SERIES: SAM-IER-F
INSTALLATION GUIDE

Convergent Series Video Wall Mount
For Samsung IER-F Cabinets
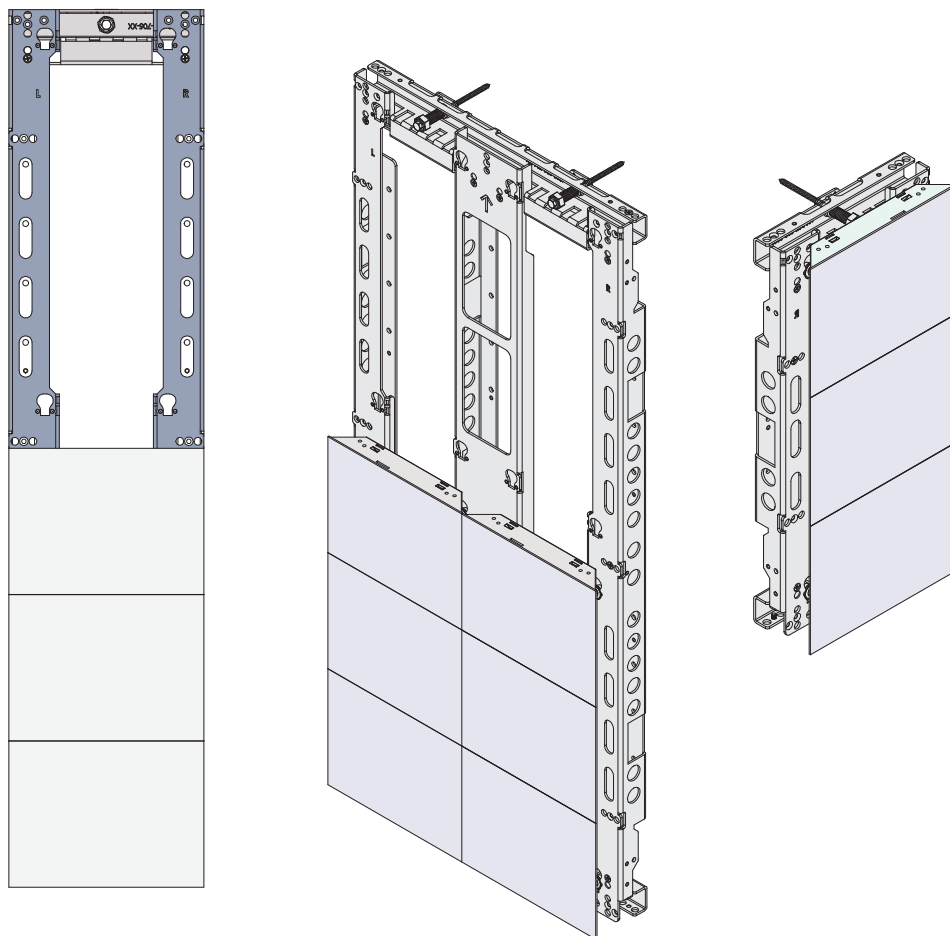
SAMSUNG IER-F

CAUTION STATEMENTS

1. READ ALL STEPS WITHIN THIS MANUAL BEFORE INSTALLING THE MOUNT. **SAMSUNG IER-F LED SERIES INSTALLATION GUIDE** MUST BE READ IN CONJUNCTION FOR SUCCESSFUL INSTALLATION. ANY QUESTIONS? CALL PREMIER MOUNTS.
2. INSTALLATION MUST MEETS THE REQUIREMENTS APPROVED BY THE STRUCTURAL ENGINEER.
3. FRAME MUST BE PLUMBED, SQUARED, LEVELED, X, Y, AND Z ALIGNED PRIOR TO INSTALLATION OF ANY DISPLAYS.
4. ALL LED CABINETS MUST BE **POWER ON TESTED** PRIOR TO ANY INSTALLATION.
5. PREMIER MOUNTS RECOMMENDS THE HANDLING LED CABINETS BY AN INDUSTRY QUALIFIED PROFESSIONAL.
6. PREMIER MOUNTS IS NOT RESPONSIBLE FOR DEFECTS, MISUSE, OR IMPROPER HANDLING OF THE LED CABINETS.

Tools for Installation:

LASER

Anti-Static Gloves

Spool of colored strings
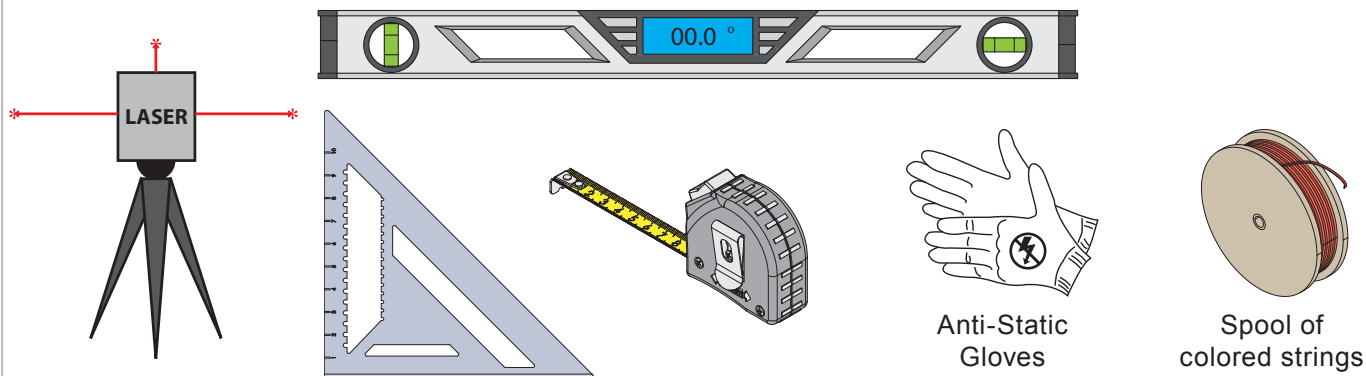
WALL REQUIREMENTS:

