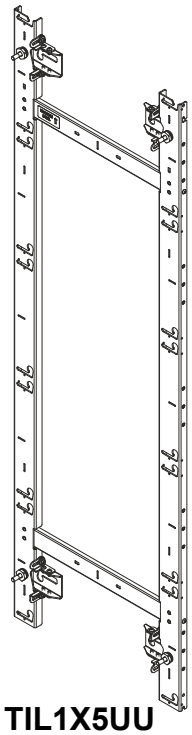
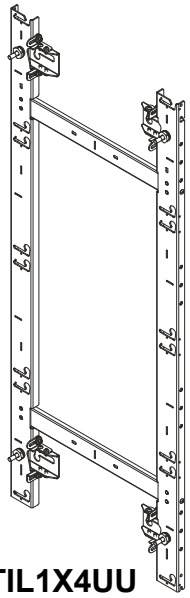
INSTALLATION INSTRUCTIONS



TIL1X5UU



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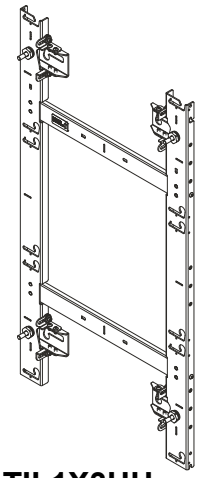

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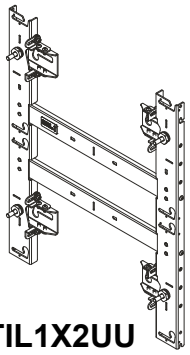

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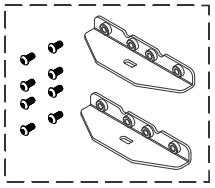

TILVABUU
Accessory

UU Series LED Wall Mounts / Accessory

CHIEF®

A brand of legrand®

TIL1X2UU / TIL1X3UU / TIL1X4UU / TIL1X5UU /TILVABUU

DISCLAIMER

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DEFINITIONS

MOUNTING SYSTEM: A MOUNTING SYSTEM is the primary Chief product to which an accessory and/or component is attached.

ACCESSORY: AN ACCESSORY is the secondary Chief product which is attached to a primary Chief product, and may have a component attached or setting on it.

COMPONENT: A COMPONENT is an audiovisual item designed to be attached or resting on an accessory or mounting system such as a video camera, CPU, screen, display, projector, etc.

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer’s responsibility to make sure all mounting systems are properly assembled and installed using the instructions provided.

WARNING: Failure to provide adequate structural strength for this mounting system can result in serious personal injury or damage to equipment! It is the installer’s responsibility to make sure the structure to which this mounting system is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the mounting system. The wall to which the mounting system is being attached may have a maximum drywall thickness of 5/8” (1.6cm).

WARNING: The TIL1X2UU / TIL1X3UU / TIL1X4UU LED wall mounts are designed for use with the Unilumins Upanel S and Barco XT Series LED only. Exceeding the weight capacity (listed) can result in serious personal injury or damage to equipment!

- TIL1X2UU: 40 lbs (18.1 kg) - 20 lbs (9.1 kg) per screen;
- TIL1X3UU: 60 lbs (27.2 kg) - 20 lbs (9.1 kg) per screen;
- TIL1X4UU: 80 lbs (36.3 kg) - 20 lbs (9.1 kg) per screen.
- TIL1X5UU: 100 lbs (45.3 kg) - 20 lbs (9.1 kg) per screen.

WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

WARNING: Do not use this mounting system outdoors.

IMPORTANT ! : The TIL1X2UU / TIL1X3UU /TIL1X4UU / TIL1X5UU (Unilumins Upanel S and Barco XT Series) LED wall mounts are designed to be mounted to:

- a bare 8" concrete or 8"x8"x16" concrete block wall; or
- a 3/4" thickness plywood-backed, 2" x 4" wood studs (16" on center minimum) wall with a maximum drywall thickness of 5/8"; or
- a 3/4" thickness plywood-backed, steel stud wall covered with drywall having a maximum thickness of 5/8".

--SAVE THESE INSTRUCTIONS--

LEGEND

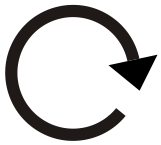
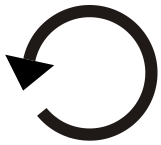
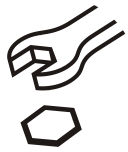
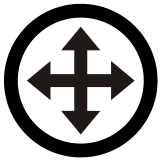
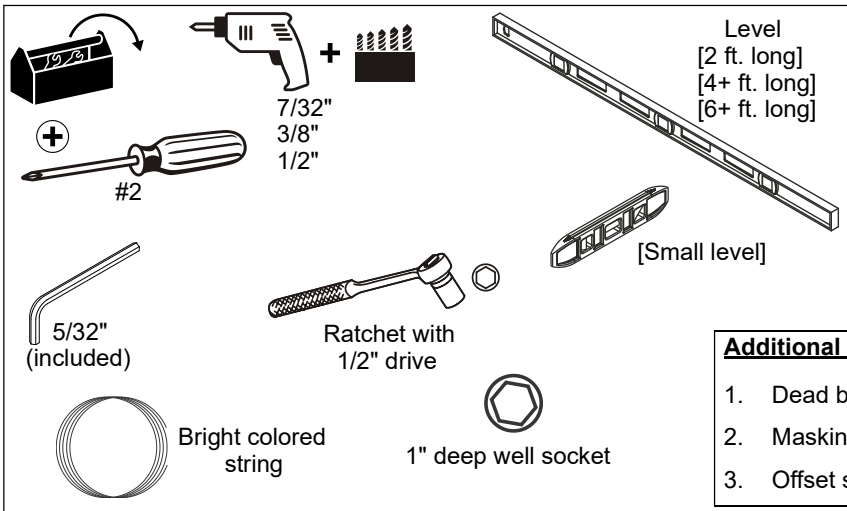
	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale
	Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	Optional Opcional Optional Opcional Opzionale Optie En option
	Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité

TABLE OF CONTENTS

DISCLAIMER 2
DEFINITIONS 2
IMPORTANT SAFETY INSTRUCTIONS 2
LEGEND 3
TABLE OF CONTENTS 4
TOOLS REQUIRED FOR INSTALLATION 5
PARTS 5
PRE-INSTALLATION 6
Site Assessment 6
INSTALLATION 7
Adding Vertical Connector Kit 7
If Starting LED Wall Installation With the Top Row 7
If Starting LED Wall Installation With the Bottom Row 7
Adding Side Connectors 8
Assessing the Installation Site 8
Installing First Mount 9
Adding Additional Mounts 12
Connecting Mounts Side to Side 12
Checking Placement and Alignment 14
Connecting Mounts Above or Below First Row 17
Installing the LED Cabinets 18
Connecting the Cabinets 19
Fastener Installation Methods 20
Wood Stud 20
Concrete or Concrete Block 20
Steel Stud 20
Site Requirements for Wood or Steel Stud Installation 21
DIMENSIONS 22

TOOLS REQUIRED FOR INSTALLATION



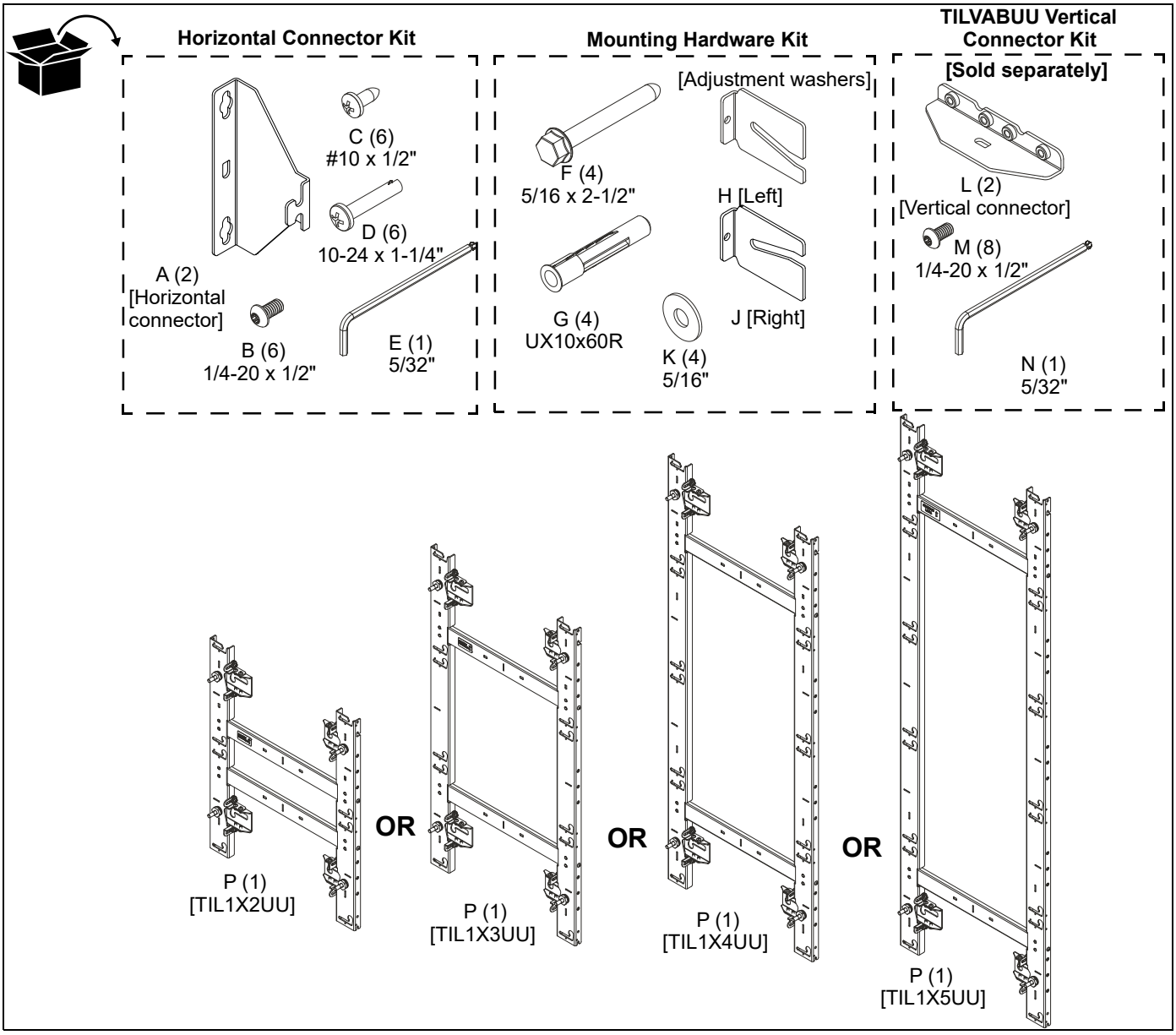
Hardware Required - not included
(for installation into steel stud walls)

1. Chief brand FCAT1 Toggler Kit; **OR**
2. Hardware for installation to steel stud wall:
   - 1/4-20 Toggler Snaptoggle BB (Qty 4)
   - 1/4-20 x 2-1/2" hex head bolt (Qty 4)
   - 1/4" washer (Qty 4)

Additional Suggestions

1. Dead blow hammer
2. Masking tape
3. Offset screwdrivers
4. Ratcheting wrenches
5. Laser level
6. Tools required for LED panels installation. Most likely metric.

PARTS



PRE-INSTALLATION

IMPORTANT ! : Reference the LED screen installation manual for specific instructions regarding care, handling, cabling and installation of the LED screens.

CAUTION: Handle the LED screens with care, being careful to not impact or drop the LED screen.

CAUTION: There is a magnetic surface on the front of the LED screen. To prevent damage ensure that no metallic object is pulled onto the LED screen.

NOTE: When planning the installation, remember the requirement to run power and signal to the video wall. Ensure there is also adequate clearance for the plug head. Recessed outlets or angled plugs may be required.

Site Assessment

Before beginning any installation the site should be assessed in several areas to help avoid any issues during the actual installation.

- **Wall Structure** - It is recommended that a 3/4" furniture-grade plywood-backed wall be used in most LED video walls. The use of a wood stud wall is not appropriate since the studs won't be in the proper location for an LED video wall.
- **Wall High/Low Points** - Locate any high or low points on the wall that may cause problems, and try to set up install so that these points can be avoided, if possible.
- **Flatness/Plumb of Wall** - Learn how much depth adjustment will be needed across the LED video wall mounting area.
- **Power/Cable** - Locate all power outlets and cable access holes that need to be cleared by the installation. Plan appropriately for those holes.
- **Installing in a Recess** - Verify the level and squareness of the recessed area. Since these areas are rarely perfect you may need to decide what to use as a reference point.
  - The recess top or bottom may not be level so the video wall may need to be installed to align with the recess, rather than being level with the wall.
  - If the recess is not square the sides may make the recess look crooked. If possible, the recess should be fixed. If repairing the recess isn't an option it may be best to "split the difference" between the recess sides to make the video wall appear level.
- **Where to Begin the Video Wall** - The installer should make the decision whether the video wall will be started at the top, bottom, left, right or center.
  - If a lower bottom reference is given in the specifications, it may make sense to start at the bottom of the video wall to ensure that this specification is met from the start of installation.
  - If building inside of a recess, it may be easier to start in the center of the space since the video wall will most likely need to be centered within the recess.
- **Vertical/Side Connector Brackets** - If creating a video wall with more than a single row, or more than one mount you will be using the side connector brackets which are included with the mounts and/or the vertical connectors which are sold separately.
- **Vertical Connector Brackets [sold separately]** If the video wall requires multiple rows, decide on whether the installation will start with the top or bottom row. This determines to which end (top or bottom) the vertical connector brackets are attached.
- **Side Connector Brackets [included with mount]** Determine whether it is best to start the installation on the left or right side, or the center. This determines to which side the side connector brackets are installed.

Just a tip - For larger LED walls it is helpful to check placement and alignment of the mounts by putting a few cabinets without the LED's in place in the bottom row of the installed mounts (referencing the LED screen installation manual for specific instructions) during the mount installation, verifying that everything is staying aligned and level, and then continuing the mount installation.

Just a tip - The horizontal slots located along the vertical mount pieces (and vertical slots located along the horizontal mount pieces) are the center-of-screen indicators to illustrate where the center of each LED screen will be located, and can be used to hold a tape measure tab while measuring. (See Figure 1)

[TIL1X3UU shown as example]

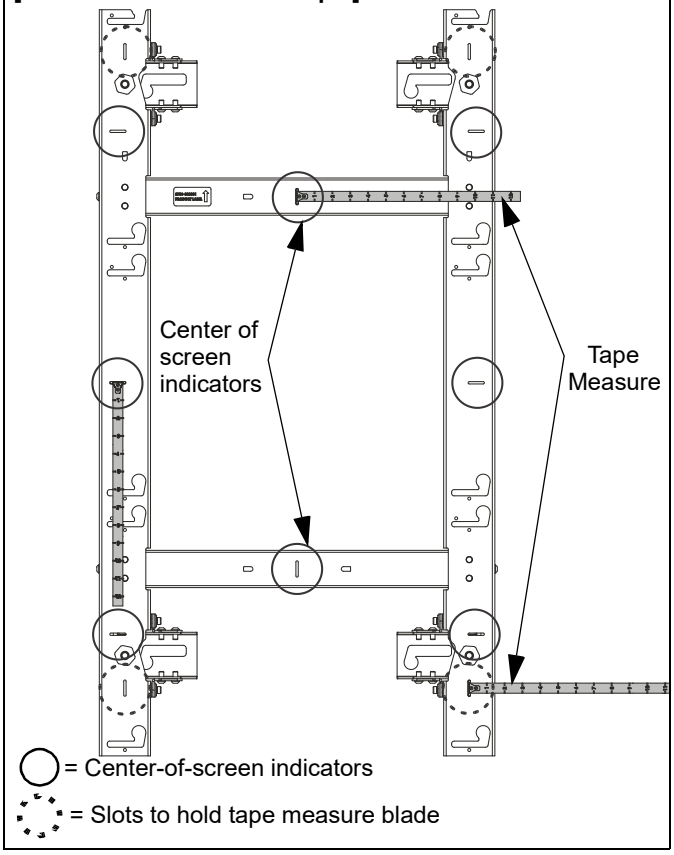


Figure 1

INSTALLATION

Adding Vertical Connector Kit

NOTE: If more LED screens will need to be added to the top or bottom of the screen configuration, add TILVABUU vertical connector kit to top or bottom of wall mount using the following instructions. If you are NOT adding the TILVABUU connector kit, proceed to **Installing First Mount** section.

IMPORTANT ! : Install the vertical connector kit BEFORE the mounts are attached to the wall.

If Starting LED Wall Installation With the Top Row

NOTE: If you're starting the installation at the top of the LED video wall, the vertical connector brackets should be attached to the **BOTTOM** of the mounts to create the top row and each successive lower row.

1. Slide the vertical connector (L) up from the bottom of the mount, and attach with two 1/4-20 x 1/2" button head cap screws (M) per vertical connector. (See Figure 2)
2. Loosely install one 1/4-20 x 1/2" Phillips pan head screw (L) in the lower screw hole at the bottom of each vertical connector (L). (See Figure 2)

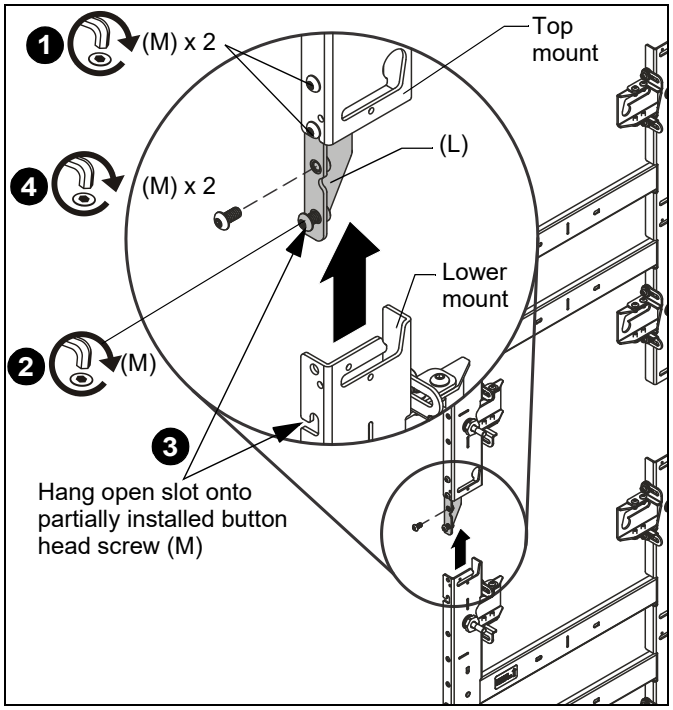


Figure 2

3. Hang the open slot of the lower mount onto the partially installed button head screw (M). (See Figure 2)
4. Tighten both lower button head screws (M). (See Figure 2)

If Starting LED Wall Installation With the Bottom Row

NOTE: If you're starting the installation at the bottom of the LED video wall, the vertical connector brackets should be attached to the **TOP** of the mounts to create the bottom row and each successive upper row.

