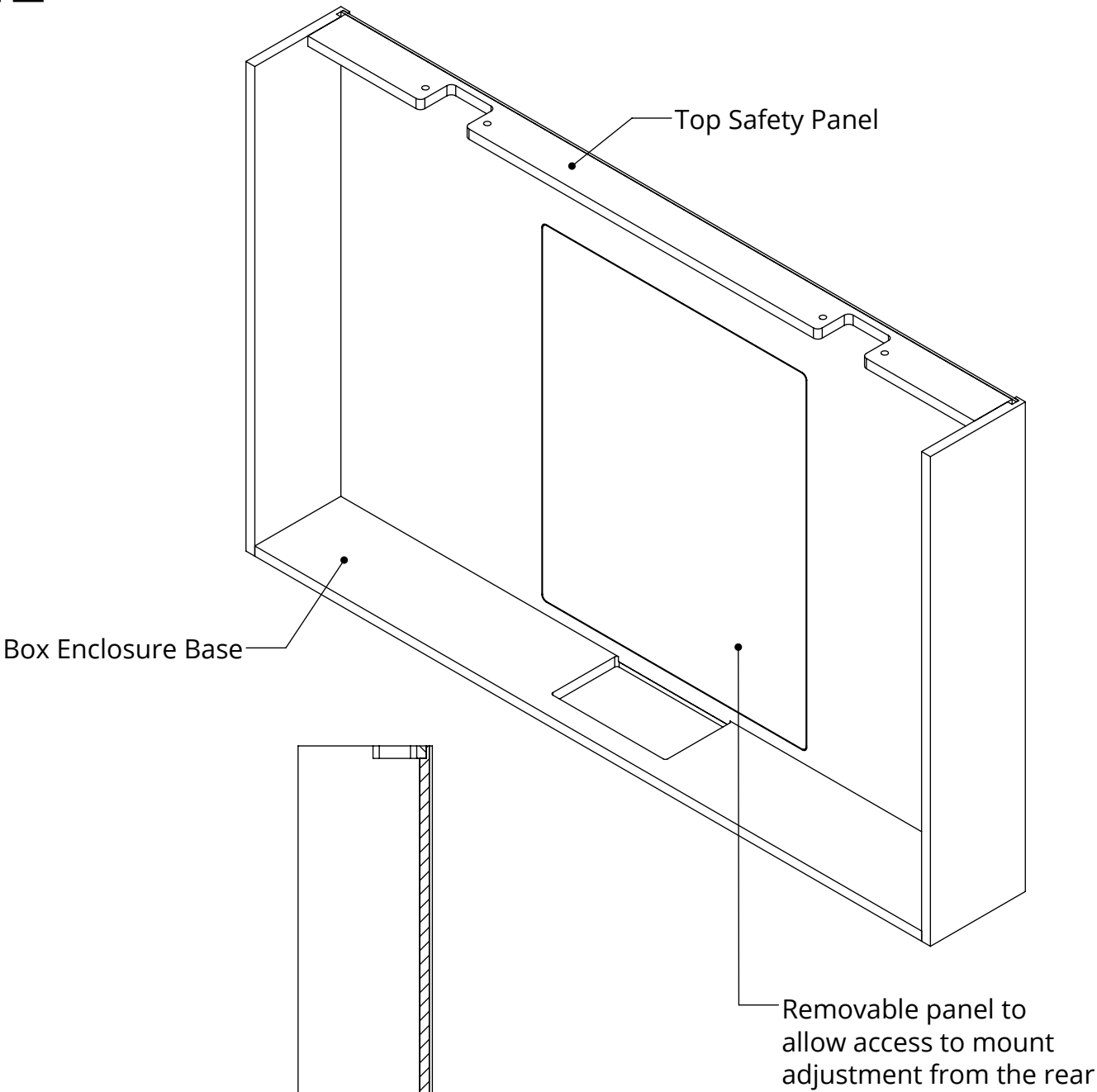