Solid or continuous plywood backing with a **min of 3/4" thickness**, sound and secured to handle the total combined weight of the mount and LED cabinets.
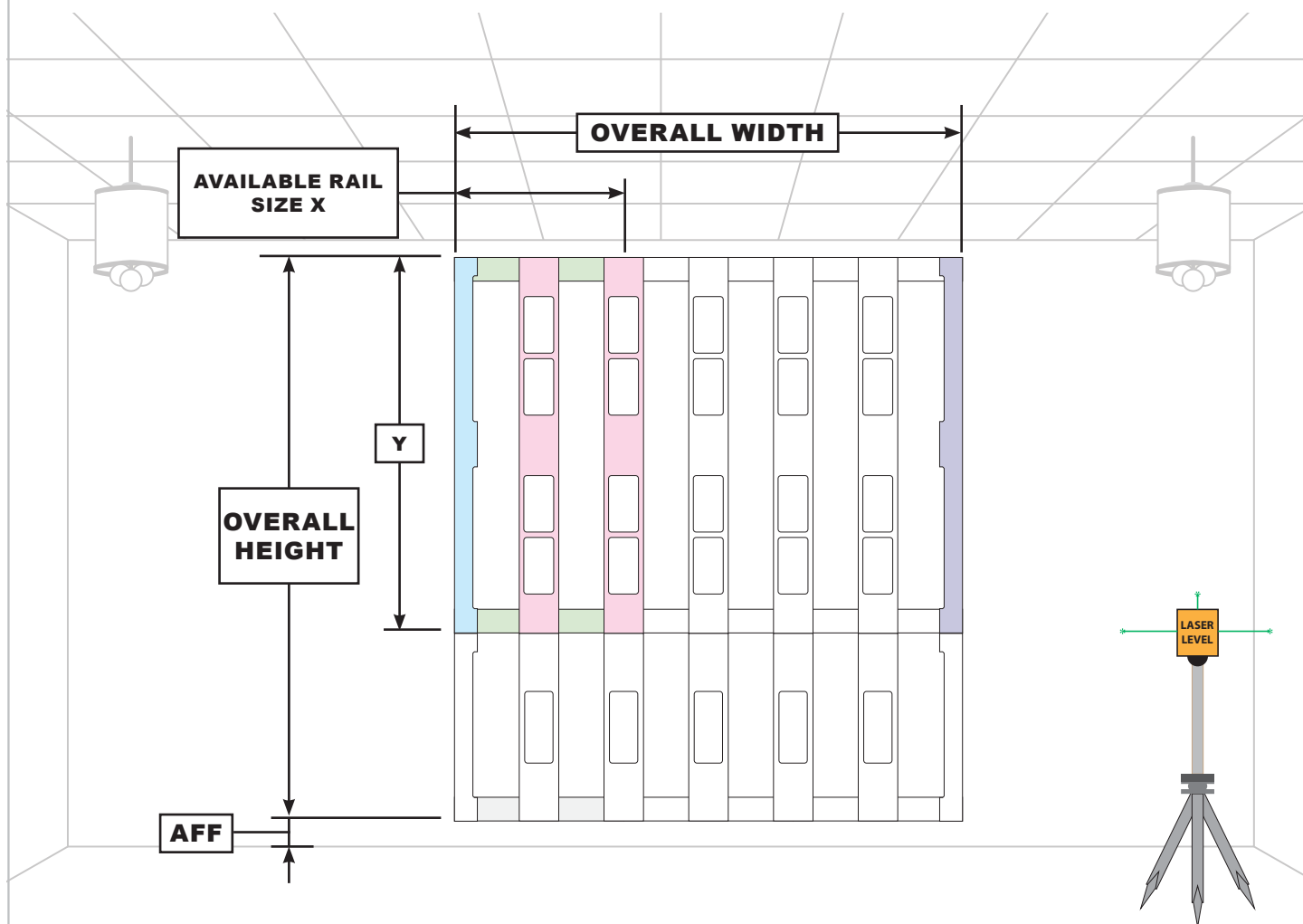
MAX FLATNESS ADJUSTMENT

±1/2" or 1" max adjustment range for flatness of wall, over the entire wall surface

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VIDEO WALL DIMENSIONS AND MOUNTING LOCATIONS

	Available Size	Imperial (Inches)	Metric (Milimeters)
X	1 Wide	9.45	240
	2 Wide	18.9	480
Y	1 High	21.26	540
	2 High	42.52	1080
	3 High	63.78	1620

The overall dimensions of any video wall array can be calculated by using the table within this page.

The desired array size is a **combination** of available sizes. Add the available sizes together to find the overall width or height of a given array.

For modular configuration, any combination of the rails does not affect the overall dimension of the mount.

Example: an 2X4 is 18.9" x 42.52", and 4X8 is 37.8" x 85.04"

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| ITEM #.	PART NO.	DESCRIPTION
1	4000-300-705-LX	Horizontal Rail 1H
2	4000-300-706-LX	Horizontal Rail 2H
3	4000-300-781-LX	Left Vertical Rail 1V
4	4000-300-771-LX	Center Vertical Rail 1V
5	4000-300-791LX	Right Vertical Rail 1V
6	4000-300-782-LX	Left Vertical Rail 2V
7	4000-300-772-LX	Center Vertical Rail 2V
8	4000-300-792-LX	Right Vertical Rail 2V
9	4000-300-783-LX	Left Vertical Rail 3V
10	4000-300-773-LX	Center Vertical Rail 3V
11	4000-300-793-LX	Right Vertical Rail 3V

1 HIGH

3   4   5

2 HIGH

6   7   8

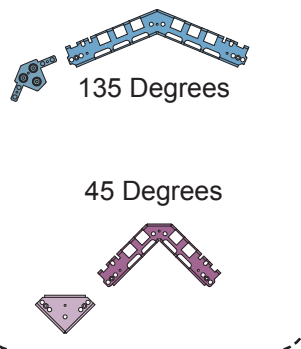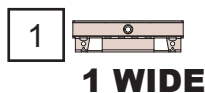## 3 HIGH

