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## Why choose Visor™?

Modern balustrade systems are known for their sleek, clean lines and contemporary design elements. They can enhance the overall visual appeal of a space, adding a touch of sophistication and elegance. Visor™ can become a focal point, complementing the architectural style and creating a sense of modernity.



# BENEFITS OF ALUMINIUM



## RECYCLABLE

Visor™ is made from aluminium – the most abundant metal in the Earth’s crust and third most abundant element (after oxygen and silicon).



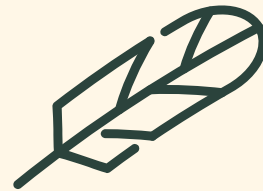
## NON COMBUSTIBLE

Aluminium is described as non-combustible. When aluminium is exposed to a prolonged fire environment it will begin to melt (not burn) with a melting point between 600 and 660 degrees celsius. Aluminium is an excellent choice where fire risk requires consideration.



## CORROSION RESISTANT

Aluminium is impervious to insects and termites plus the non-porous surface is naturally resistant to fungi, mould and mildew. It is also unaffected by exposure to sunlight and water making it ideal for balustrade solutions.



## LIGHT WEIGHT

Aluminium weighs approximately one third of a piece of steel that is the same size and shape. The Visor™ range is made by extruding aluminium which allows for optimisation of shape to maximise strength and reduce weight.



## DURABLE POWDER COAT

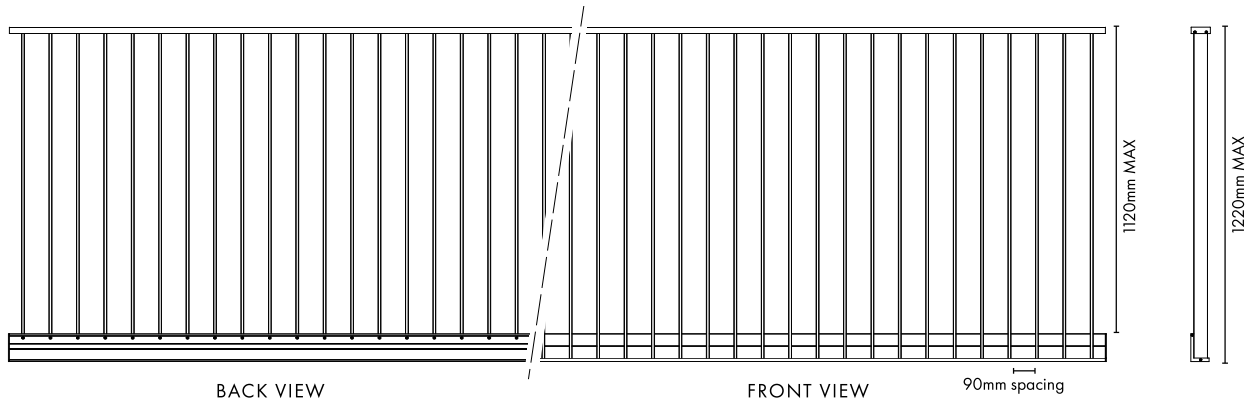
Powder coating aluminum provides outstanding long term colour fastness and stability.



