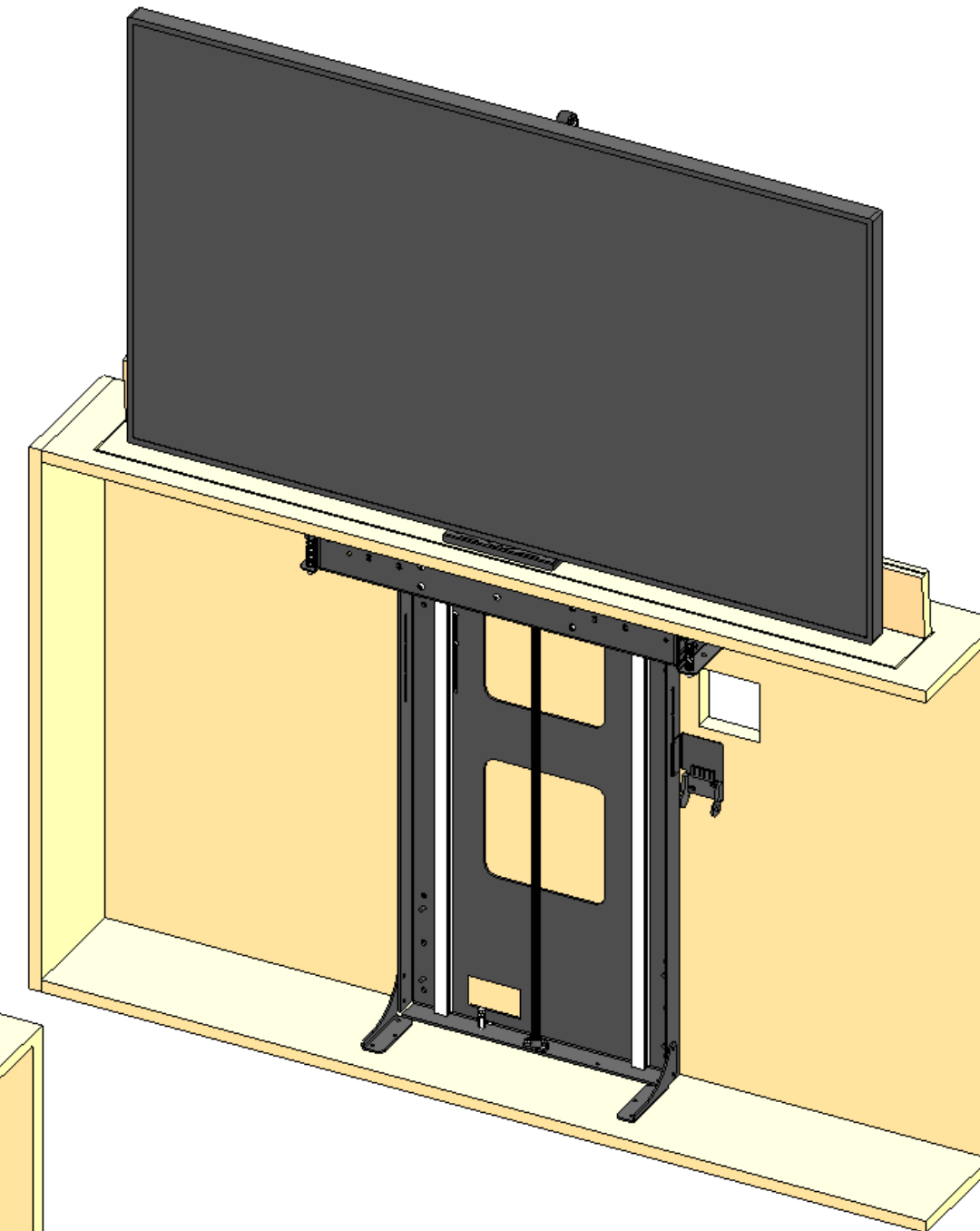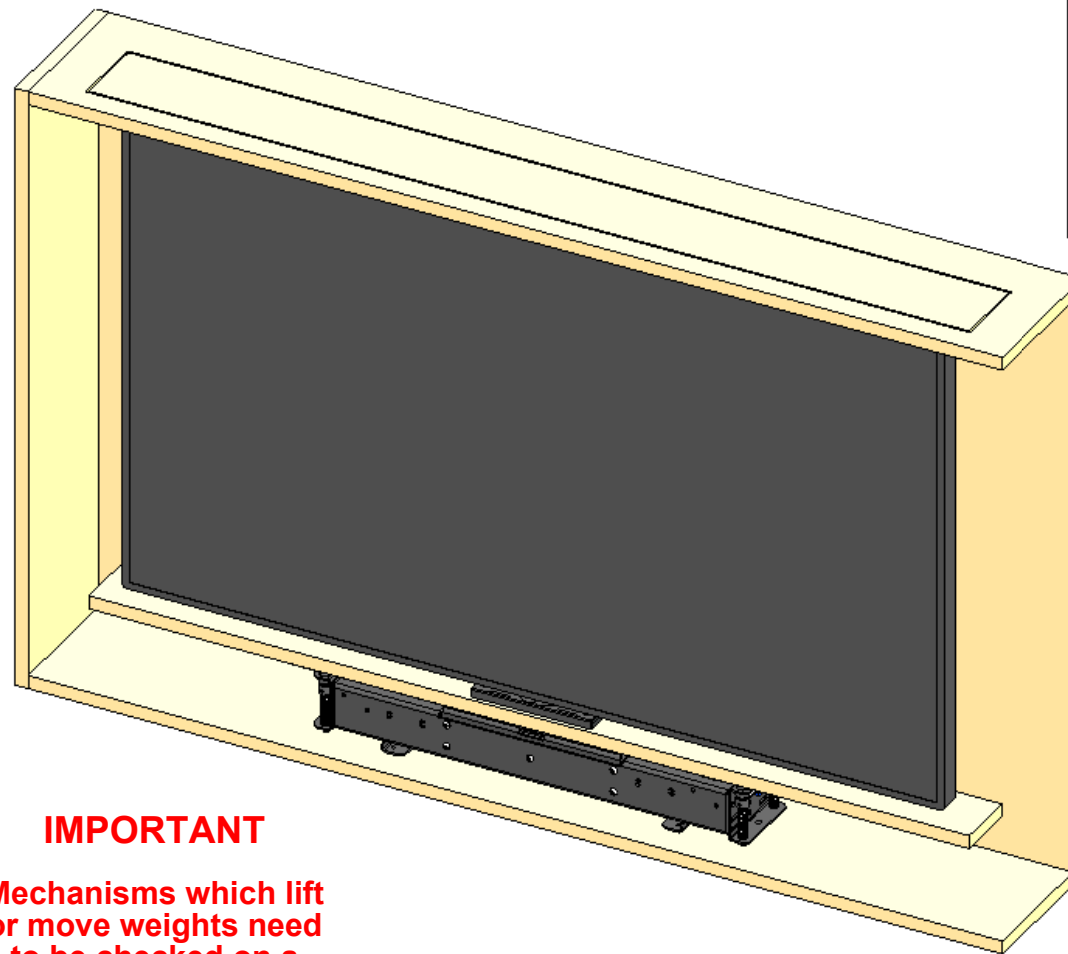## DESIGN HIGHLIGHTS