9   10   11

AVAILABLE SIZES

1   1 WIDE

2   2 WIDE

135 Degrees
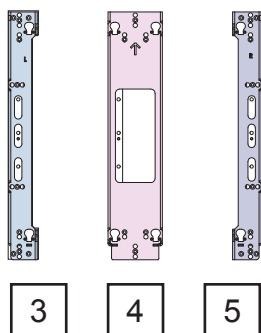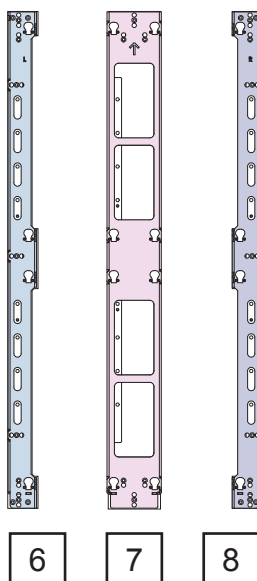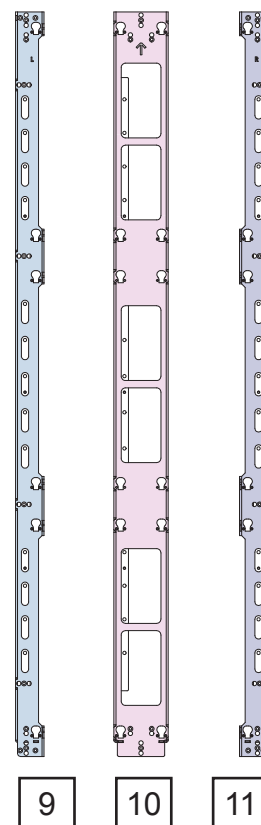
45 Degrees
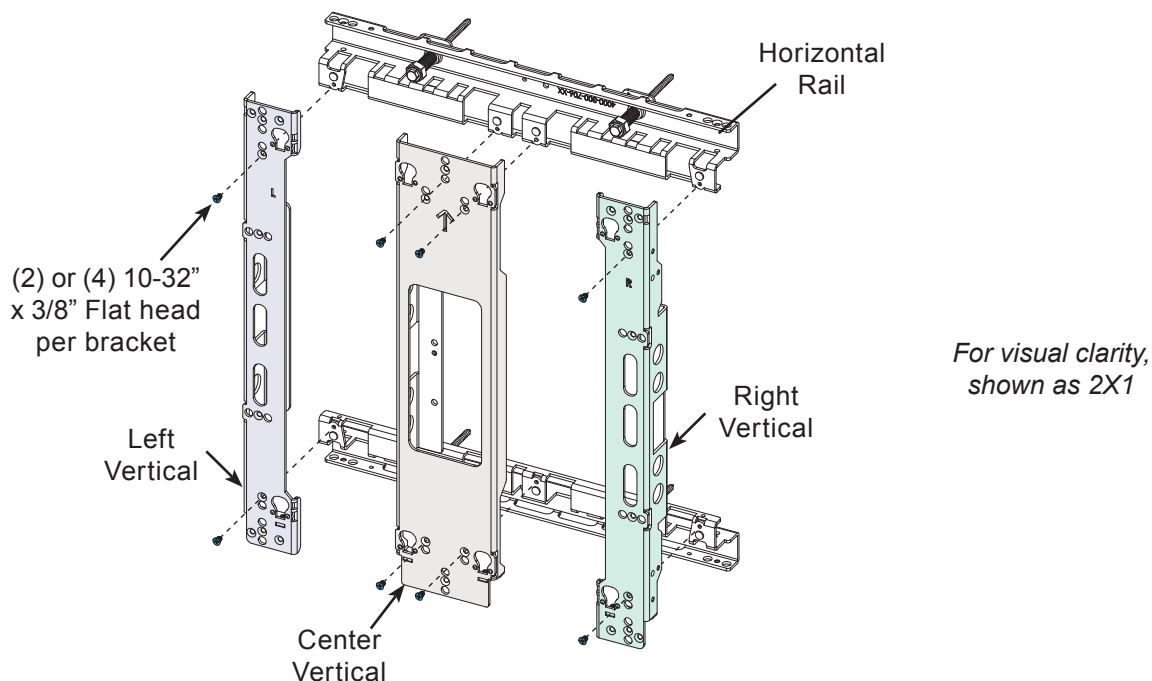
Angular Rail Brackets with attachment brackets are available upon request.
Contact with a sales represenitve for detail.

premiermounts.com | p. 800.368.9700 | e. orders@premiermounts.com

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1 ASSEMBLE THE FRAME

Horizontal Rail

(2) or (4) 10-32"
x 3/8" Flat head
per bracket

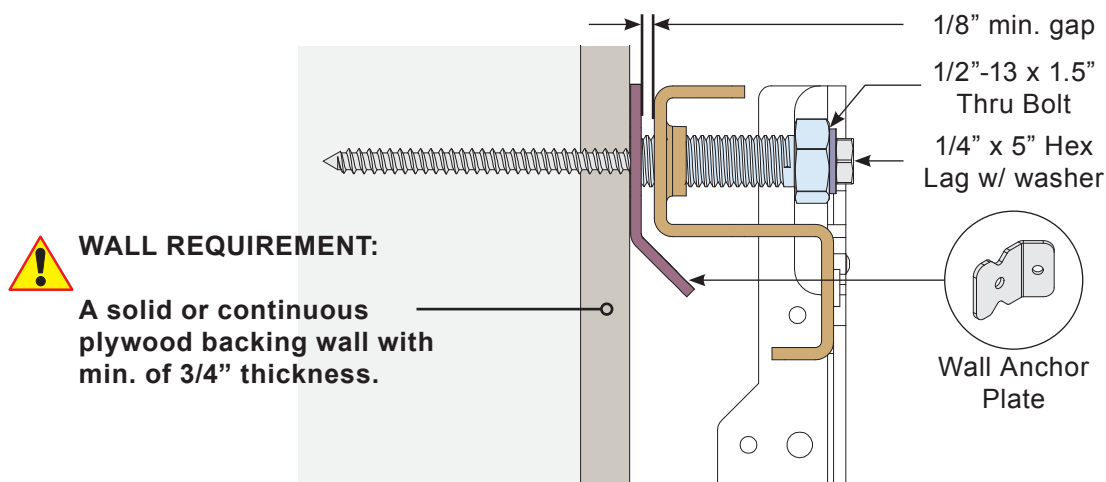*For visual clarity,
shown as 2X1*

Left Vertical

Right Vertical

Center Vertical

Shown as a single unit configuration (bracket size and array size are the same). **If** the array size is greater than the bracket size, mutiple rail brackets are used to extend to the desired array size (see page 8-9 for detail).