1. Slide the vertical connector (L) down from the top of the mount, and attach with two 1/4-20 x 1/2" button head screws (M) per vertical connector. (See Figure 3)
2. Loosely install one 1/4-20 x 1/2" button head screw (M) in the lower screw hole at the top of each vertical connector (L). (See Figure 3)
3. Hang the open slot of the upper mount onto the partially installed button head screw (M). (See Figure 3)
4. Tighten both upper button head screws (M). (See Figure 3)

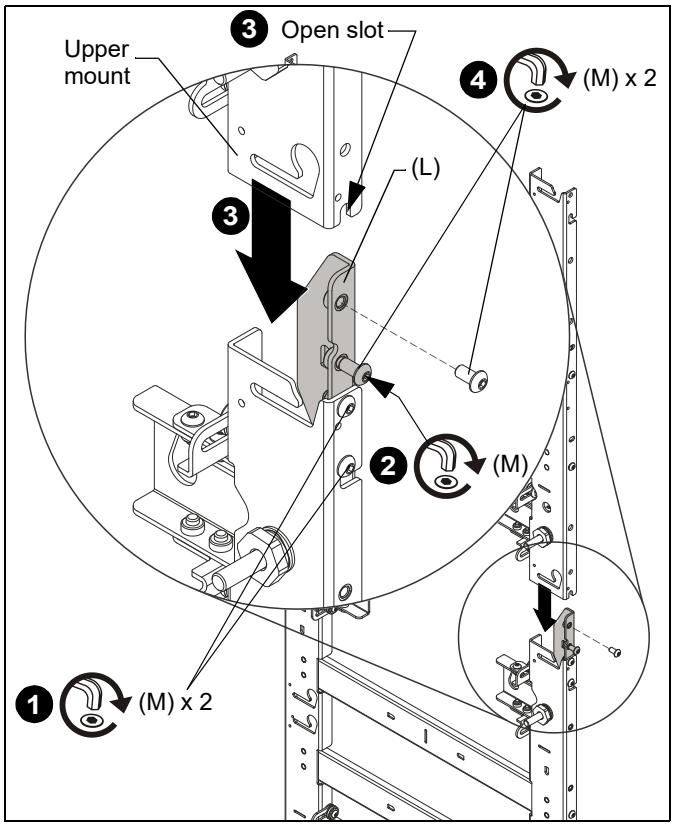


Figure 3

Adding Side Connectors

NOTE: To assist in mount installation, install the side connectors BEFORE the mounts are attached to the wall.

NOTE: When installing the mounts **from left to right**, all side connectors should be attached to the **RIGHT** side of the mounts. The last mount will not require any brackets.

NOTE: When installing the mounts **from right to left**, all side connectors should be attached to the **LEFT** side of the mounts. The last mount will not require any brackets.

NOTE: When installing the mounts **from the center** of the video wall all side connectors should be attached on **BOTH** sides of the **center** mount.

- For remaining mounts, connectors should be attached on the **RIGHT** side of the mount for all mounts installed to the **LEFT** of the center mount.
- For remaining mounts, connectors should be attached on the **LEFT** side of the mount for all mounts installed to the **RIGHT** of the center mount.

1. Attach two horizontal connectors (A) to each wall mount using two 1/4-20 x 1/2" button head cap screws (B) per horizontal connector. (See Figure 4)

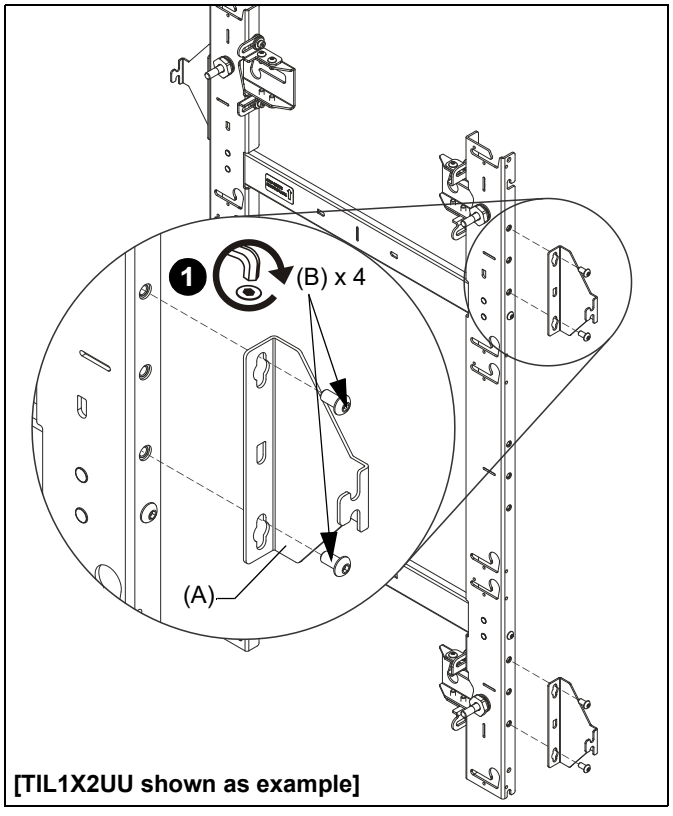


Figure 4

Assessing the Installation Site

IMPORTANT ! : The top of the LED panel is 4" above the top of the **UPPER** mounting slots, and the bottom of the LED panel is 6" below the top of the **LOWER** mounting slots. (See Figure)

NOTE: If desired, the mount installation may be started in the middle of the video wall, attaching mounts out from the center to the left and right ends. (Review **Site Assessment** section for further information.) Installation on smaller walls may be easier if started at the left or right side of the video wall using the following instructions.

Just a tip - It is often a good idea to review installation instructions and dimensional drawings (at end of instructions), and then utilize masking tape to lay out the entire LED video wall to lessen the chance of any surprises later in the installation.

1. Determine top or bottom panel height location and horizontal placement of mounts.
2. Make a mark 4" **below** the planned top edge (or 6" **above** the planned lower edge of the LED wall. (See Figure 5)
3. Using a level, mark a horizontal line across width of LED wall from the mark made in Step 2.

NOTE: This line will be located at the top of the mounting slots across the width of the LED video wall. The oversize mounting slots will allow some upward adjustment as needed. (See Figure 5)

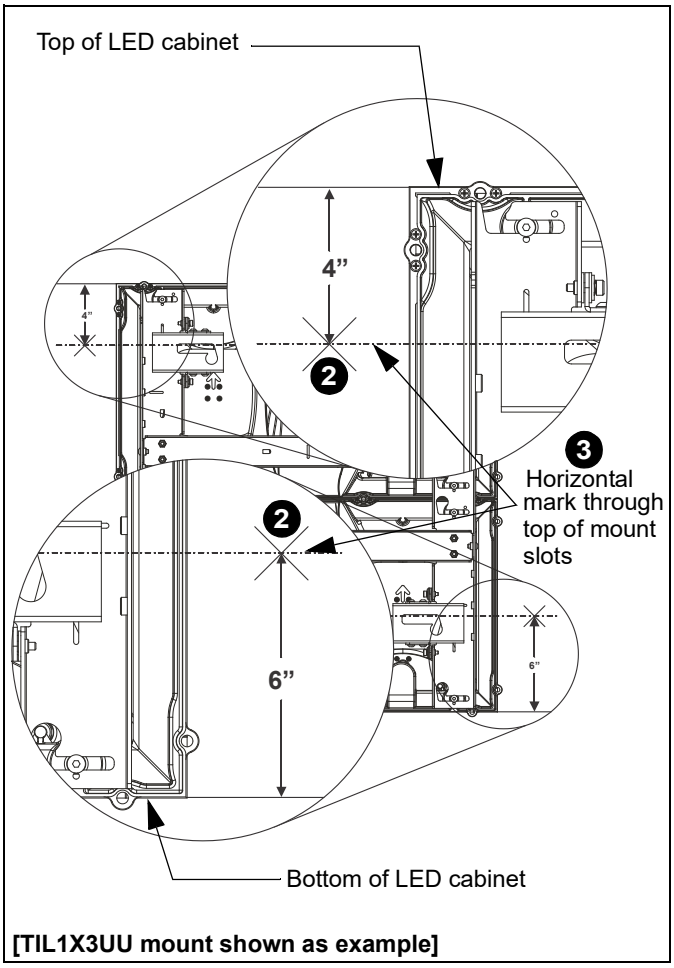


Figure 5

Installing First Mount

The TIL1X2UU / TIL1X3UU /TIL1X4UU /TIL1X5UU (Unilumins Upanel S and Barco XT Series) LED wall mounts are designed to be mounted to:

- a bare 8" concrete or 8"x8"x16" concrete block wall; or
- a 3/4" thickness plywood-backed, 2" x 4" wood studs (16" on center minimum) wall with a maximum drywall thickness of 5/8"; or
- a 3/4" thickness plywood-backed, steel stud wall covered with drywall having a maximum thickness of 5/8".

Table 1: Fastener Information

WALL TYPE	PILOT HOLE	FASTENERS (see PARTS drawing)
Drywall attached to plywood-backed walls /Steel studs	1/2"	- 1/4-20 x 2-1/2" hex head lag (not included) - 1/4" washer (not included) - 1/4-20 Toggler Snaptoggle BB (not included)
Drywall attached to plywood-backed walls /Wood studs	7/32" x 3"	- 5/16 x 2-1/2" flanged hex head lag (**F**) - 5/16" washer (**K**) - Adjustment washer (**H, J**)
Concrete or concrete block	3/8" x 3"	- 5/16 x 2-1/2" flanged hex head lag (**F**) - 5/16" washer (**K**) - Adjustment washer (**H, J**) - Fischer Anchor UX10x60R **(G)**

1. Make final decision on where to begin the LED video wall installation (left, right or center; and top or bottom).
2. Make sure the side connectors are attached to the correct side of the mounts, and the vertical connectors are attached to top or bottom depending on installation decision.
3. Place mount against wall matching the top of the mounting slots with the horizontal line previously drawn.
4. Mark mounting holes in two top mounting slots along the horizontal line marked in Step 3 of **Assessing the Installation Site** section. (See Figure 6)

NOTE: The mounting holes are 14-1/4" apart on-center. (See Figure 6)

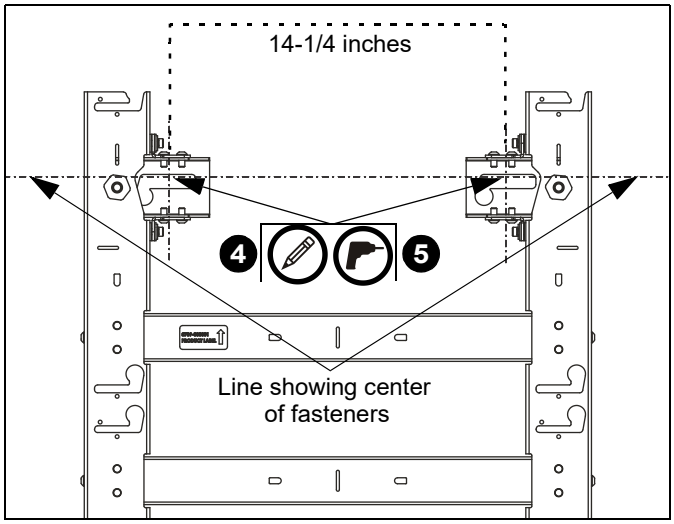


Figure 6

5. Drill two pilot holes (see Table 1 for size) at each location marked in Step 4 (See Figure 6) and follow fastener information (appropriate for wall type) located in Table 1.

IMPORTANT ! : Refer to **Fastener Installation Methods** (located in **Appendix** at end of Installation Instructions) for details on installing product into various wall types.

6. Partially install two lag screws into wall, but do NOT completely tighten to wall. (See Figure 9)

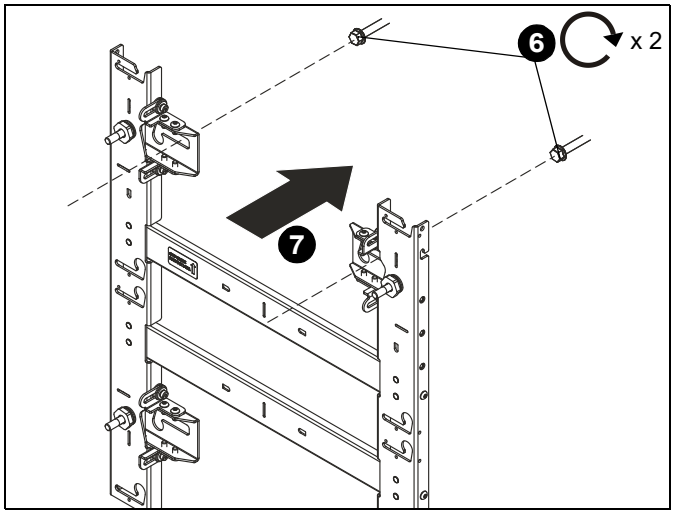


Figure 7

7. Hang wall mount, aligning upper mounting slots over fasteners, and adjust side-to-side for proper location, but do NOT completely tighten to wall. (See Figure 7)

8. Place a level across front of the mount at bottom of teardrop slots. (See Figure 8)
9. Check the level of the mount at the teardrop slots. (See Figure 8)

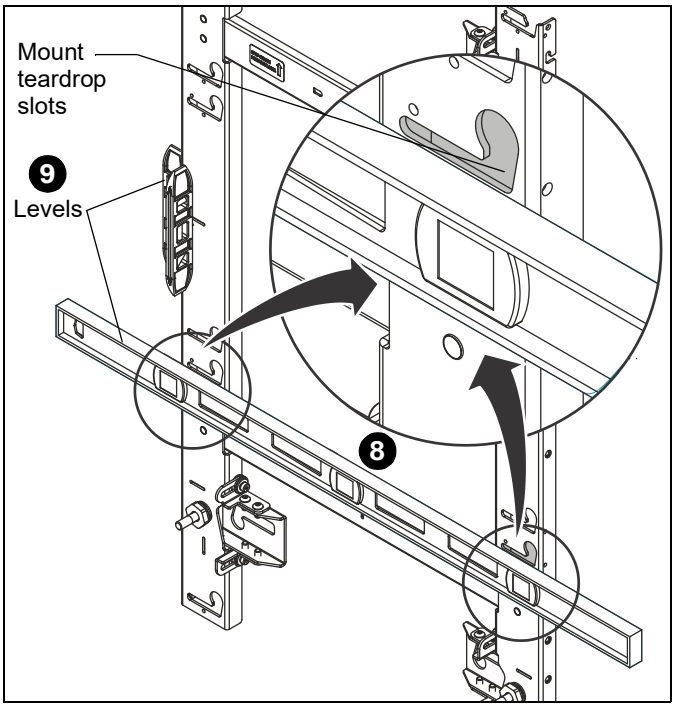


Figure 8

10. Slide the left (H) and right adjustment washers (J) into place behind the partially installed lag screws. (See Figure 9)

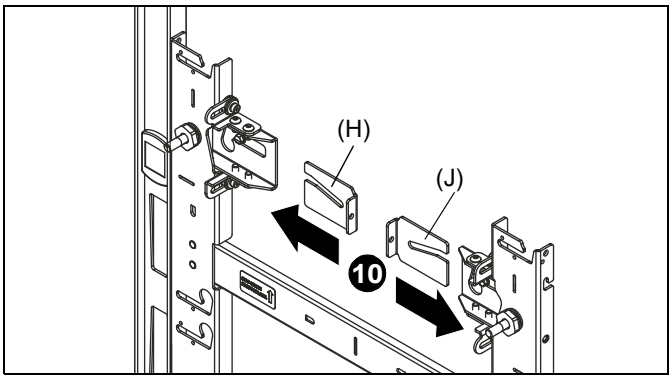


Figure 9

11. Check the level of the mount at the bottom of the teardrop slots. (See Figure 10)
12. If the mount is not level, slide or use a dead blow hammer to lightly tap the spacer into place. This will lift the mount up as the lag screw rides in the washer's angled slot. (See Figure 10)

Just a tip - Tighten down the lag screw on the side that does **NOT** need to be raised. This creates a pivot point for when the opposite adjustment washer is tapped into place, and allows that correct side of the mount to move up.

13. When the mount is leveled, tighten the lag screws (F). (See Figure 10)

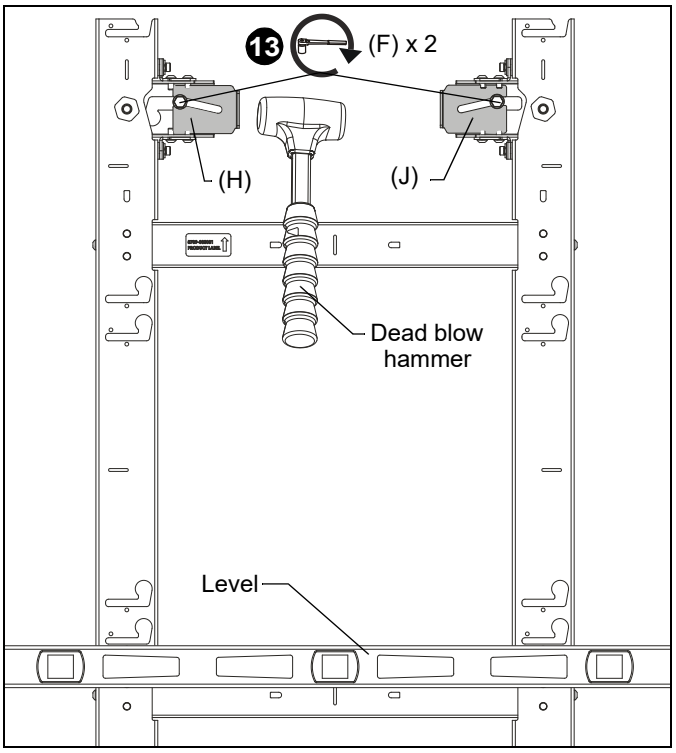


Figure 10

14. Drill pilot holes in centerline of lower slots (see Table 1 for size) and follow fastener information (appropriate for wall type) located in Table 1. (See Figure 11)
15. Double check the level of the mount along the side of the mount. (See Figure 11)
16. Fully tighten the 5/16 x 2-1/2" lag screws (F) through the 5/16" fender washers (K). (See Figure 11)

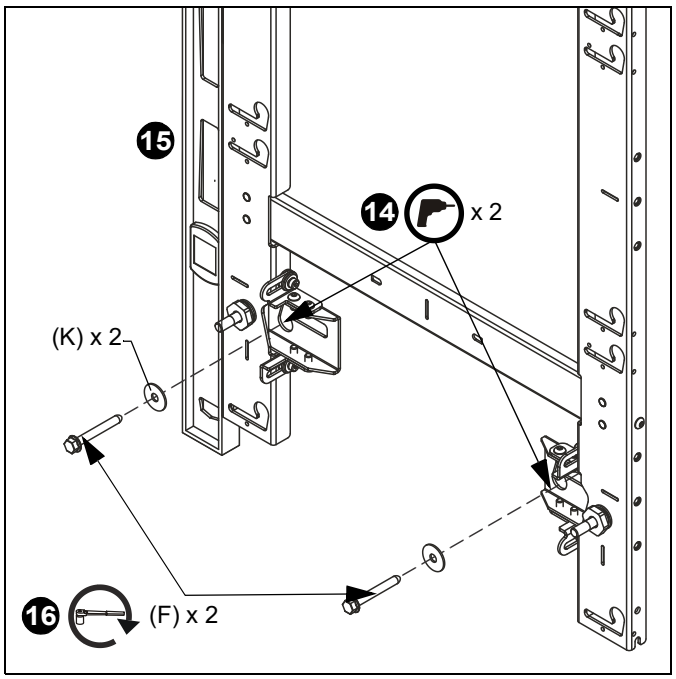


Figure 11

Just a tip - After the first mount is installed, it may be easier to adjust the plumb at this time. If a lot of adjustment is going to be necessary it's best to adjust it right away to avoid any twist or tension on the mount.