- Quiet smooth action at approximately 40mm [1.6] per second

- Full cable management

- Wide range of mounting options

- 24V DC motor. Suitable for direct DC supply

- Marine suitable robust beam

OPTIONS

- Box Enclosure

- Box Enclosure with Swivel

- Electric Flap Actuator

- Custom screen back cover

- Heavy duty option

FUNCTION

An electric mechanism to lift a flat screen television. Suitable for marine use. Shown here for use with a Push Up Flap.

SUITABILITY

Suitable for a total lifting weight of 50Kg [110lbs] or 30Kg [66lbs] in a marine environment.

Maximum screen height 805mm [31.7]

Lift systems to suit different screen heights and weights are available

SPECIFYING

Check screen mounting details and request a suitable mount plate

CONTROL

Supplied with basic infrared remote. Can be learnt by many learning remotes.

Also has switch control and RS232 so can be operated by relays, switches, Crestron / AMX or Lutron systems.

WARNING

It is the responsibility of the installer to warn all potential end users of the dangers of interfering with mechanisms during operation

IMPORTANT

Mechanisms which lift or move weights need to be checked on a yearly basis for any damage which may result in an accident

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Design Highlights

A space efficient and robust lifting mechanism, suitable for use in marine environments.

A robust 24V DC motor with a purpose made lead screw enables a quiet and smooth lifting action at approximately 40mm [1.6] per second.

High precision linear guideways ensure stability and durability of the beam to prevent any unwanted movement of the screen.
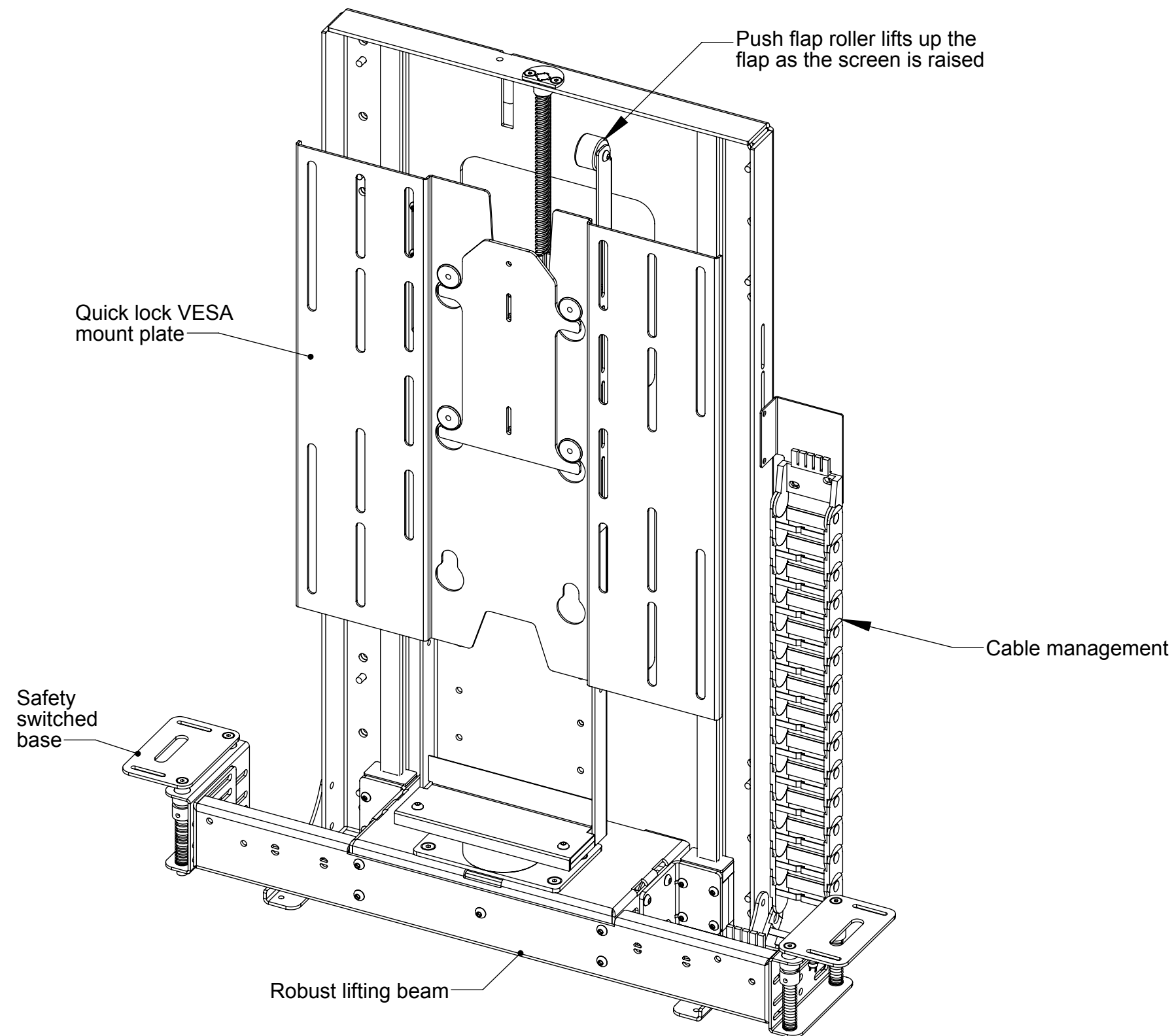
Adjustable UP and DOWN positions allow for a precise final setup within the cabinet.