2 MOUNTING SURFACE INFORMATION

1/8" min. gap

1/2"-13 x 1.5"
Thru Bolt

1/4" x 5" Hex
Lag w/ washer

WALL REQUIREMENT:

A solid or continuous plywood backing wall with min. of 3/4" thickness.

Wall Anchor Plate

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3

1. Install a few support screws to hold the mount roughly near the desired location.
2. Place a level on top of the mount and readjust the support screws if necessary.
3. Secure the first mounting location by sliding a Wall Anchor Plate behind the mount and fasten using 1/4" x 5" Hex Lag and 1/4" Washer.
4. Maintain a 1/8" minimum gap from the anchor plate and rail bracket when anchoring.
5. Install the remaining mounting locations while keeping the mount leveled.

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LASER / LEVEL

Bolted

L

R

Support Screws (temporary)
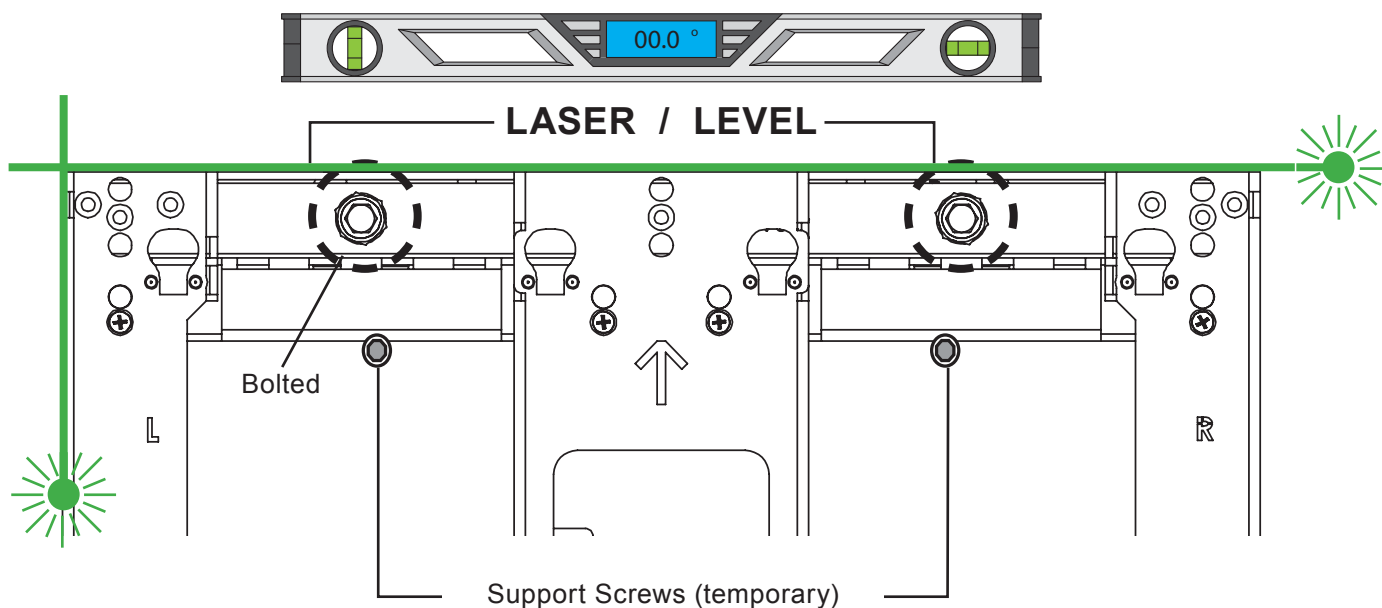
4

⚠ **The frame must be fully squared and leveled prior to final mounting location. See step 9-10 for additional detail.**

Do Not Anchor Prior to Final Mounting Location
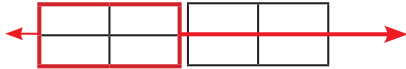
PM PREMIER MOUNTS

