B·TECH
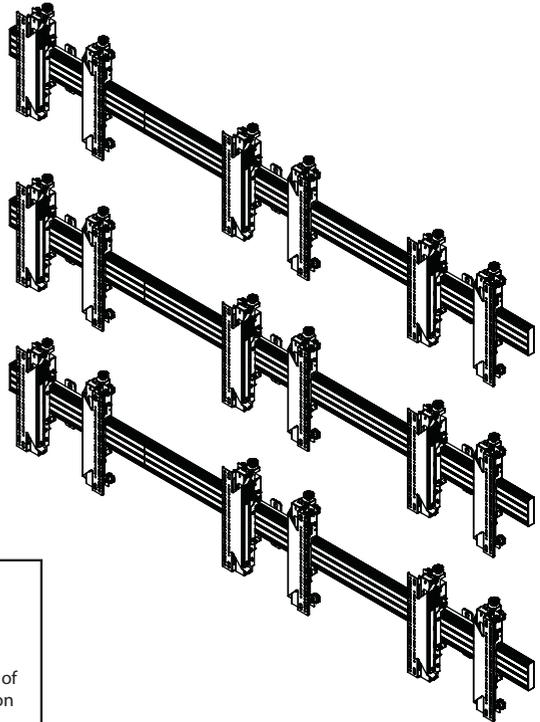
B·TECH AV MOUNTS®

SYSTEM **X**

BT8341

UNIVERSAL POP-OUT VIDEOWALL MOUNTING SYSTEM

INSTALLATION GUIDE

SPECIFICATIONS

- Recommended screen size: 39"- 70"
- Max weight per screen: 50kg (110lbs)
- Features pop-in, pop-out function to allow access to the rear of screens for servicing and maintenance and to aid installation
- Tool-less micro-adjustments for seamless display alignment
- Suitable for landscape or portrait mounting
- Sections can be joined together to increase video wall width
- Safety screws help prevent unauthorised removal of screens
- All mounting hardware included

Please refer to page 4 for VESA® fixings

Note: This assembly manual covers different installations. Some parts or procedures shown may not be required for installation.

70" 177CM

50KG

CONTENTS

INSTALLATION & OPERATING SAFETY INSTRUCTIONS

⚠ **CAUTION:** This mount is intended for use only with the maximum weights indicated. Use with equipment heavier than the maximum indicated may result in instability causing possible injury.

Do not attempt to install this product until all installation / operating instructions and warnings have been read and properly understood. *Please keep these instructions safe for future reference.*

Please check carefully to make sure there are no missing or defective parts - defective parts must never be used. B-Tech AV Mounts, its distributors and dealers are not liable or responsible for damage or injury caused by improper installation, improper use or failure to observe these safety instructions. In such cases, all guarantees will expire. Check with the place of purchase for information on any guarantees, repairs or replacements of this product.

General

B-Tech AV Mounts recommends that a professional AV installer or other suitably qualified person install this product. Great care must always be taken during installation as most AV equipment is of a fragile nature, possibly heavy and easily damaged if dropped.

If you do not fully understand the instructions or are not sure how to install this product safely, then please consult a professional for advice and/or to install this product for you. Failure to mount this product correctly may cause serious injury or death both during installation and at any time thereafter.

Do not mount any AV equipment that exceeds the specific weight limit of the product you are installing. This weight limit will be clearly stated on each product and its packaging and will vary from product to product.

Product location

Please pay careful attention to where this product is located. Check load capacity of the wall prior to installation to ensure that it can support the combined weight of the equipment and hardware, some surfaces are not suitable for installation. Warning! Secure to a solid fixture, stability can be impaired if attaching to any unsecured surface or furniture.

Designed for indoor use, this mount is suitable for public or home installation. If located in a public or frequently populated area ensure that the product is out of the immediate reach of people. f any AV equipment is to be suspended over the likely path or location of people then great care should be taken to secure all parts of the installation from falling.

When drilling holes it is essential to avoid contact with electrical cables and water or gas pipes contained within. Use of a good quality live wire detector and hidden object locator is therefore recommended.

Only drill into structures when you are sure it is safe to do so.

Fixing hardware

It is highly recommended that all fixing screws be used where supplied and that the purpose of all other fixing hardware is fully understood. In some cases more AV equipment fixing hardware will be supplied to accommodate different models of equipment and set up configurations. The installer must be satisfied that any supplied fixing hardware is suitable for each specific installation. The fixing kit supplied with the product may not be suitable for all walls.

If any fixing screws or included hardware are deemed not sufficient for a safe installation then please consult a professional or your local hardware store.

Hazard limitation

When routing cables take advantage of any built in cable management features that the product might provide and ensure that all cables are tidy and secure. Check to see that any moving aspect of the product can do so unhindered by any cabling. Some products have moving parts and the potential to cause injury through the crushing or trapping of fingers or other body parts. Particular attention to the nature of moving parts is required especially when assembling installing and adjusting during set up. Immediately after installation double-check that the work done is safe and secure. Double-check all necessary fixings are present and are of ample tightness.

Operating & Maintenance

It is recommended that periodic inspections of the product and its fixing points are made as frequently as possible (no more than 6 months apart) to ensure that safety is maintained. B-Tech AV Mounts recommends that a suitably qualified person is used for the removal of this product. Please dispose of the product carefully and with consideration to the environment. If in doubt consult a professional AV installer or other suitably qualified person.

CN B-Tech AV Mounts 建议本产品由专业AV安装人员或其他合格人员安装。 B-Tech AV Mounts 及它的代理商、经销商不对由于不恰当的安装而造成的损失或伤害负责。 本产品必须安装在合适的架构上，并仅用于不超过所标示的最大承重。

CS Společnost B-Tech AV Mounts doporučuje provést instalaci tohoto produktu instalátora AV či jinak způsobilé osoby. Společnost B-Tech AV Mounts, její distributoři a prodejci nenesou prostřednictvím odborného odpov ědnost za škody nebo zranění zp ůsobená nevhodnou instalací. Tento výrobek je nutno umístit do vhodné konstrukce a používat jen po uvedenou maximální výšku.

DE B-Tech AV Mounts empfiehlt, dass dieses Produkt durch einen qualifizierten AV-Techniker oder eine andere Person mit geeigneter Qualifikation installiert wird. B-Tech AV Mounts, ihre Distributoren und Händler können nicht für durch fehlerhafte Montage verursachte Beschädigung oder Verletzung haftbar bzw. verantwortlich gemacht werden. Dieses Produkt muss auf eine geeignetem Untergrund montiert werden und darf nur bis zum angegebenen Höchstgewicht verwendet werden.

ES B-Tech AV Mounts recomienda que un instalador de audio y video profesional u otra persona debidamente cualificada instalen este producto. B-Tech AV Mounts, sus distribuidores y concesionarios no se hacen cargo ni se responsabilizan de ningún daño o lesión provocados por una instalación inapropiada. Este producto se debe montar en una estructura adecuada y se debe utilizar soportando solamente hasta el peso máximo indicado.

FR B-Tech AV Mounts recommande de confier l'installation de ce produit à un installateur AV professionnel ou à une autre personne dûment qualifiée. B-Tech AV Mounts, ses distributeurs et ses revendeurs ne sauraient être tenus responsables de tout dégât ou de toute blessure résultant d'une installation incorrecte. Ce produit doit être monté sur un support approprié et utilisé dans la limite du poids maximum indiqué.

IT B-Tech AV Mounts consiglia di affidare l'installazione di questo prodotto a un installatore specializzato o ad altra persona adeguatamente qualificata. B-Tech AV Mounts, i suoi distributori e rivenditori non accettano alcuna responsabilità nei riguardi di eventuali danni o infortuni causati da un'errata installazione. Questo prodotto deve essere fissato a una struttura idonea e utilizzato unicamente sino al peso massimo indicato.

JP B-Tech AV Mounts はAV設置の専門家または適合した知識を備えた人が製品を設置することを推奨します。B-Tech AV Mounts と販売店、取引先はこうした安全指針に従わない場合に随伴される製品の損傷や傷害に対する責任を負いません。場合によって製品が設置されるに適していないところもあるので設置位置に特別な注意を傾けてください。この製品の位置に注意を傾けて設置に適していない壁がいるかを確認してください。指定した重さ制限を超過するAV装備を装着しないでください。

KR B-Tech AV Mounts 는 AV 설치 전문가 또는 적합한 지식을 갖춘 사람이 제품을 설치하도록 권장합니다. B-Tech AV Mounts 와 판매점, 거래처는 이러한 안전 지침을 따르지 않을 경우에 수반될 제품의 손상이나 상해에 대한 책임을 지지 않습니다. 경우에 따라 제품이 설치되기에 적합하지 않은 곳들도 있으므로 설치 위치에 특별한 주의를 기울여 주시기 바랍니다. 제품의 설치 위치에 주의를 기울여 확인하십시오. 지정된 무게 제한을 초과하는 AV 장비를 장착하지 마십시오.