The safety switched base reduces the risk of damage to the mechanism or injury to the user by cutting power to the motor when there is an obstruction between the cabinet and base panel.

Full cable management protects all screen and power cables from damage and is easily accessible for future changes to the AV setup.

A wide range of mounting options are available to suit different screens and speaker arrangements.

The push flap roller provides a simple and easily adjustable method of opening and closing the cabinet flap automatically.

Push flap roller lifts up the flap as the screen is raised

Quick lock VESA mount plate

Cable management

Safety switched base

Robust lifting beam

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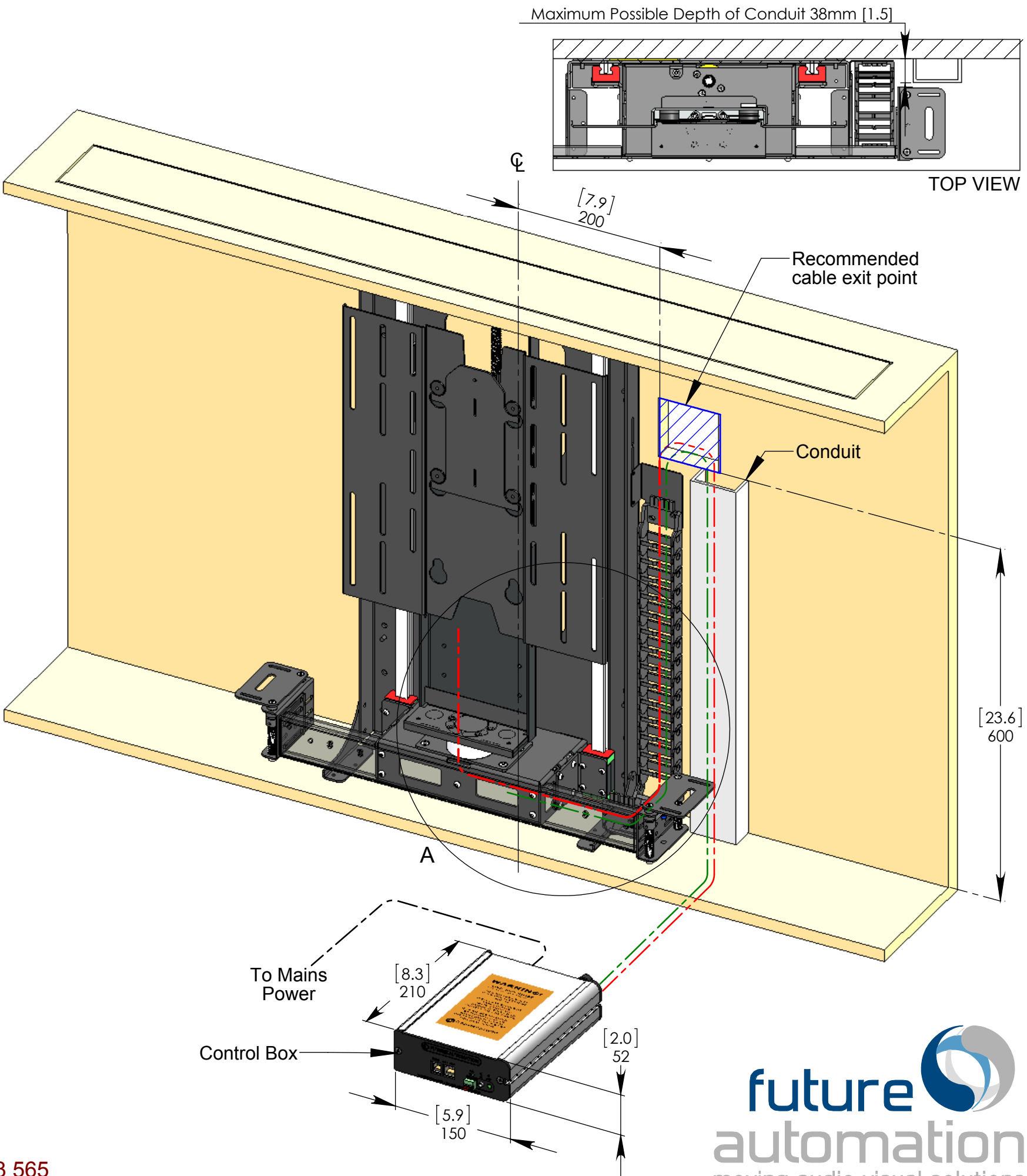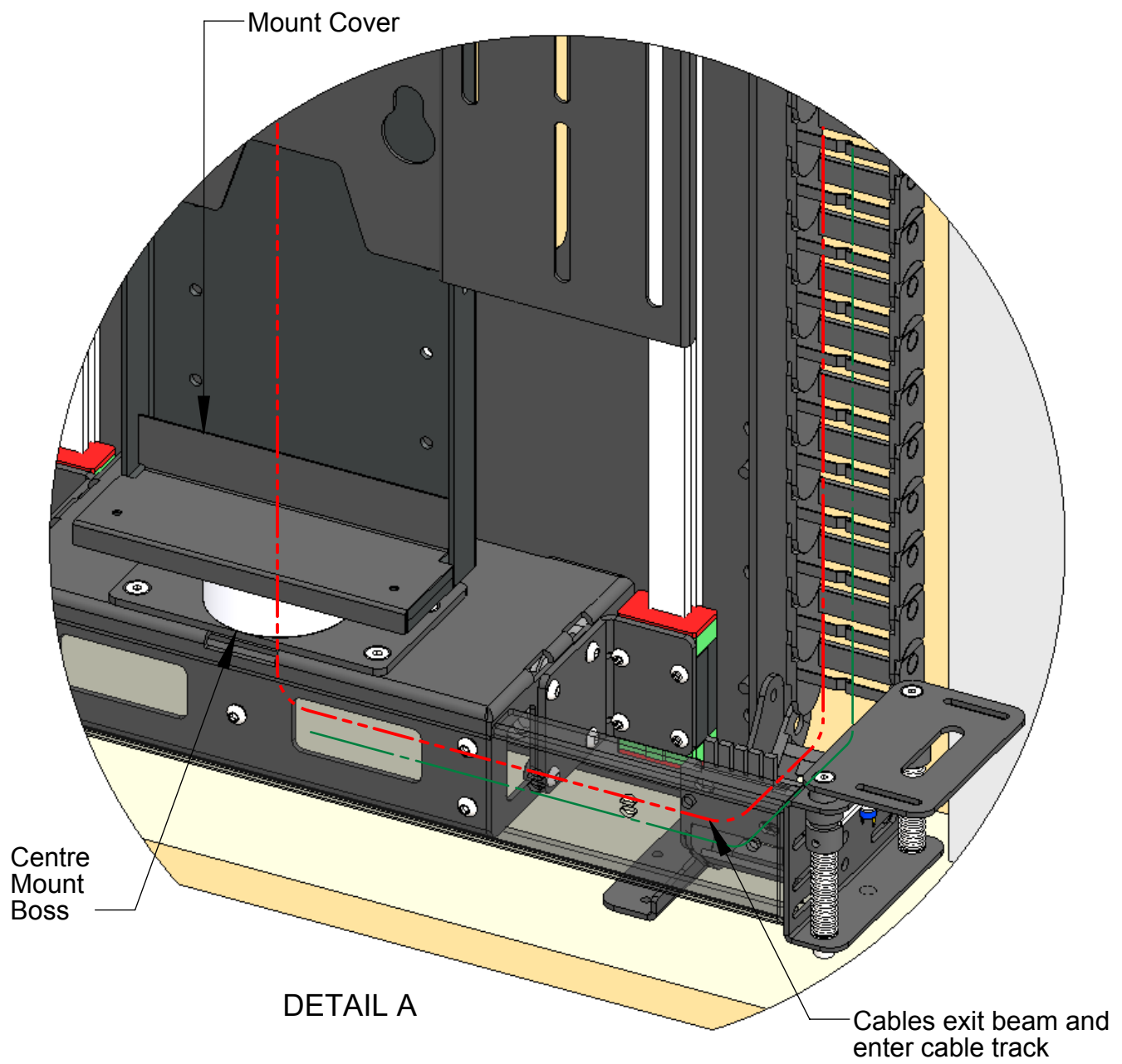moving audio visual solutions