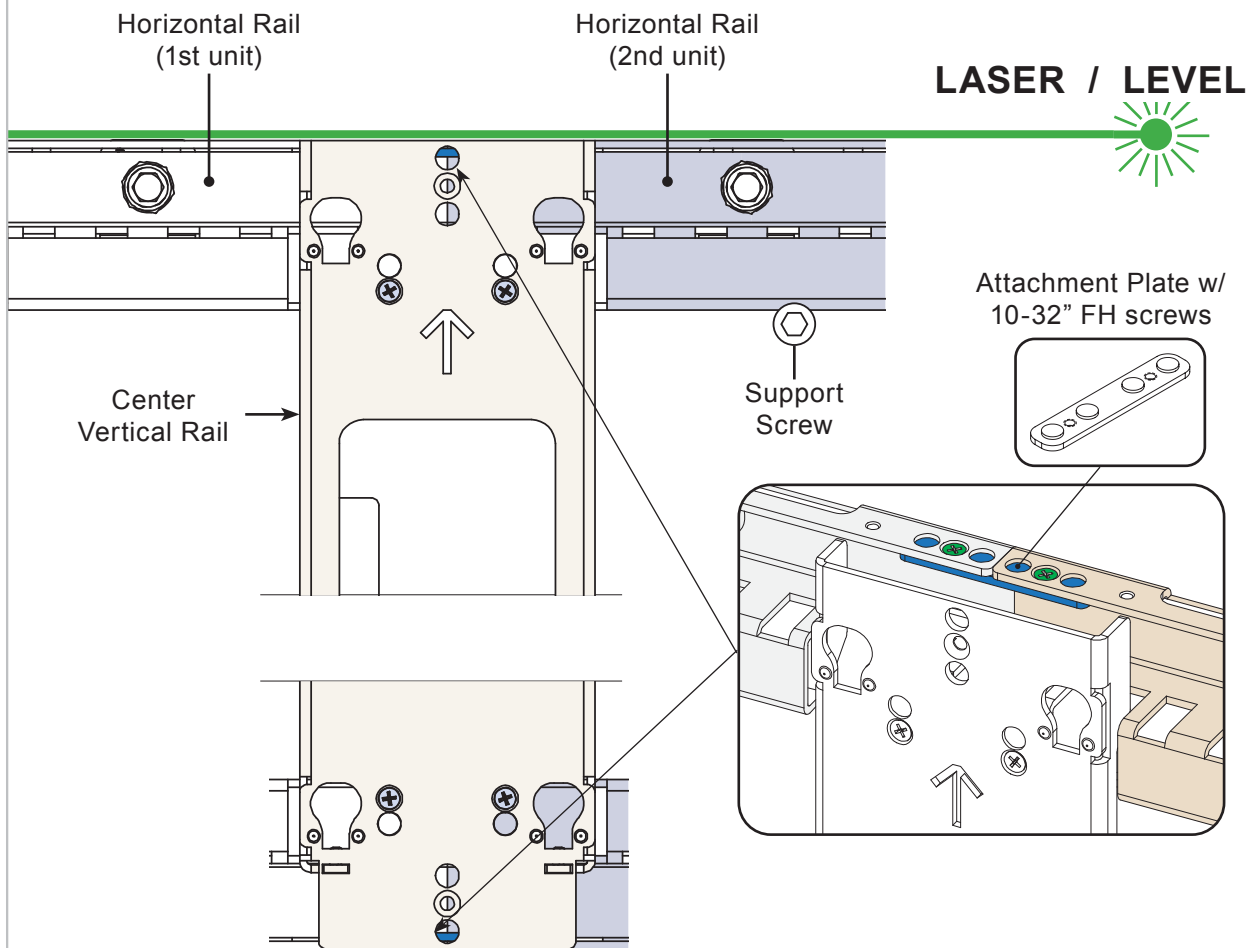# SAMSUNG IER-F
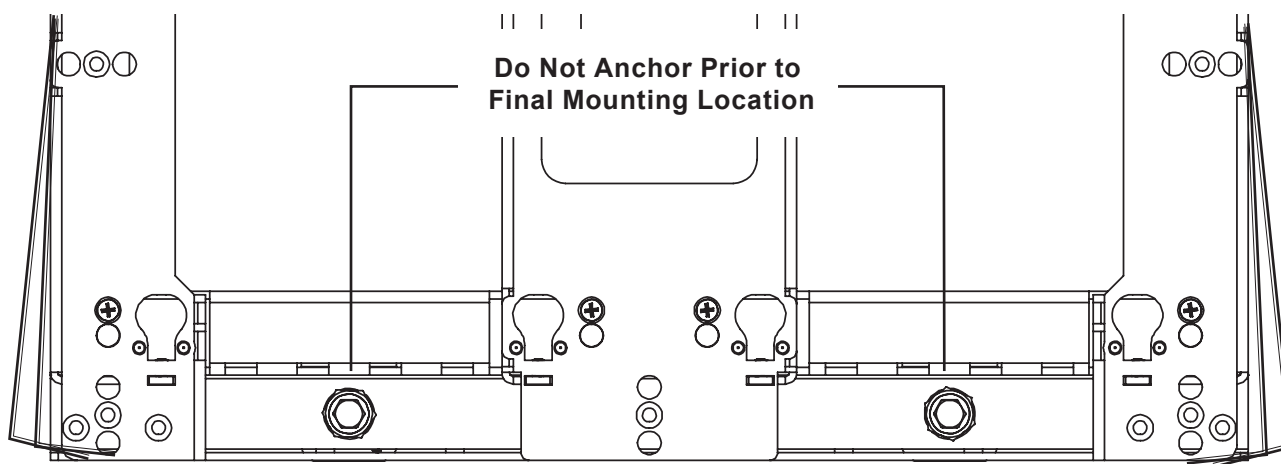
Multiple Unit Configuration

5

Extend Horizontally

To extend the width of the unit, follow the steps below.

1. Hang and position the second Horizontal Rail side by side.
2. Place a support screw while maintaining a leveled horizontal rail to temporary hold in place.
3. Connect each Horizontal rail brackets together using (1) Attachment Plate and (2) 10-32" x 3/8" Flat Head Screw as shown below.
4. Center Vertical Rail Brackets are installed between two horizontal brackets, while the Left and Right Vertical are always mounted at far most side of the mount.
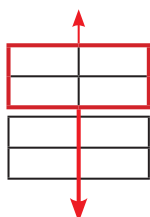
Horizontal Rail
(1st unit)

Horizontal Rail
(2nd unit)