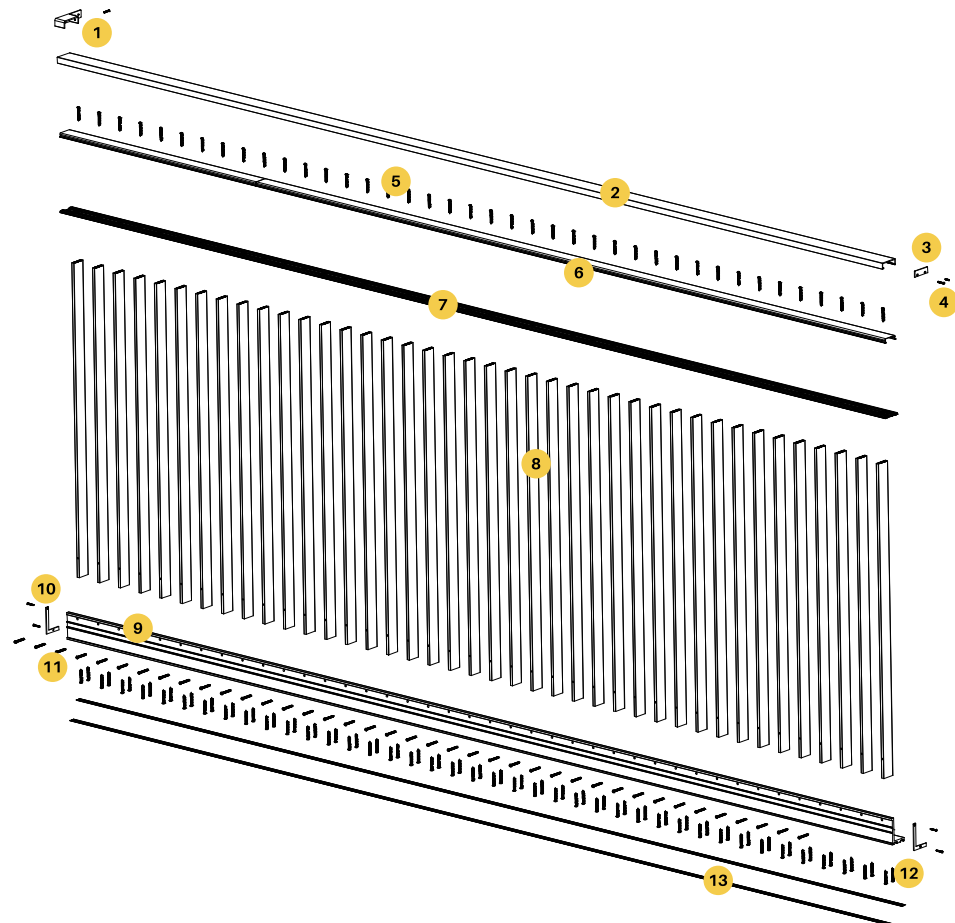
## WIPE CLEAN

Enjoy minimal maintenance with Visor™ with the ease of a simple wipe/hose down clean.