Cable Routing

The LSM has an easily removable Mount Cover that cables from the screen can be routed underneath. Cables then travel through the centre of the Mount Boss and into the beam. Cables must be routed carefully to prevent any interference with the LSM beam as it operates.

Screen and Mechanism cables should be routed to a control box outside of the cabinet via an opening in the back of the cabinet or a conduit leading to the bottom.

—— · —— SCREEN CABLE
—— · —— MECHANISM CABLE
—— · —— POWER CABLE

Maximum Possible Depth of Conduit 38mm [1.5]

TOP VIEW

$\overline{\text{CL}}$

[7.9]
200

Recommended cable exit point

Conduit

[23.6]
600

Mount Cover

Centre Mount Boss

DETAIL A

Cables exit beam and enter cable track

A

To Mains Power

[8.3]
210

Control Box

[2.0]
52

[5.9]
150

WARNING!

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Mechanism Up - In Cabinet

[0.8]
20
Minimum Distance
from Screen to
Edge of Base

[0.1]
3

Aperture Depth =
Screen Depth + 80 [3.1]
(Minimum 118 [4.6])

[1.8]
46

A

[0.8]
20

[0.8]
20

[4.2]
108
Back of
Mechanism
to Mount

[31.7]
805
Max
Screen
Height

Flap
hinge
point

[2.8]
70

[0.8]
20
Max Thickness
of Base and
Cabinet Top

[0.7]
19

B

[37.4]
950
Internal
Cabinet
Height

DETAIL B

A

Internal Cabinet Width = Screen Width + 40 [1.6]