17. Using a level on the front of the mount in various places, use a 1" deep well socket to adjust the leveling feet on the mount until the mount is plumb or even with something that is being used as a reference point. (See Figure 12)

CAUTION: Over-torquing may cause damage. Do NOT use a drill to make the depth adjustment.

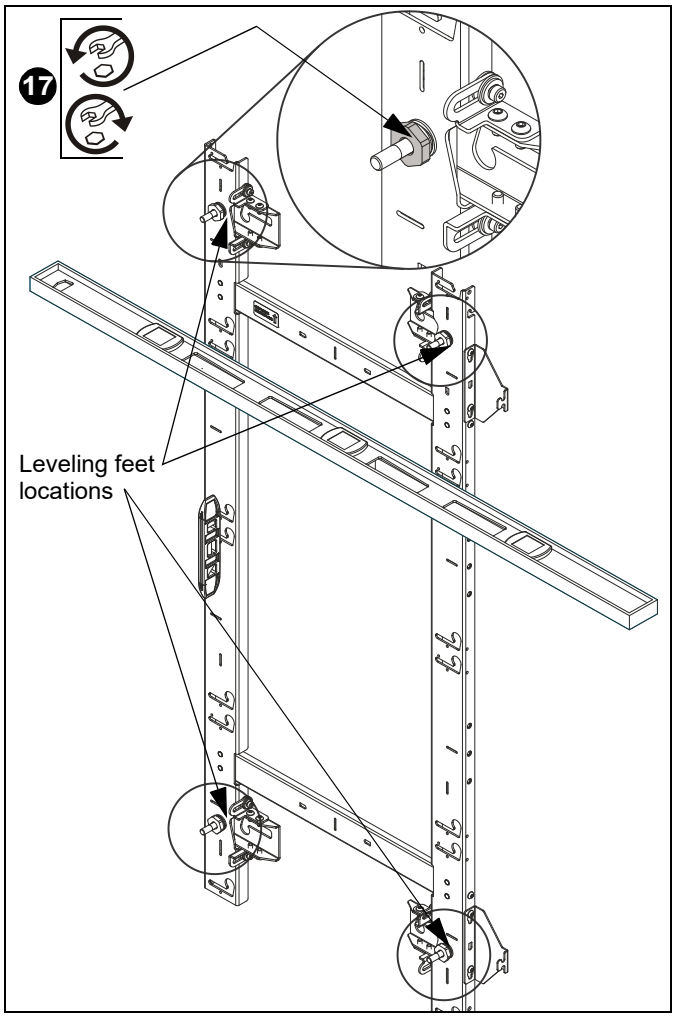


Figure 12

Adding Additional Mounts

Connecting Mounts Side to Side

Just a tip - To assist in mount installation, install the side connectors BEFORE the mounts are attached to the wall. See previous **Adding Side Connectors** section.

1. Loosely install two 1/4-20 x 1/2" button head cap screws (B) into the second mount (being added to the first mount). (See Figure 13)
2. Hang the mount by the installed screws (installed in Step 1) onto the side connectors on the first mount. (See Figure 13)

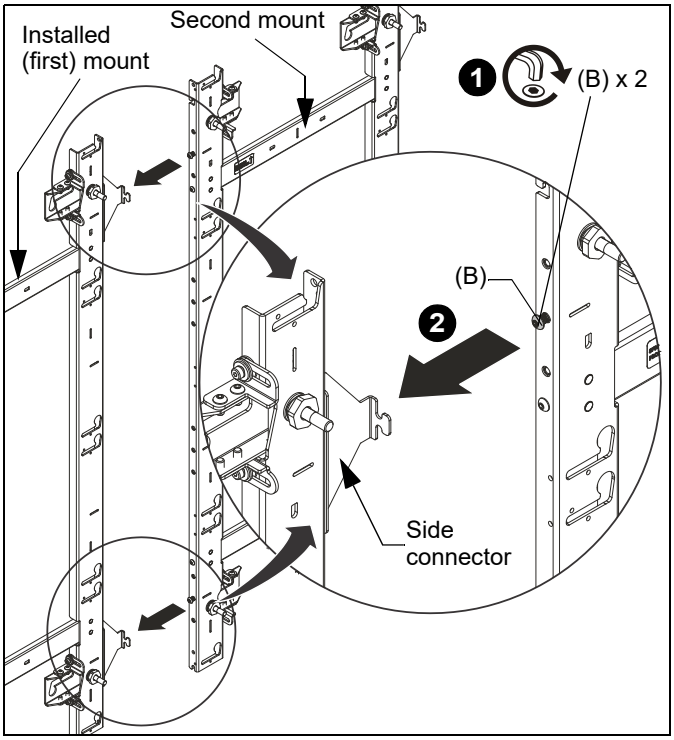


Figure 13

3. Once the second mount is hung on the brackets, tighten up the screw on each bracket.
4. Check the plumb of the second mount against the previously installed mount and adjust so that both mounts are on the same plane. (See Figure 14)

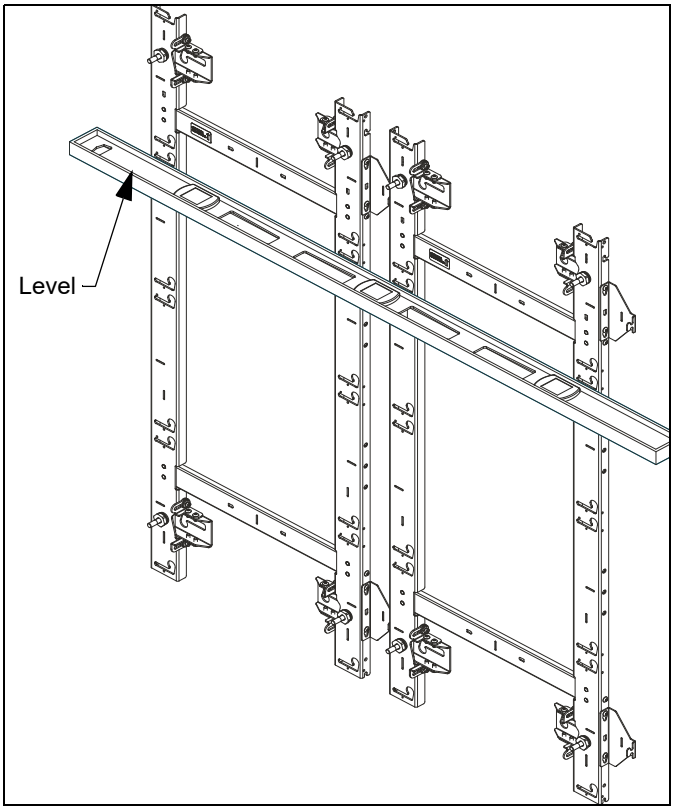


Figure 14

Just a tip - The plumb on these mounts at this point doesn't have to be perfect. Final adjustments can be done once all the mounts are installed. Checking and adjusting plumb at this point ensures the mounts are closely aligned on the same plane to prevent the mount from twisting or bending when the lag screws are installed.

5. Drill pilot holes towards top and in centerline of upper mounting slots on second mount (see Table 1 for size) and follow fastener information (appropriate for wall type) located in Table 1. (See Figure 15)

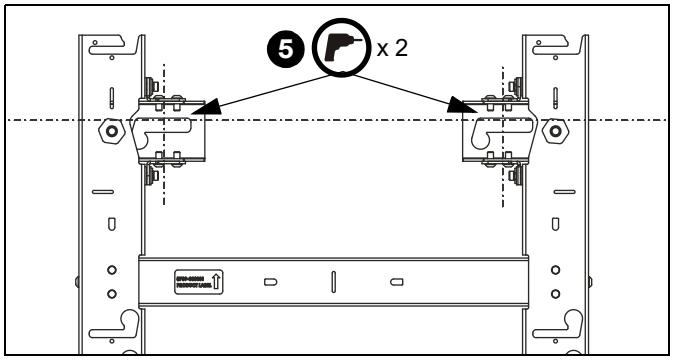


Figure 15

Just a tip - The lag screws need to be at the top of the mounting slot to allow the mount to be raised slightly, if needed, to align it with the previously installed mount.

6. Hang second wall mount, aligning upper mounting slots over fasteners, and adjust side-to-side for proper location.
7. Slide the left (H) and right adjustment washers (J) into place behind the partially installed lag screws.
8. Loosen the side connector screws, upper and lower, prior to adjusting the mount height. (See Figure 16)
9. Place a level across front of the mount at bottom of teardrop slots and check that mounts are level and in line with each other. (See Figure 16)
10. If mount needs to be raised: use the adjustment washers to raise the second mount.
11. Re-tighten connector screws, upper and lower. (See Figure 16)
12. Drill lower pilot holes at the center both vertically and horizontally within lower mounting slots and use same fasteners used at top of mount.
13. Continue installation of mounts in this manner until the row is complete.

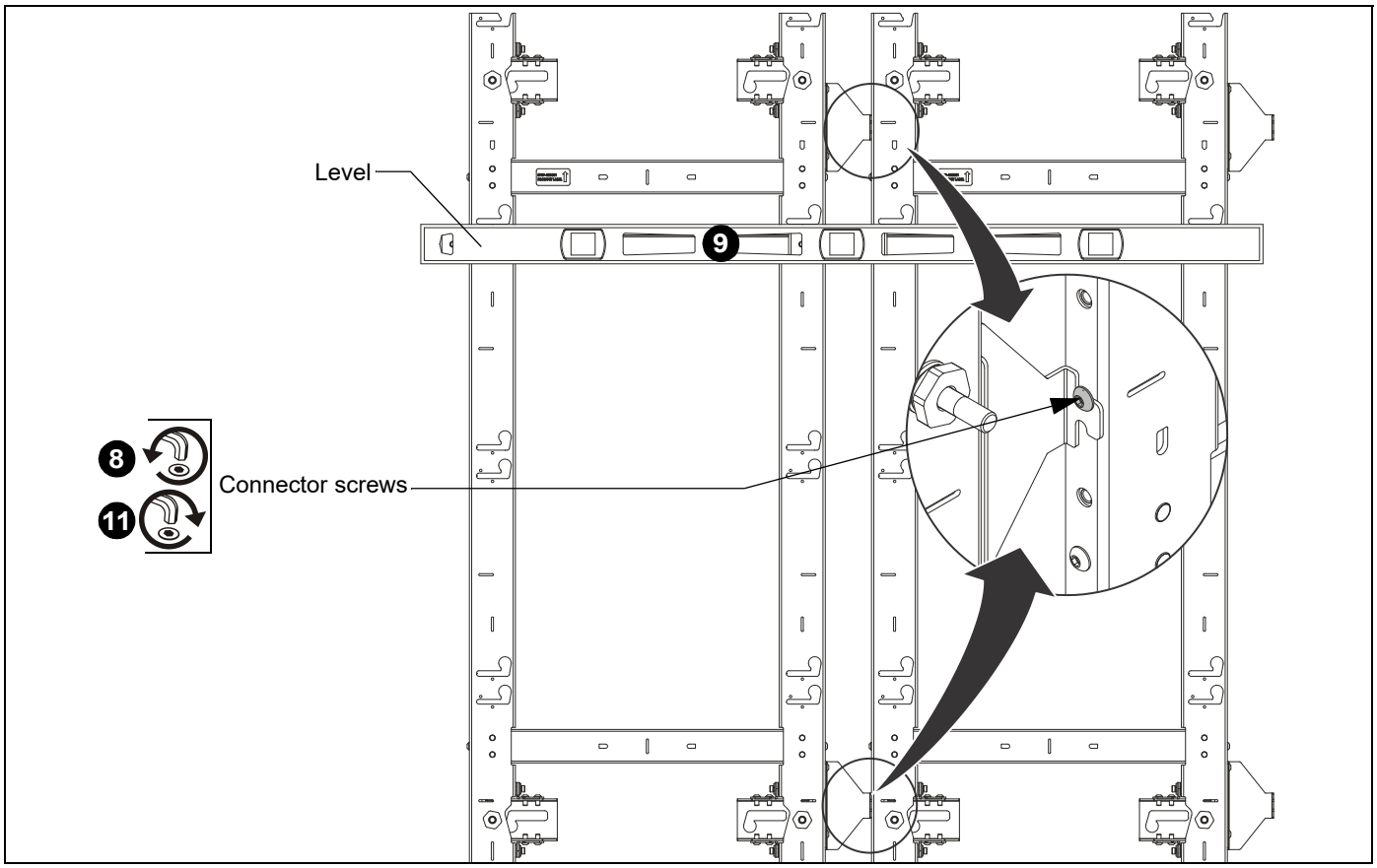


Figure 16

Checking Placement and Alignment

1. The holes around mounting slots on the mounts can be used for the included #10 x 1/2" self-tapping screws (C) to help attach a string to help in aligning and plumbing the mounts.

NOTE: There are multiple points on each mount where the screws can be installed for the plumb line. (See Figure 17)

2. Loosely install the self-tapping screws then wrap the string around the screw and tighten. (See Figure 17)
3. Run the string tightly between the same hole at each end of the row of mounts. (See Figure 17)

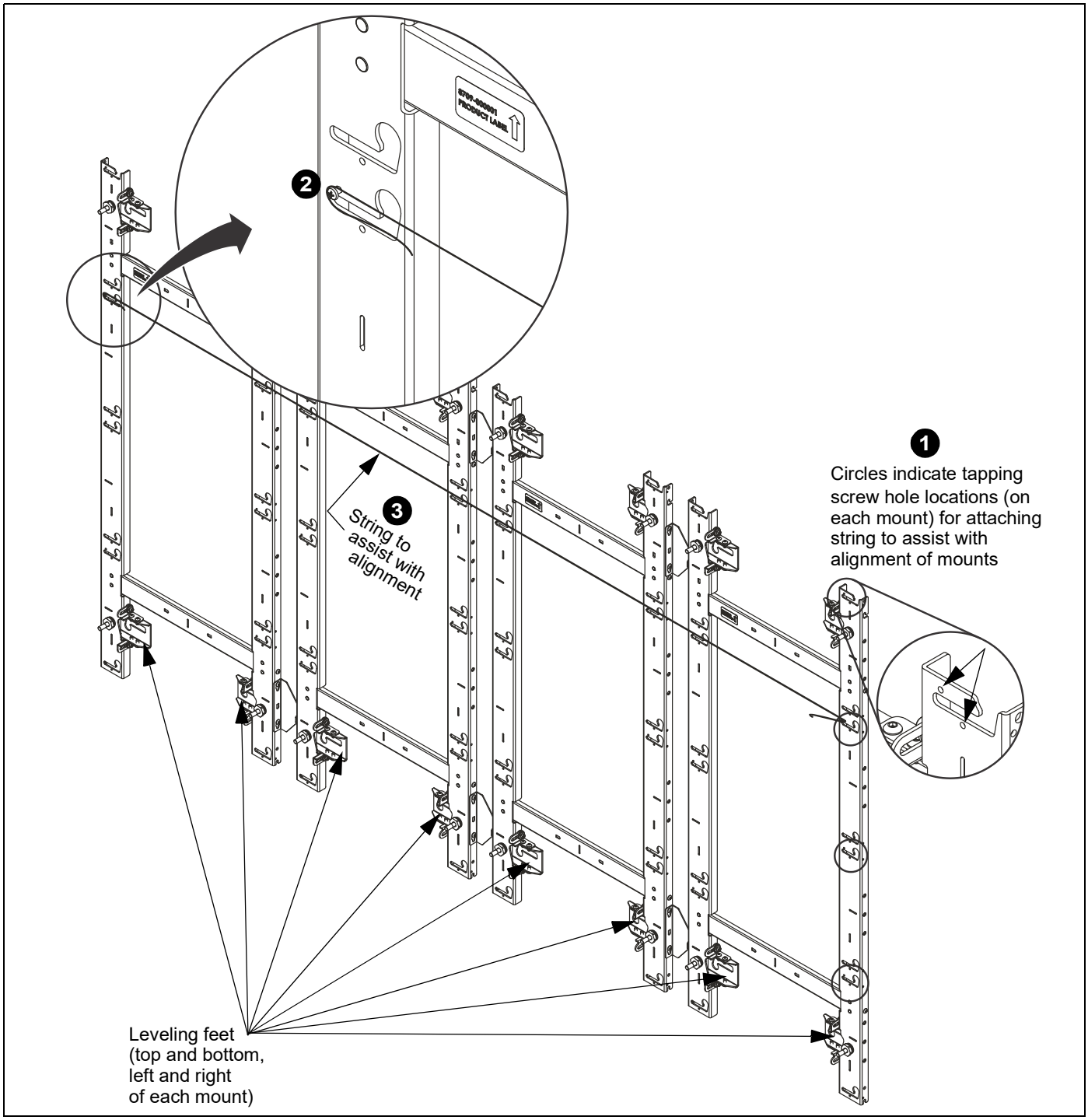
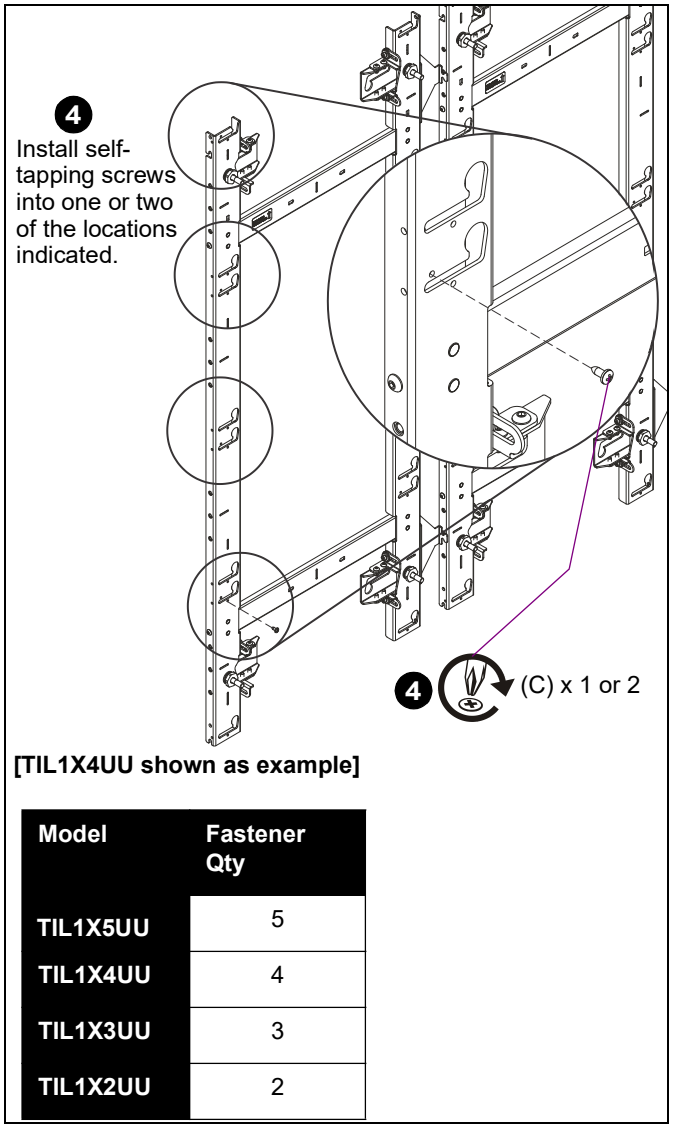


Figure 17

4. Install one or two #10 x 1/2" Phillips self-tapping screws (C) near the mounting button slots on the far left mount. **One or two is typically all that is needed per mount.** (See Figure 18)

NOTE: These center-aligning stop screws provide a stop to the mounting button, keeping the cabinet centered on the mount. They are **ONLY** installed on the furthest left column of mounts.