LASER / LEVEL

Attachment Plate w/
10-32" FH screws

Center
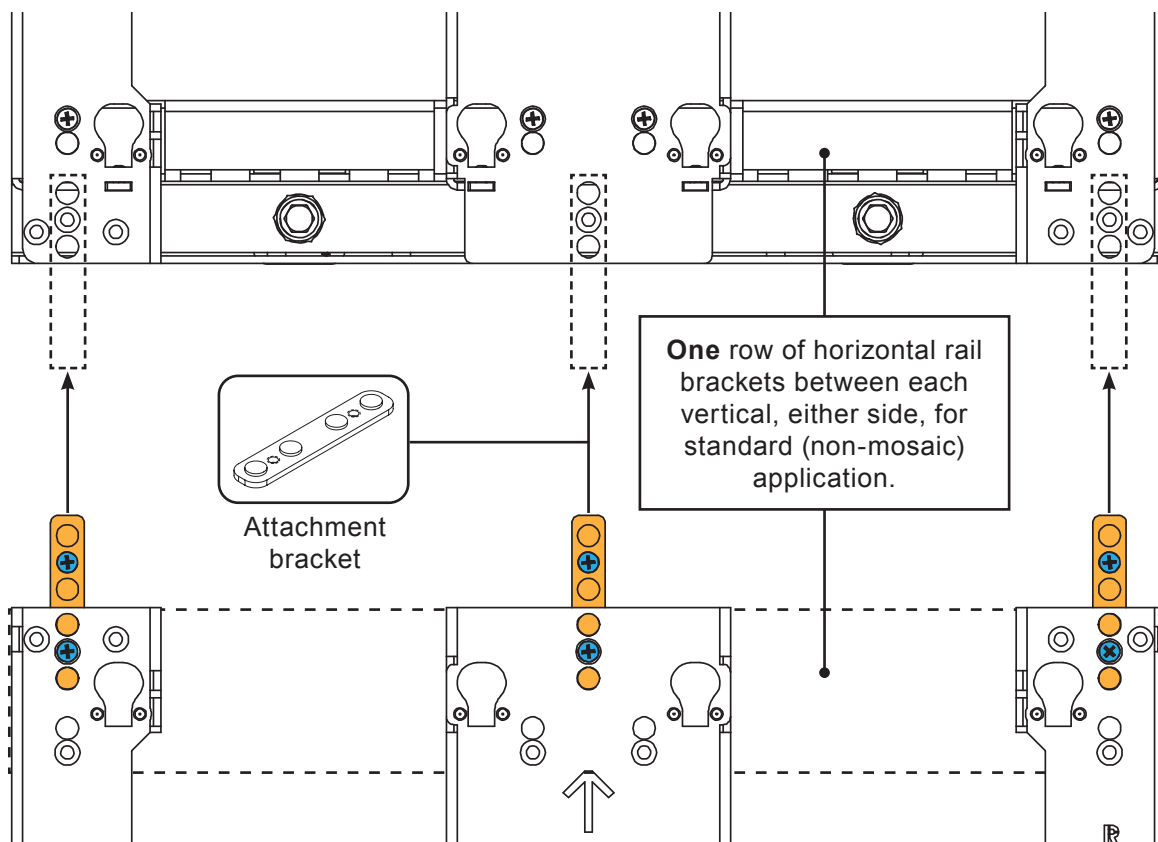Vertical Rail

Support
Screw

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6 ## Extend Vertically

To extend the height of the unit, follow the steps below.

1. Use multiple Attachment Plate and fasten using (2) 10-32" x 3/8" Flat Head Screw per rail bracket.
2. When attaching the another section vertically, only one row of horizontals are required, on either side.
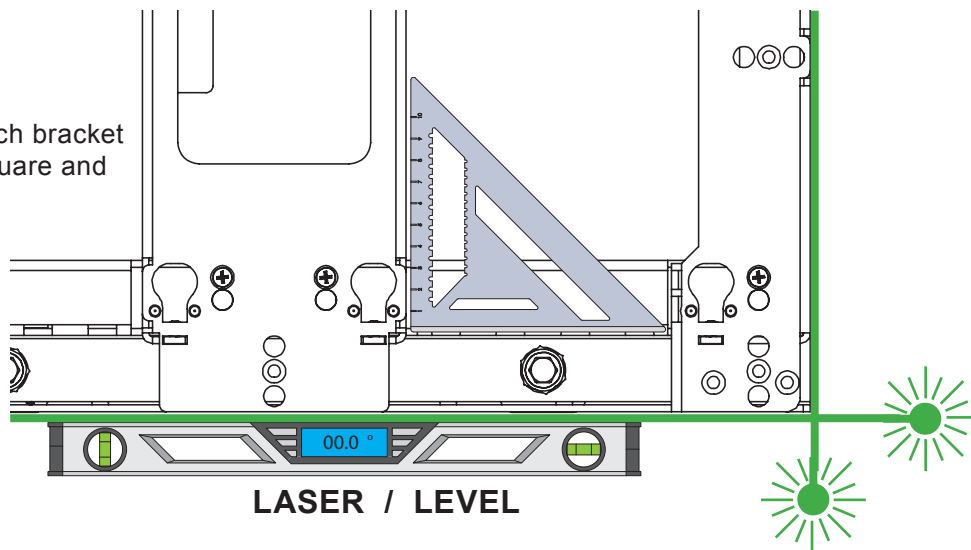
Attachment bracket

One row of horizontal rail brackets between each vertical, either side, for standard (non-mosaic) application.

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SQUARE AND LEVEL

Inspect each bracket using a Square and Level tool.
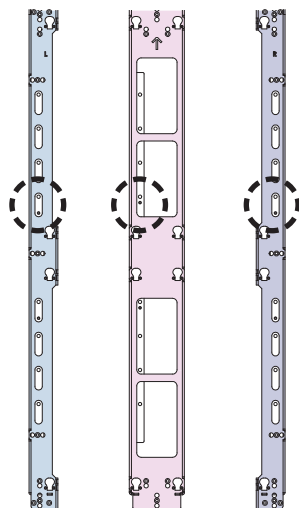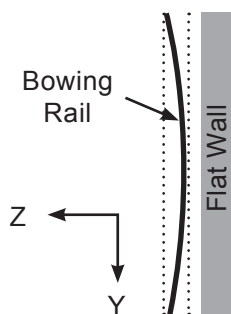
LASER / LEVEL
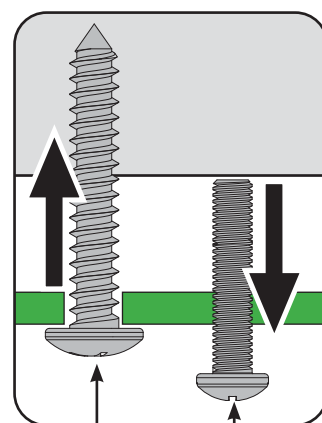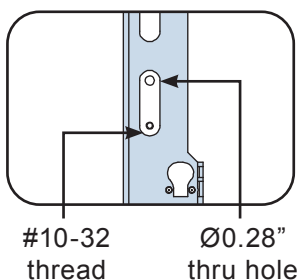
`00.0 °`

8

FINETUNE THE RAIL FOR FLATNESS

1. Install wherever possible.
2. Use drywall or wood screws to pull the brackets towards the wall.
3. Use supplied M5 x 20mm Pan screw to push the brackets against the wall.
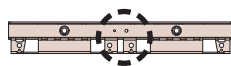
Finetuning holes for reference