NL B-Tech AV Mounts adviseert om dit product te laten installeren door een professionele AV-installateur of andere hiervoor gekwalificeerde persoon. B-Tech AV Mounts , haar distributeurs en dealers zijn niet aansprakelijk of verantwoordelijk voor schade of letsel die is veroorzaakt door onoordeelkundige installatie. Dit product moet worden gemonteerd aan een geschikte constructie, waarbij het aangegeven maximum gewicht niet mag worden overschreden.

PL Firma B-Tech AV Mounts zaleca, aby ten produkt był instalowany przez profesjonalnych instalatorów AV lub inny odpowiednio przeszkolony personel. Firma B-Tech AV Mounts, jej dystrybutorzy i dealerzy nie ponoszą odpowiedzialności za uszkodzenia lub obrażenia ciała powstałe w wyniku nieprawidowej instalacji. Niniejszy produkt musi być amontowany na odpowiedniej powierzchni, a podczas użytkowania nie wolno przekraczać podanego maksymalnego obciążenia.

PT A B-Tech AV Mounts recomenda que a instalação deste produto seja efectuada por um instalador de AV instalador de AV profissional ou outra pessoa devidamente habilitada. A B-Tech AV Mounts e os seus distribuidores e concessionários não são responsáveis por danos ou lesões causados por uma instalação incorrecta. Este produto tem de ser montado numa estrutura adequada e utilizado somente até ao peso máximo indicado.

RU Компания B-Tech AV Mounts рекомендует, чтобы установка данного изделия производилась инженером по установке аудтио-видеотехники или другим специалистом с соответствующей квалификацией. Компания B-Tech AV Mounts ее дистрибьюторы и дилеры не несут ответственности за повреждения или травмы, полученные в результате неправильной установки.

توصي بي- تك للتجارة الدولية المحدودة بأن شخص محترف فى تركيب ال AV او شخص مؤهل تأهيلا مناسبا لتركيب هذا المنتج. بي- تك للتجارة الدولية، موزعيها والتجار ليست عرضة أو مسؤولة عن الأضرار أو الإصابات الناجمة عن تركيب غير سليم، والاستخدام غير السليم أو عدم مراعاة هذه التعليمات للسلامة. يجب أن يتم تركيب هذا المنتج فى بنية مناسبة ويجب استخدامة فقط لدعم الحد الاقصى للوزن المشار اليه.

3

BT8341 **PARTS LIST**

PLEASE KEEP THIS FOR FUTURE REFERENCE

Due to the multiple installations available the quantity for each option below is dependent on the mount ordered.

RAIL MOUNTING BRACKET

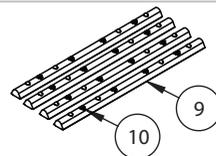BT8390-WFK1

5

1

4

8

MOUNTING RAIL

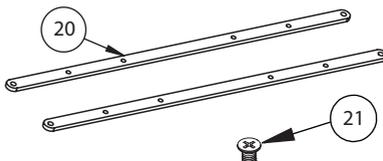| BT8390-050 Length: 50cm	BT8390-070 Length: 70cm	BT8390-150 Length: 150cm
BT8390-175 Length: 175cm	BT8390-200 Length: 200cm	BT8390-300 Length: 300cm

7
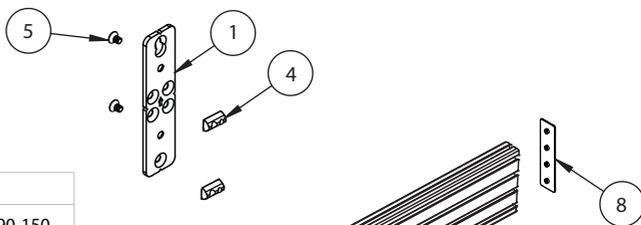
OPTIONAL MOUNTING RAIL EXTENSION KIT

BT8390-EXT

9

10

SCREEN INTERFACE ARMS

BT8390-VESA400MAP

13

12

15

16

14
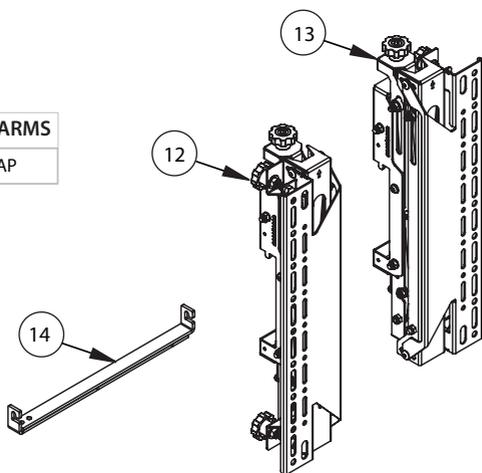
OPTIONAL INTERFACE ADAPTOR ARMS

BT7564 VESA 600mm	BT7565 VESA 800mm	BT7566 VESA 900mm

20

21

Max Load
50kg (110lbs)
Per Screen

50KG

All these components can be moved or carried by manpower. Please be careful to avoid injury when handling these components before & during the installation or when uninstalling the mount.
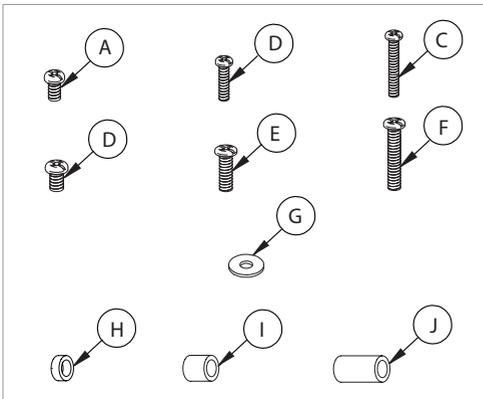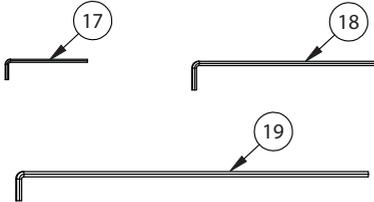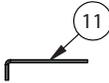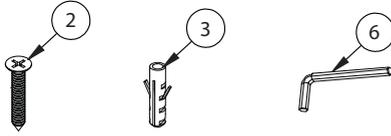
ITEM	PART NAME	QTY PER PACK
RAIL MOUNTING BRACKET		
1	WALL FIXING PLATE	1
2	ST8 x 45mm CSK WOOD SCREW	2
3	No.10 WALL PLUG	2
4	M8 SLIDING NUT	2
5	M8 x 12mm CSK SCREW	2
6	5AF HEX KEY	1
MOUNTING RAIL		
7	MOUNTING RAIL	1
8	END CAP	2
RAIL EXTENSION KIT *(OPTIONAL)*		
9	JOINING BAR	6
10	M6 x 8mm GRUB SCREW	24
11	3AF HEX KEY	1
SCREEN INTERFACE ARMS		
12	LEFT INTERFACE ARM	1
13	RIGHT INTERFACE ARM	1
14	ADJUSTABLE BRACE	1
15	M5 x 6mm SCREW	2
16	M6 x 35mm SCREW	2
17	3AF HEX KEY	1
18	4AF HEX KEY	1
19	5AF HEX KEY	1
SCREEN FIXING KIT		
A	M6 x 16mm SCREW	4
B	M6 x 25mm SCREW	4
C	M6 x 40mm SCREW	4
D	M8 x 16mm SCREW	4
E	M8 x 25mm SCREW	4
F	M8 x 40mm SCREW	4
G	M6 WASHER	4
H	5mm SPACER	4
I	13mm SPACER	4
J	24mm SPACER	4
ADAPTOR ARMS *(OPTIONAL)*		
20	ADAPTOR ARMS	2
21	M8 x 12mm SCREW	4

INSTALLATION TOOLS REQUIRED

Drill

Drill bit
10mm Masonry bit
or 4mm (5/32") Wood bit

Pencil

Crosshead
screwdriver

Level

Stud finder
(optional)

B TECH
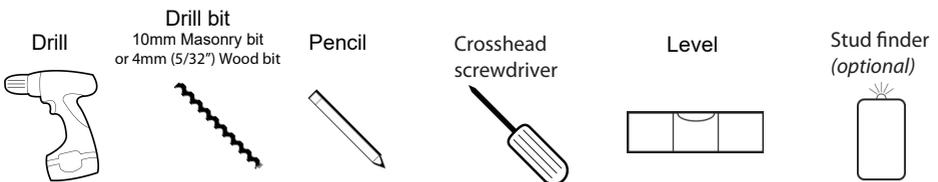
TYPICAL INSTALLATION

2 x 2 Videowall installation with VESA 400 Micro-Adjustment Pop-Out Arms

ASSEMBLED SIDE VIEW

CLOSED

BT8390-VESA400MAP

BT8390-WFK1

Centre of
BT8390 Rail

BT8390 Rail

Distance from
wall 105.4mm
(Tolerance ±1mm)

236.6mm
+/-20mm Height Adjustment

215mm
+/-20mm Height Adjustment

+/-10mm Depth Adjustment

OPEN

273.9mm (Tolerance ±1mm)