[TIL1X4UU shown as example]

Model	Fastener Qty
TIL1X5UU	5
TIL1X4UU	4
TIL1X3UU	3
TIL1X2UU	2

Figure 18

5. If the cabinets need to be moved slightly to either the left or right, remove the center-aligning tap screws installed in Step 4.

6. Insert one 10-24 x 1-1/4" self-tapping screw (D) into the left side of the mount. (See Figure 19)

NOTE: There are two places on each cabinet for the left side stop screws to be installed. These screws will act as an adjustable left stop. Turn the screw **IN** to adjust the stop to the **right**, and back the screw **OUT** to move the stop to the **left**.

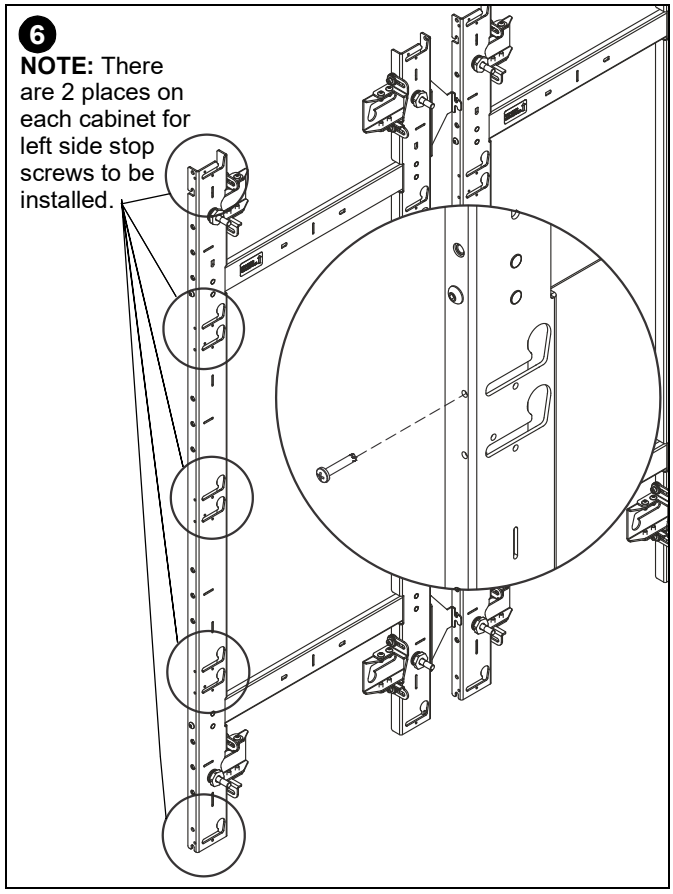


Figure 19

7. When installing a row of cabinets, slide some of them into place and connect them to make sure the cabinets are aligned. (See Figure 20)
8. After the bottom row of cabinets are installed, it is a good idea to install the far left column of cabinets to check that everything is square and straight. (See Figure 20)

Just a tip - When installing in a recess it may also be helpful to install the far right column. This allows you to check for squareness and level inside of the recess.

9. When installing a column of cabinets to check alignment, it is a good idea to ensure that the connectors all slide into place easily. (See Figure 20)
10. When done checking alignment with the cabinets, **remove** the cabinets and proceed with the mount installation.

Just a tip - When doing the final install, start at the left column and work to the right. Install one column at a time, and then slide it out of the way to the left before installing the next column.

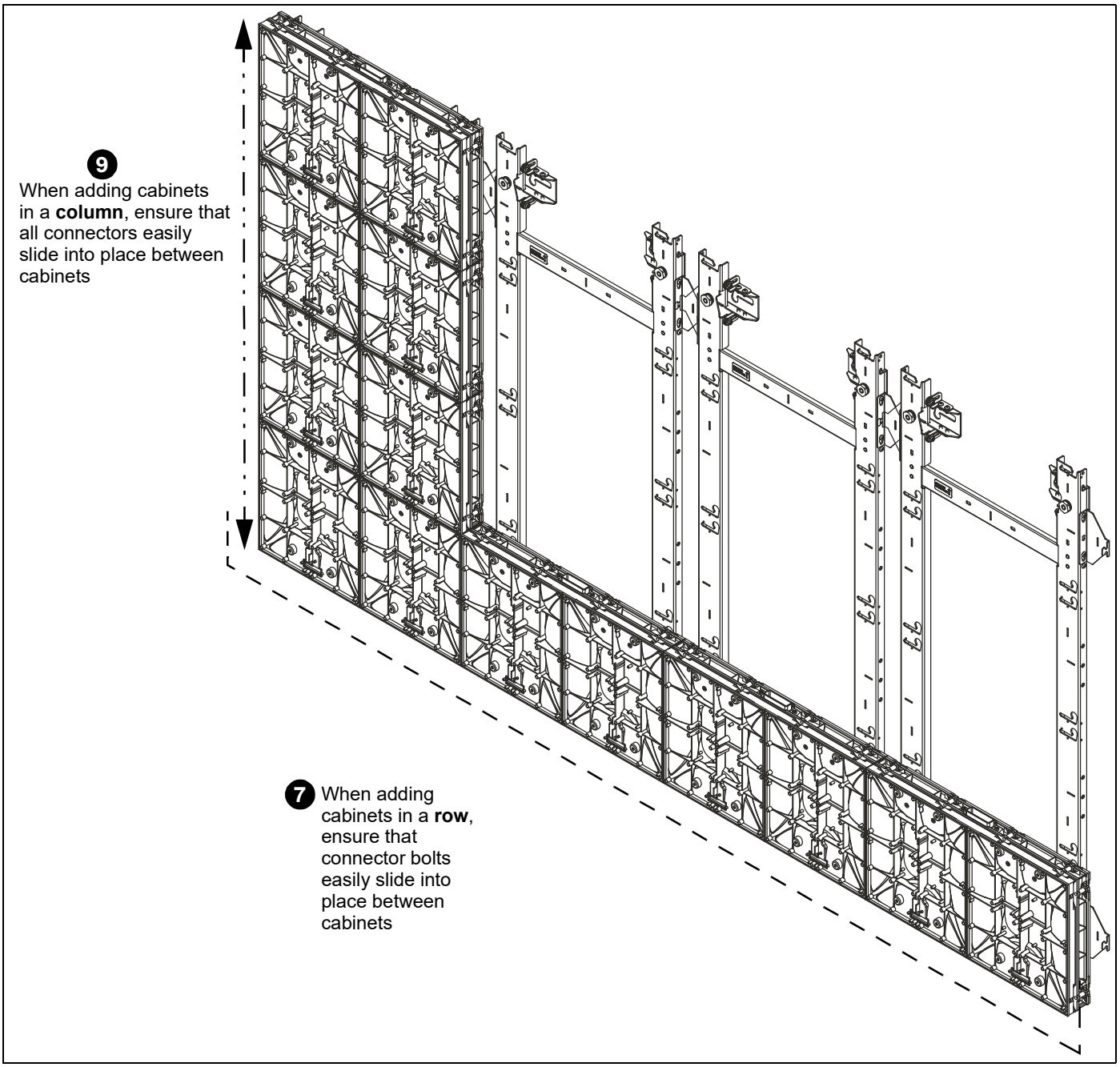


Figure 20

Connecting Mounts Above or Below First Row

- **Hanging Mounts from an Upper Row**
  1. Hang the lower mount on the partially installed Phillips head screws (M) in the vertical connectors (L). (See Figure 21)
  2. Tighten both lower screws (M) on both vertical connectors (L). (See Figure 21)

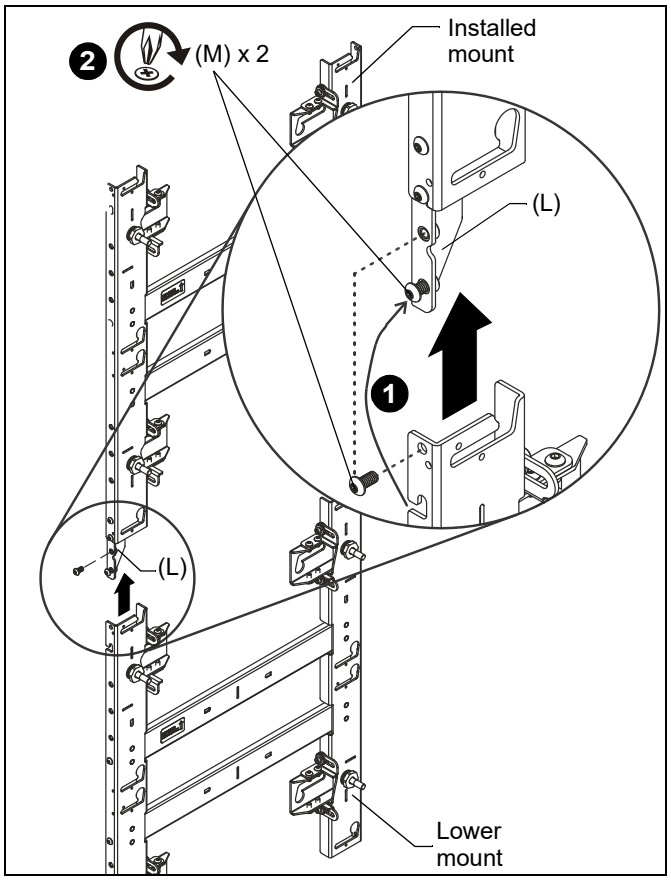


Figure 21

- **Installing Mounts onto a Lower Row**
  3. Make sure the 1/4-20 x 1/2" Phillips head screw (M) is already loosely installed in the vertical connector (L) on both sides of the mount. (See Figure 22)
  4. Slide mount down onto the screws so that upper mount hangs on lower mount.
  5. Install two 1/4-20 x 1/2" Phillips head screws (M) into upper hole on both vertical connectors, and tighten all screws. (See Figure 22)
  6. Place a long level against front of the mounts and adjust the depth of the newly attached mount to align it with the first, installed mount.
  7. Adjust the leveling feet on the newly installed mount so that they are touching the wall.
  8. Drill pilot holes in centerline of each mounting slot on each leveling foot of the added mount (see Table 1 for size) and follow fastener information (appropriate for wall type) located in Table 1. (See Figure 23)

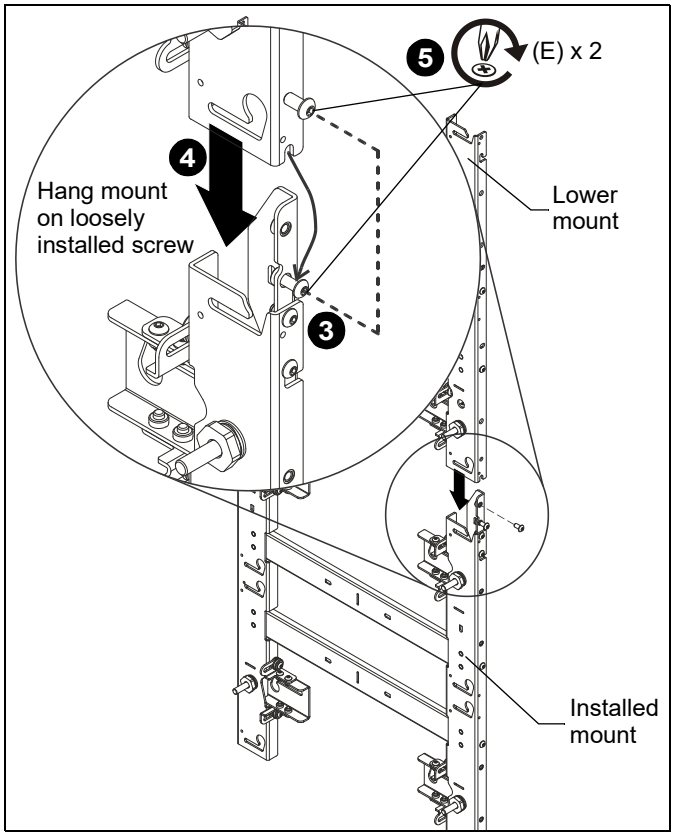


Figure 22

9. Double check the level of the mount at the bottom of the teardrop slots, and make sure the new mount stays perfectly aligned with the upper or lower mount to which it was attached. (See Figure 23)
10. Fully tighten the 5/16 x 2-1/2" lag screws (F) through the 5/16" fender washers (K). (See Figure 23)

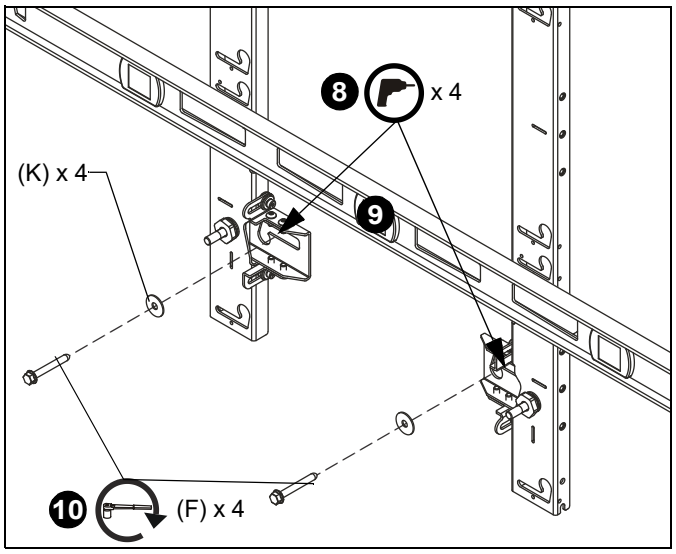


Figure 23

11. Continue on until the entire LED wall is assembled.

Just a tip - When building the LED wall, take your time and continually check the mounts to ensure that everything is staying level and aligned. Periodically check alignment by installing some of the actual LED cabinets, **without** the LED panels.

Installing the LED Cabinets

NOTE: Chief LED mounts are designed for the LED cabinets to be installed beginning in the lower left corner of the wall.

NOTE: Chief LED mounts are designed for the cabinets to be installed starting with columns, but it is also acceptable to install the bottom row of cabinets first.

1. **BEFORE** installing the first cabinet, ensure that the left side adjustable stop screw **OR** the left front stop screw is installed. (See Figure 24) and also see the stop screws specific information in **Connecting Mounts Side to Side** section.
2. Install the bottom row of cabinets to ensure that everything is aligned and level.
3. Move all cabinets to the right side of the mounting slots. (See Figure 25)
4. Install the far left column of cabinets. (See Figure 25)
5. Slide left column all the way to the left to allow for clearance when installing the next column. (See Figure 25)

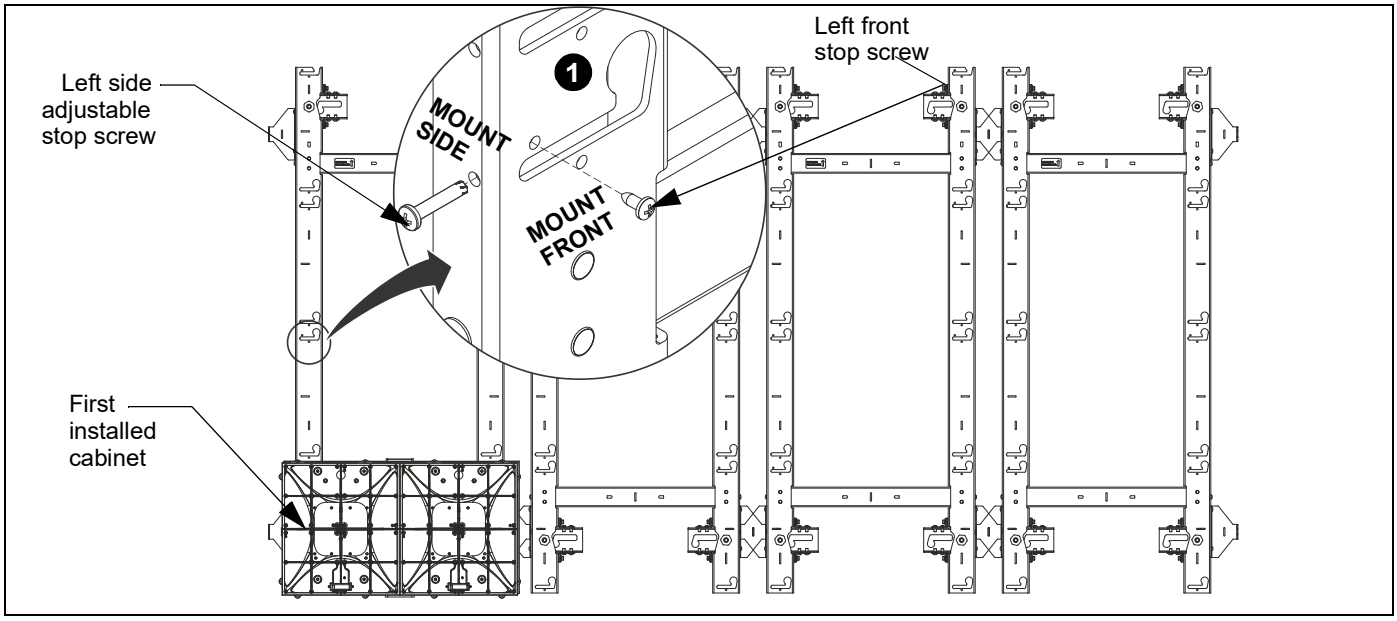


Figure 24

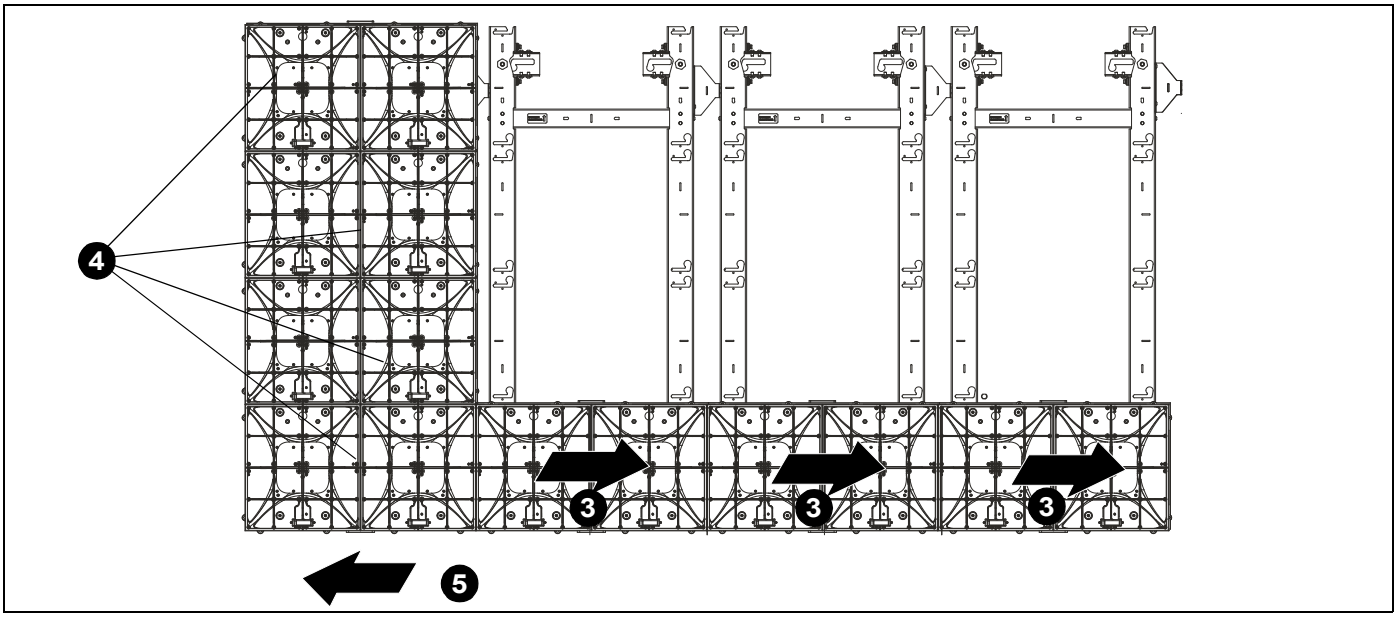


Figure 25

6. While installing the cabinets, occasionally check to be sure the connector fit and easily slide into place.

> **Just a tip -** When installing the cabinets do not force them together. If the alignment needs correcting the plumb may need to be adjusted or there may be interference somewhere in the installation. Adjust as necessary.