[6.1]
154

SECTION A-A

**IMPORTANT: Thicker cabinet tops will
require a reduced maximum screen height**

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Mechanism Down - In Cabinet
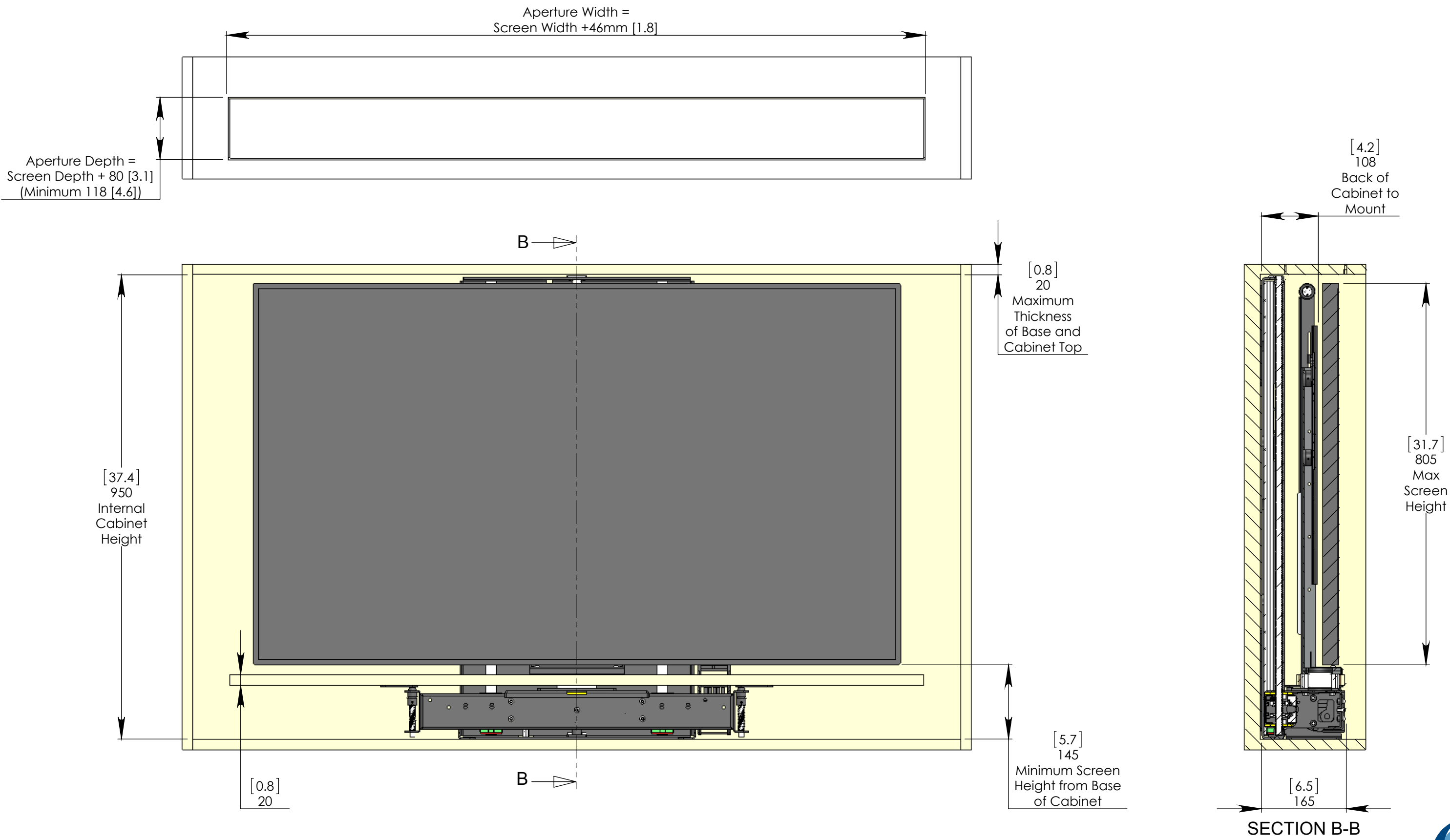
Aperture Width =
Screen Width +46mm [1.8]

Aperture Depth =
Screen Depth + 80 [3.1]
(Minimum 118 [4.6])

[4.2]
108
Back of
Cabinet to
Mount

B

[0.8]
20
Maximum
Thickness
of Base and
Cabinet Top

[37.4]
950
Internal
Cabinet
Height

[31.7]
805
Max
Screen
Height

B

[0.8]
20

[5.7]
145
Minimum Screen
Height from Base
of Cabinet

[6.5]
165

SECTION B-B

**IMPORTANT: Thicker cabinet tops will
require a reduced maximum screen height**

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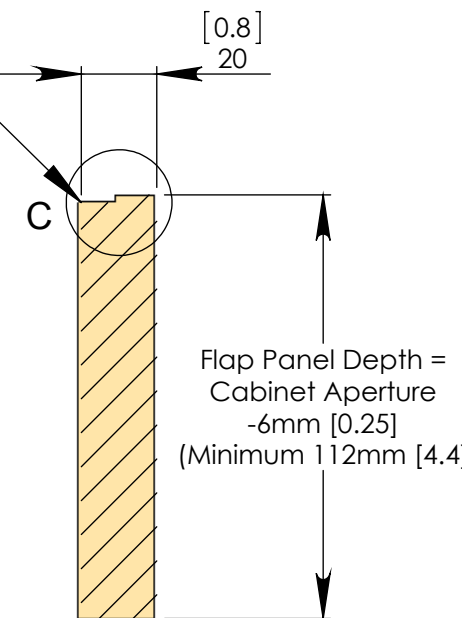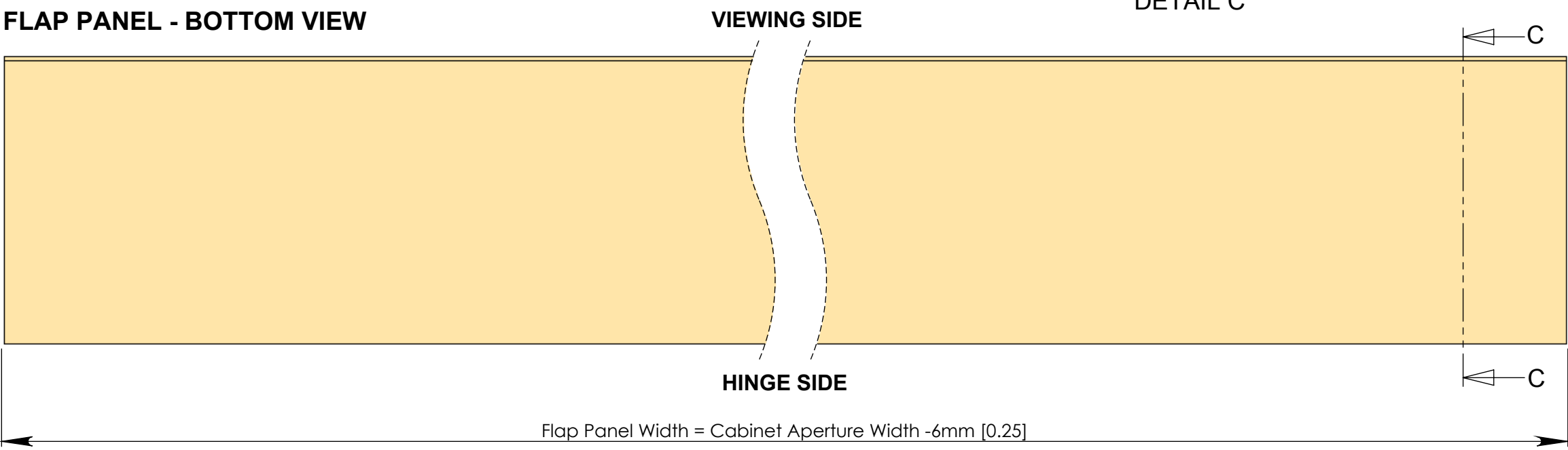automation
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Base Panel and Flap Panel Details