+/-10mm Depth Adjustment
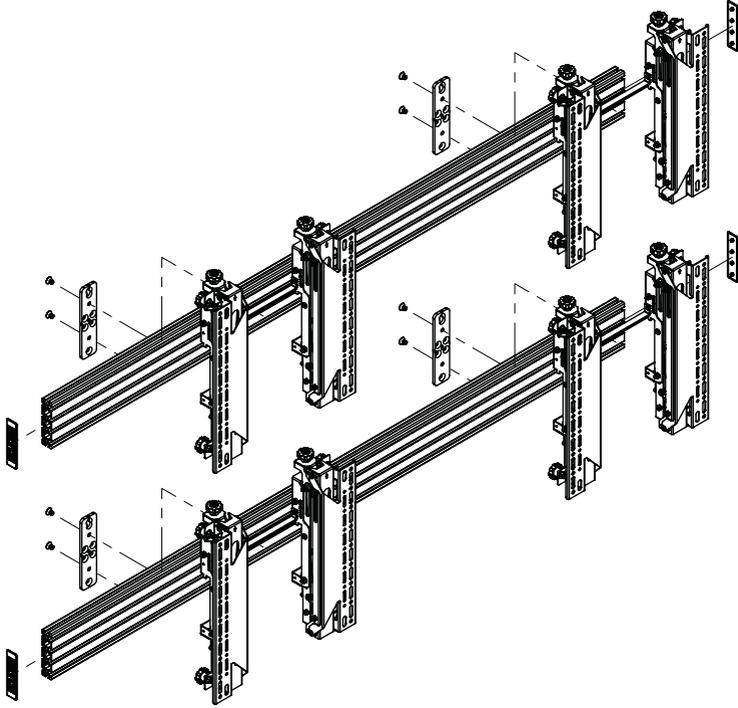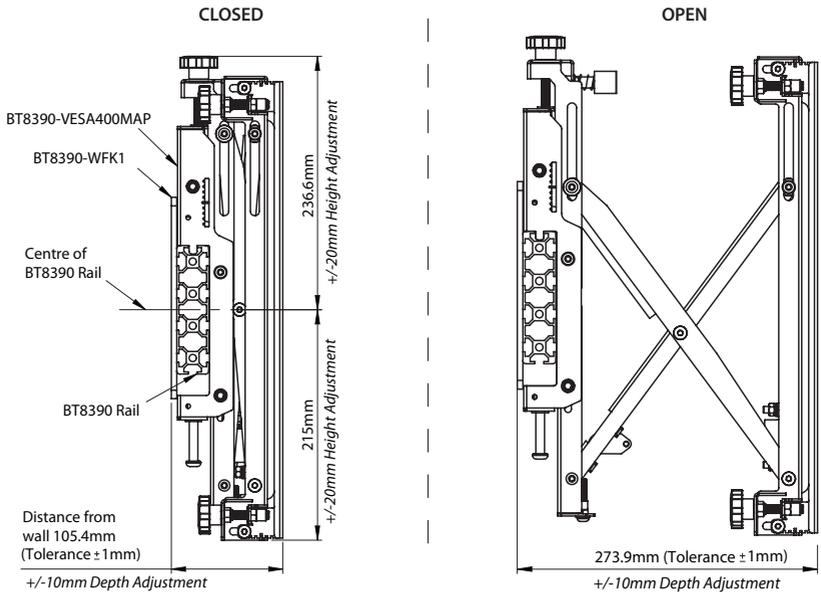
COMBINING MOUNTING RAILS

i. On one side of *item 7,* insert 4x *item 9* half-way into each channel.

ii On the back side of *item 7*, insert 1x *item 9* in the second channel
and 1 x *item 9* in the third channel - *See Fig. 1*

iii. Fasten *item 10* loosely on each joining bar, fixing it to the mounting rail.

iv. Slide the second *item 7* onto *item 9* and tighten all *items 10*, combining the rails securely.

JOINING BAR ASSEMBLY

Fig. 1

BACK   FRONT
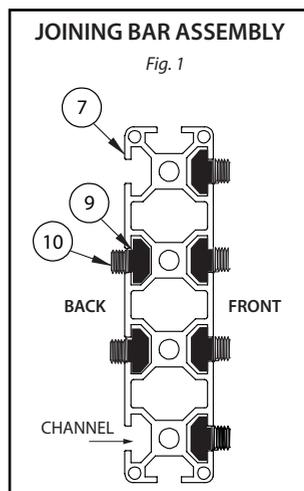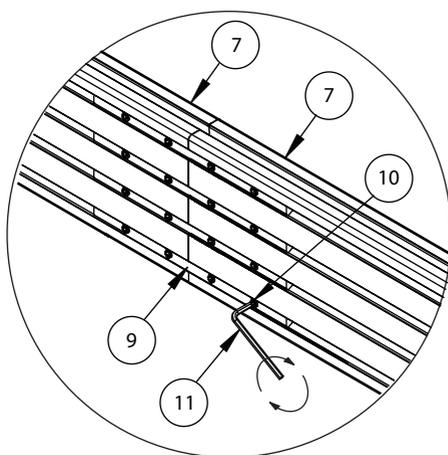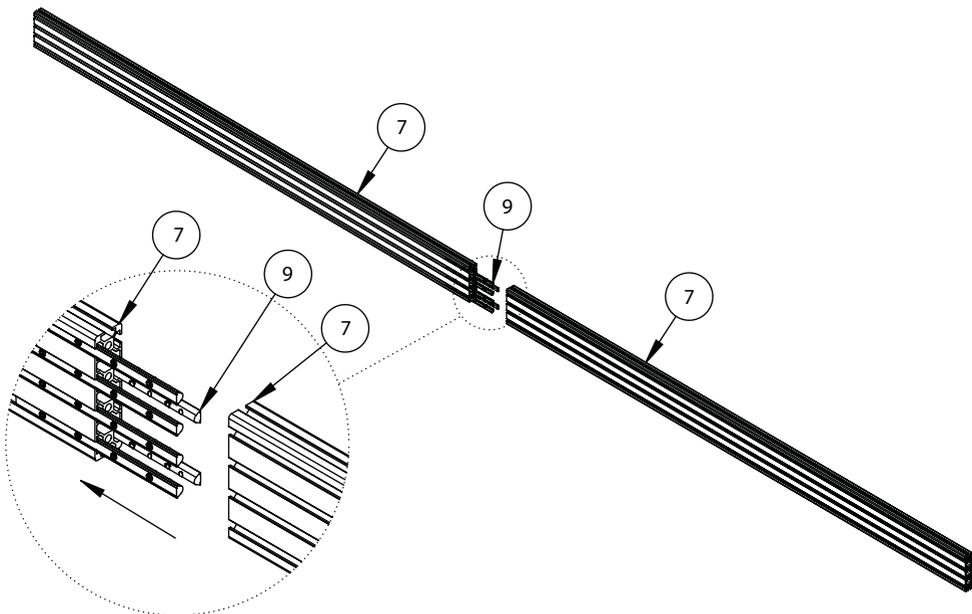
CHANNEL

Combined Mounting Rails

INSTALLATION INSTRUCTIONS

1. ASSEMBLE WALL PLATES TO MOUNTING RAIL

i. For each *item 1* used insert 2x *item 4* into *item 7*.
1 in the top channel and 1 in the bottom channel.
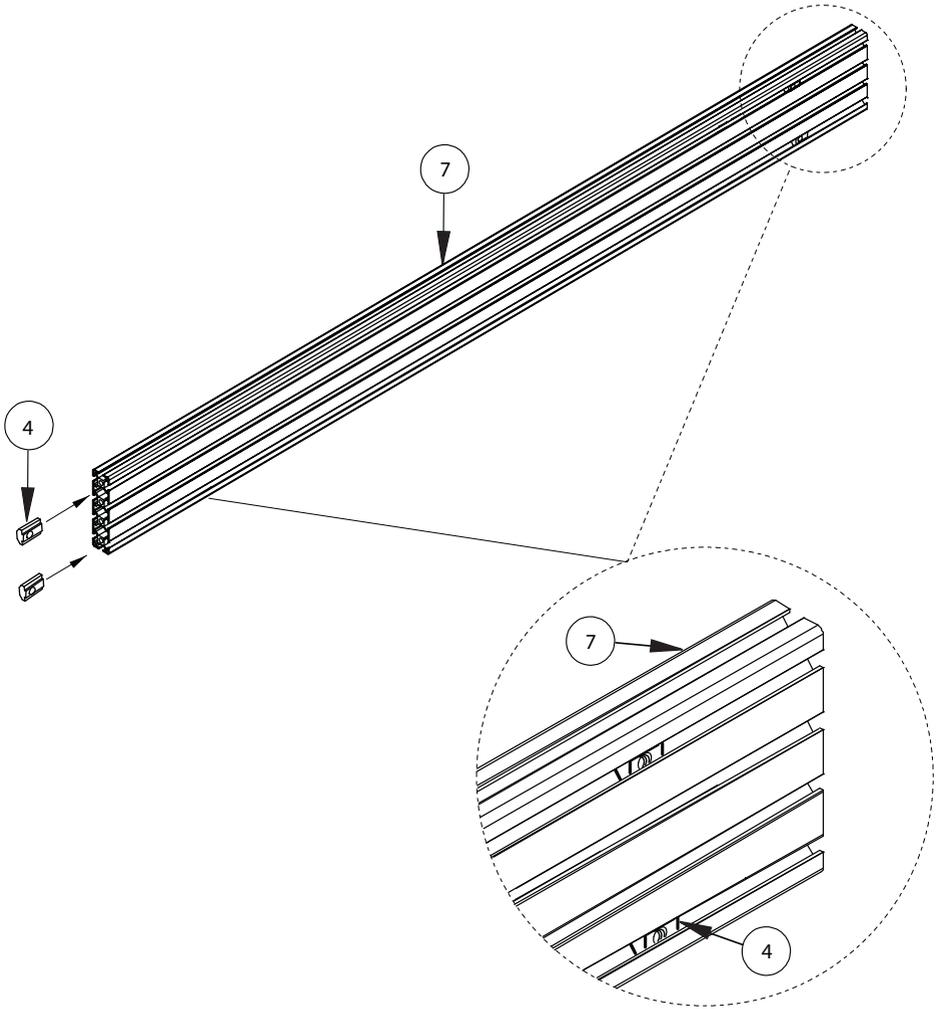
ii. Attach *item 1* to *item 7* by fastening *item 5* into *item 4*.

