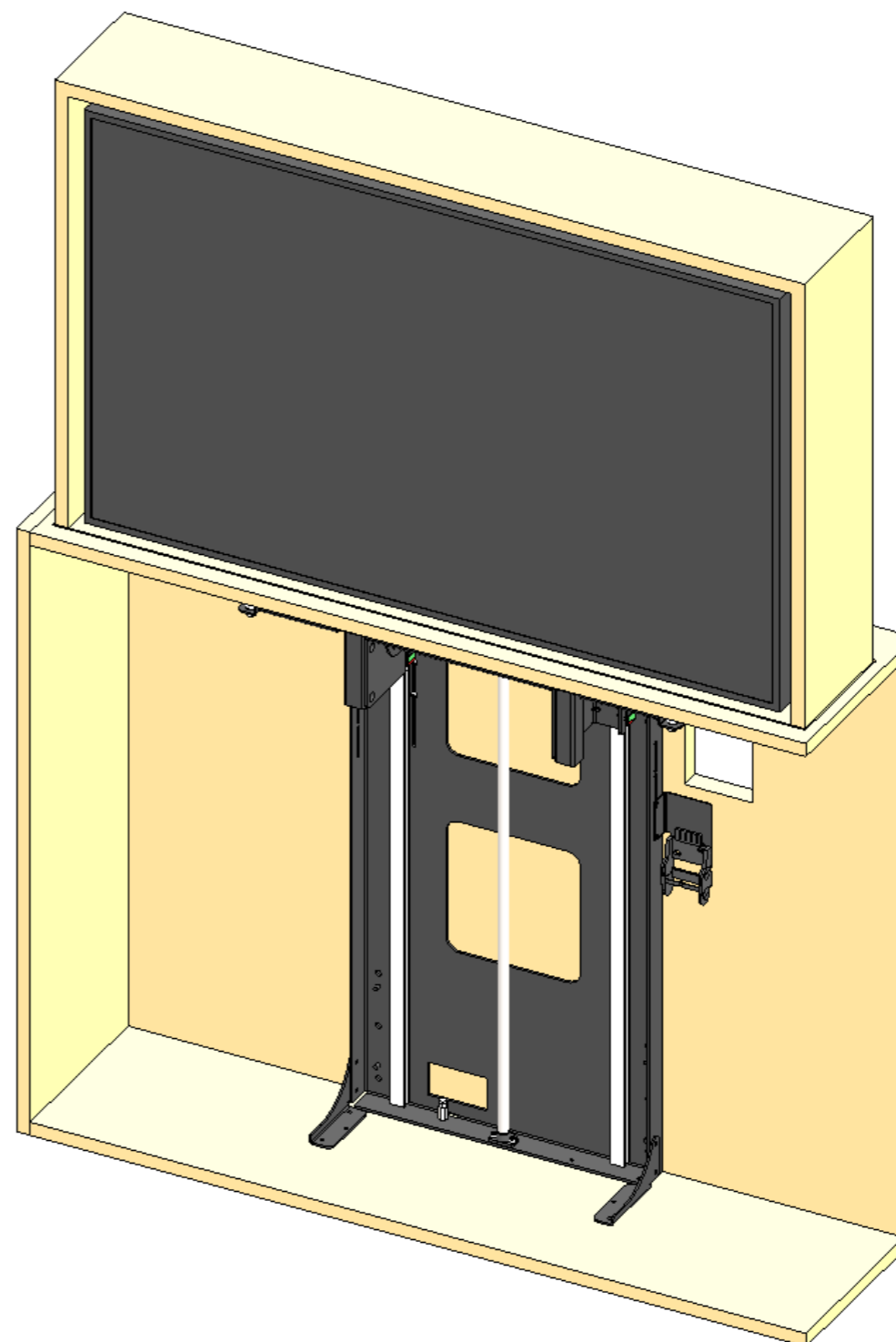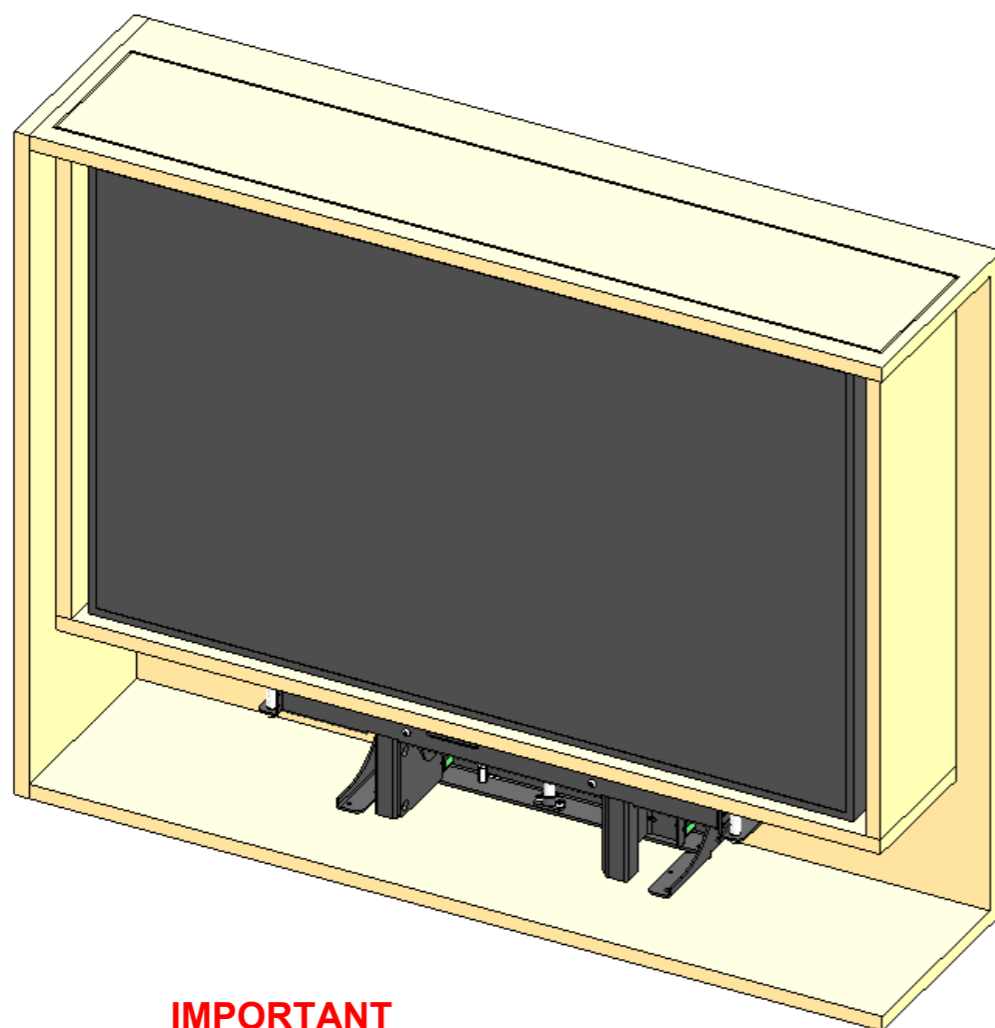## DESIGN HIGHLIGHTS

- Quiet smooth lifting 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

FUNCTION

An electric mechanism to lift two televisions that are mounted back to back. Suitable for marine use. Shown here for use with an enclosed screen.