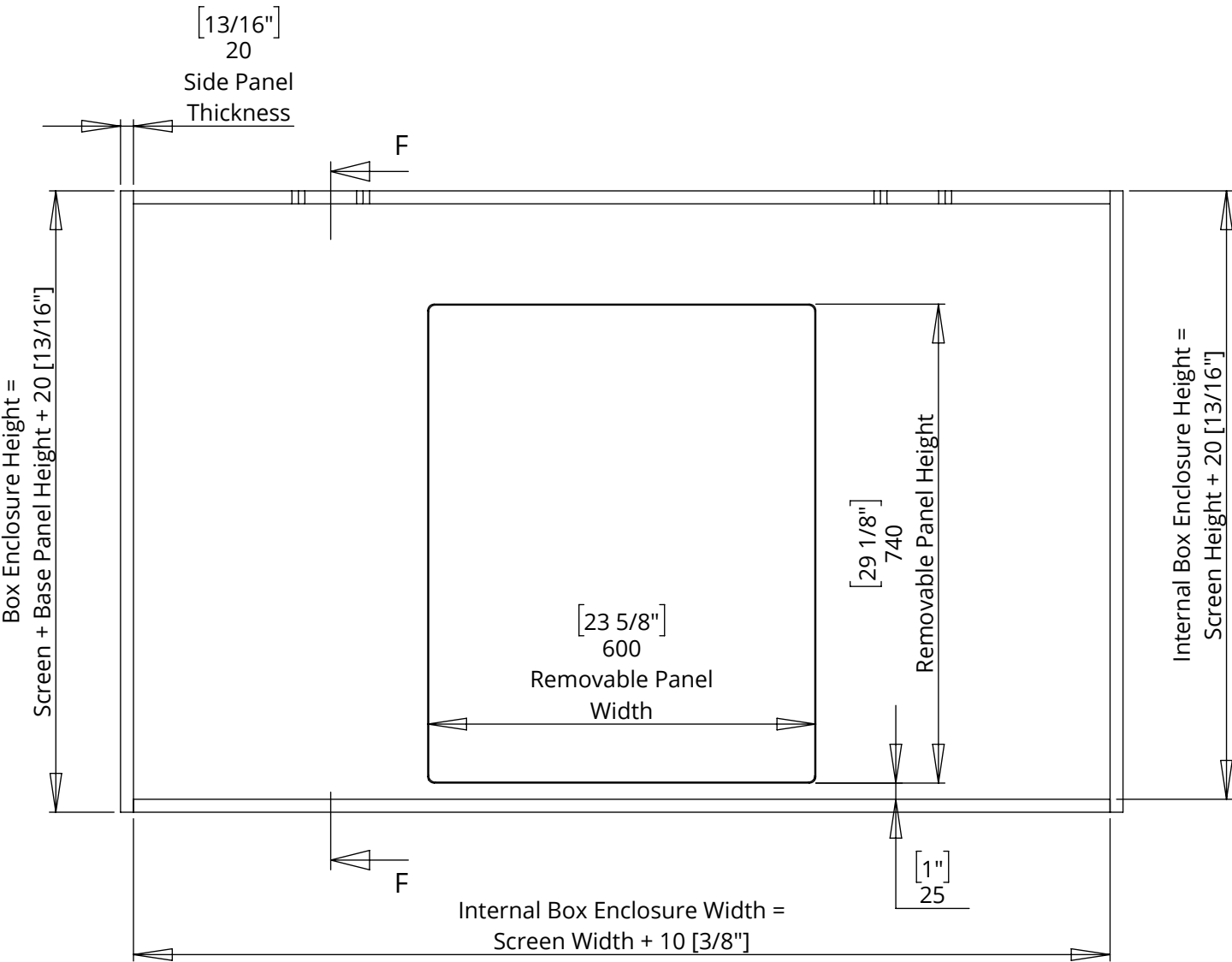
BOX ENCLOSURE DETAILS