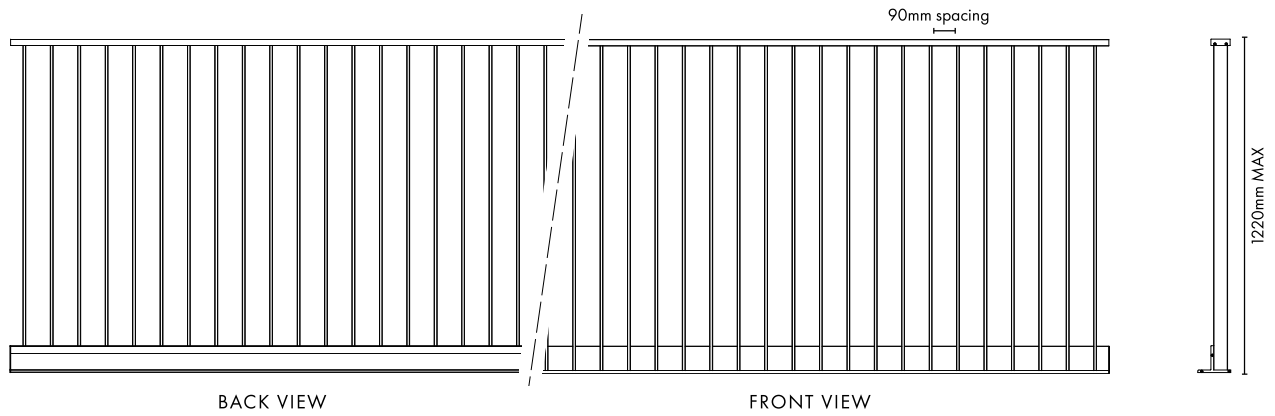
# VISOR™ FACE MOUNT OVERVIEW



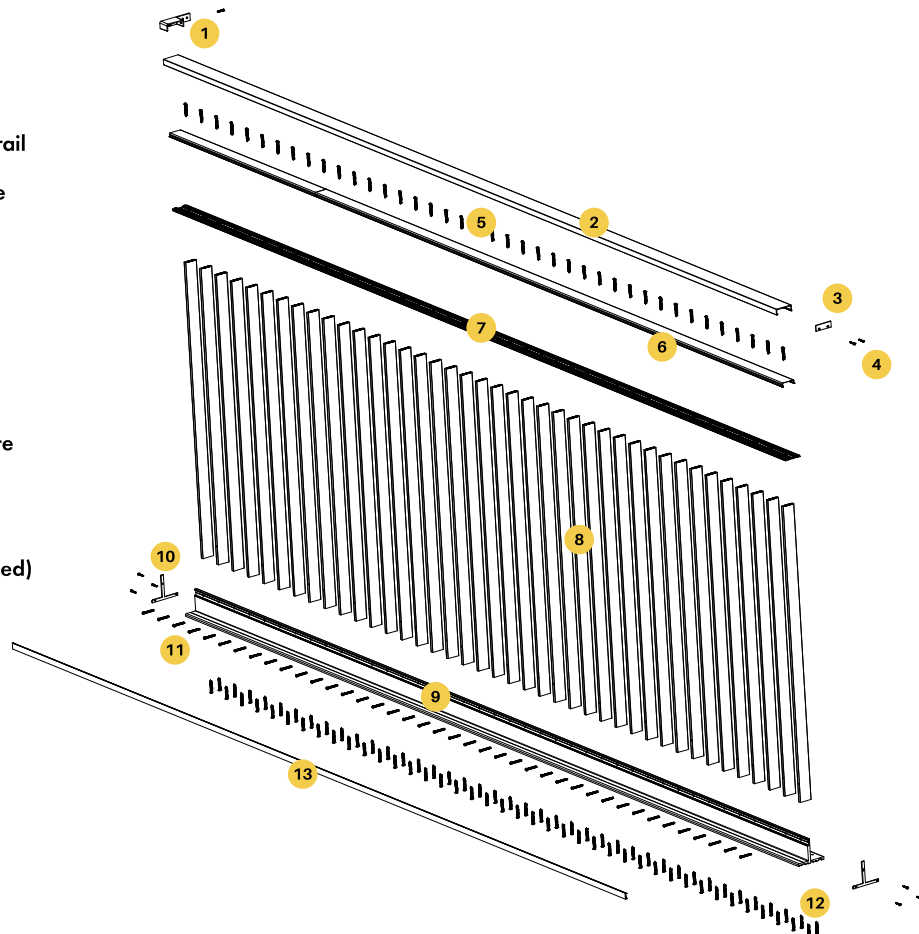
- 1 Handrail offset bracket
- 2 70x23mm rectangular handrail
- 3 70x23mm handrail end plate
- 4 8Gx25mm countersunk SS304 screw
- 5 14Gx50mm pan head SS304 screw
- 6 Handrail friction insert
- 7 Handrail under-capping plate (slotted)
- 8 50mm x 10mm baluster
- 9 Face-mount profile (pre-drilled)
- 10 Face-mount end plates
- 11 14Gx50mm pan head SS304 screw
- 12 12Gx50mm pan head SS304 screw
- 13 Face-mount bottom cover



# VISOR™ DECK MOUNT OVERVIEW



- 1 Handrail offset bracket
- 2 70x23mm rectangular handrail
- 3 70x23mm handrail end plate
- 4 8Gx25mm countersunk SS304 screw
- 5 14Gx50mm pan head SS304 screw
- 6 Handrail friction insert
- 7 Handrail under-capping plate (slotted)
- 8 50mm x 10mm baluster
- 9 Deck-mount profile (pre-drilled)
- 10 Deck-mount end plates
- 11 14Gx50mm pan head SS304 screw
- 12 12Gx50mm pan head SS304 screw
- 13 Deck-mount side cover





# VISOR™

## Aluminium 50x10mm baluster

PACK OF 4  
1200mm high

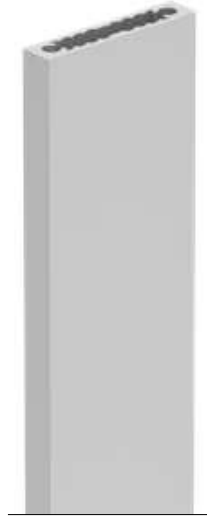
**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-1200-BAL-B-4PK (Black)