Bowing Rail

Flat Wall

Z

Y

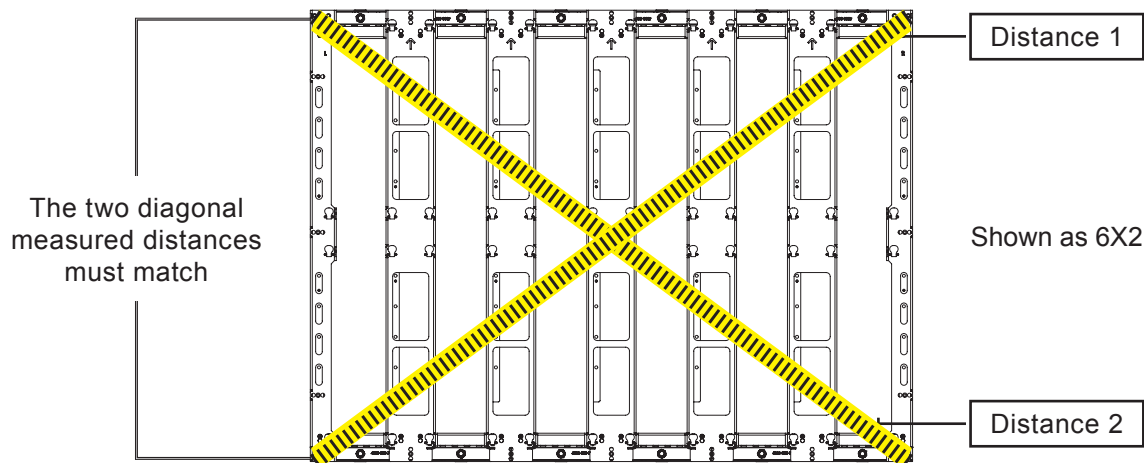#10-32 thread

Ø0.28" thru hole

Shown using 2 High Vertical Rail

Towards the wall

Against the wall

PREMIER MOUNTS

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9

VERY IMPORTANT!
VERIFYING THE DIAGONAL MEASUREMENTS FOR SQUARENESS

Distance 1

The two diagonal measured distances must match

Shown as 6X2

Distance 2

1. Measure the distance from corner to corner with a measuring tape.
2. Measure diagonally opposite and verify the diagonal measurements.
3. Proceed only if the two measurements are equivalent.

10

BOLT THE LOWER MOUNTING POINT

Secure the lower mounting location by sliding a Wall Anchor Plate behind the mount and bolt using 1/4" x 5" Hex Lag with 1/4" Washer.
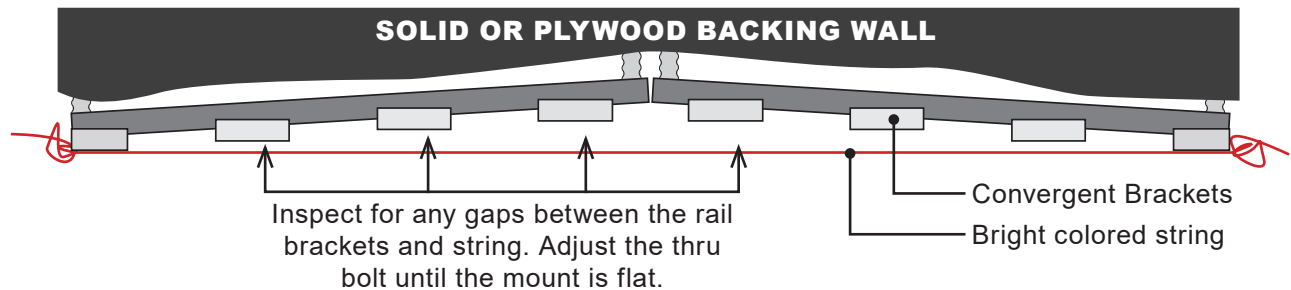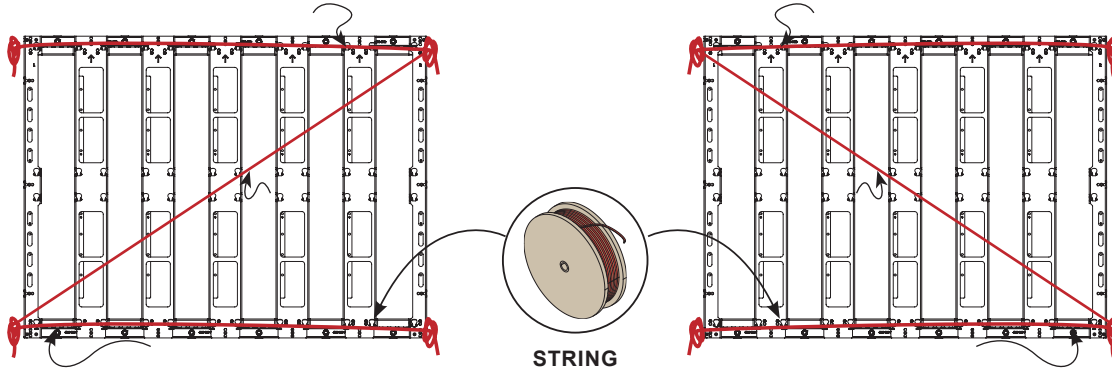

INSTALL THE LOWER MOUNTING LOCATIONS

REMINDER
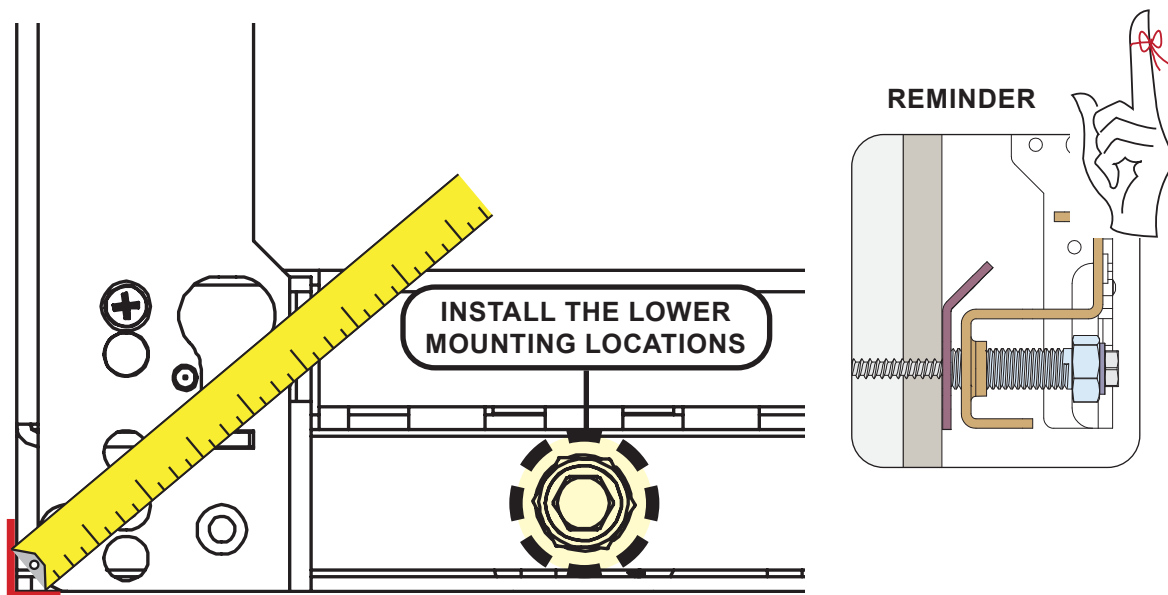
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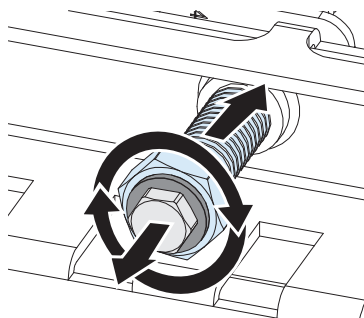## VERIFYING THE MOUNT FOR FLATNESS