7. Do **NOT** permanently connect the cabinets until they all have been installed.
8. Install the second column in the same way as the first column, and be sure everything goes together smoothly.
9. Push the second column to the left until it just touches the first column. Do **NOT** slam the cabinets together.
10. Continue until all of the cabinets have been installed.

Connecting the Cabinets

> **Just a tip -** After all the cabinets have been installed, connect the cabinets together.
>
> When connecting the cabinets, start at one point (preferably the **lower left corner of the LED wall**) and work your way outwards.
>
> Do not connect the cabinets together at multiple points on the wall because this may cause the connectors to pull the cabinets in different directions when the connectors are tightened.
>
> Make sure the front plane of the cabinets are aligned since any misalignment will create problems when the LED panels are installed.

11. Install two 10-24 x 1-1/4" Phillips head self-tapping (D) right stop screws into the right side of each cabinet after the cabinets have been connected together.
12. Tighten right stop screws until contact is made with the mounting button on the cabinet. (See Figure 26)

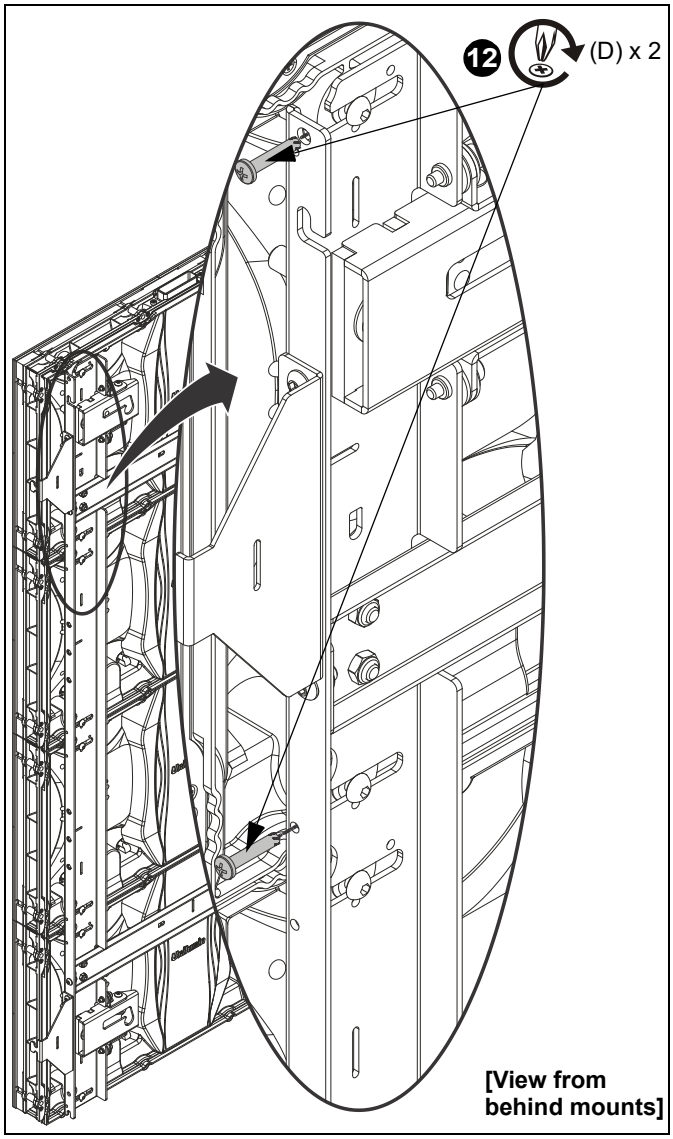


Figure 26

Fastener Installation Methods

IMPORTANT ! : See Table 1 for appropriate hardware and pilot hole sizes for various wall types.

IMPORTANT ! : The expanse of the LED wall will most likely mean that attachment of the wall mounts will not all be in studs. The attachment method will most likely vary throughout the installation, and more than one of the various methods outlined here will most likely be used.

Wood Stud

1. Use one 5/16" x 2-1/2" hex flange head lag bolt (F) and one 5/16" washer (K) through product and into pilot hole. (See Figure 27)
2. Repeat for remaining pilot holes.

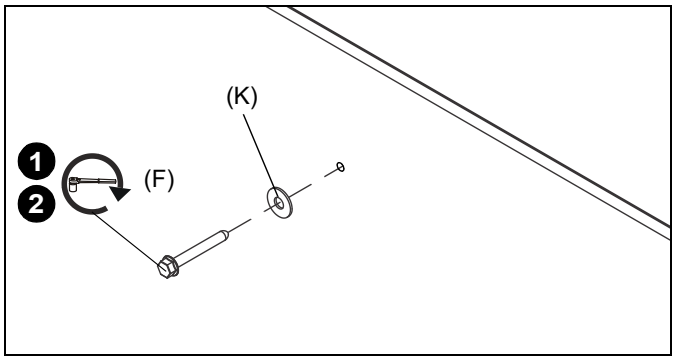


Figure 27

Concrete or Concrete Block

1. Install one UX10X60R anchor (G) into each pilot hole using a hammer, making sure that the anchor is flush with the wall. (See Figure 28)
2. Use one 5/16" x 2-1/2" hex flange head lag bolt (F) and one 5/16" washer (K) through product into each anchor in wall. (See Figure 28)
3. Repeat for remaining pilot holes.

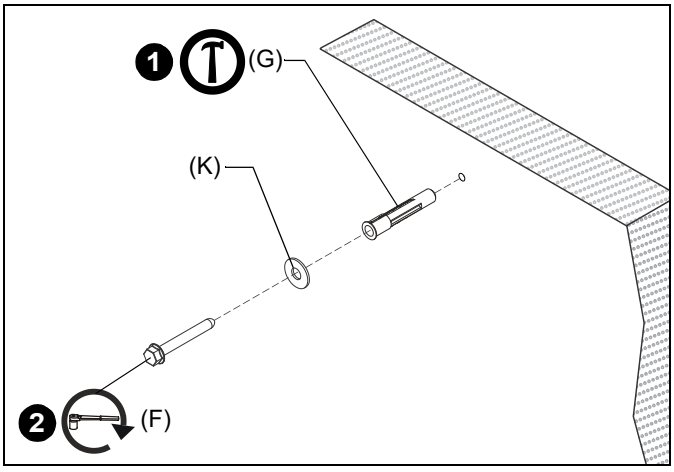


Figure 28

Steel Stud

IMPORTANT ! : See **Site Requirements for Steel Stud Installation** section before proceeding with Steel Studs installation to ensure installation site meets requirements! The drywall must have a minimum thickness of 1/2"!

1. Hold metal channel on anchor flat alongside plastic straps and slide channel through hole. (See Figure 29)

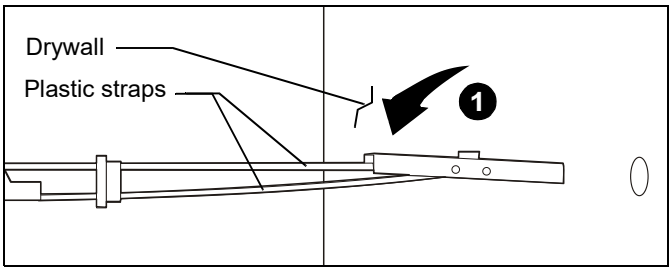


Figure 29

2. Holding plastic straps on anchor, pull anchor away from wall until channel rests flush behind wall making sure anchor channel is positioned vertically on drywall, or steel stud (if present). (See Figure 30)
3. Slide plastic cap on anchor towards wall until flange of cap is flush with wall. (See Figure 30)

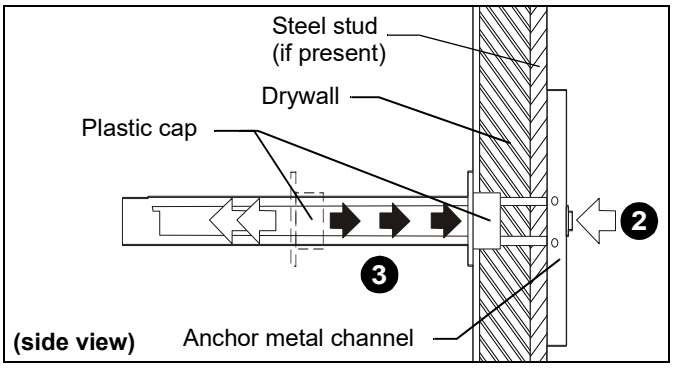


Figure 30

4. Snap off plastic straps on anchor at wall by pushing side to side, snapping off straps level with flange of plastic cap. (See Figure 31)

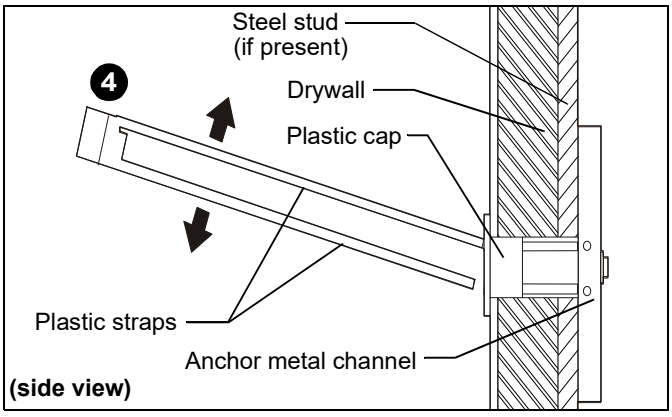


Figure 31

5. Line up anchor with attachment point.
6. Insert 1/4-20 x 1-3/4" Phillips pan head screw through 1/4" washer, corresponding mounting hole in wall bracket and into anchor, and tighten until flush against wall bracket. DO NOT over tighten! (See Figure 32)

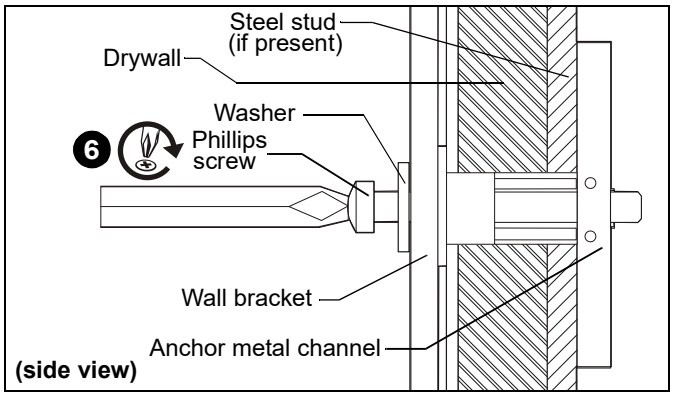


Figure 32

Site Requirements for Wood or Steel Stud Installation

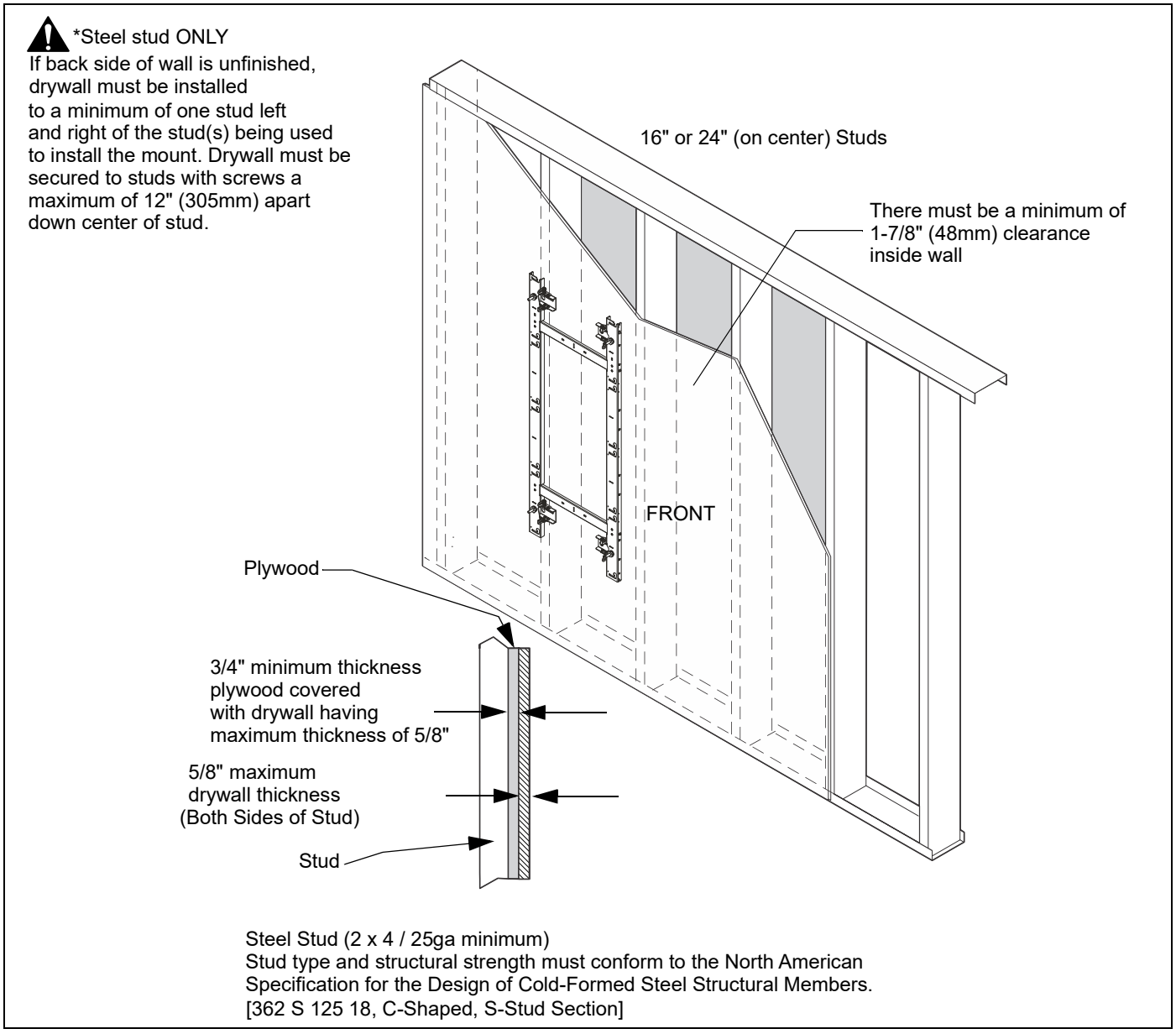
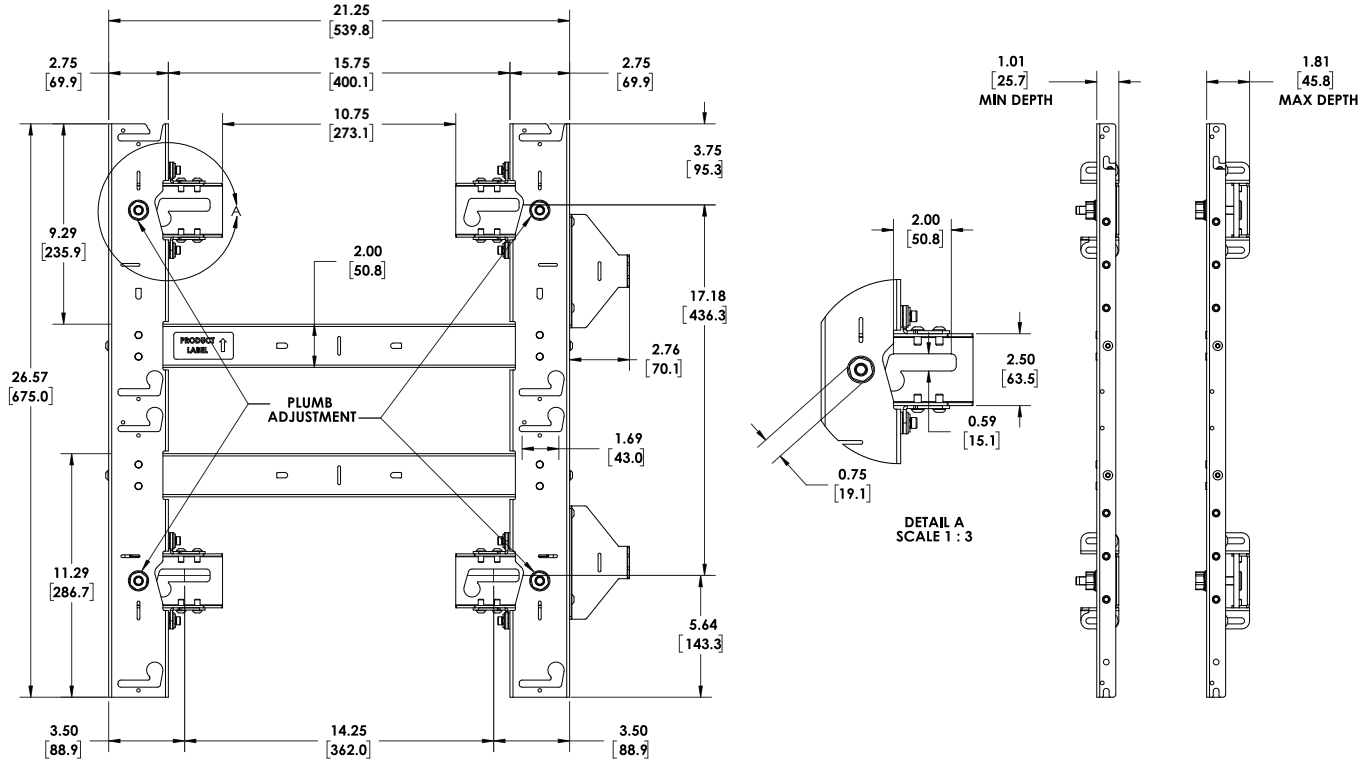