SUITABILITY

Suitable for a total lifting weight of 40Kg [88lbs] or 20Kg [44lbs] in a marine environment. This is the weight of the screens and the screen enclosure that is made by others. The enclosure can easily make up 10Kg [22lbs] of the total capacity.

Maximum screen height 570mm [22.4]

Maximum Screen Depth 70mm [2.7]

Lift systems to suit different screen heights are available

SPECIFYING

Check screen mounting details and check for screen connectors that may add to screen depth.

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.

The Back to Back Screen Mounting System allows two screens to be easily installed and removed from the Screen Enclosure.

The Screen Enclosure gives the product a neat finish, concealing all screen connections.
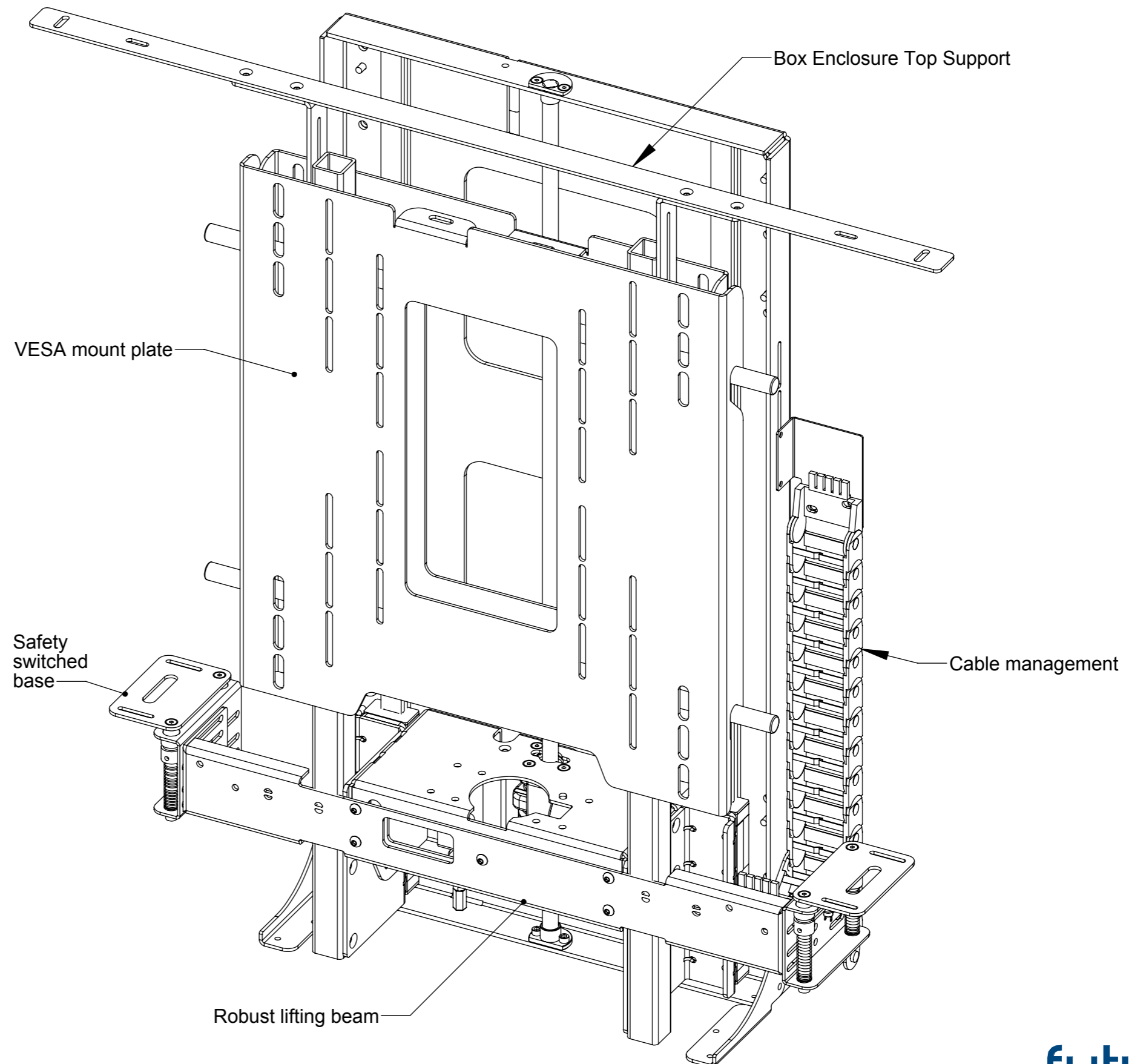
A robust 24V DC motor with a purpose made lead screw enables a quiet and smooth lifting action at approximately 40mm [1.6] per second.

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.