For size specific box enclosures with further details, please see CAD.

Maximum lifting capacity: 100kg [225lbs]



Z - SERVO MOTOR
Higher lifting capacity & faster operation.
(Not applicable to swivel)
See PLFZ-S Tech



PLF-S-6

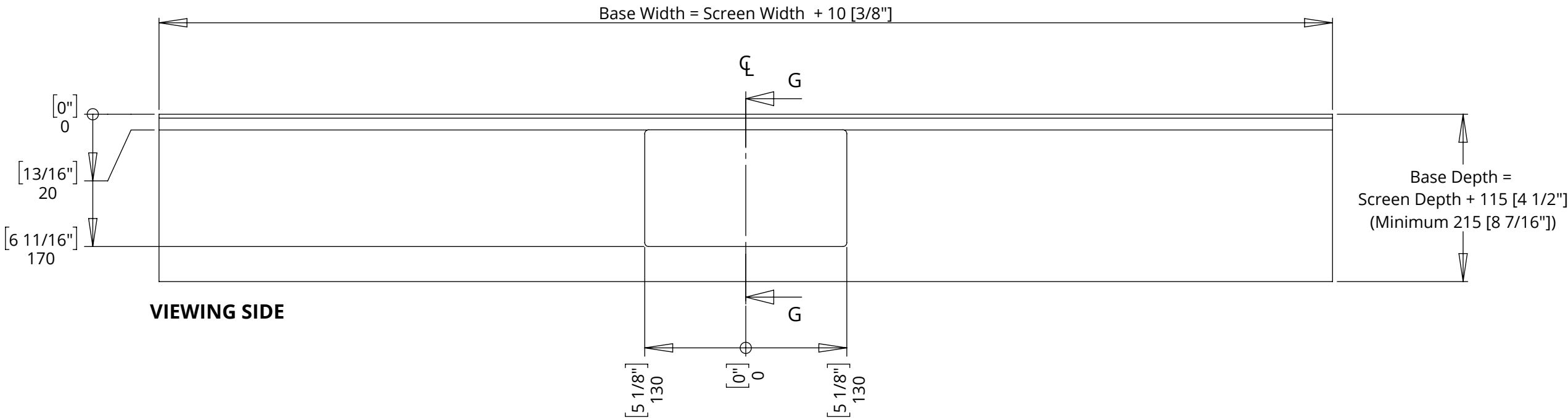
FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

BOX ENCLOSURE - BOX ENCLOSURE BASE AND TOP SAFETY PANEL DETAILS

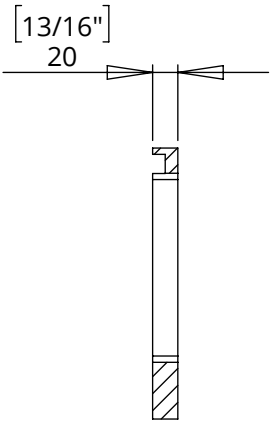
TOP PANEL

For top panel dimensions, please see sheet 7.

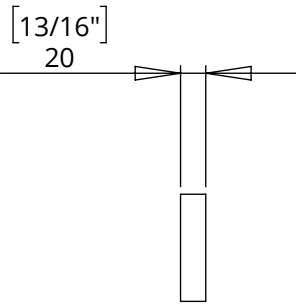
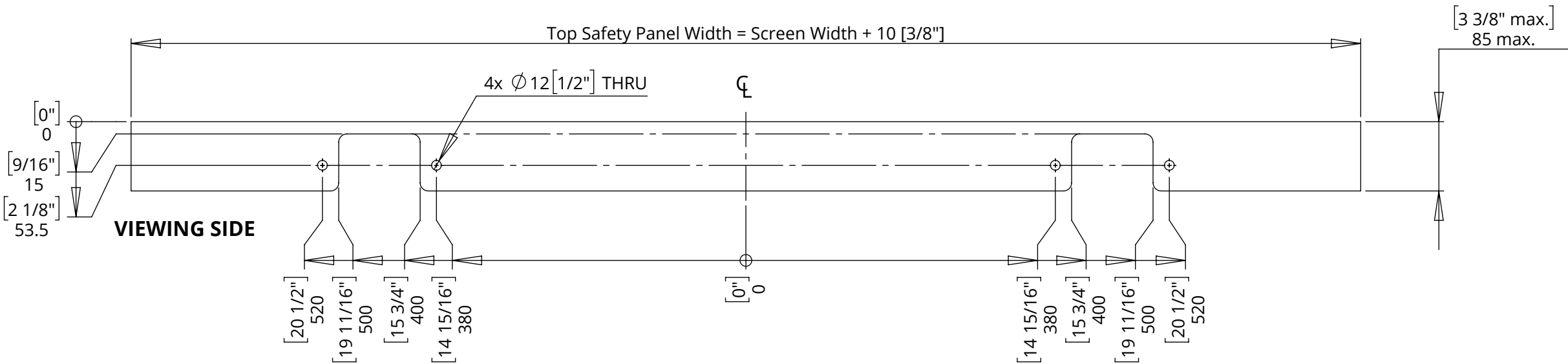
BOX ENCLOSURE BASE



Base thickness to be equal to or larger than the floor surface thickness.