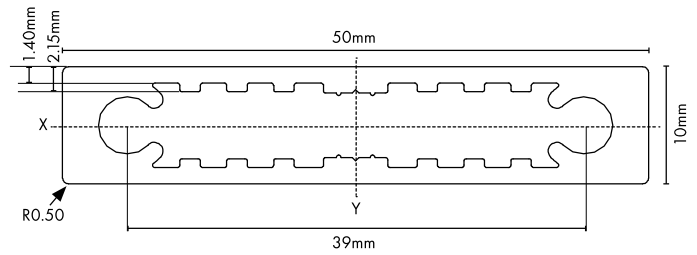
VIS-1200-BAL-W-4PK (White)

VIS-1200-BAL-M-4PK (Mill)

- 1200mm long balusters: pack of 4
- Simply cut to required length if required
- Innovative baluster design:  
2 x screw flutes + rigidity ribs
- Each baluster has 1 x 6mm hole drilled 73.5mm up from bottom: hole enables fast sideways fixing off of baluster to Visor™ base
- Made from alloy 6063 T6



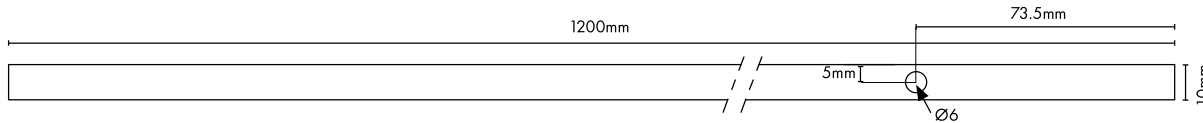
### FINISHES



- lxx = 3.31 x 10E3 mmE4
- lyy = 68.09 x 10E3 mmE4

TOP

BOTTOM



## Aluminium 50x10mm baluster

6100mm long

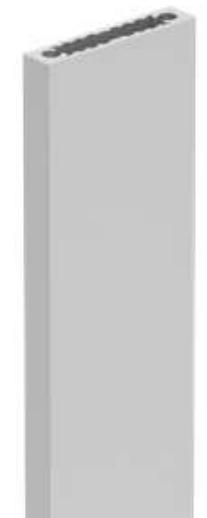
**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-6100-BAL-B (Black)

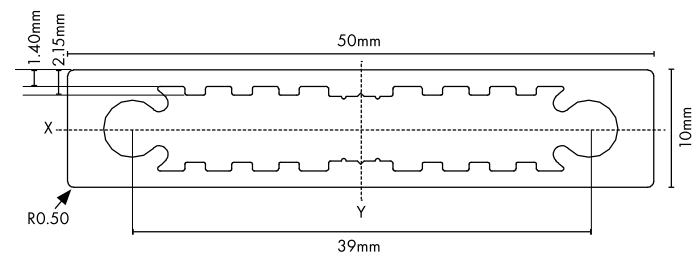
VIS-6100-BAL-W (White)

VIS-6100-BAL-M (Mill)

- 6100mm long balusters
- Simply cut to required baluster lengths
- Innovative baluster design:  
2 x screw flutes + rigidity ribs
- Made from alloy 6063 T6



### FINISHES



- lxx = 3.31 x 10E3 mmE4
- lyy = 68.09 x 10E3 mmE4

### TRADE TIP

Contact us for easy to use FREE EXCEL estimator. Simply input span lengths & receive instant bill of materials.