BACK
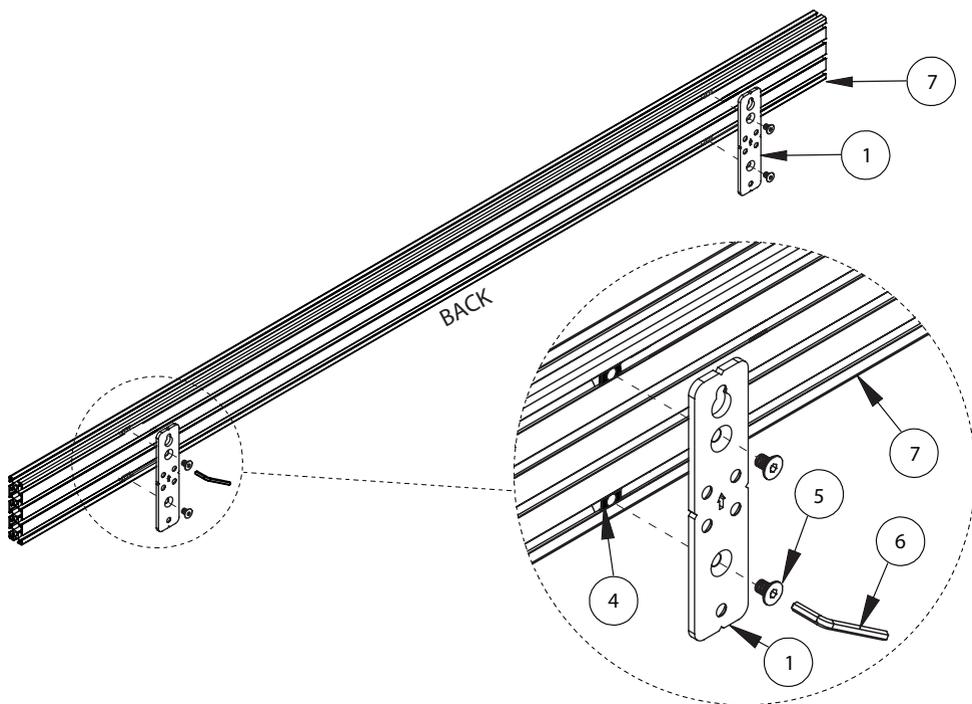
Required quantity of Wall Plates *(item 1)*

2pcs for up to 2000mm (0 - 79")
3pcs for 2100mm - 3500mm (80" - 139")
4pcs for 3600mm - 6000mm (140" - 239")
5pcs for 6100mm - 8000mm (240" - 319")
6pcs for 8100mm - 10000mm (320" - 400")

Depth
35mm (1.38")
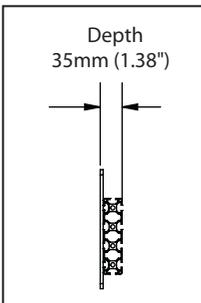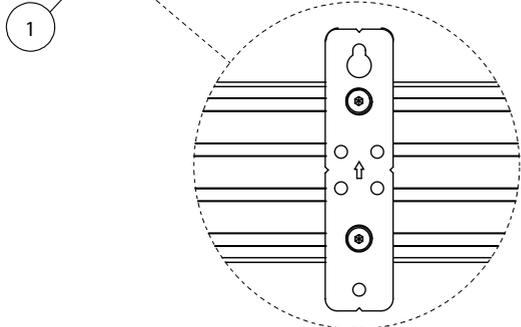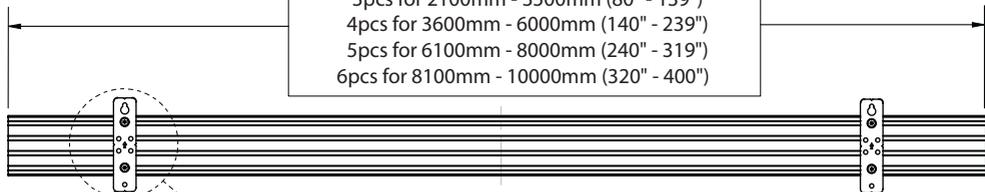
2. INSTALLING THE MOUNT

i. Determine the centre of the first screen at the bottom left. Mark the centre, for the centre of the rail.

WALL
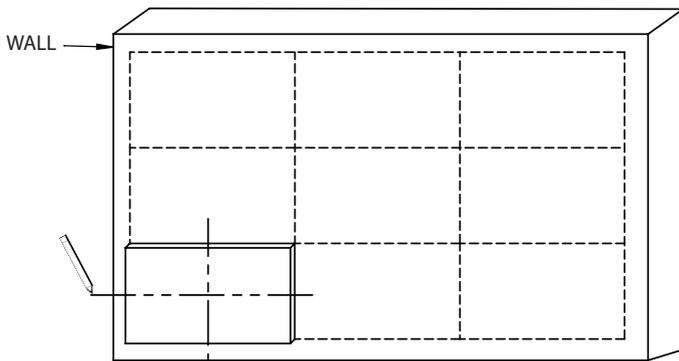
ii. Mark and drill two fixing holes for each *item 1* assembled.
Insert *item 3* and the top *item 2*. *Do not fully tighten* -
Allow a gap (approx.10mm).

iii. Hook *item 1* on to *item 2* using the keyholes.
Once the rail is hooked on, fasten *item 2* into the
bottom holes and tighten all fixings.

iv. Fit *item 8* to the ends of *item 7*.

ii.

3

2

158mm

WALL

10mm Masonry bit

10mm

WALL

Centre of
screen
marked
on wall

1

7

WALL

2

LEVEL

(Top of rail to top of rail)
Screen height +1mm

Centre of rail

Centre lines aligned
when fixed to wall

8
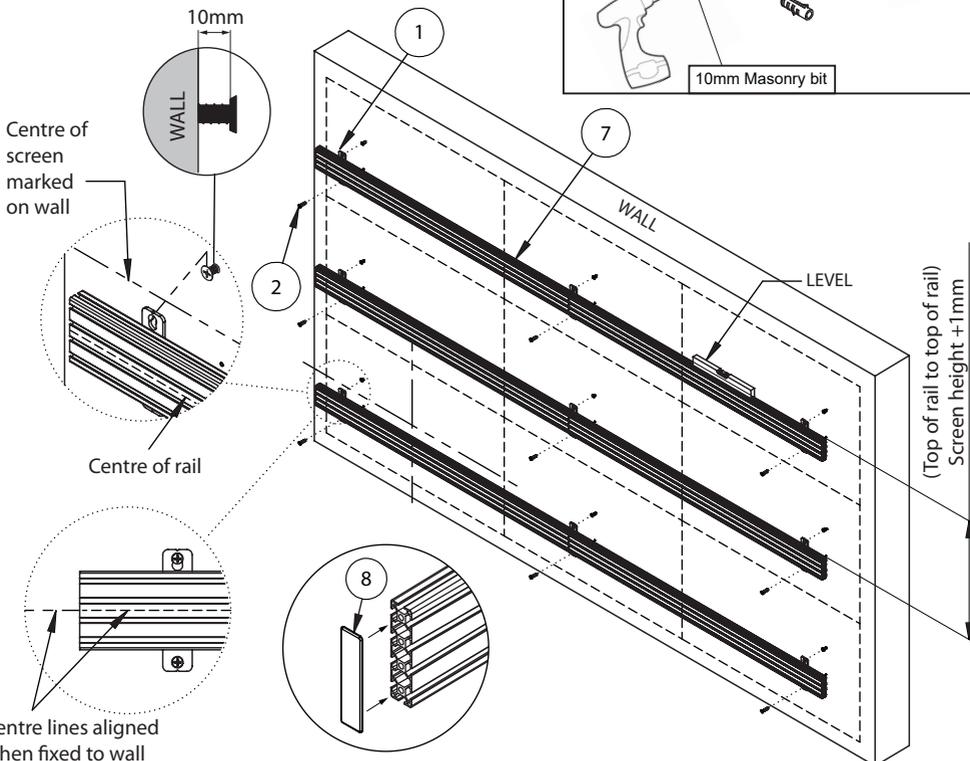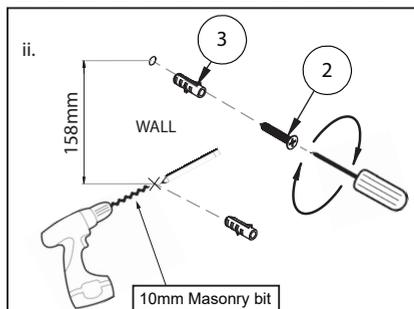
3. ATTACH INTERFACE ARMS TO SCREEN