TOP SAFETY PANEL



PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

BOX ENCLOSURE - INTEGRATION CONSIDERATIONS

**High Risk - Crushing Hazard**
Crush hazard between the top panel and the floor surface as the mechanism closes.

**Mitigation**
The top panel is constructed to allow vertical movement in the presence of an obstruction, causing the mechanism to return to open again.

**High Risk - Crushing Hazard**
Crush hazard between the floor surface and the box enclosure when the mechanism is closing.

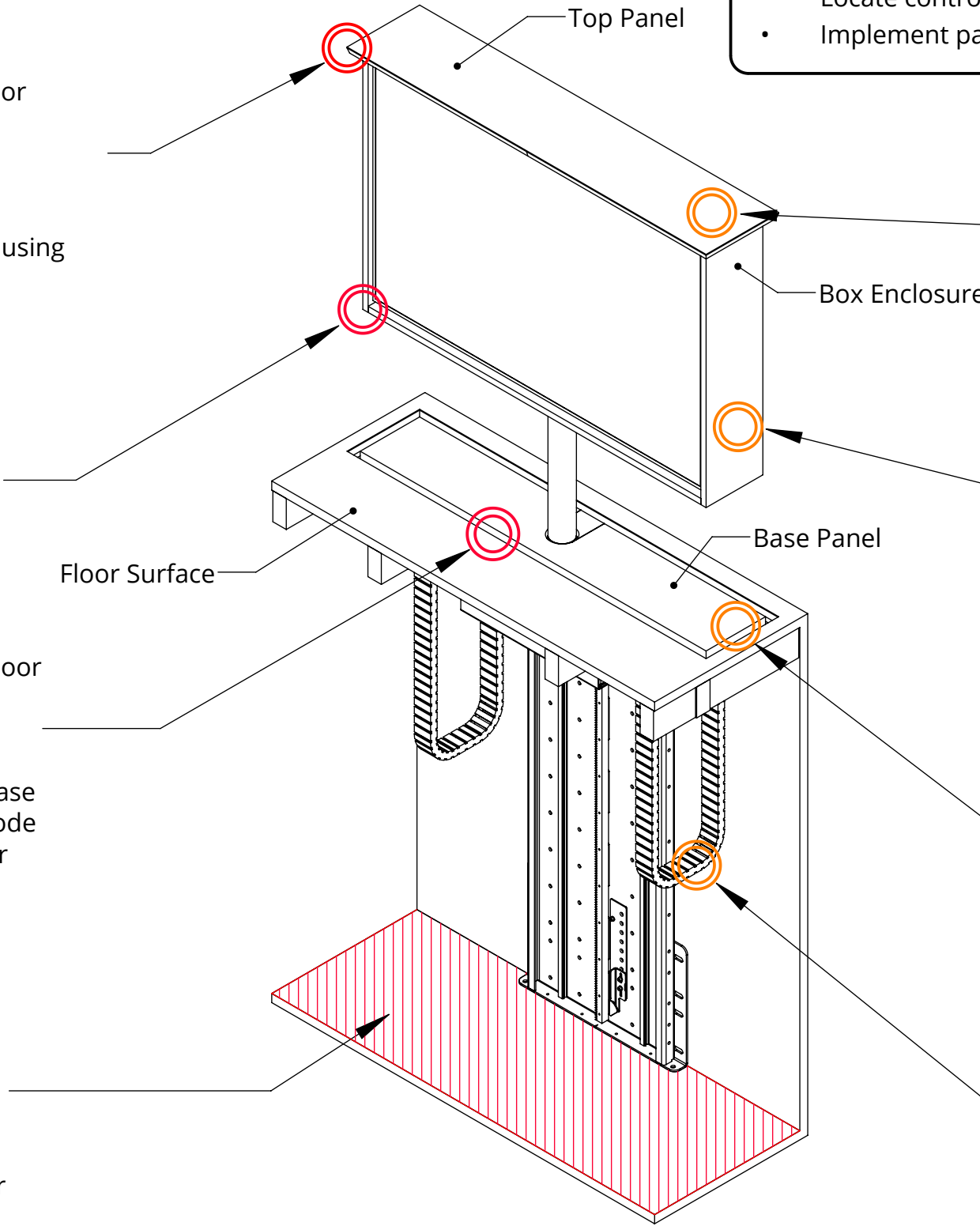
**Mitigation**
See general mitigations.