# VISOR™

## Aluminium deck mount 'T' profile

4000mm long

**Matt Black, Pearl White Matt or Mill finish**

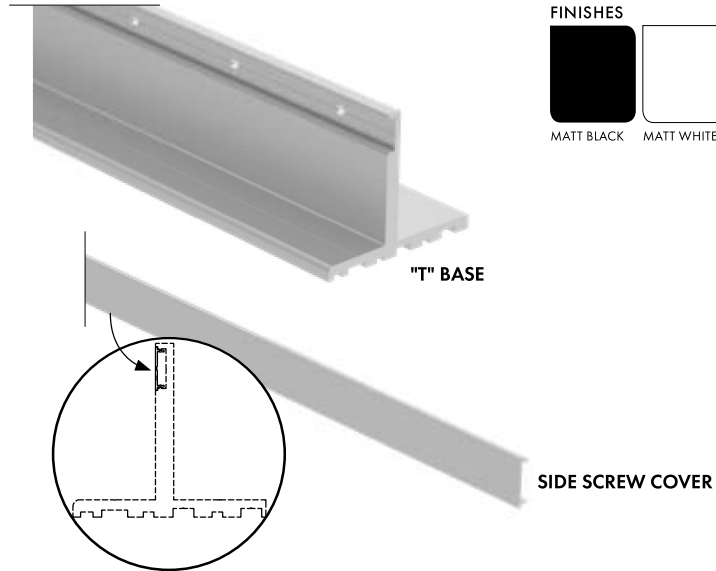
Order Code: **VIS-4000-DECK-B (Black)**

**VIS-4000-DECK-W (White)**

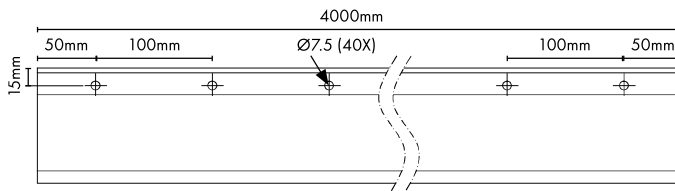
**VIS-4000-DECK-M (Mill)**

- "T" profile deck mount base - 4000mm long
- Sturdy 10mm thick base with 10.5mm thick vertical profile
- Base fully machined to enable 50x10mm balusters to be screwed fixed at 100mm centres (providing 90mm gaps). 40 x balusters per length.
- Holes are pre-machined entire length of base to enable each baluster to receive 2 x fixings from underside & 1 x side fixing.
- 4000mm long screw fix cover extrusion included in kit: neatly hides top sideways screw fixings
- For fixing to substrate/floor, drill holes through deck mount profile where required (suggested at 500mm centres or less)
- Made from alloy 6063 T6

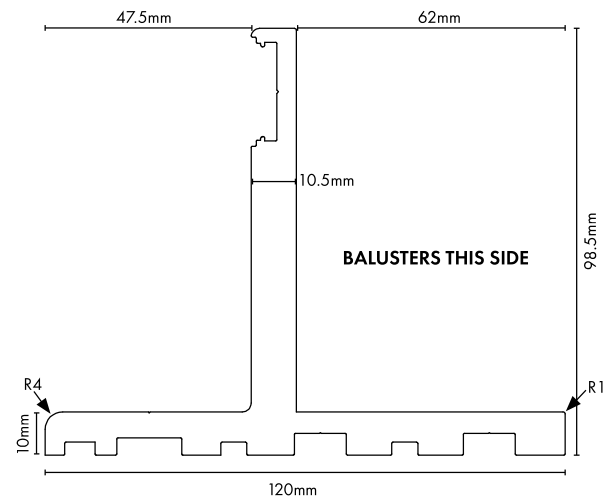
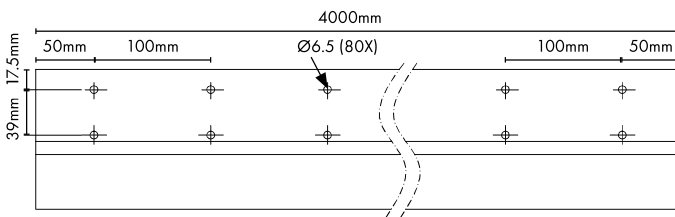
FINISHES



### TOP HOLE MACHINING



### UNDER SIDE BALUSTER MACHINING



## Aluminium side cover

4000mm long

**Matt Black, Pearl White Matt or Mill finish**

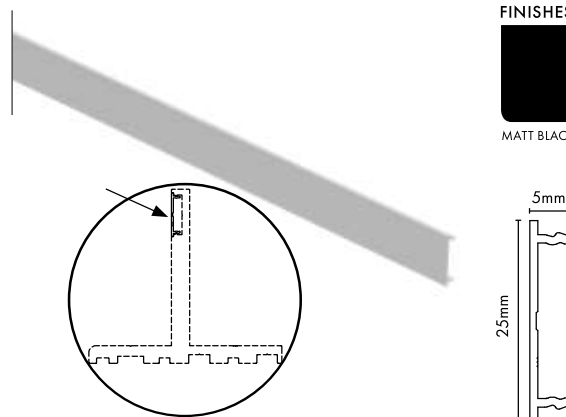
Order Code: **VIS-4000-COV-DECK-B (Black)**