Fix *items 12* & *13* to the rear of the screen using *items A-J*.
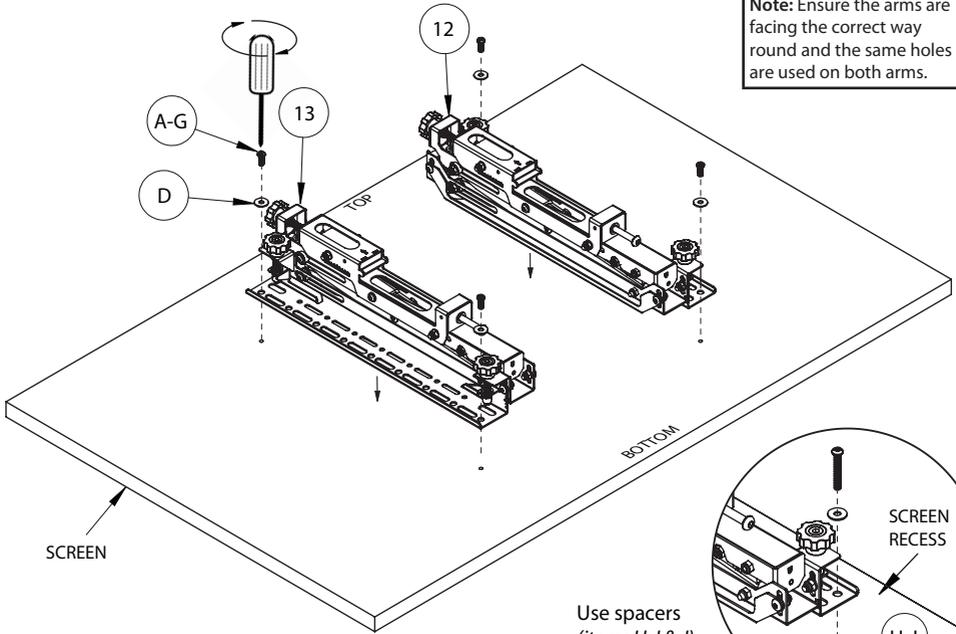
Note: Ensure the arms are facing the correct way round and the same holes are used on both arms.

A-G

13

D

12

TOP

BOTTOM

SCREEN
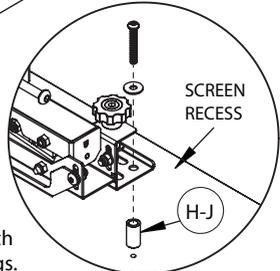
SCREEN RECESS

Use spacers *(items H, I & J)* for screens with recessed fixings.

H-J

OPTIONAL **ADAPTOR ARMS**

ATTACH ADAPTOR ARMS TO INTERFACE ARMS

i. Use *item 21* to fix *item 20* to *items 12 & 13*.
ii. Attach *item 20* to the screen using the screen fixing kit.

NOTE: Portrait mounting shown.

A-G

13

21

12

20

TOP

BOTTOM

SCREEN
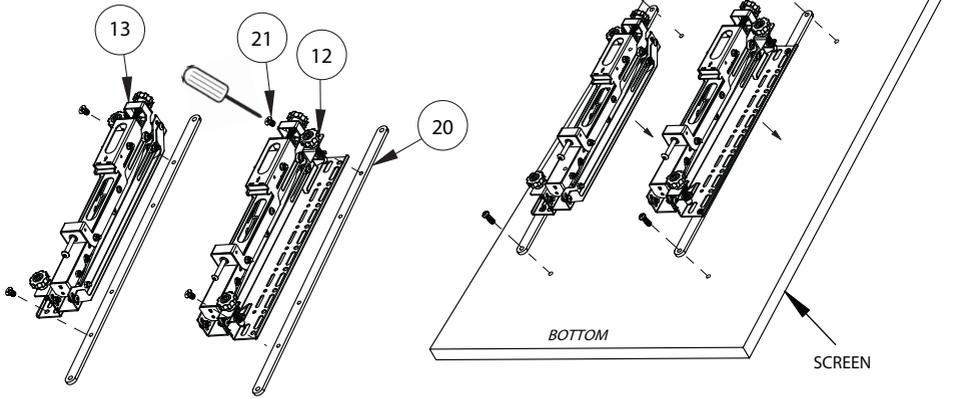
4. **CONNECT INTERFACE ARMS WITH THE ADJUSTABLE BRACE**

Note: Adjustable brace *(item 14)* is only suitable for horizontal VESA fixings from 400 - 600mm.

i. Extend *item 14* and fix at desired length by tightening the 2 screws.
Note: The 3 notches show the position for interface fixings at 400mm, 500mm and 600mm.
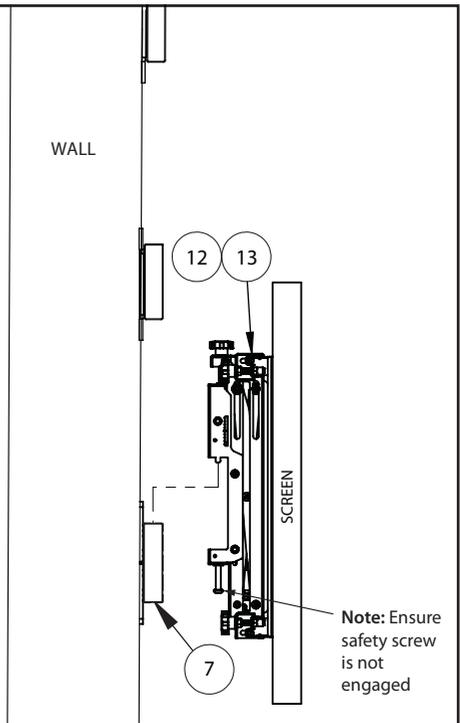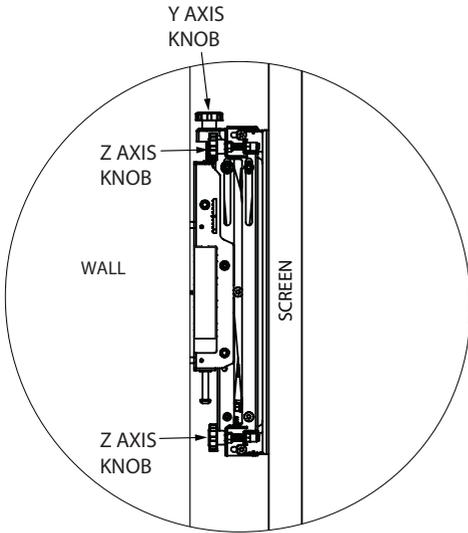

14

For screens with interface holes 600mm apart, extend *item 14* to the 600 settting.

SCREWS

17

600
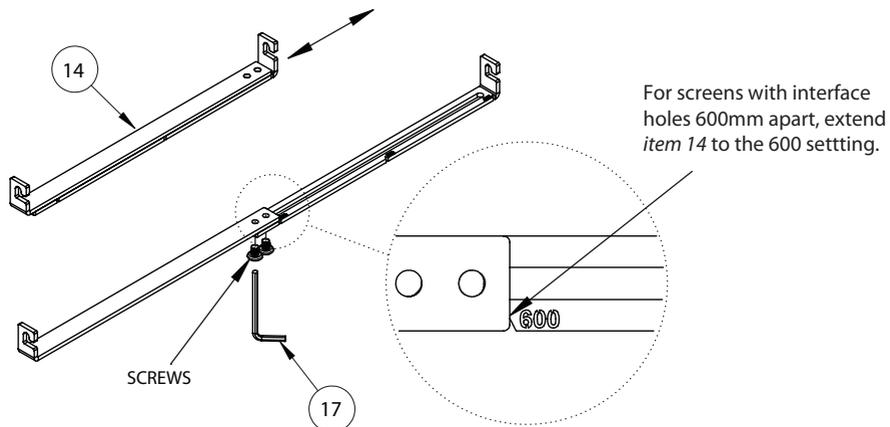
ii. Fix *item 14* to *items 12 & 13* for easy lateral adjustment.