Flap depth dimensions are based on a 3mm thick piano hinge

Required flap dimensions may vary dependant on the hinge used

[0.1]
2

[0.4]
10

DETAIL C
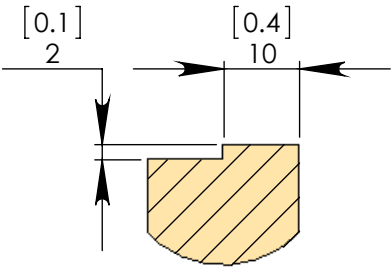
A step is required on the front of the flap to meet a step in the front edge of the cabinet aperture

FLAP PANEL - BOTTOM VIEW

VIEWING SIDE

C

HINGE SIDE

Flap Panel Width = Cabinet Aperture Width -6mm [0.25]

[0.8]
20

C

Flap Panel Depth = Cabinet Aperture -6mm [0.25]
(Minimum 112mm [4.4]

SECTION C-C

BASE PANEL - TOP VIEW

$\emptyset \frac{80}{76} \begin{bmatrix} 3.1 \\ 3.0 \end{bmatrix}$ THRU

[1.8]
44.50

VIEWING SIDE

Base Panel Width = Cabinet Aperture Width -6mm [0.25]

[0.8]
20

Base Panel Depth = Cabinet Aperture -29mm [0.25]
(Minimum 89mm [3.5]

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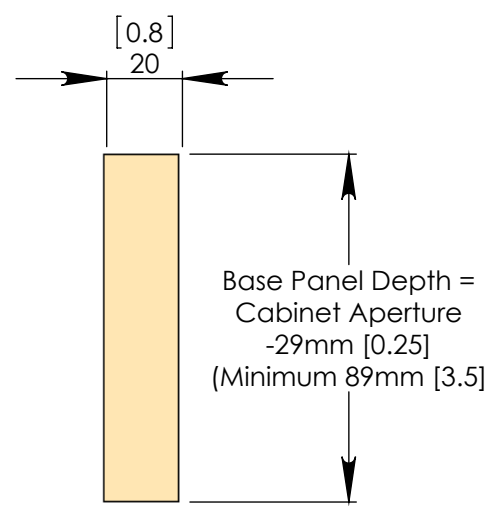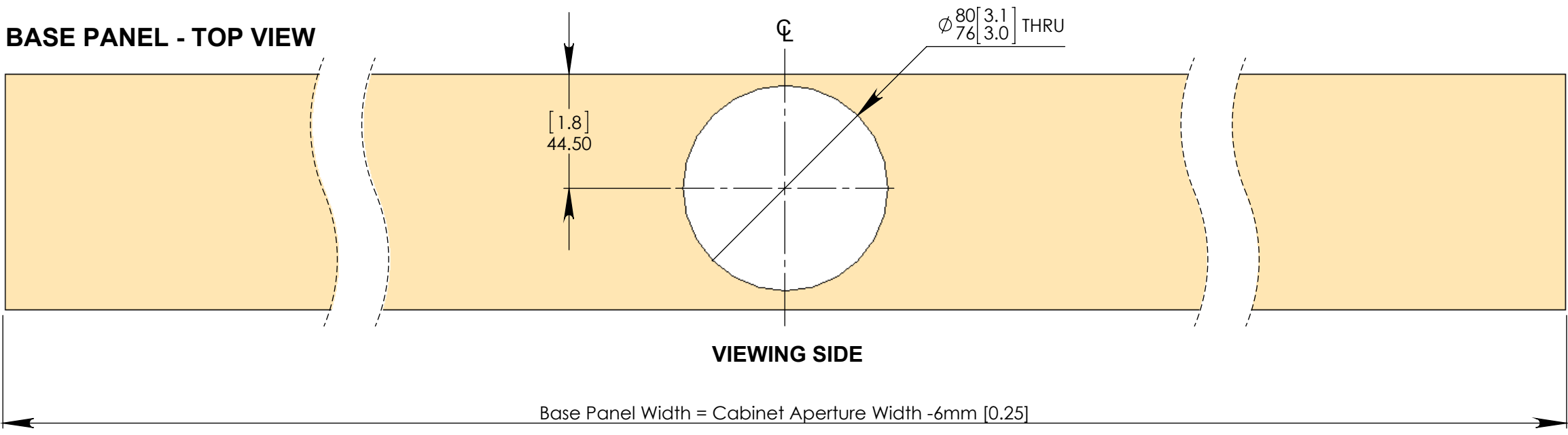
Screen Mount Adjustability

A standard adjustable height VESA 400 mount is included. This is also compatible with VESA 300 and 200 mounting patterns

Separate VESA 300 and 200 mounts are available.