Box Enclosure Top Support

VESA mount plate

Safety switched base

Cable management

Robust lifting beam

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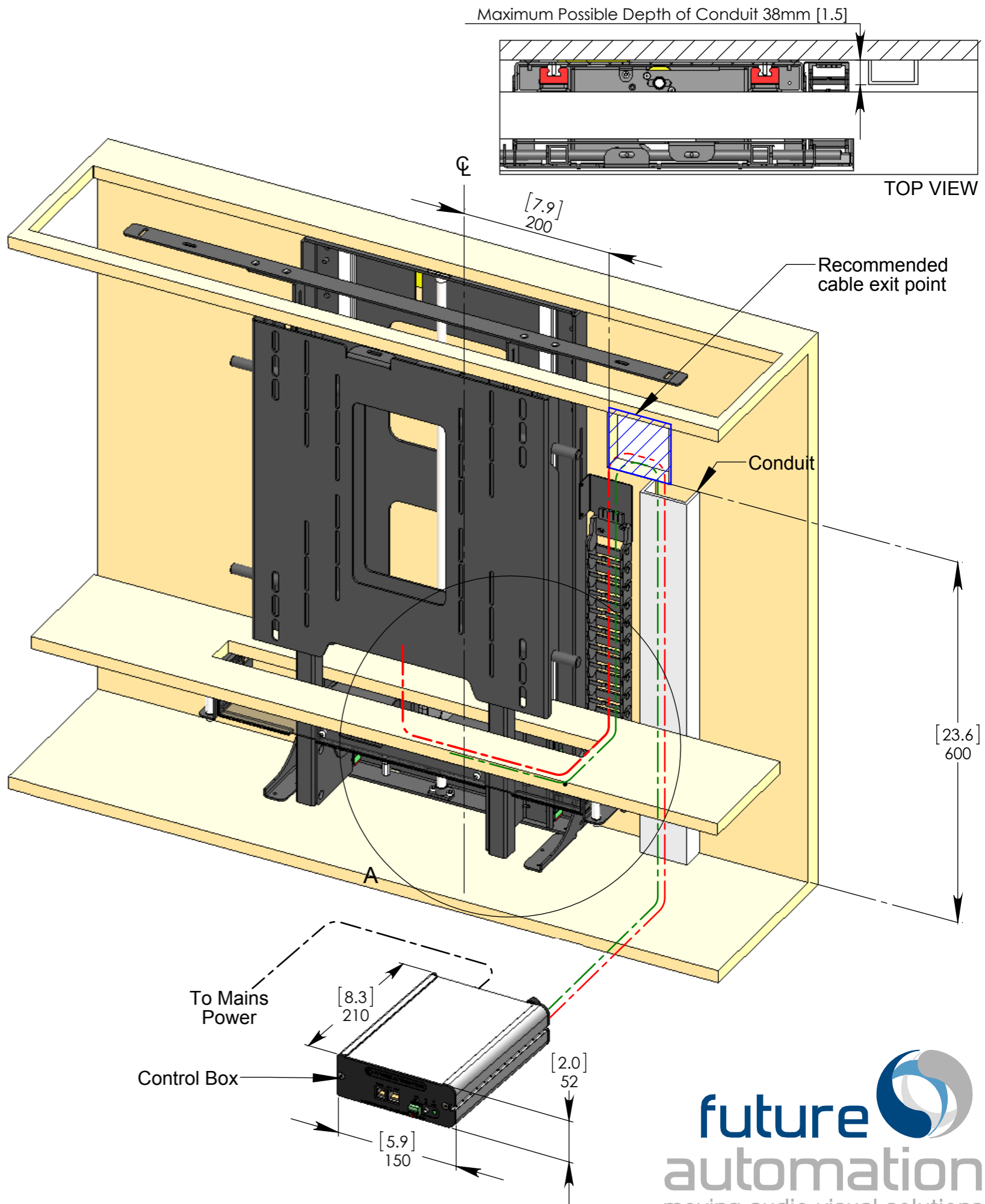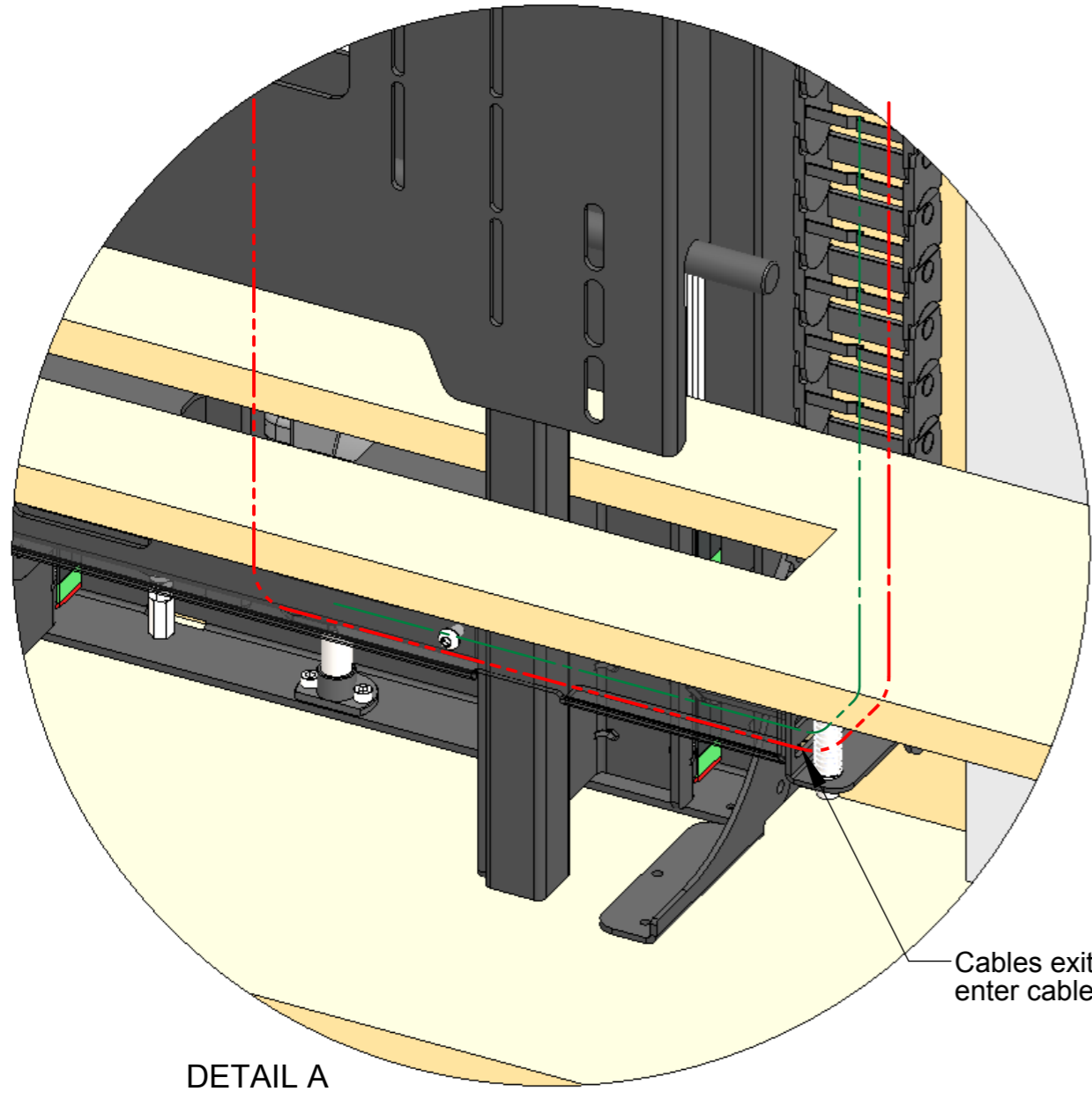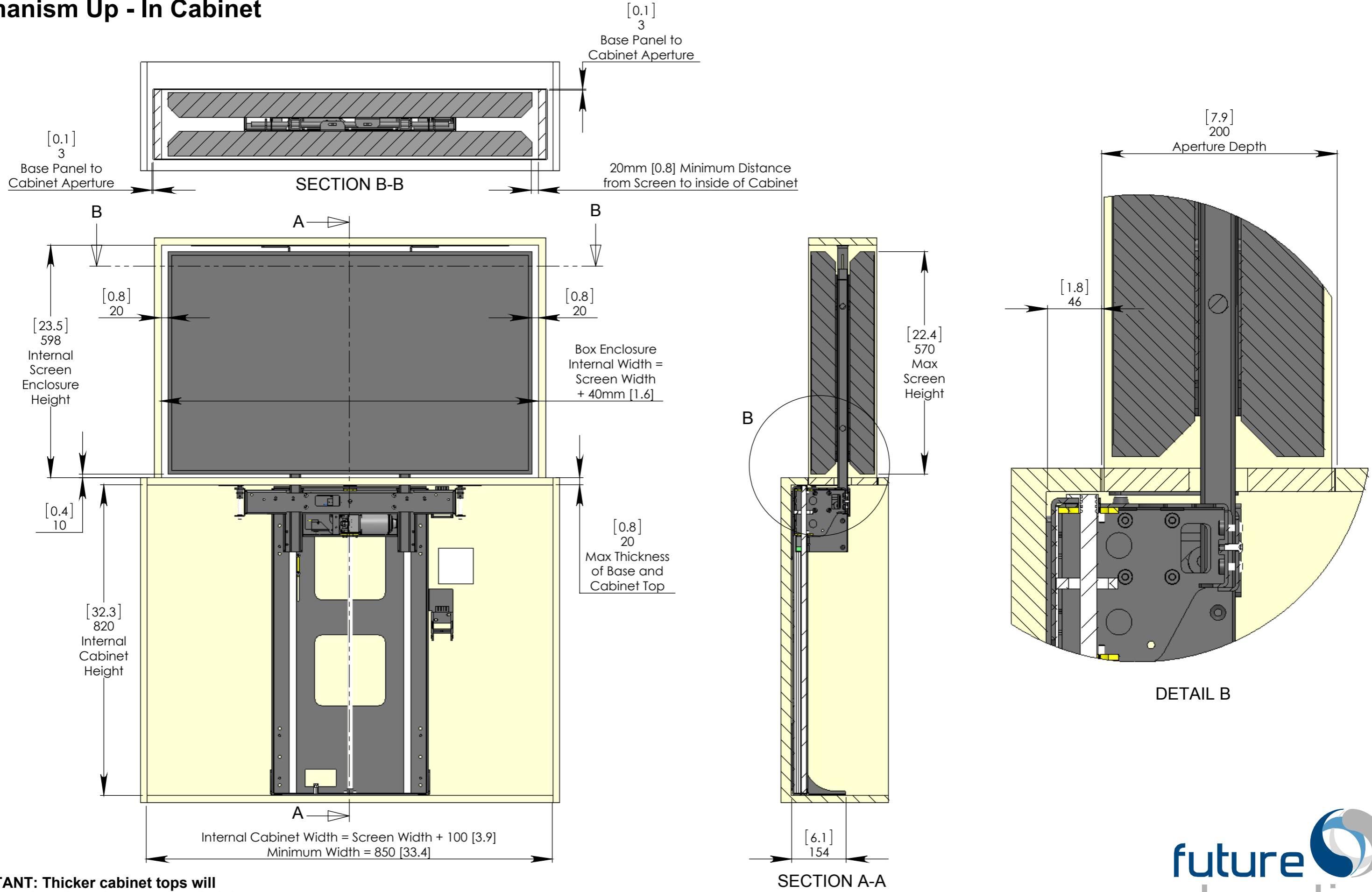moving audio visual solutions