17

12

15

12

14

13

Distance between interface holes

15

14
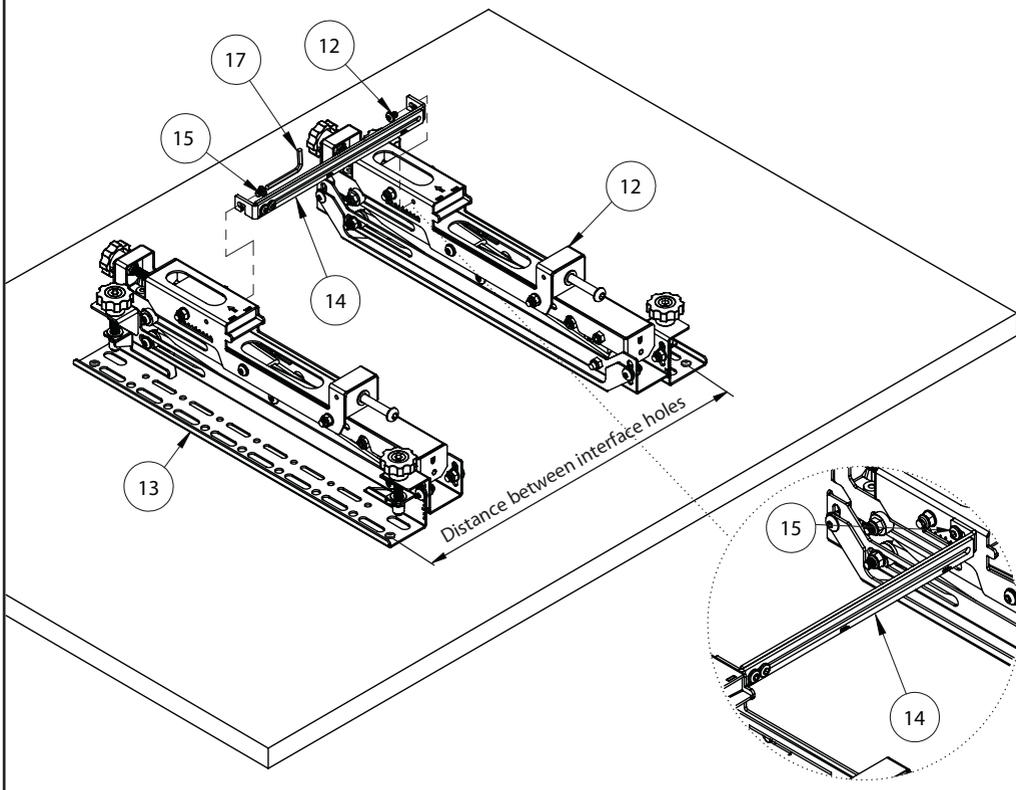
5. HOOK SCREEN ONTO RAIL

Hook the first screen onto bottom rail.

Y AXIS KNOB

Z AXIS KNOB

WALL

SCREEN

Z AXIS KNOB

WALL

12 13

SCREEN

7

Note: Ensure safety screw is not engaged

6. SCREEN ALIGNMENT

i. Lateral Adjustment

Position the 1st screen at the bottom left corner of the video wall.

SCREEN

Lateral Adjustment X Axis
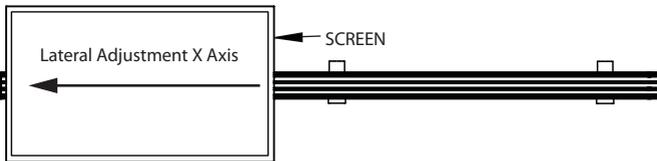
FLOOR

ii. Height Adjustment (Y Axis +/-20mm)

Ensure the screen is level and parallel to floor using the height adjustment hand wheels on the interface arms.

LEVEL

SCREEN

Distance to floor

Distance to floor

FLOOR

HEIGHT ADJUSTMENT HAND WHEEL (Y AXIS)
Compatible with a 6mm hex key *(not supplied)*

Height adjustment guides to help with accurate screen alignment

Do not adjust height past the min and max guide lines
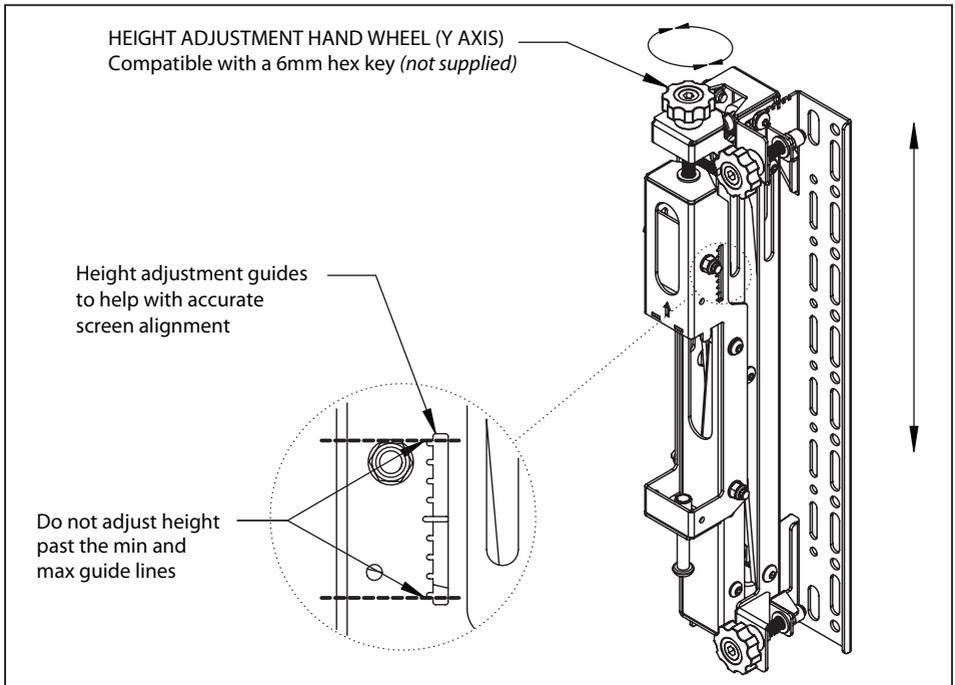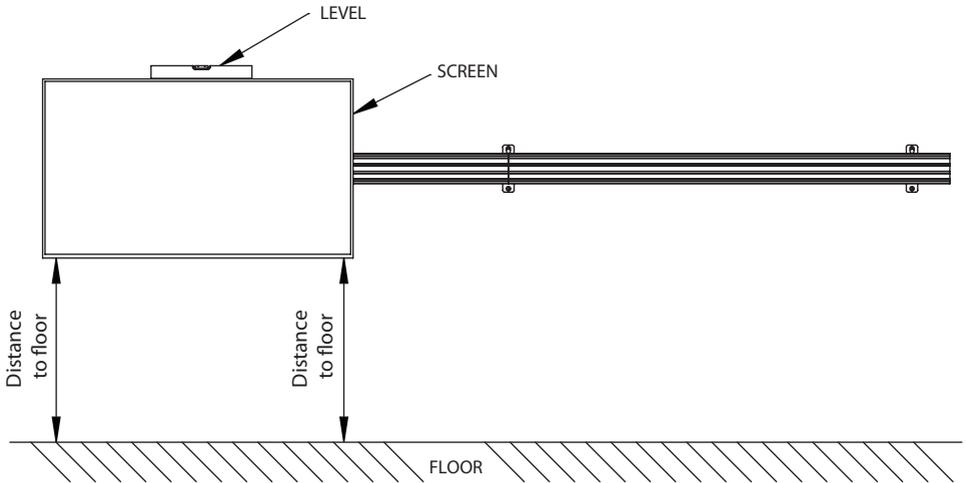
iii. Depth Adjustment (Z Axis +/-10mm)

Ensure the screen corners are equidistant from the wall using the
depth adjustment hand wheels on the interface arms.