**High Risk - Crushing Hazard**
Crush hazard between the base panel and the floor surface when the mechanism is opening.

**Mitigation**
A Tapeswitch can be installed underneath the base panel to detect any obstructions. Scan the QR code and navigate to the Cabinet Safety document for further details.

**High Risk - Crushing Hazard**
Crush hazard below the mechanism when the mechanism is closing.

**Mitigation**
Ensure the area below the mechanism is kept clear at all times during operation. If installing or maintaining the mechanism, do so with the mechanism turned off.



Top Panel

Box Enclosure

Floor Surface

Base Panel

**Low Risk - Falling Objects Hazard**
Falling object hazard if objects are left on top of the top panel.

**Mitigation**
See general mitigations.

**Low Risk - Impact Hazard**
Impact hazard around the mechanism when it is swivelling.

**Mitigation**
Set swivel limits to prevent impact with surrounding objects. See also general mitigations.

**Low Risk - Falling Hazard**
Falling hazard when the mechanism is closing. Fallen items may also cause damage to the mechanism during operation.

**Mitigation**
See general mitigations.

**Low Risk - Cable Snagging Hazard**
Cables could be snagged if not properly managed through and around the mechanism, causing damage to the mechanism and electronics.

**Mitigation**
Ensure sufficient cable slack is allowed around movement joints to prevent stretching and/or damage to the cables and/or mechanism.

General Mitigations:

- Activate hold-to-run/dead-man switch operation.
- Locate controls within direct line of sight of the mechanism.
- Implement password or key switch protected operation.

PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL



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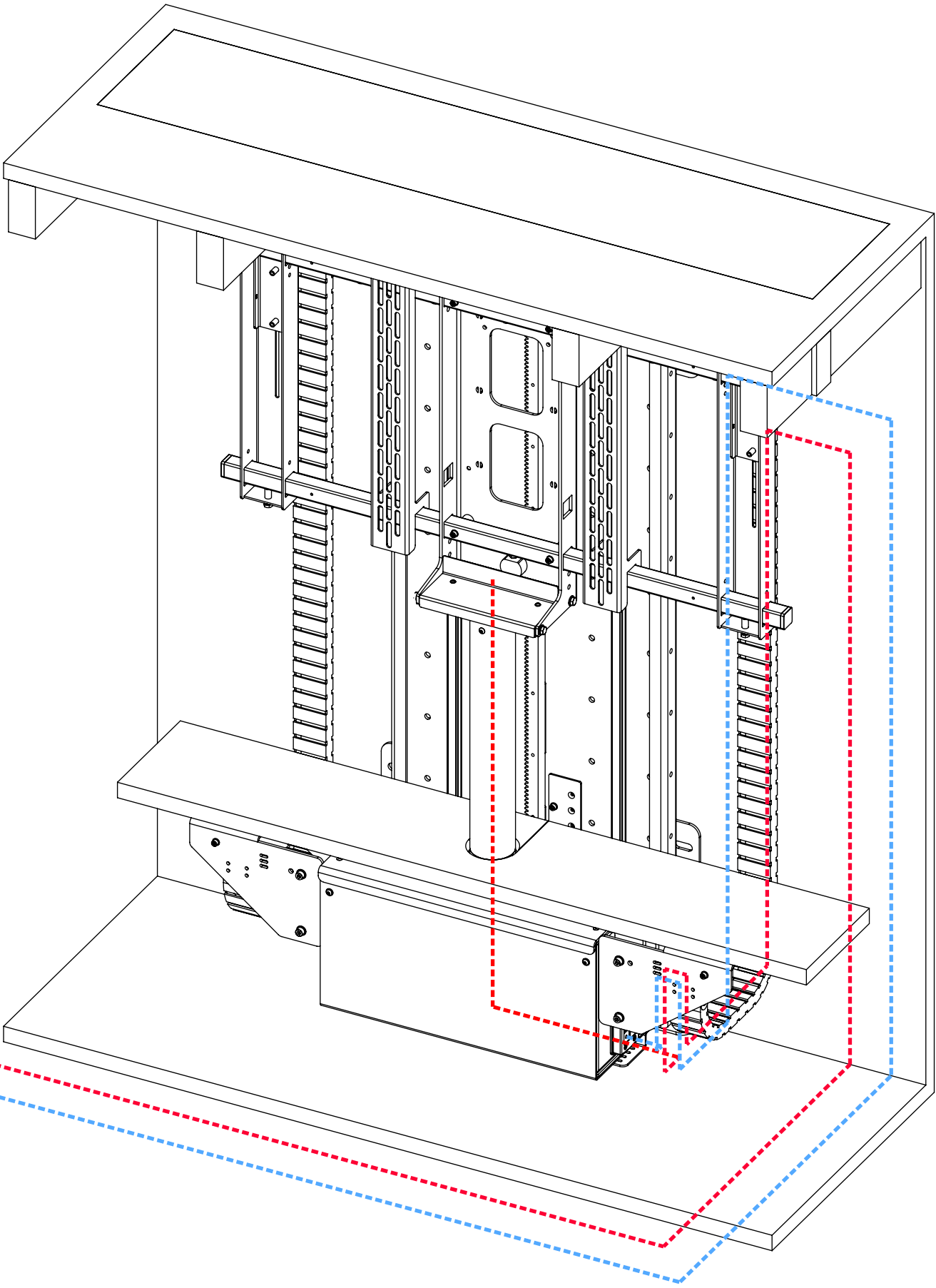
CABLE ROUTING