Cable Routing

The Screen Enclosure Base Panel must have an opening in the centre for screen cables to travel through. Cables are routed through the lifting beam and into a cable management track. Cables must be routed carefully to prevent any interference with the Lmechanism 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

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

Recommended cable exit point

Conduit

$\begin{bmatrix} 23.6 \end{bmatrix}$
600

A

Cables exit beam and enter cable track

DETAIL A

To Mains Power

$\begin{bmatrix} 8.3 \end{bmatrix}$
210

$\begin{bmatrix} 2.0 \end{bmatrix}$
52

Control Box

$\begin{bmatrix} 5.9 \end{bmatrix}$
150

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Mechanism Up - In Cabinet

[0.1]
3
Base Panel to
Cabinet Aperture

[0.1]
3
Base Panel to
Cabinet Aperture

20mm [0.8] Minimum Distance
from Screen to inside of Cabinet

SECTION B-B

[7.9]
200
Aperture Depth

[1.8]
46

B

A

B

[0.8]
20

[0.8]
20

[23.5]
598
Internal
Screen
Enclosure
Height

[22.4]
570
Max
Screen
Height

Box Enclosure
Internal Width =
Screen Width
+ 40mm [1.6]

B

[0.4]
10

[0.8]
20
Max Thickness
of Base and
Cabinet Top

[32.3]
820
Internal
Cabinet
Height

A

DETAIL B

Internal Cabinet Width = Screen Width + 100 [3.9]
Minimum Width = 850 [33.4]