1. Tie a string from one end to the other end of the entire array.
2. Tie horizontally and crisscross, especially for large video wall array.
3. Inspect for any gaps between the brackets and the string.
4. Adjust any neccessary mounting location.

STRING

SOLID OR PLYWOOD BACKING WALL

Inspect for any gaps between the rail brackets and string. Adjust the thru bolt until the mount is flat.

— Convergent Brackets
— Bright colored string

FLATNESS ADJUSTMENT

±1/2" or 1" max adjustment range for **flatness**.

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SAMSUNG IER-F LED DISPLAY INSTALLATION MANUAL must be read in conjunction with the recommended steps below. LED Cabinets to be handled by industry qualified professional. Improper installation may cause damage to the LEDs.

1. Mount the LED Cabinets via keyhole mounting starting from bottom row, left to right, then the remaining upper rows.
2. Proceed after all cabinets are fully seated.
3. Use M5 x 10mm set screws (located at the bottom of the verticals) to push the cabinets closer together, closing the gap.

Use M5 x 10mm set screws to push the cabinet closer together. Shown without cabinet for visual clairty.
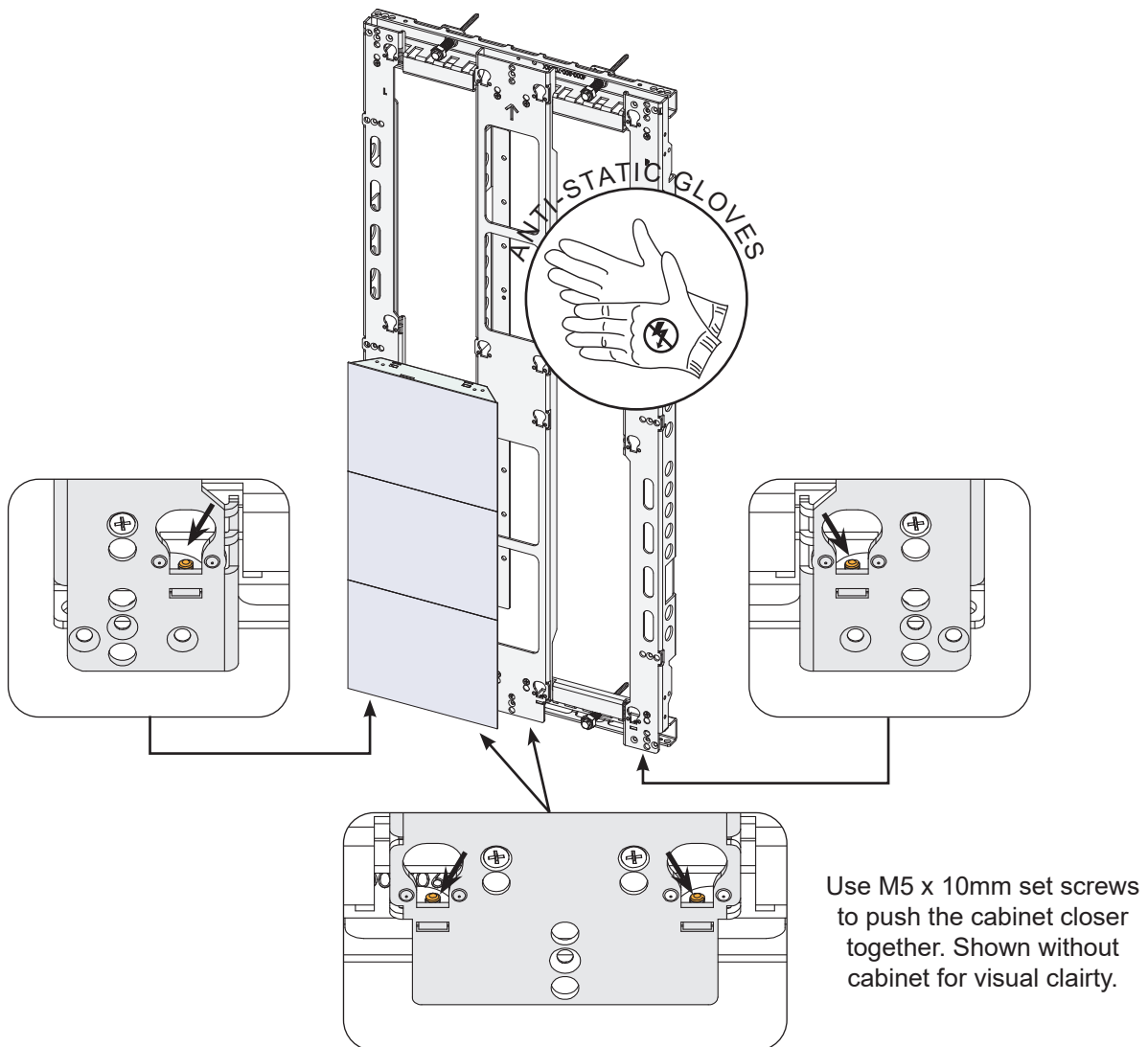
Single unit configuration, 2 Wide by 2 High Video Wall, shown for clarity.