Screen cables should be routed through the cable management chain, through the centre of the box section mount, and then to the screen.

Mechanism cables should be routed to the control box, which should be stored in a safe and accessible location.

----- MECHANISM CABLES ----- MAINS POWER

----- SCREEN CABLES



To external connections

To mains power
(110V or 240V AC)

Control Box

Power Supply Unit

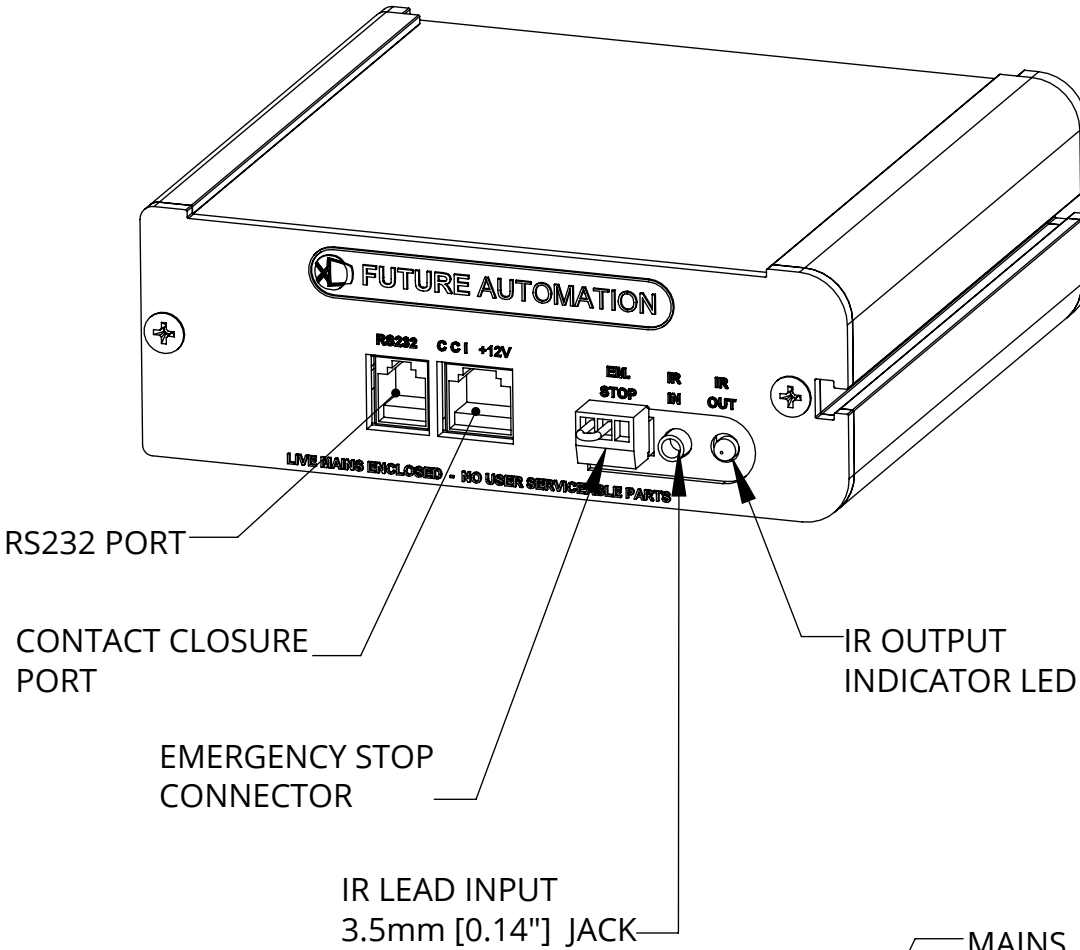
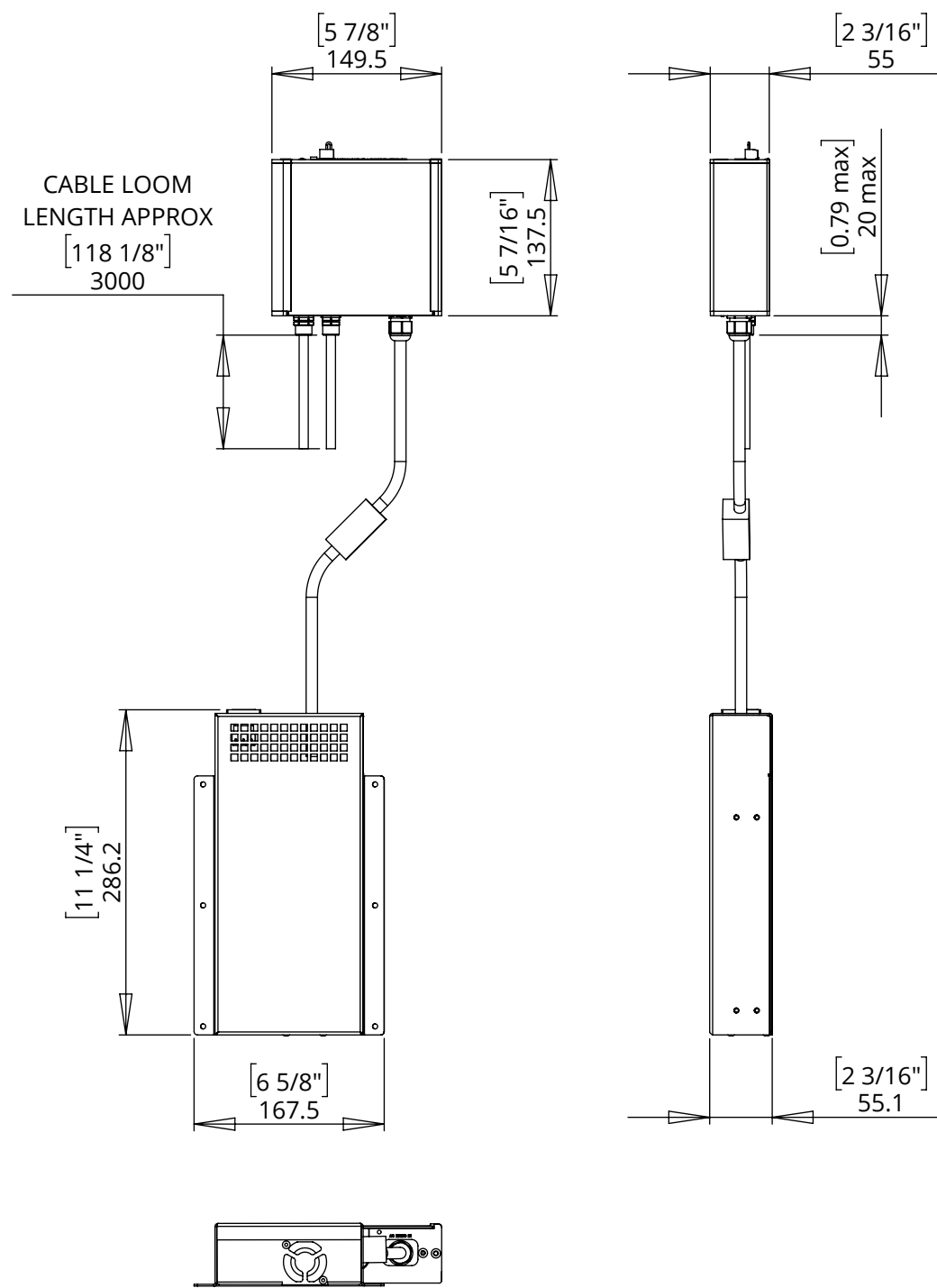
PLF-S-6