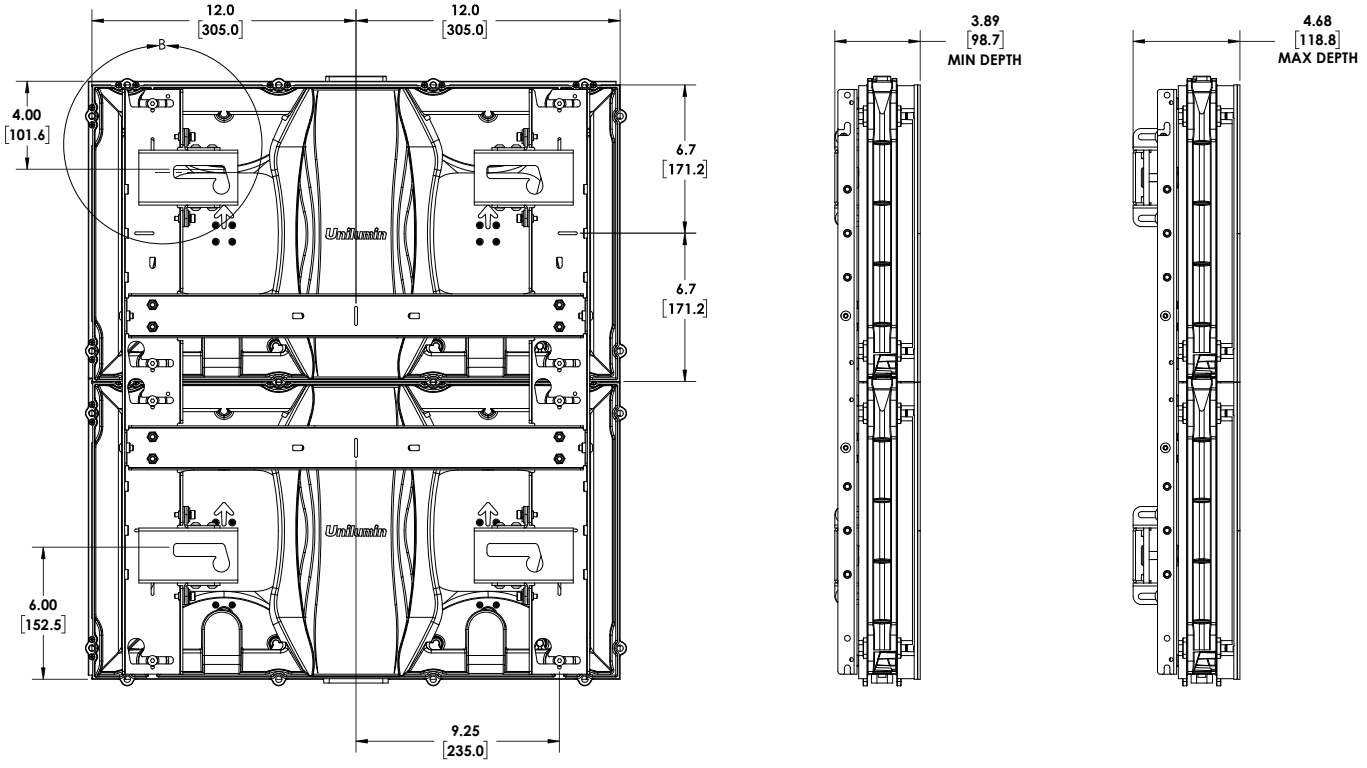
Figure 33

DIMENSIONS

TIL1X2UU



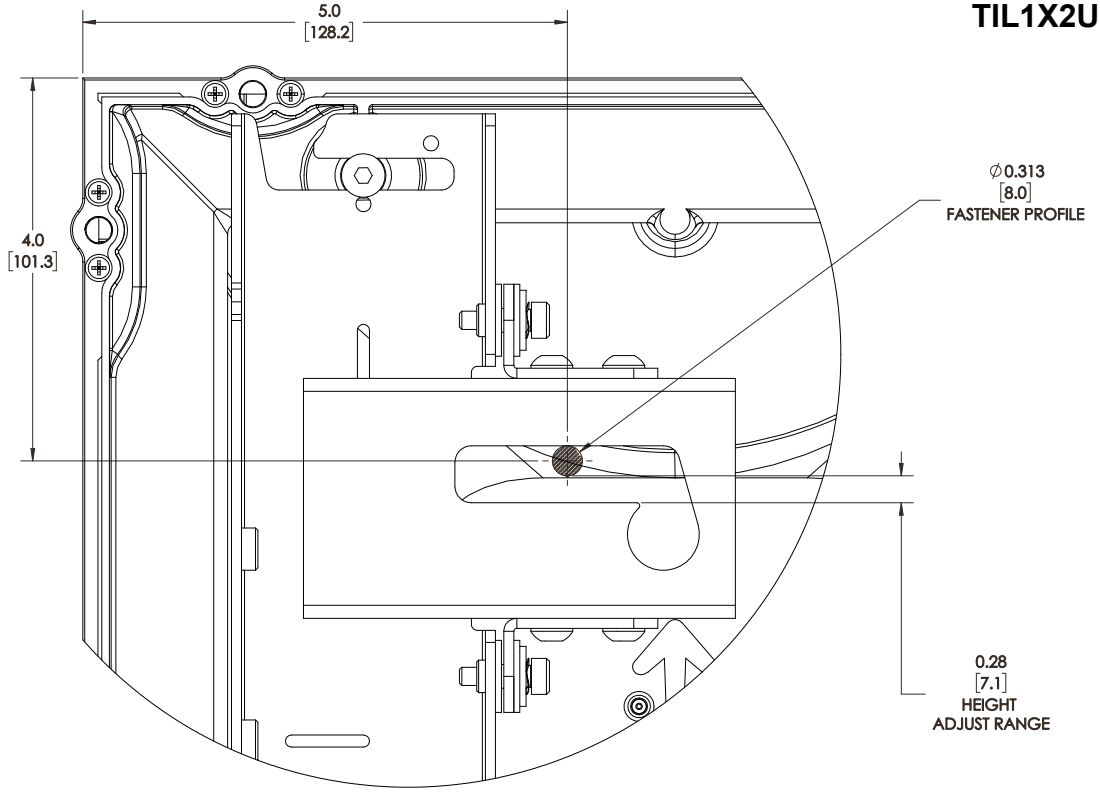
DETAIL VIEW ON SHEET 3



DIMENSIONS: INCHES
[MILLIMETERS]

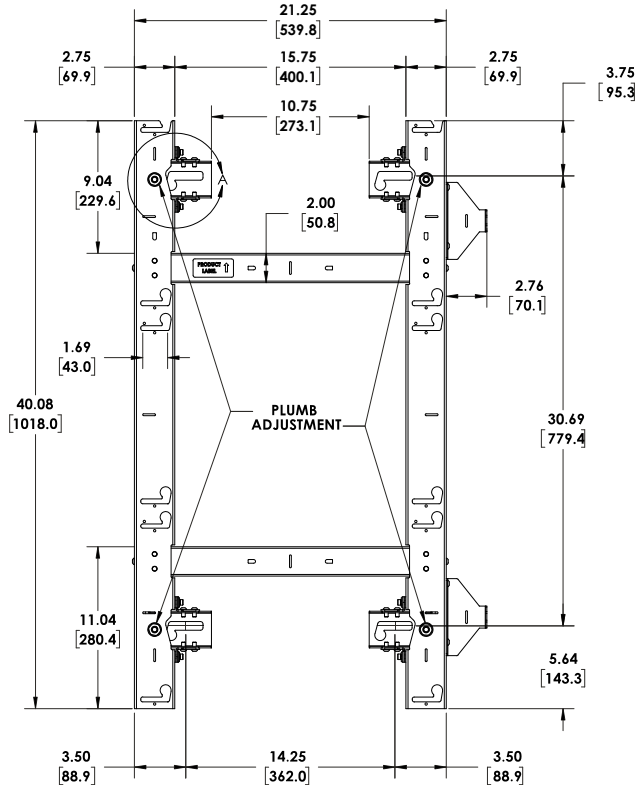
DIMENSIONS...cont'd

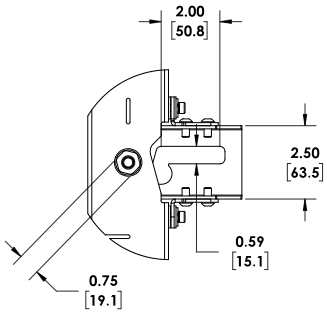
TIL1X2UU cont'd



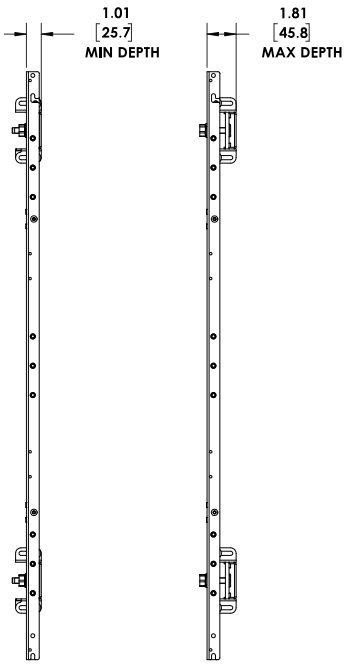
DETAIL B
SCALE 1 : 1

TIL1X3UU





DETAIL A
SCALE 1 : 3

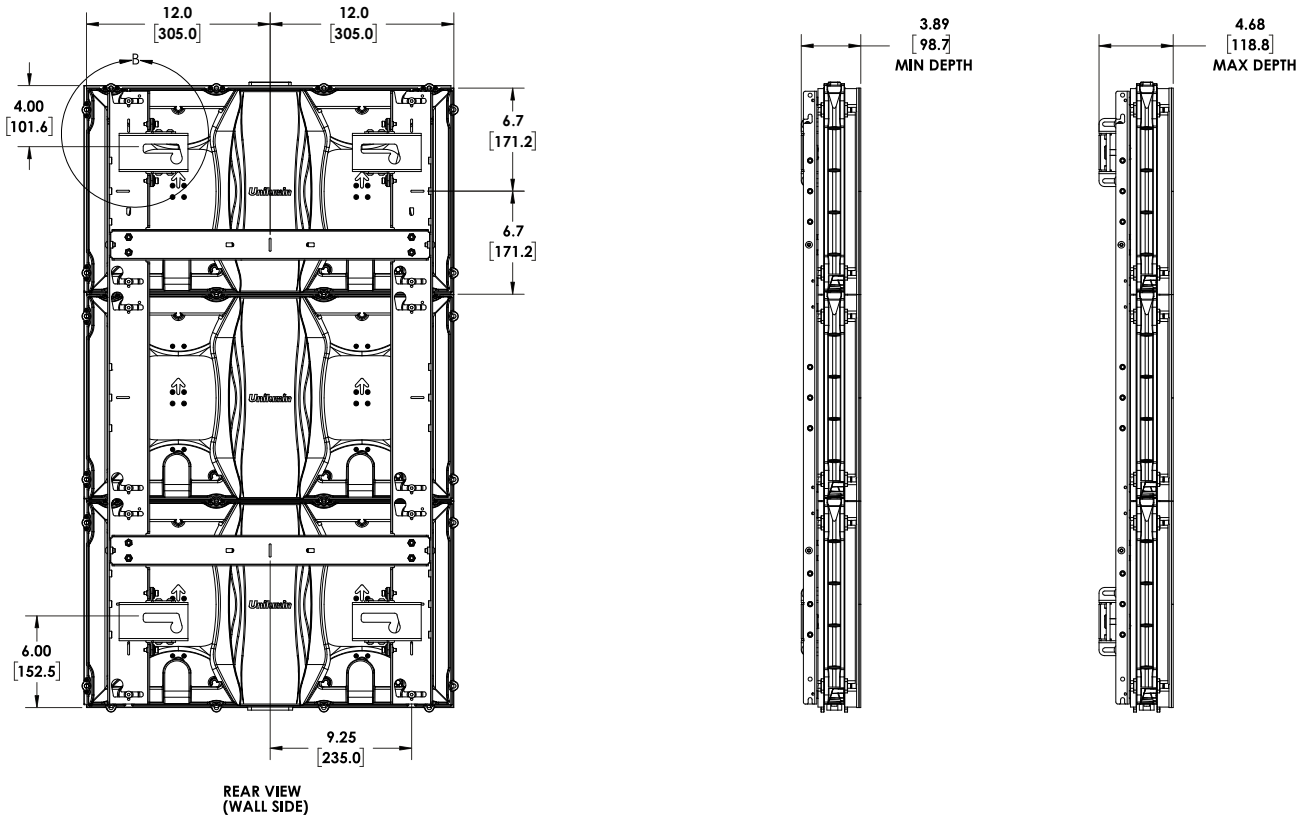


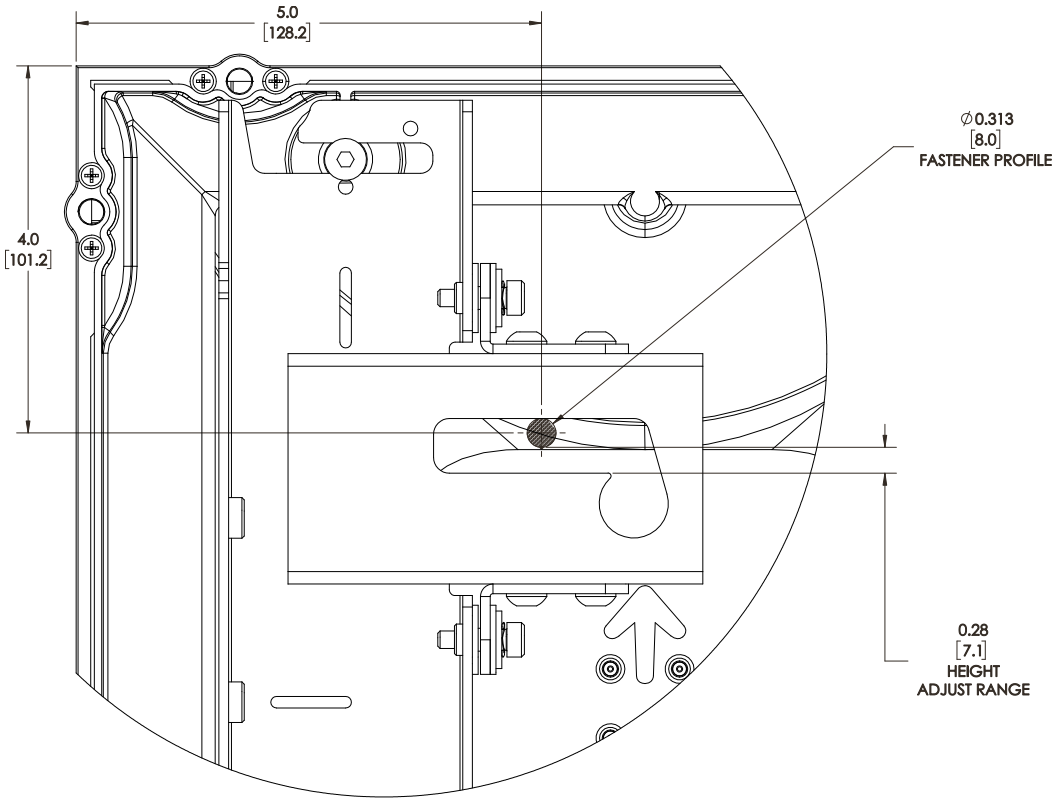
DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

TIL1X3UU cont'd

*DETAIL VIEW ON SHEET 3 *

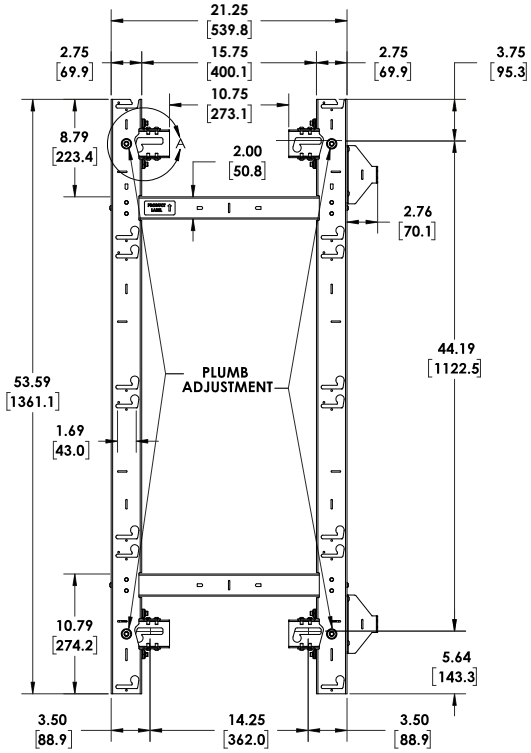


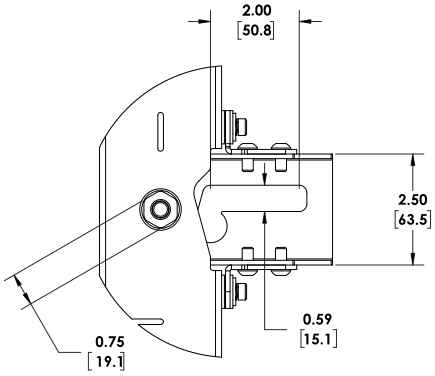


DIMENSIONS: INCHES
[MILLIMETERS]

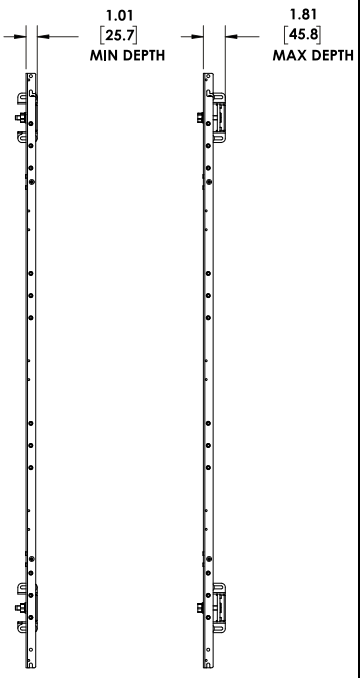
DIMENSIONS...cont'd

TIL1X4UU

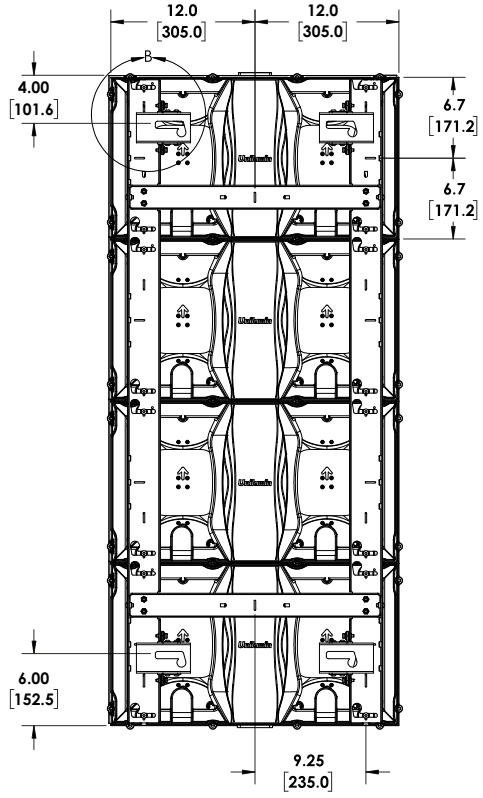




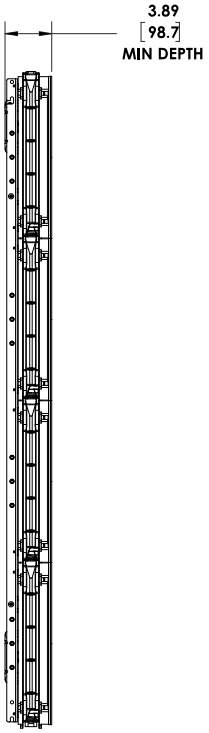
DETAIL A
SCALE 1 : 2

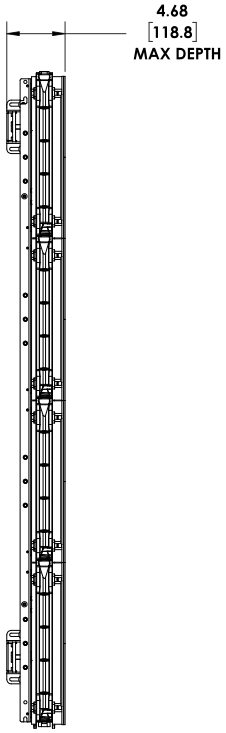


DETAIL VIEW ON SHEET 3



REAR VIEW
(WALL SIDE)