Distance
to wall

WALL

SCREEN

Distance
to wall
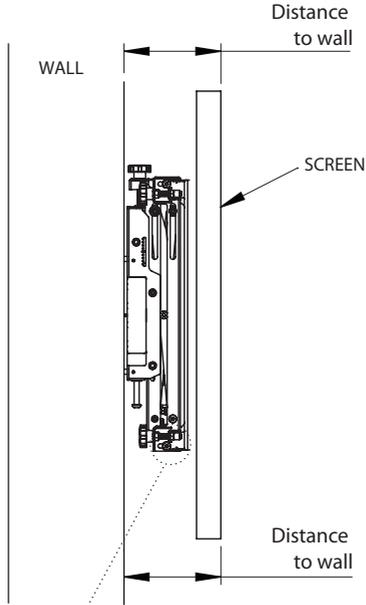
Depth adjustment guides
to help with accurate
screen alignment
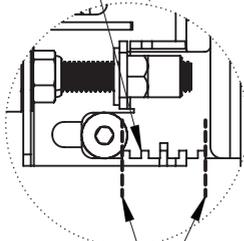
Do not adjust height
past the min and
max guide lines

DEPTH ADJUSTMENT HAND WHEELS (Z AXIS)
Compatible with a 6mm hex key *(not supplied)*
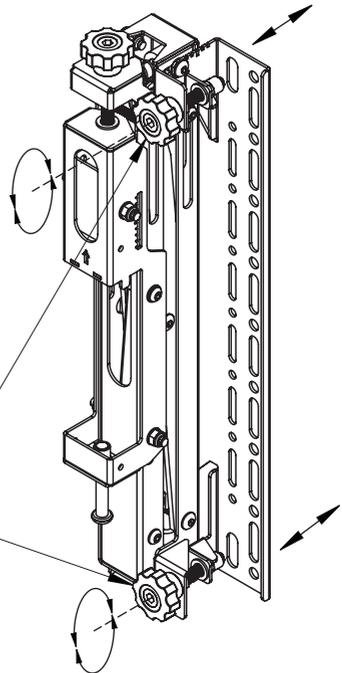
7. MOUNT REMAINING SCREENS ONTO RAILS

Starting on the left side, hook the remaining screens onto the rails
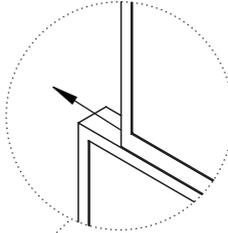**Note:** Use a plumb to align the first column of screens.
After mounting each screen use the Y & Z micro-adjustment knobs on *items 12 & 13* to level and align the screens.
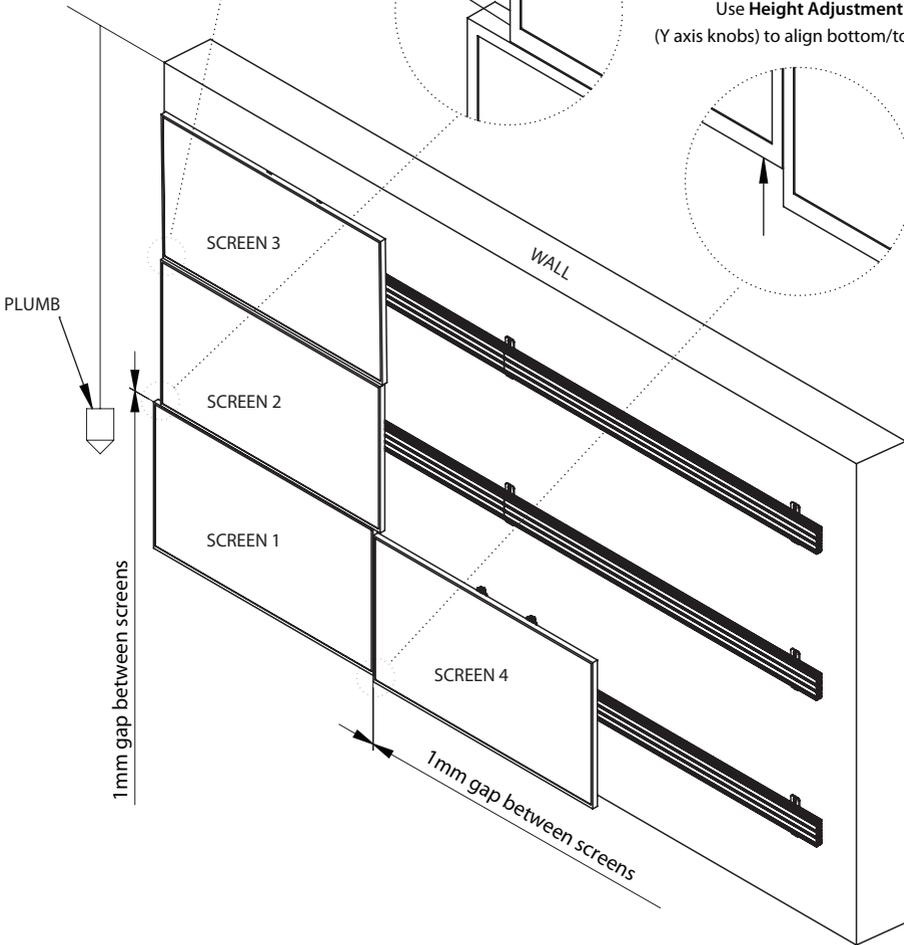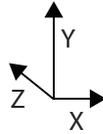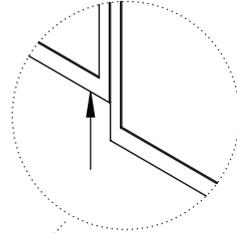**Note:** A 1mm gap between screens should be maintained.

Use **Depth Adjustment**
(Z axis knobs) to align front of screens
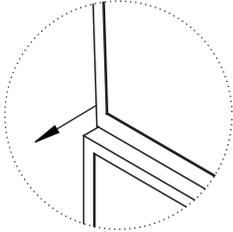
Use **Lateral Adjustment**
to align sides of screens

Use **Height Adjustment**
(Y axis knobs) to align bottom/top of screens

Y

Z

X

PLUMB

SCREEN 3

SCREEN 2

SCREEN 1

SCREEN 4

WALL

1mm gap between screens

1mm gap between screens

Note: During installation, pop screens out for easy access to adjustment hand wheels - *see Step 6*.
All screen fronts should be flush.

1mm gap between screens

WALL

PLUMB

SCREENS

1mm gap between screens

Pop-out screens
for easy access
to adjustment
hand wheels
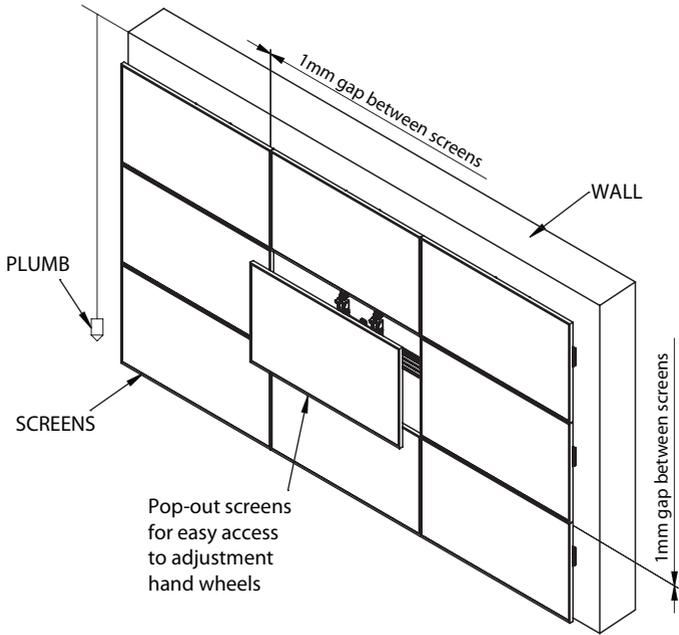
8. SECURE INTERFACE ARMS TO MOUNTING RAILS

Tighten the safety screws on *items 12 & 13* to secure screens to *item 7*.

13

12

SCREEN

7

SAFETY SCREW
tightened into
rail

19

SAFETY
SCREWS
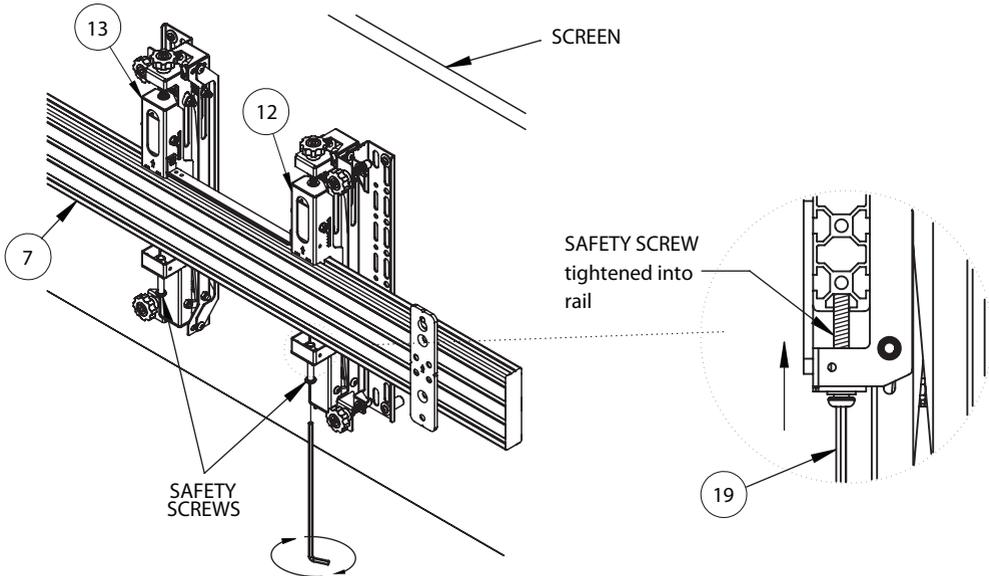
9. OPERATING & SERVICING SCREENS

Note: Ensure pop-out function is not disabled - *see Step 10*.
Push centrally at the left and right of the screen to pop-out the mount.
After servicing, push screen back and click into original position.