V400

V300

V200

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

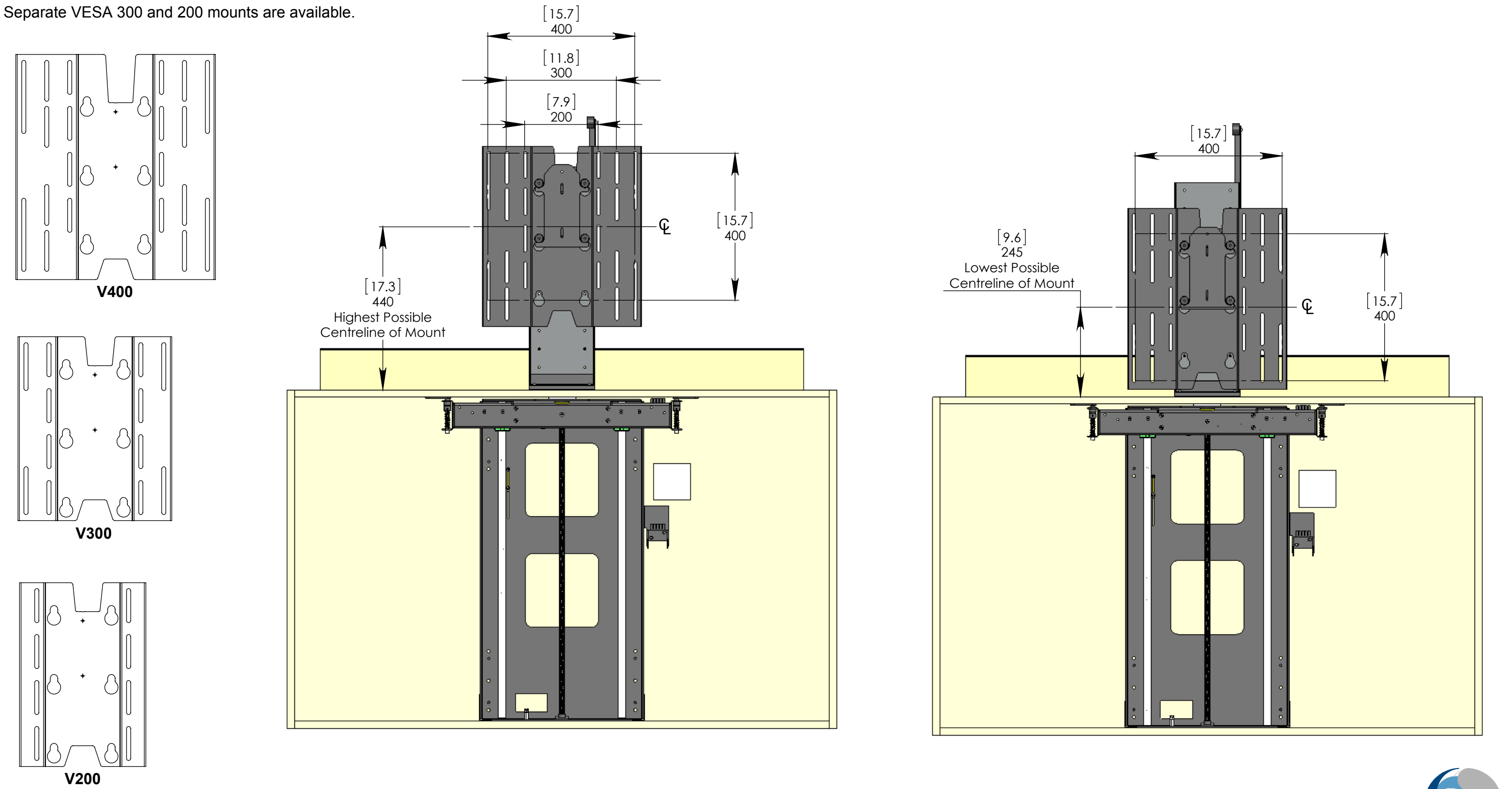$\begin{bmatrix} 11.8 \end{bmatrix}$ 300

$\begin{bmatrix} 7.9 \end{bmatrix}$ 200

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

$\begin{bmatrix} 17.3 \end{bmatrix}$ 440
Highest Possible
Centreline of Mount

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

$\begin{bmatrix} 9.6 \end{bmatrix}$ 245
Lowest Possible
Centreline of Mount

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

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Mechanism Installation Overview

The Flap Panel is attached to a hinge at the back of the cabinet aperture.

Screen mount must be removed for installation of Base Panel

The LSM is fixed to the back of the cabinet with wood screws in each corner

Screen mount easily removed with concealed bolts

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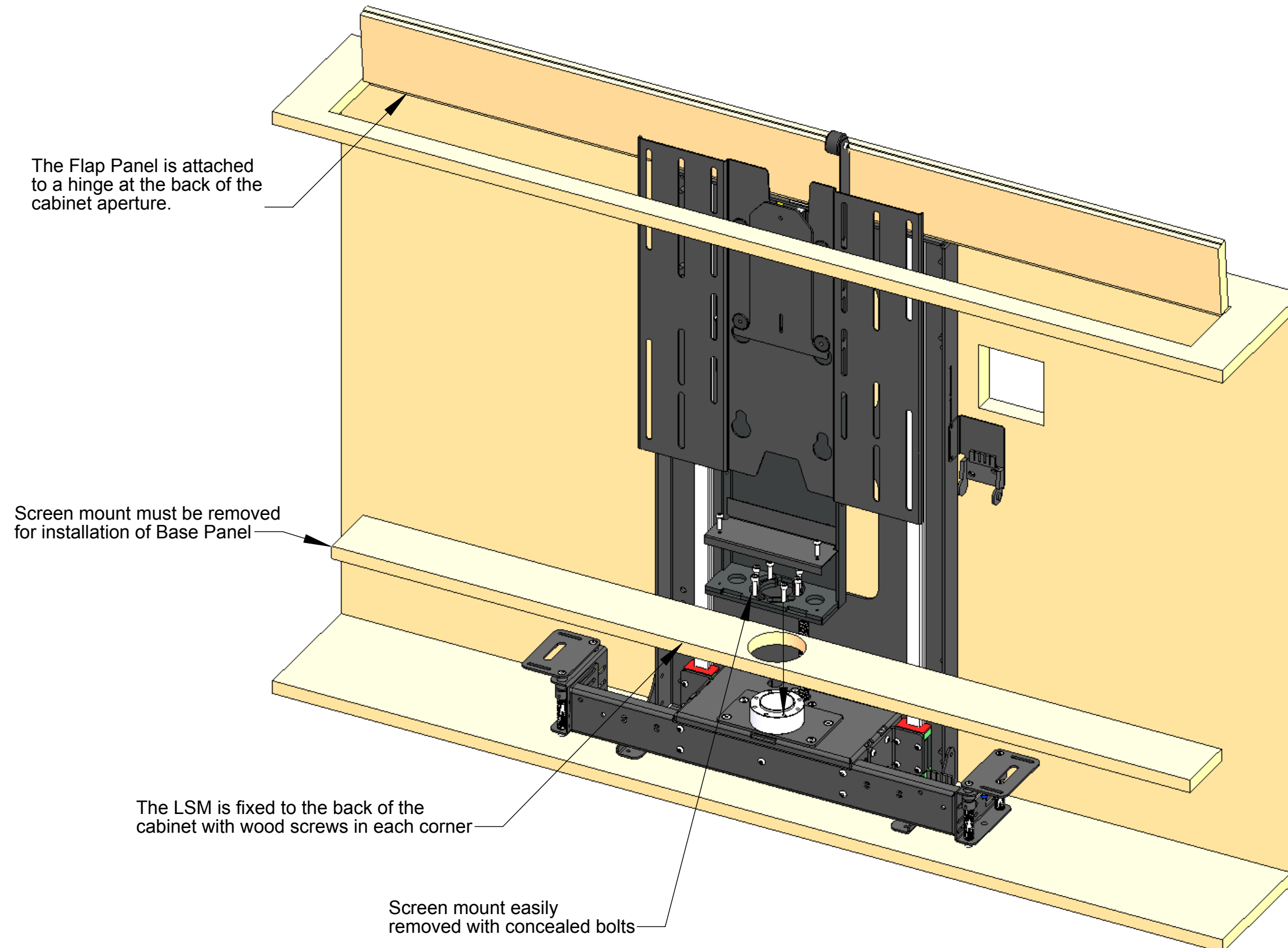
Overall Mechanism Dimensions