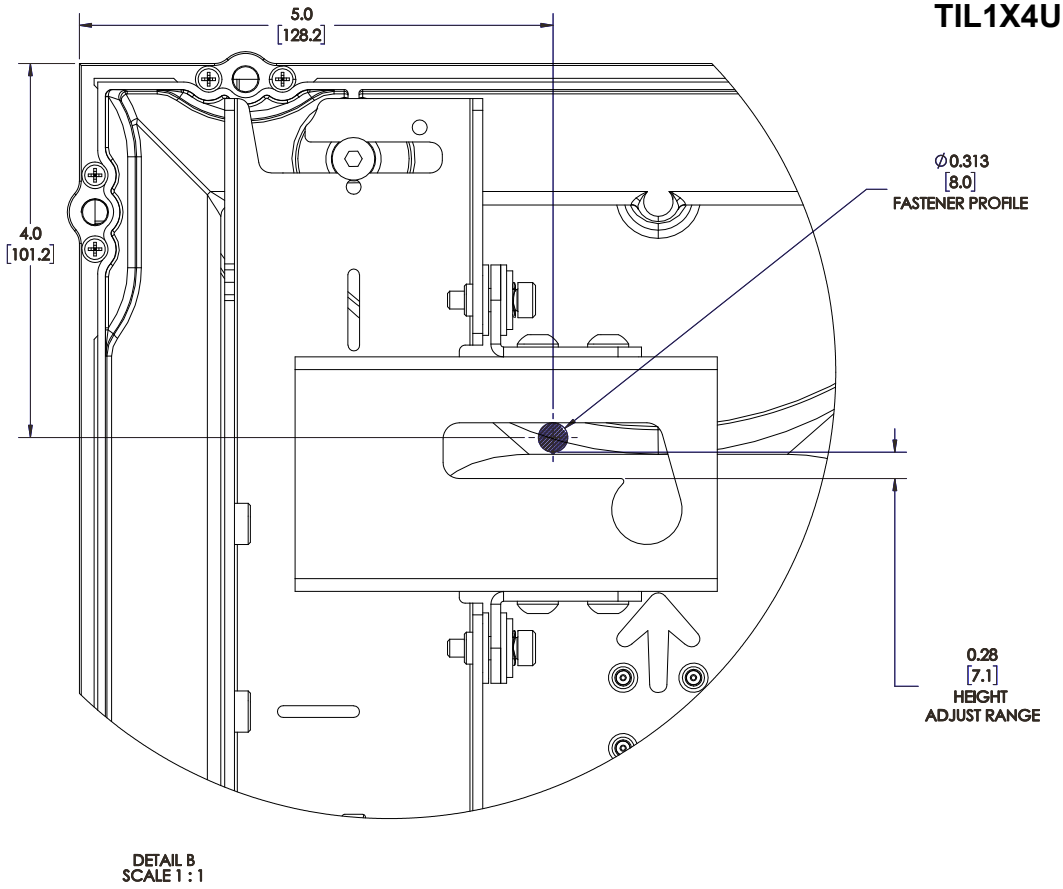




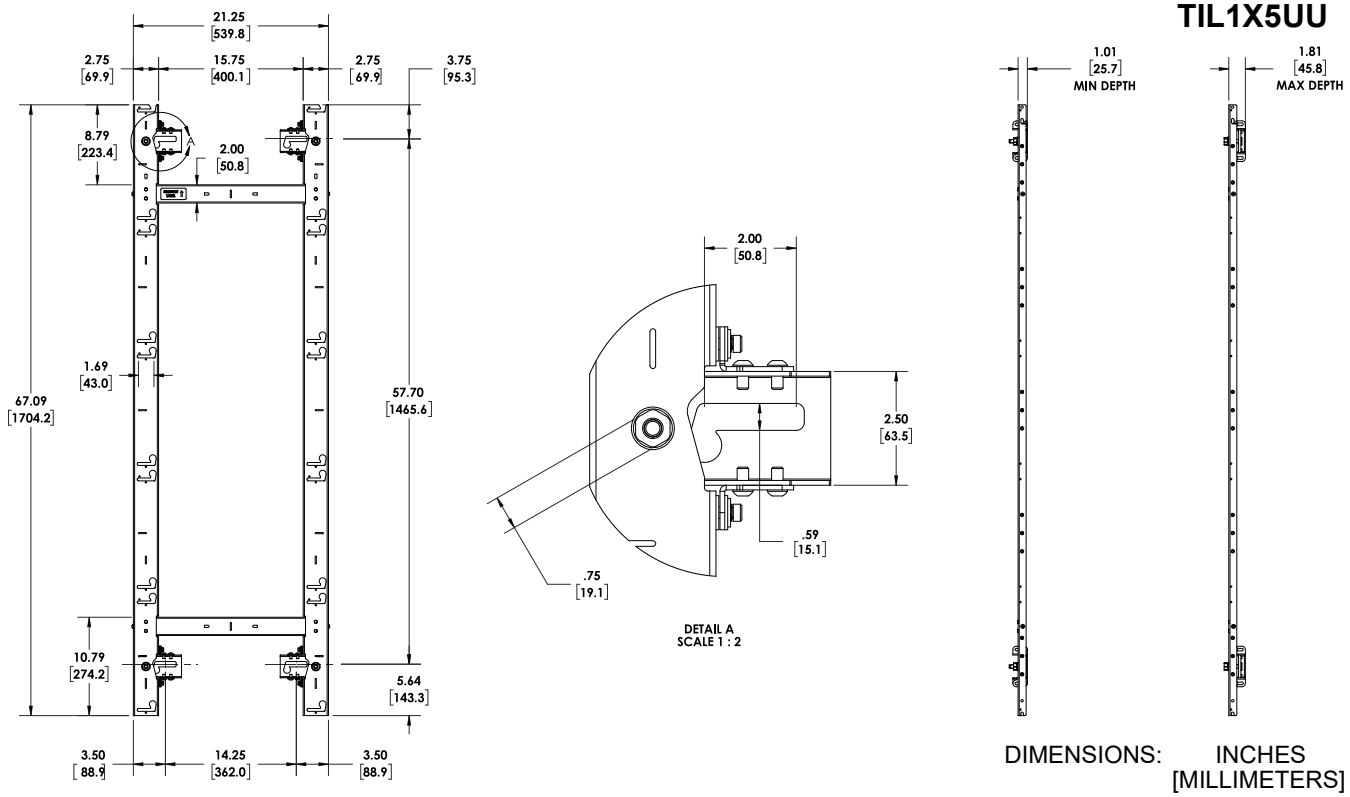
DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

TIL1X4UU cont'd



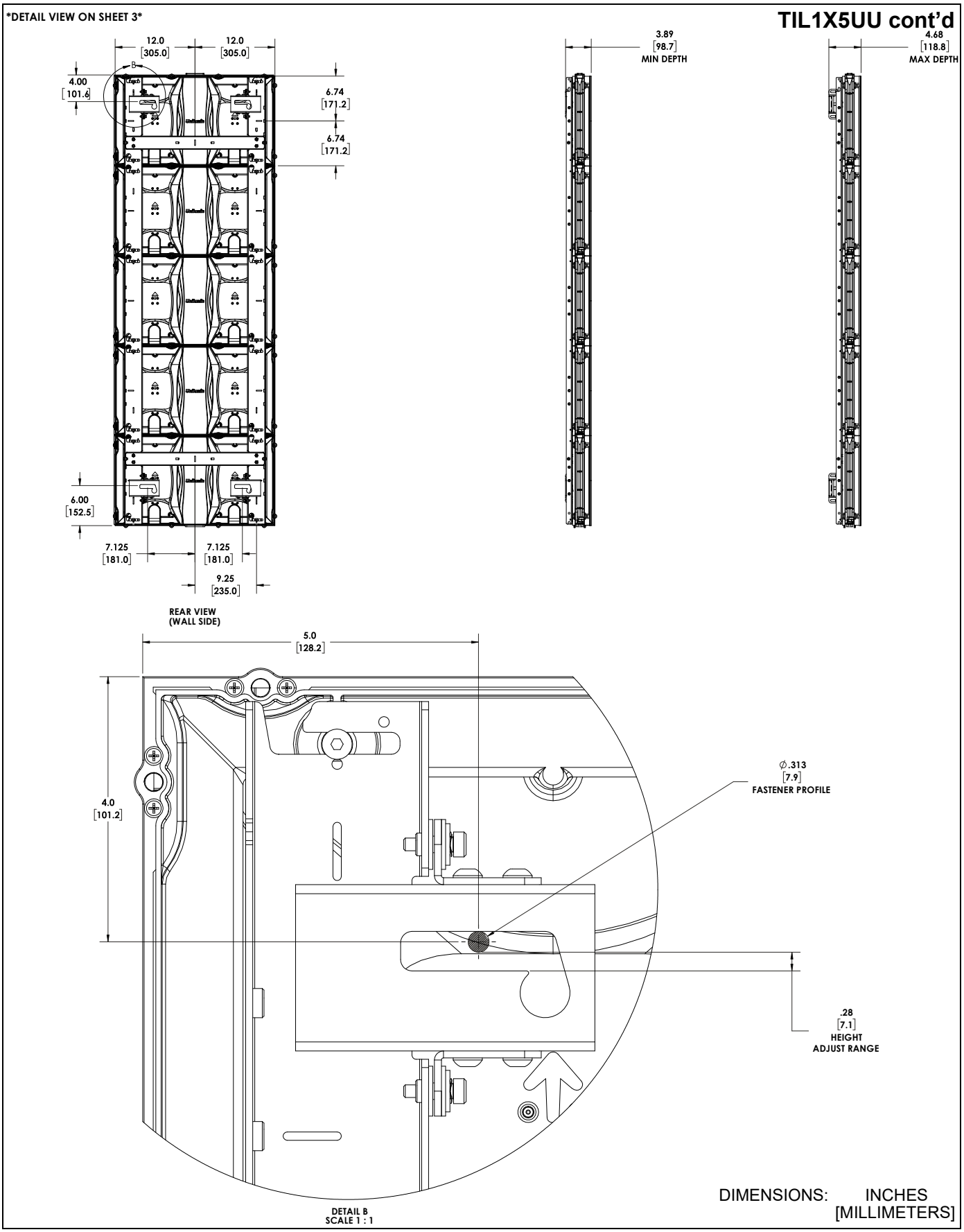
TIL1X5UU



DIMENSIONS: INCHES
[MILLIMETERS]

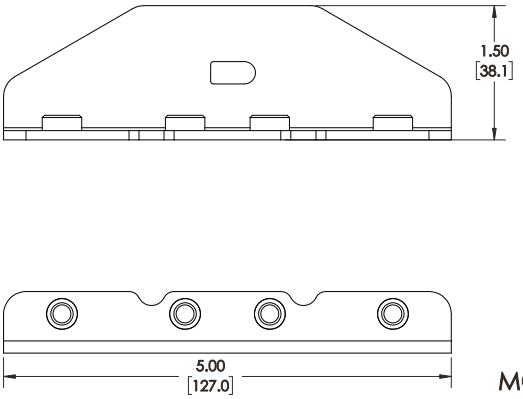
Dimensions cont....

TIL1X5UU cont'd

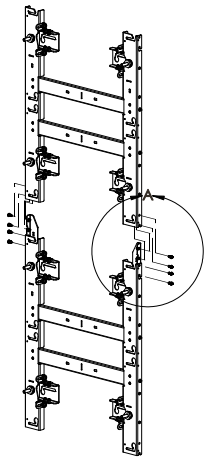


Dimensions cont...

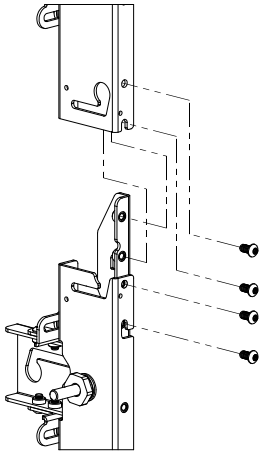
TILVABUU



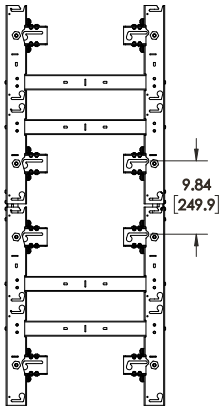
KIT INCLUDES TWO BRACKETS



MOUNTS SOLD SEPARATELY
SHOWN WITH TIL1X2UU



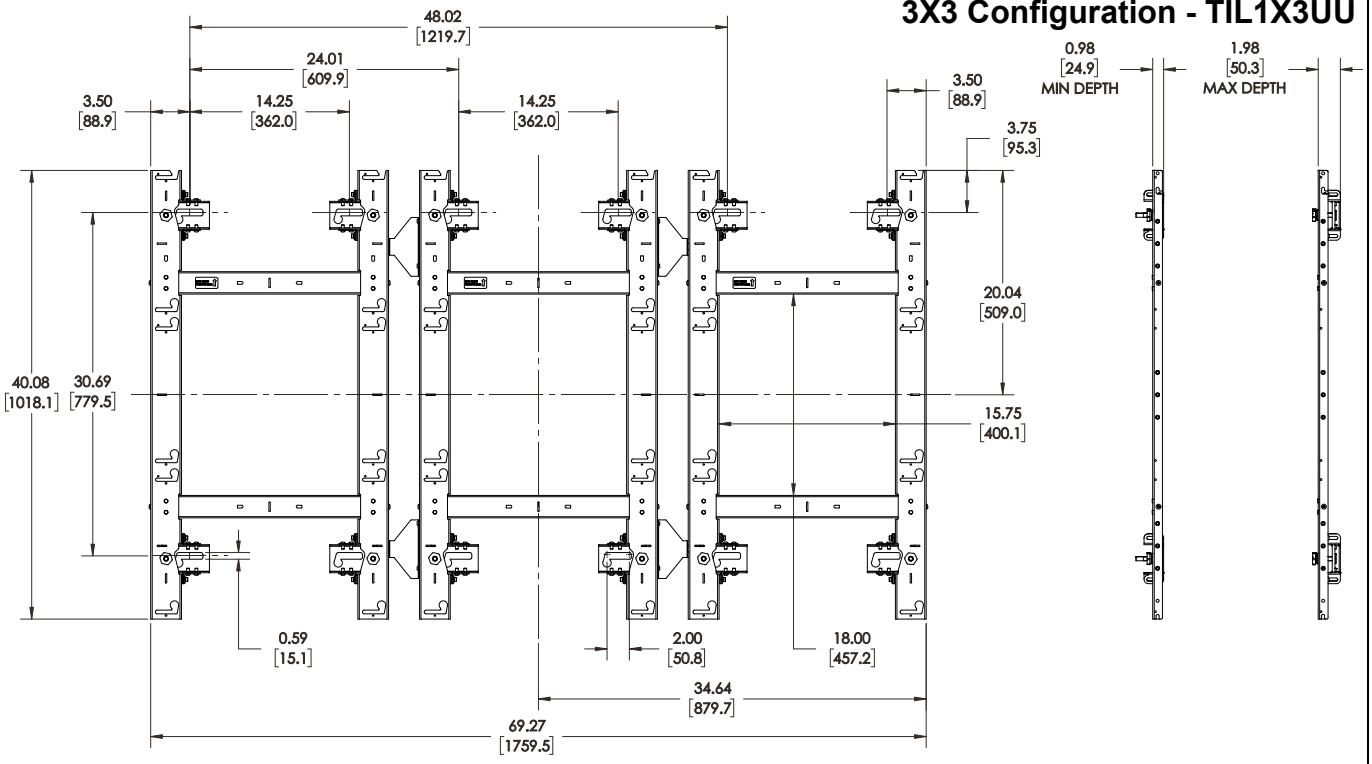
DETAIL A
SCALE 1 : 3



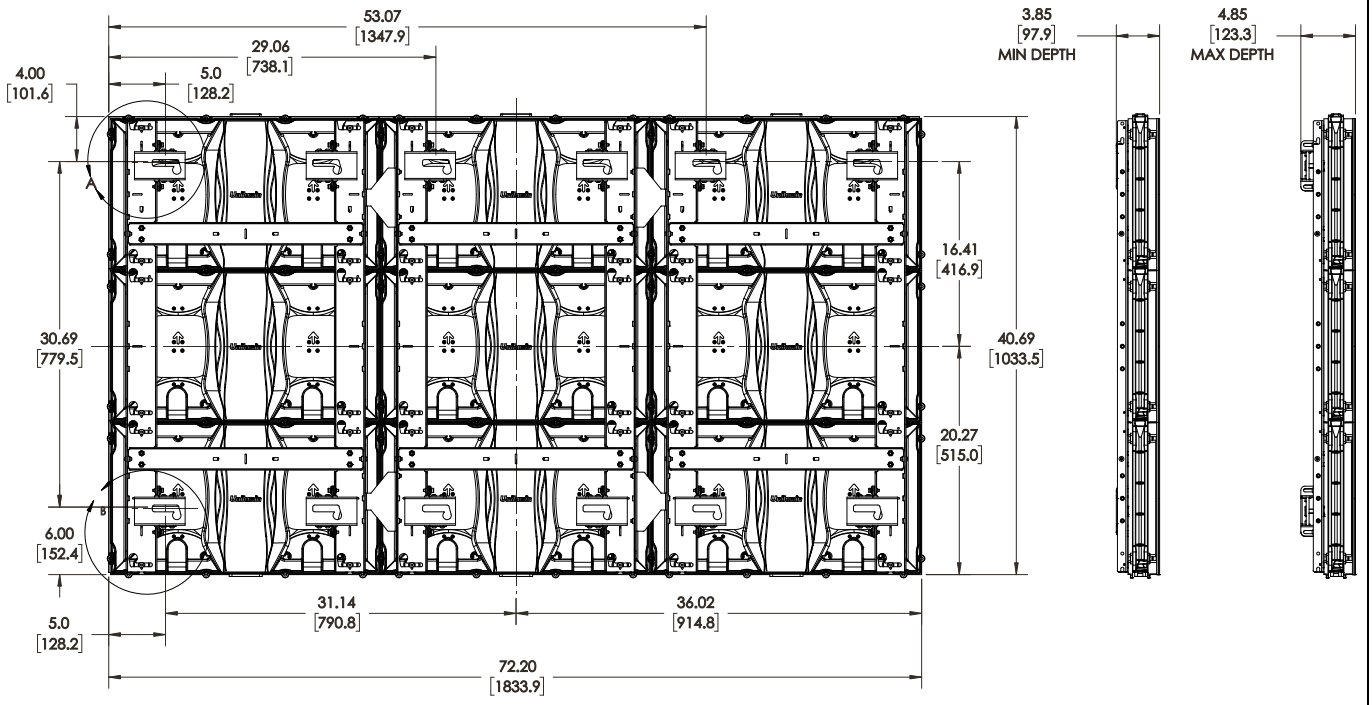
DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