The screen will rest in the *'open'* position for servicing.

Screen in service position

items 12 & 13 popped-out
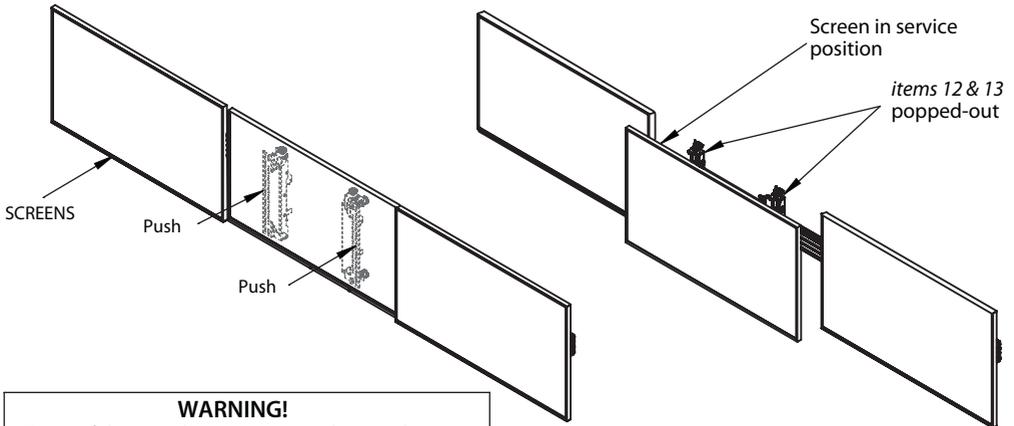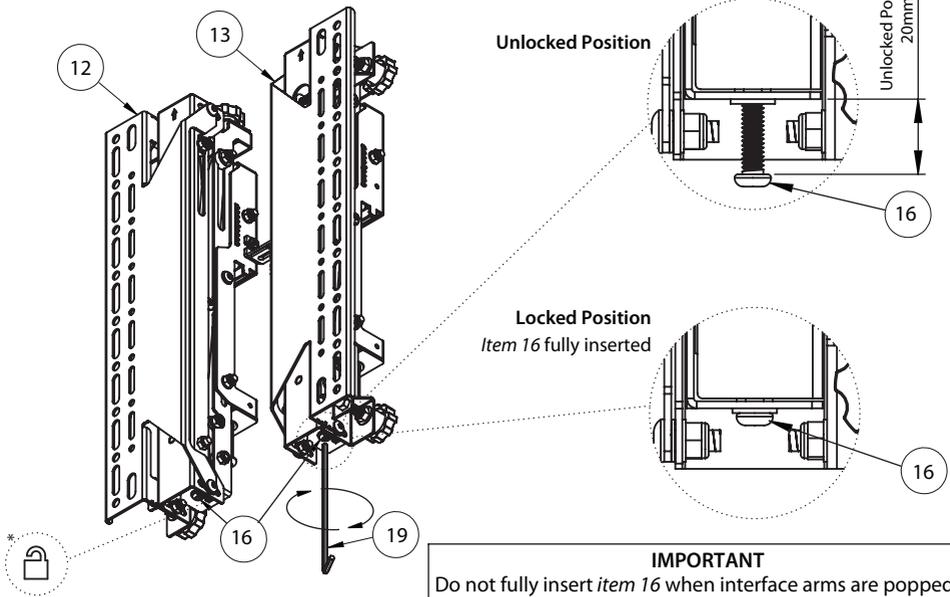
SCREENS

Push

Push

WARNING!
Be careful not to damage screen when pushing.
Keep hold of screen as it moves outwards.

WARNING! Contact a professional AV installer or other suitably qualified person for any further operation or removal of equipment after installation

10. DISABLING POP-OUT FUNCTION *(OPTIONAL)*

To prevent interface arms from popping out, fully insert and tighten
item 16 at the padlock* symbol located at the bottom of *items 12 & 13*.

13

12

Unlocked Position

Unlocked Position
20mm

16

Locked Position
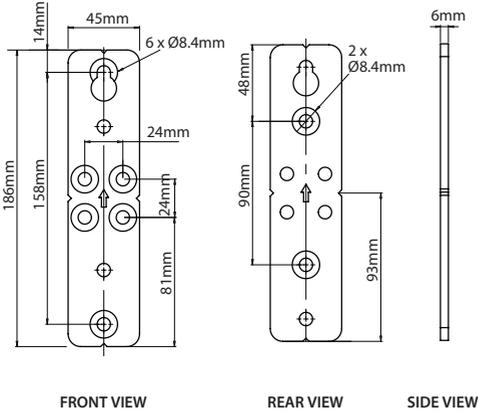*Item 16* fully inserted

16

16

19

*

IMPORTANT
Do not fully insert *item 16* when interface arms are popped out.

BT8341 DIMENSIONS

PLEASE KEEP THIS FOR FUTURE REFERENCE
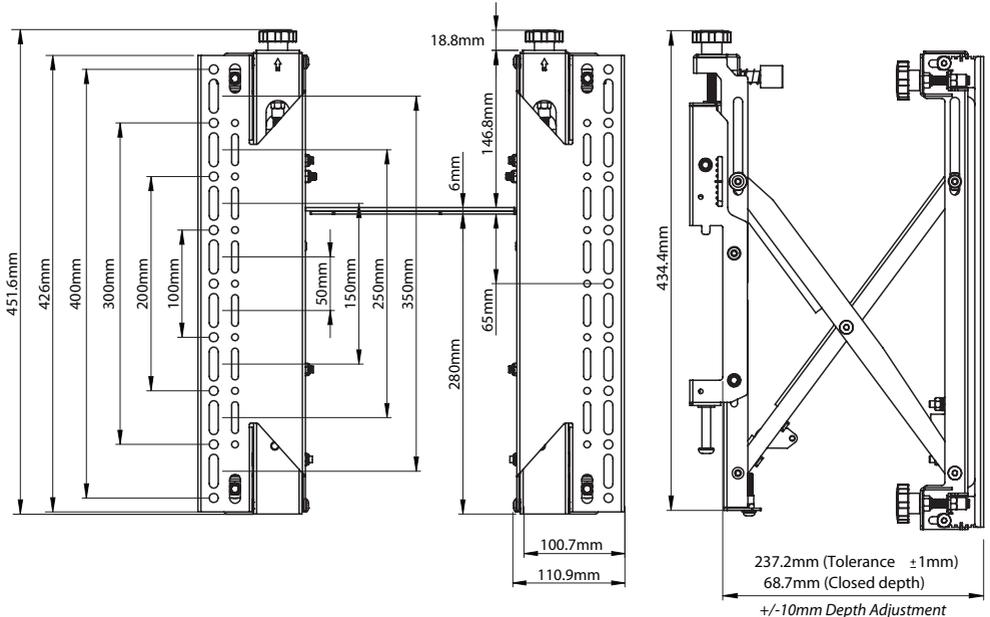
WALL FIXING KIT

14mm
45mm
6 x Ø8.4mm
186mm
158mm
24mm
24mm
81mm

FRONT VIEW

48mm
2 x Ø8.4mm
90mm
93mm

REAR VIEW

6mm

SIDE VIEW

MOUNTING RAILS

BT8390-030/050/070/150/200

120mm

500/700/1500/2000mm

505/705/1505/2005mm

30mm
30mm
30mm
8.2mm

120mm

30mm

INTERFACE ARMS

451.6mm
426mm
400mm
300mm
200mm
100mm
50mm
150mm
250mm
350mm

18.8mm

146.8mm

6mm

65mm

280mm

434.4mm

100.7mm
110.9mm

237.2mm (Tolerance ±1mm)
68.7mm (Closed depth)

+/-10mm Depth Adjustment
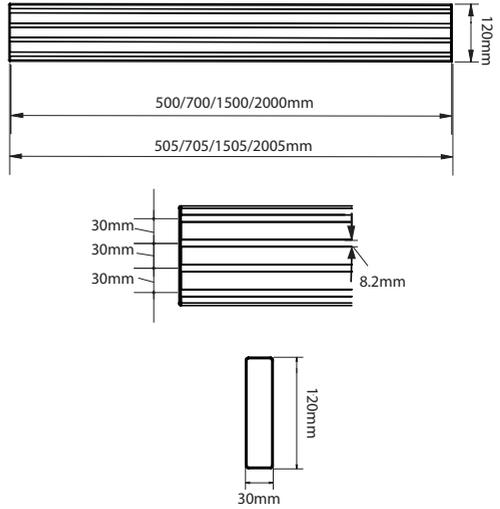
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