[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
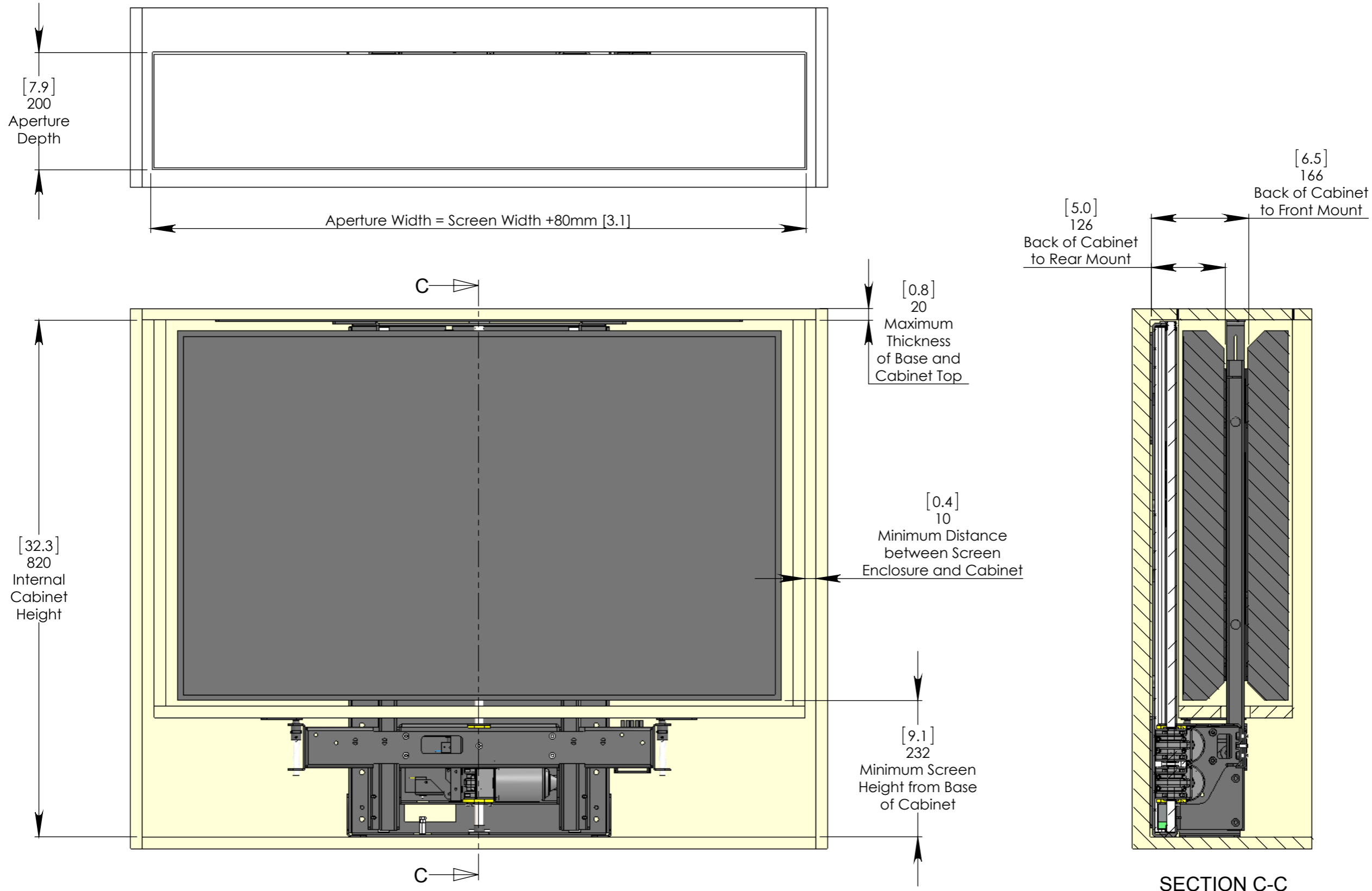
[7.9]
200
Aperture
Depth

Aperture Width = Screen Width +80mm [3.1]

C

[0.8]
20
Maximum
Thickness
of Base and
Cabinet Top

[32.3]
820
Internal
Cabinet
Height

[0.4]
10
Minimum Distance
between Screen
Enclosure and Cabinet

[9.1]
232
Minimum Screen
Height from Base
of Cabinet

C

[6.5]
166
Back of Cabinet
to Front Mount

[5.0]
126
Back of Cabinet
to Rear Mount

SECTION C-C

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

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Base Panel and Box Enclosure Lid Details

BOX ENCLOSURE LID - TOP VIEW

VIEWING SIDE

Screen Enclosure Lid Width = Cabinet Aperture Width - 6mm [0.25]