FLOOR LIFT SYSTEM HEAVY WITH SWIVEL

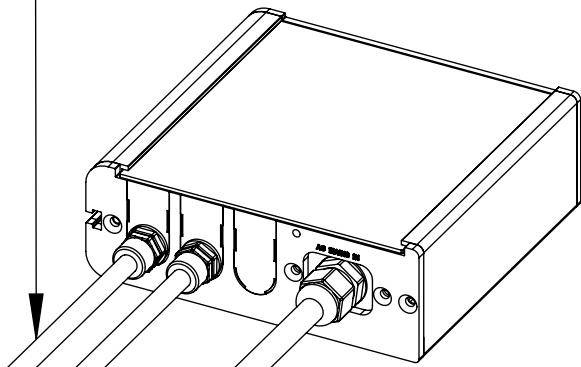


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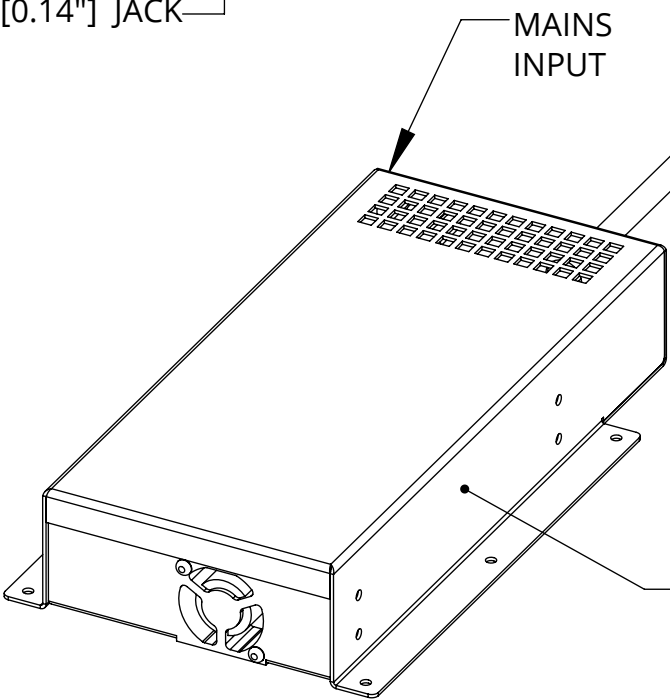
CONTROL BOX DETAILS



3 CORE CABLE
LIFTING BEAM SWITCHES
6mm [0.25"] dia.
EU SPEC: 0.5mm²
US SPEC: 20AWG



2 CORE CABLE
LIFTING BEAM MOTOR
10mm [0.4"] dia.
EU SPEC: 1.5mm²
US SPEC: 16AWG



POWER SUPPLY UNIT
INPUT = 110V (6A) OR 240V (3A) AC MAINS
OUTPUT = 24V DC, 21A

NOTES

- POWER SUPPLY UNIT (PSU) WILL ALLOW 110V OR 240V AC INPUT. THE SAME PSU IS USED FOR EU OR US MAINS SUPPLIES.
- OTHER THAN CONTROL CABLES, ALL CABLES TERMINATE AT CONTROL BOARD VIA STANDARD PHOENIX CONNECTORS.
- CABLE LOOM LENGTH SUPPLIED AT APPROX. 3m [118"]. LOOM CAN BE EXTENDED UP TO MAXIMUM OF APPROX. 10m [400"].
- MINIMUM CABLE BEND RADIUS 25mm [1"].