3X3 Configuration - TIL1X3UU



ASSEMBLY CONSISTS OF
3-TIL1X3UU

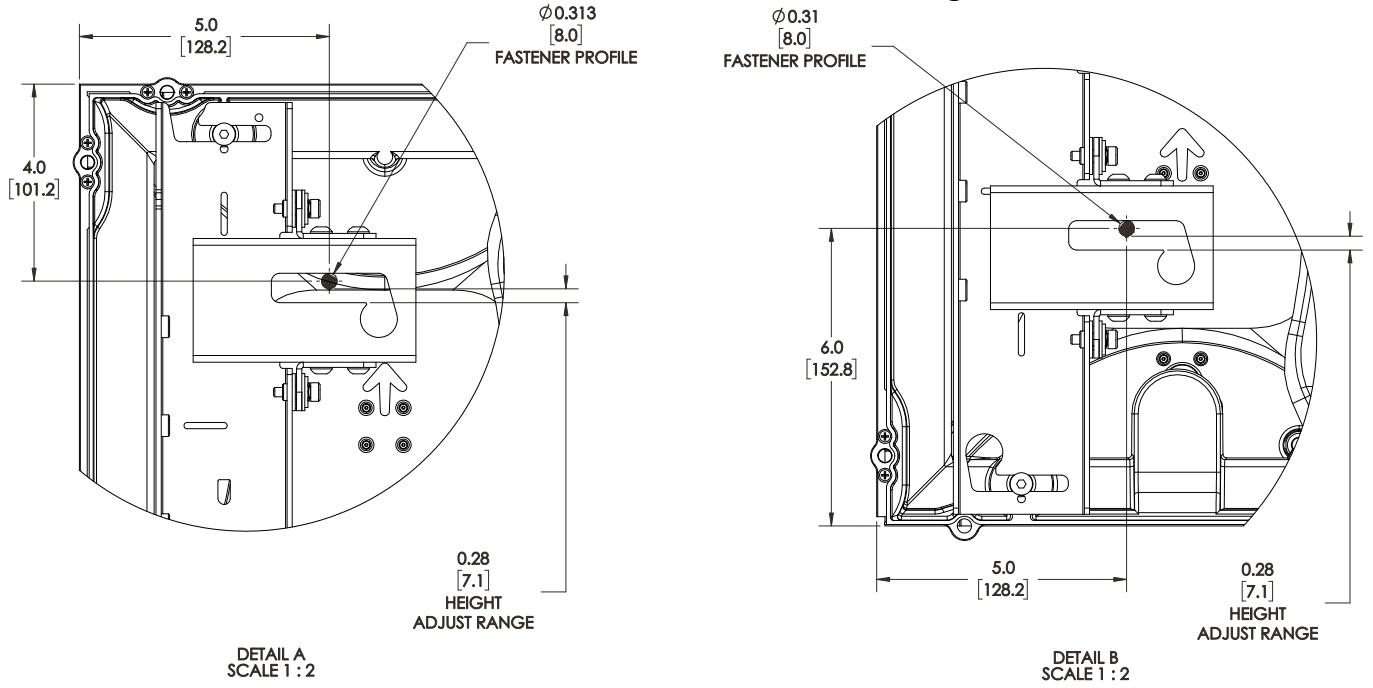


DETAIL VIEWS ON SHEET 3

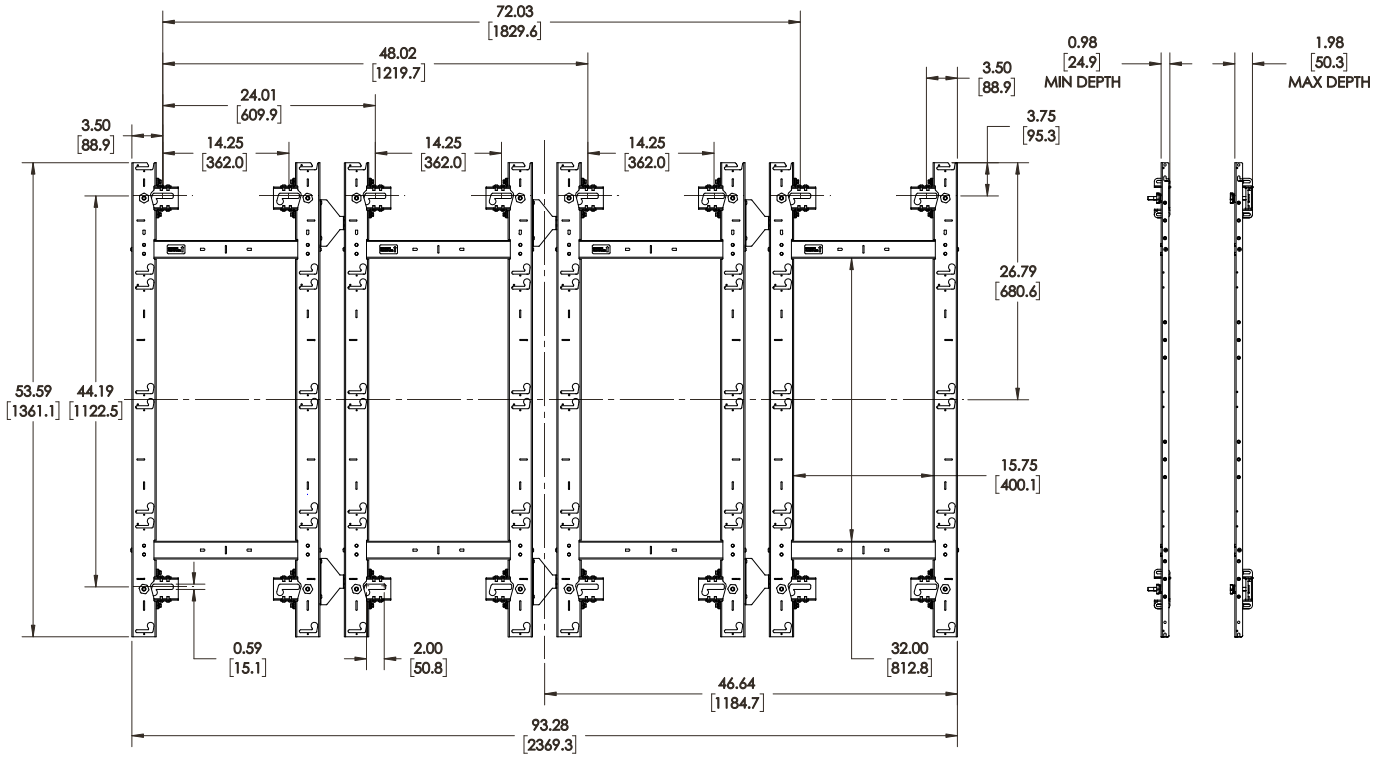
DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

3X3 Configuration - TIL1X3UU cont'd



4X4 Configuration - TIL1X4UU

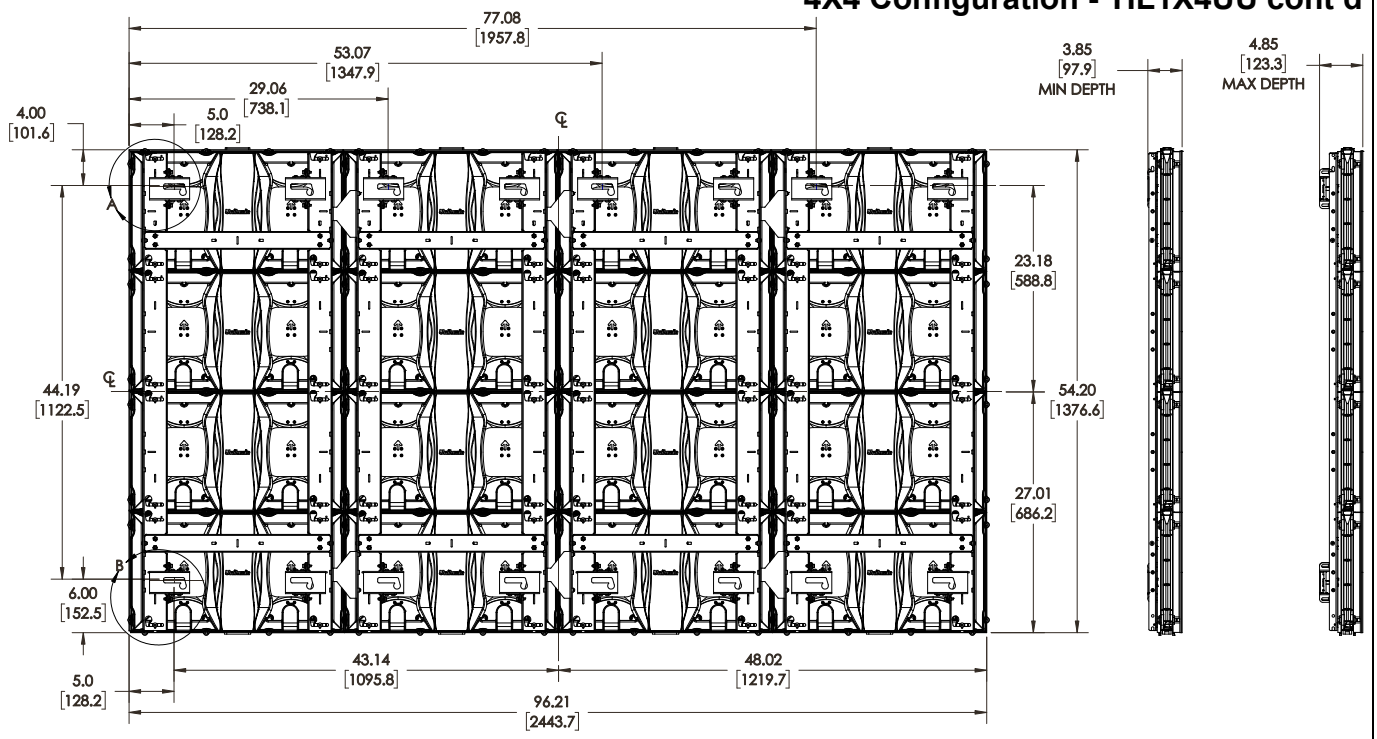


ASSEMBLY CONSISTS OF
4-TIL1X4UU

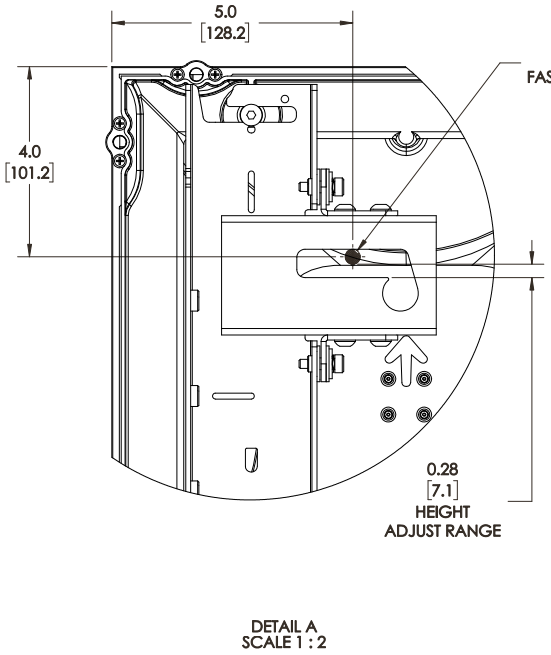
DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

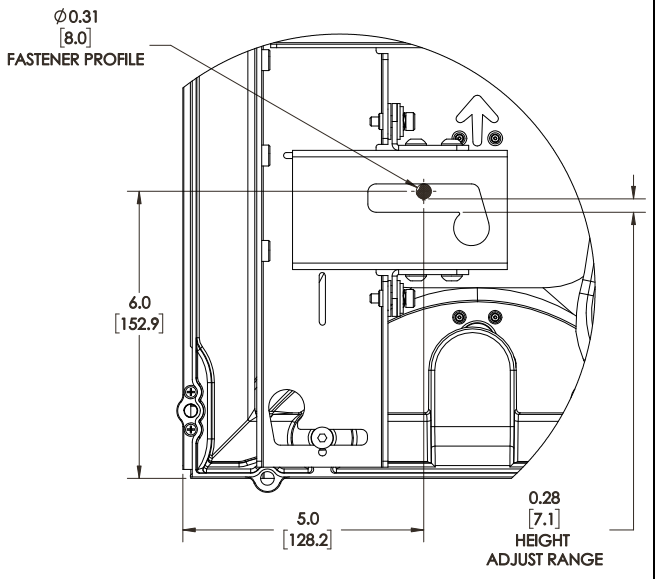
4X4 Configuration - TIL1X4UU cont'd



DETAIL VIEWS ON SHEET 3



DETAIL A
SCALE 1 : 2

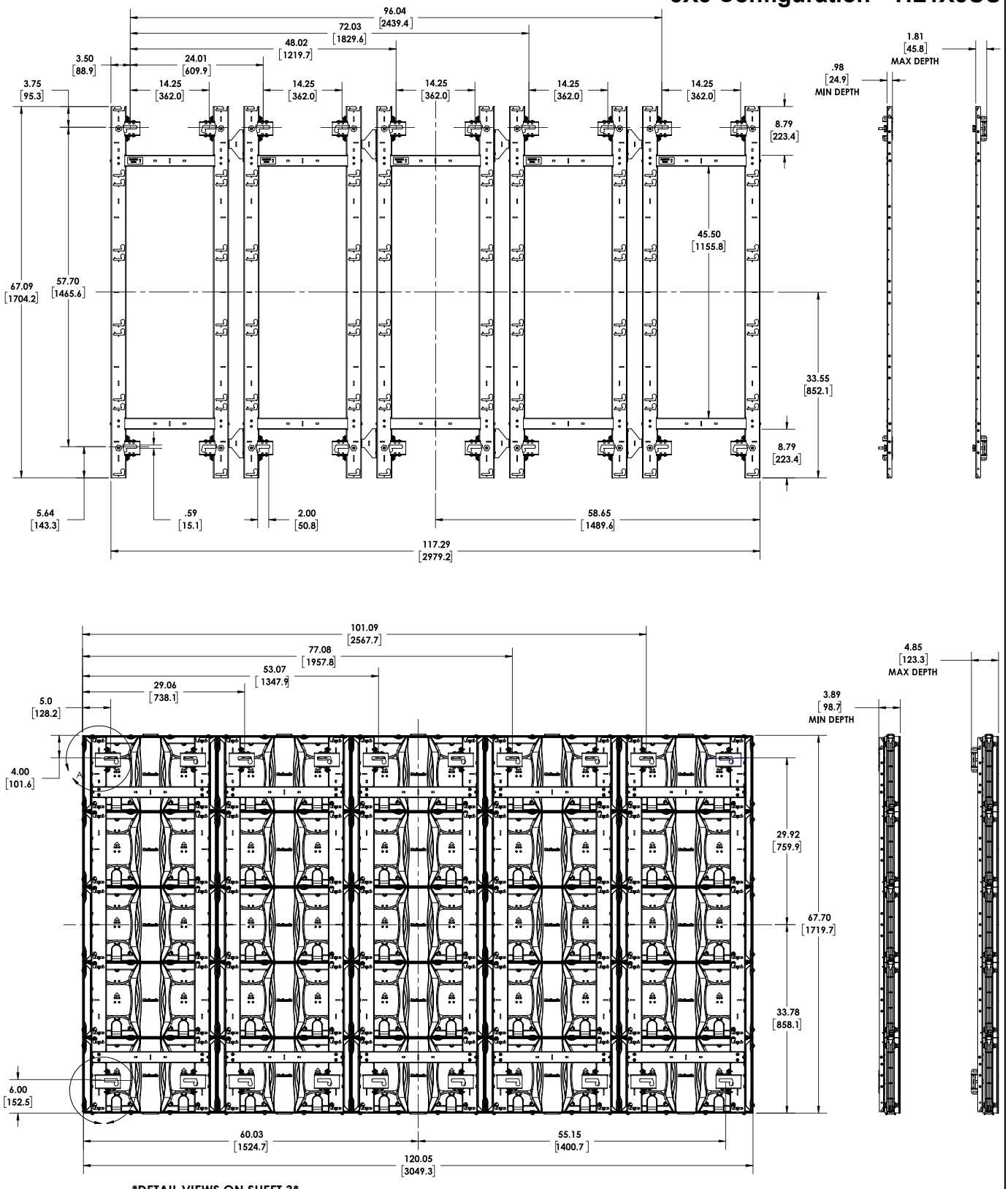


DETAIL B
SCALE 1 : 2

DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

5X5 Configuration - TIL1X5UU

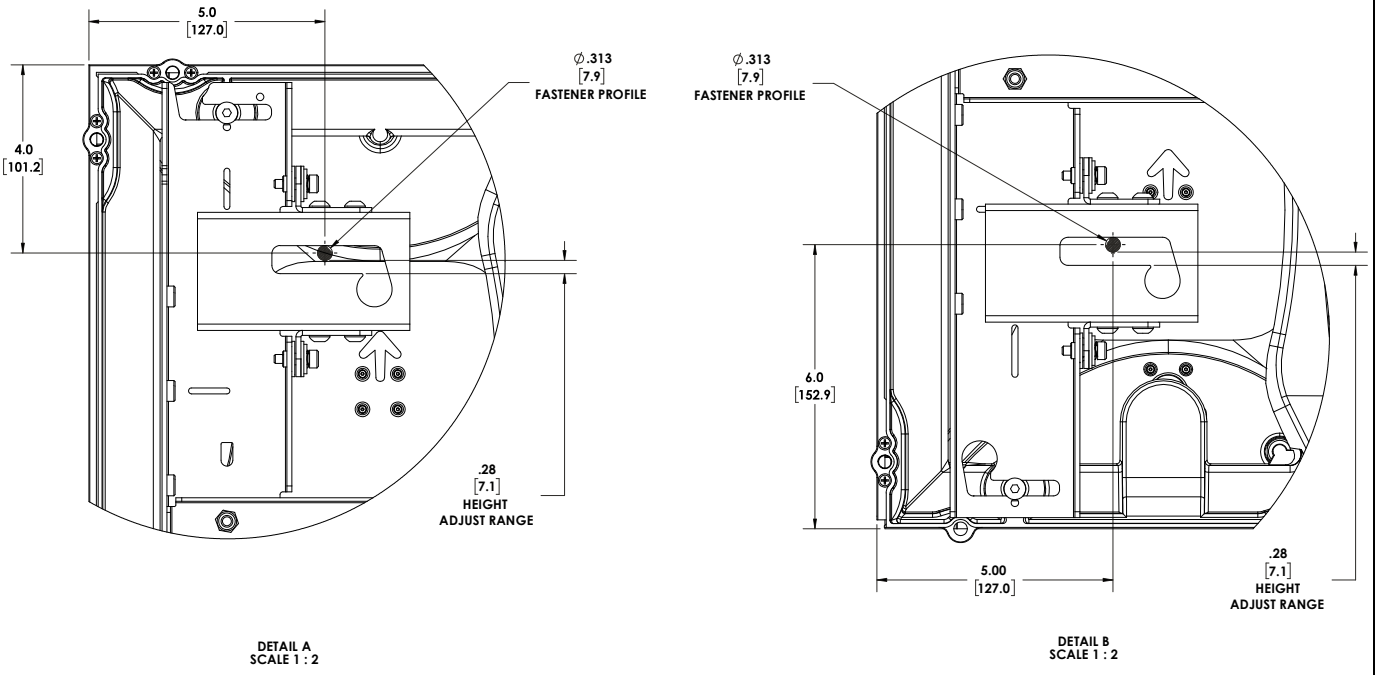


DETAIL VIEWS ON SHEET 3

DIMENSIONS: INCHES
[MILLIMETERS]

DIMENSIONS...cont'd

5X5 Configuration - TIL1X5UU cont'd



DIMENSIONS: INCHES
[MILLIMETERS]

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