[0.8]
20

[7.6]
194
Lid Depth

BASE PANEL - TOP VIEW

[23.6]
600

Cutout for Screen Mount

[2.0]
50

VIEWING SIDE

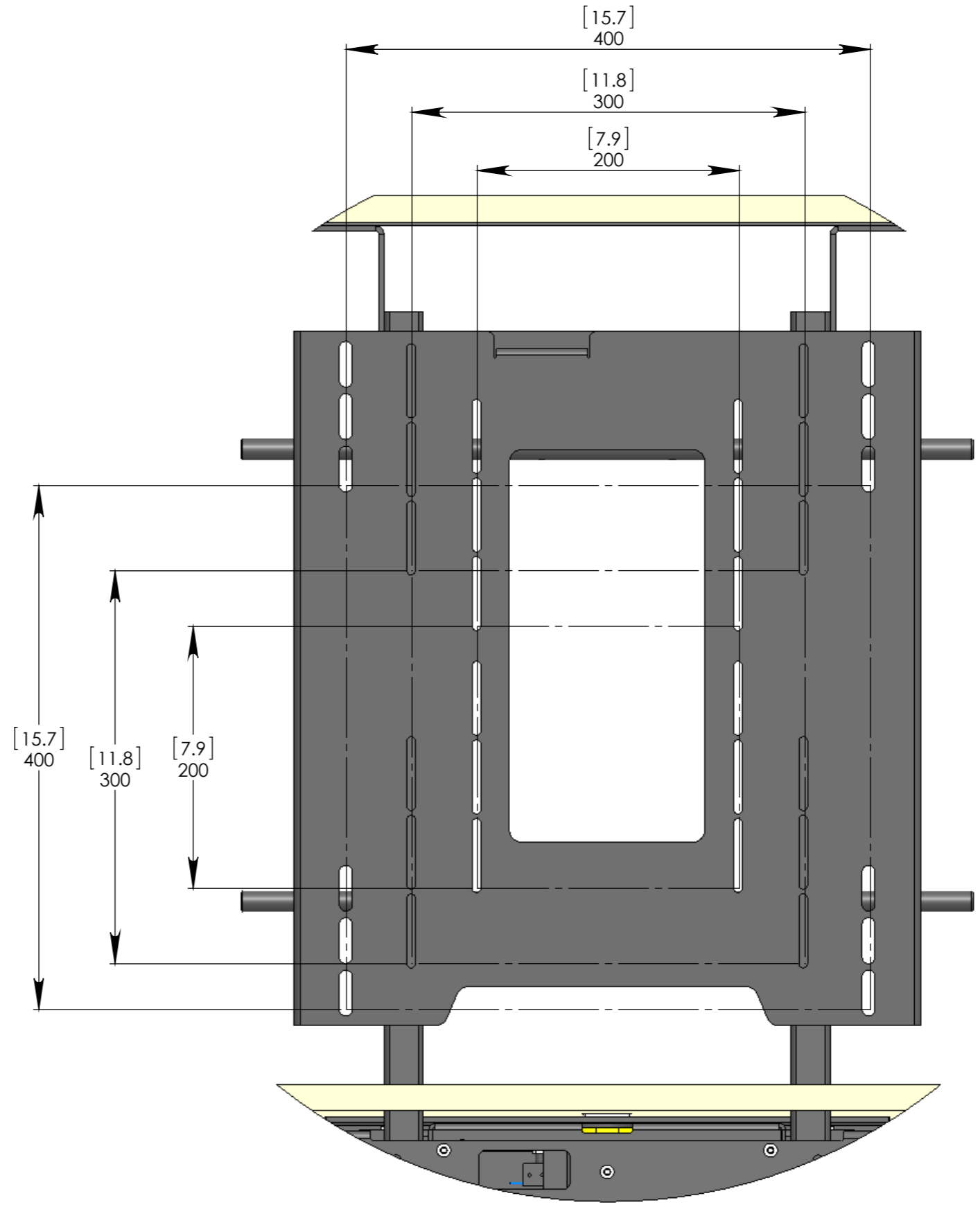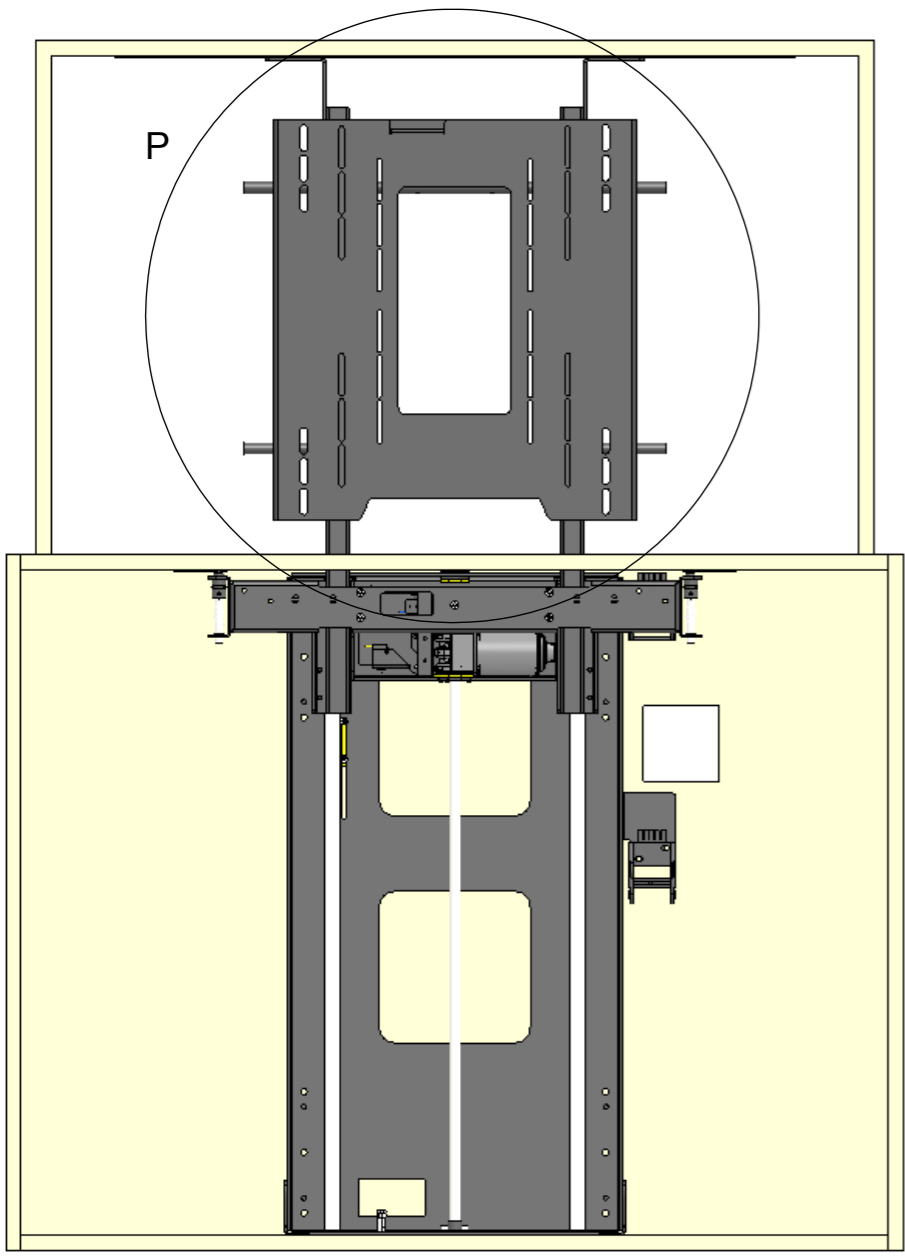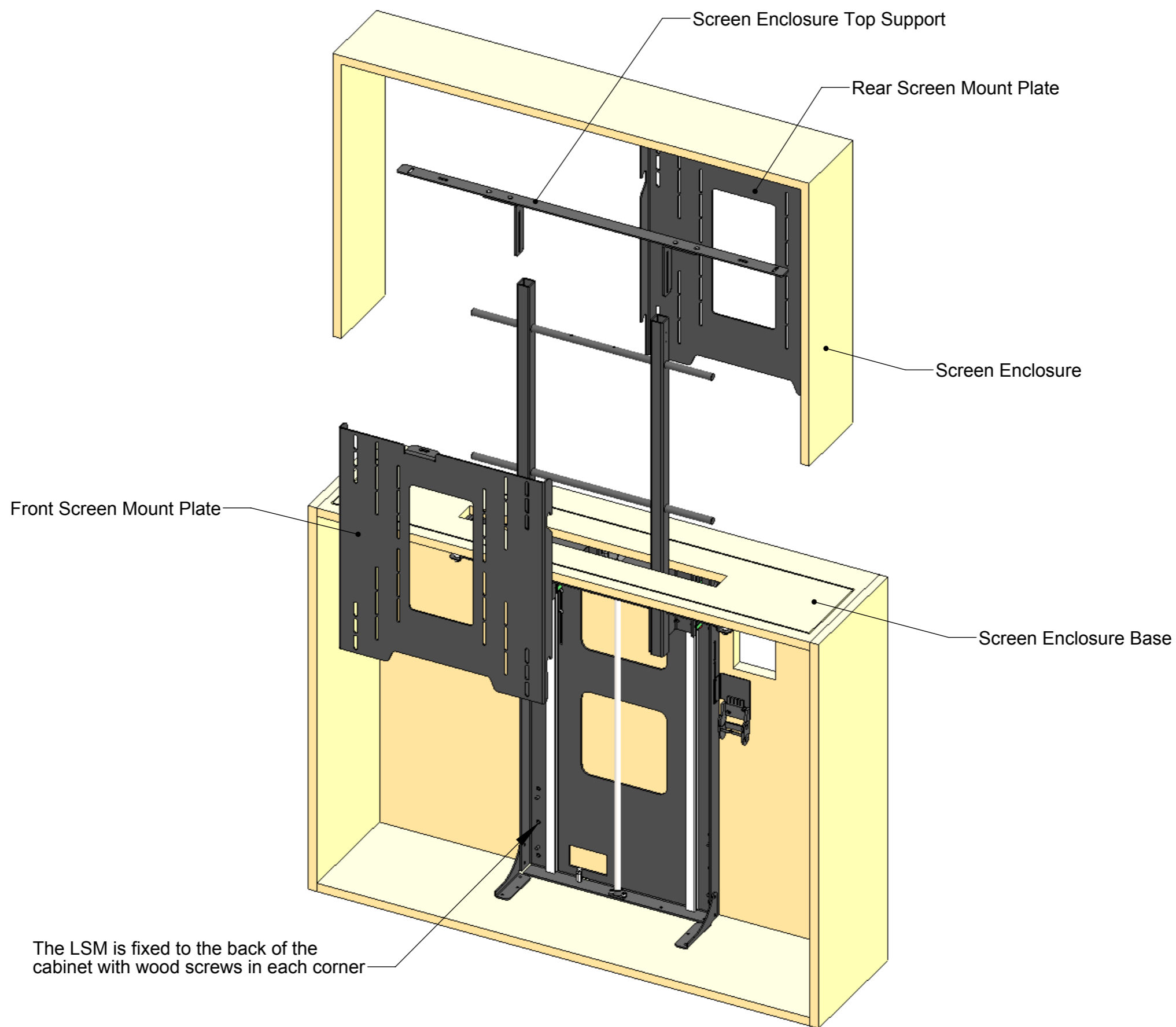Base Panel Width = Cabinet Aperture Width - 6mm [0.25]