MECHANISM - UP POSITION

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

$\begin{bmatrix} 15.7 \end{bmatrix}$ 400

$\begin{bmatrix} 37.4 \end{bmatrix}$ 950

$\begin{bmatrix} 37.3 \end{bmatrix}$ 948 Back Plate Height

$\begin{bmatrix} 6.1 \end{bmatrix}$ 154

$\begin{bmatrix} 17.8 \end{bmatrix}$ 451

$\begin{bmatrix} 20.7 \end{bmatrix}$ 525
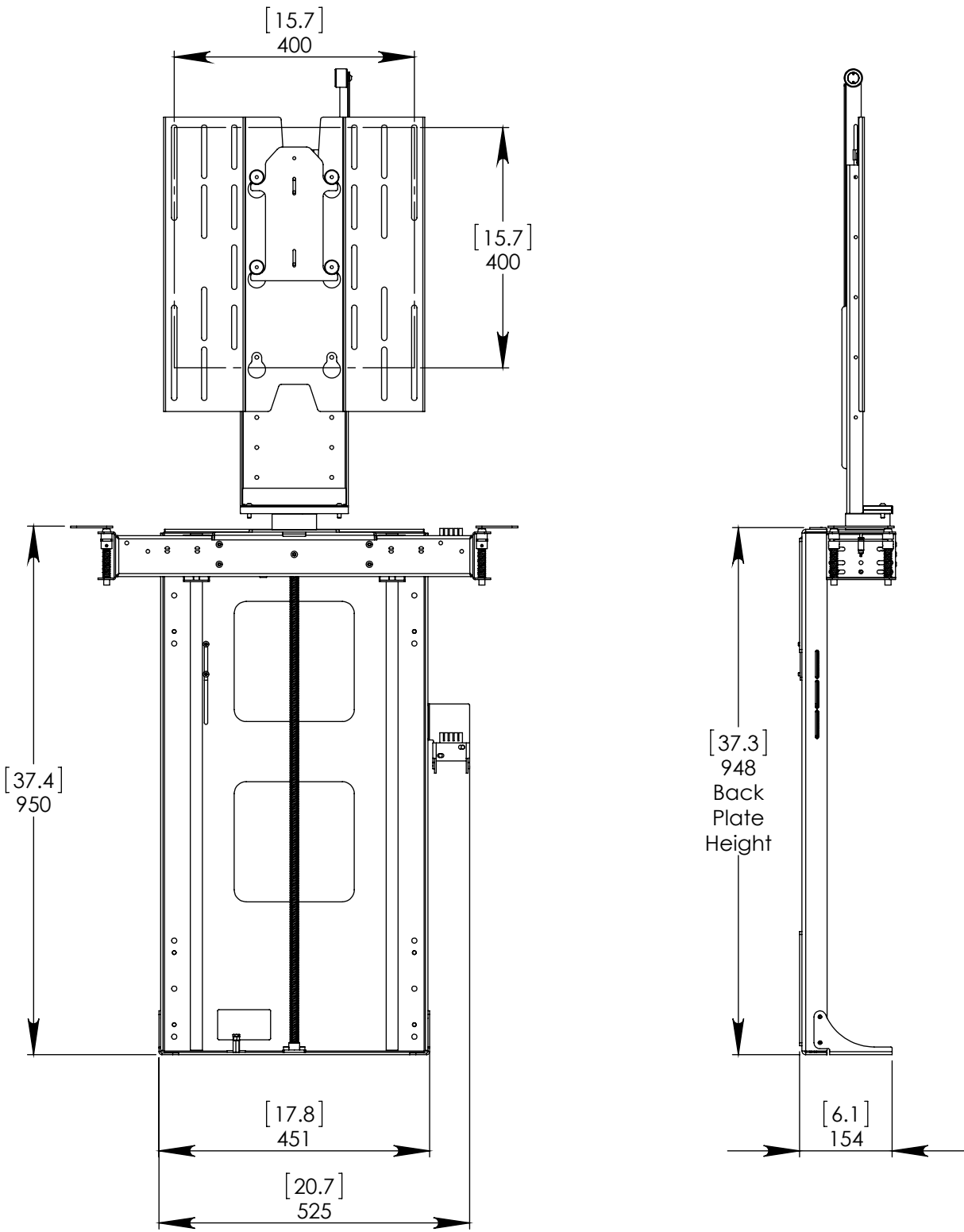
MECHANISM - DOWN POSITION

$\begin{bmatrix} 29.3 \end{bmatrix}$ 745

$\begin{bmatrix} 6.5 \end{bmatrix}$ 165

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