[0.8]
20

[7.6]
194
Base Panel Depth
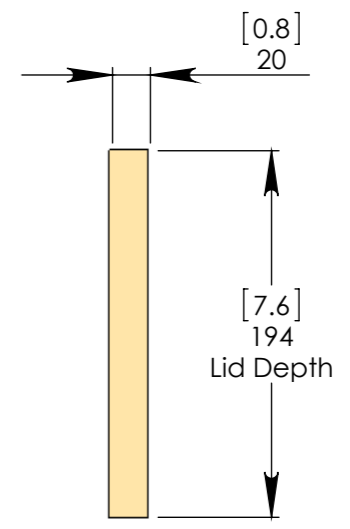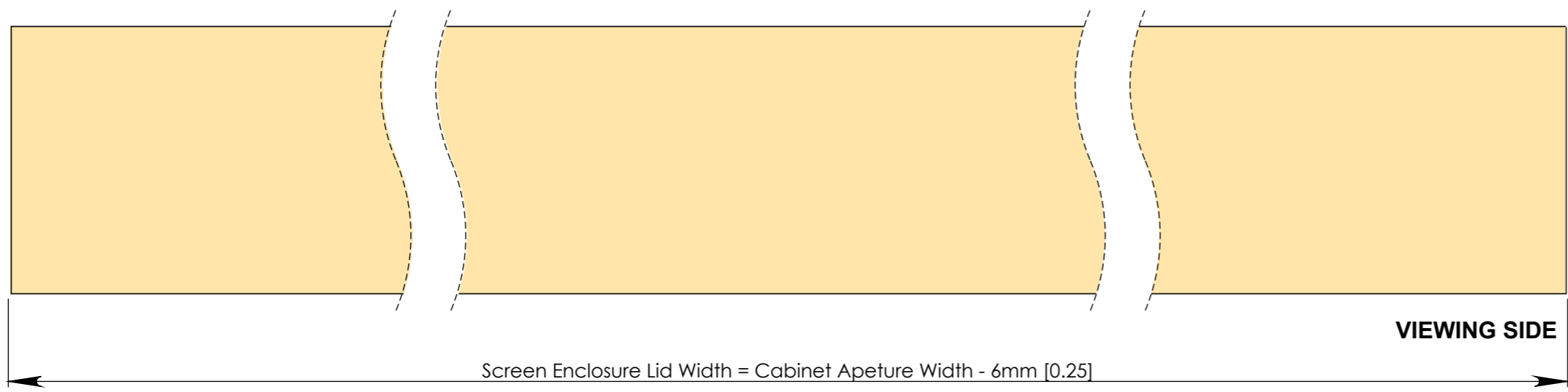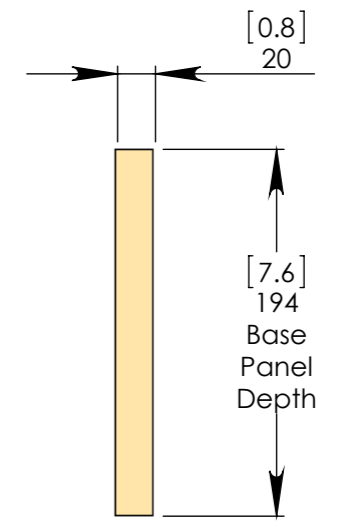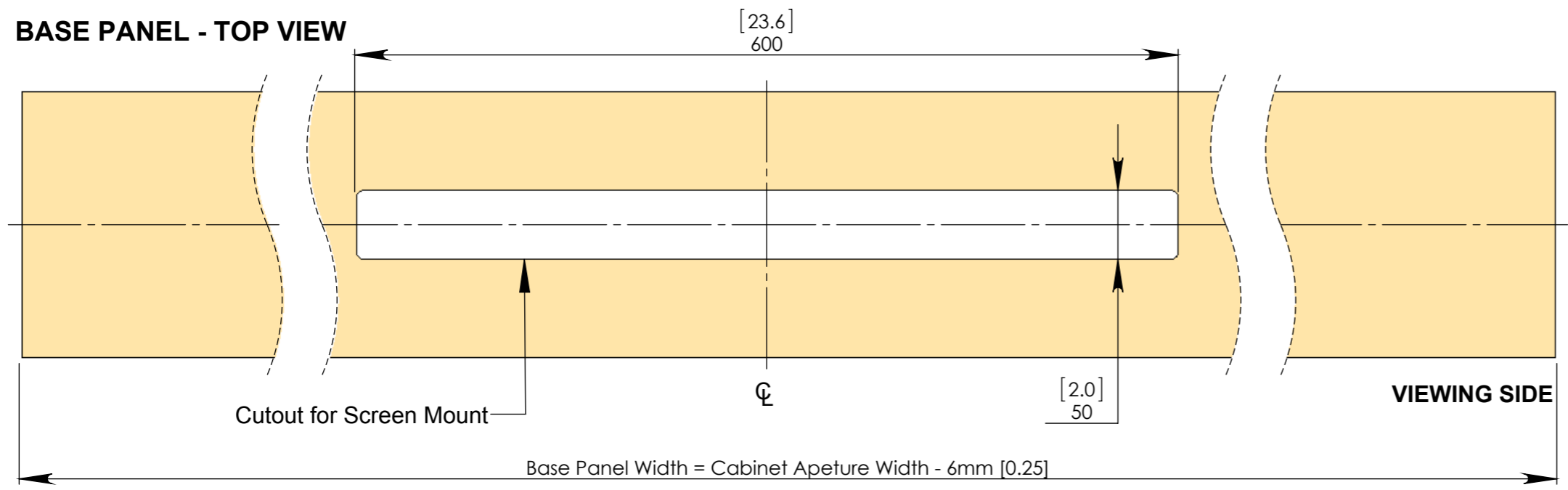
Screen Mount Adjustability

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

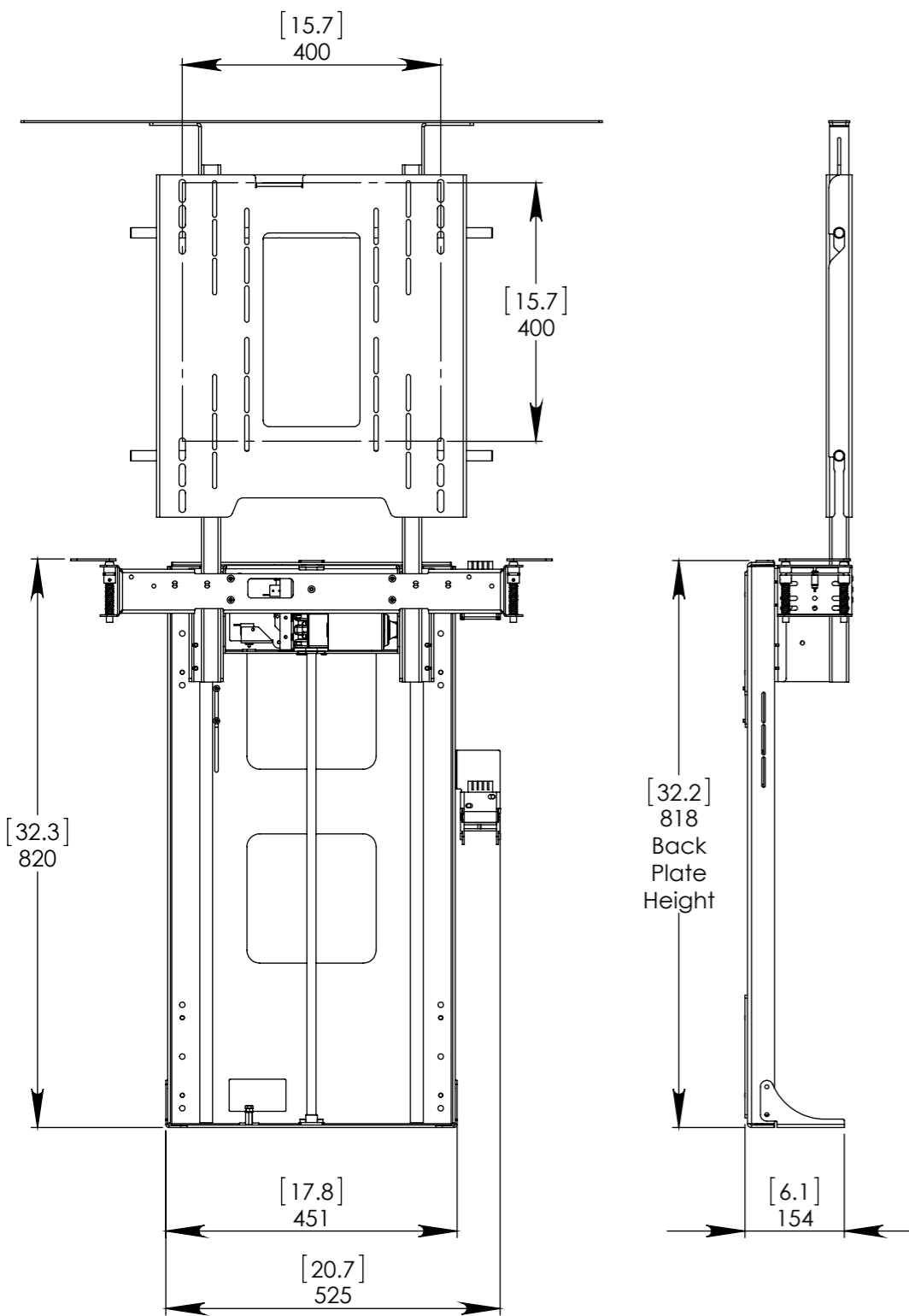$\left[\dfrac{15.7}{400}\right]$

$\left[\dfrac{11.8}{300}\right]$

$\left[\dfrac{7.9}{200}\right]$

$\left[\dfrac{15.7}{400}\right]$ $\left[\dfrac{11.8}{300}\right]$ $\left[\dfrac{7.9}{200}\right]$

P

DETAIL P

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Mechanism Installation Overview

Screen Enclosure Top Support

Rear Screen Mount Plate

Screen Enclosure

Front Screen Mount Plate

Screen Enclosure Base

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

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Overall Mechanism Dimensions

MECHANISM - UP POSITION

[15.7]
400

[15.7]
400

[32.3]
820

[17.8]
451

[20.7]
525

[32.2]
818
Back
Plate
Height

[6.1]
154

MECHANISM - DOWN POSITION

[29.3]
745

[6.5]
165

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