**VIS-4000-COV-DECK-W (White)**

**VIS-4000-COV-DECK-M (Mill)**

- 4000mm long screw fix cover extrusion: neatly hides top sideways screw fixings
- Tap cover into void opening
- Screw cover extrusion is INCLUDED with the deck mount profile
- Order separately only if needing to replace a lost/damaged screw cover extrusion

FINISHES



# VISOR™

## Aluminium face mount 'L' profile

4000mm long

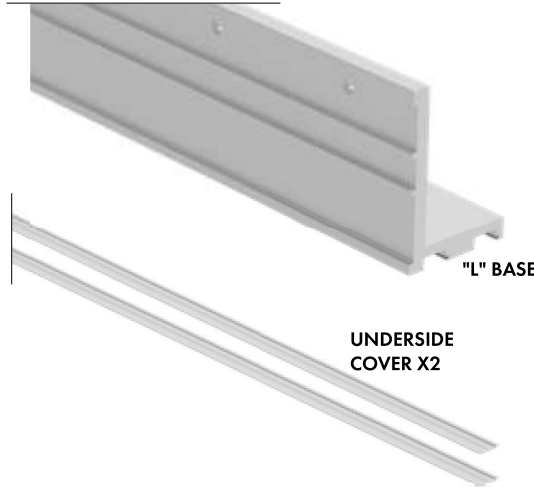
**Matt Black, Pearl White Matt or Mill finish**

Order Code: **VIS-4000-FACE-B (Black)**

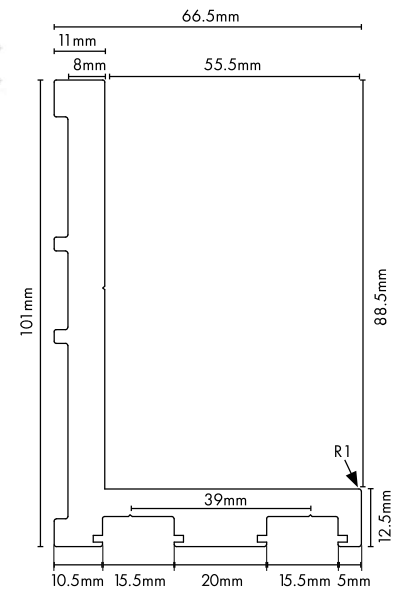
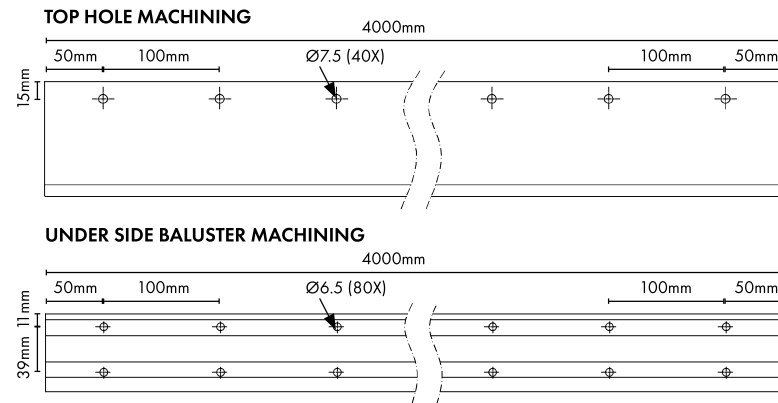
**VIS-4000-FACE-W (White)**

**VIS-4000-FACE-M (Mill)**

- "L" profile face mount base - 4000mm long
- Sturdy 12.5mm thick base with 11mm overall thick vertical profile
- Base is fully machined to enable 50x10mm balusters to be screwed fixed at 100mm centres (providing 90mm gaps). 40 x balusters per length.
- Holes are pre-machined entire length of base to enable each baluster to receive 2 x fixings from underside & 1 x side fixing.
- 2 x 4000mm long bottom screw fix cover extrusions included in kit: neatly hides bottom fixing screws
- For fixing to vertical surface, drill holes through face mount profile where required (suggested at 500mm centres or less)
- Made from alloy 6063 T6



FINISHES



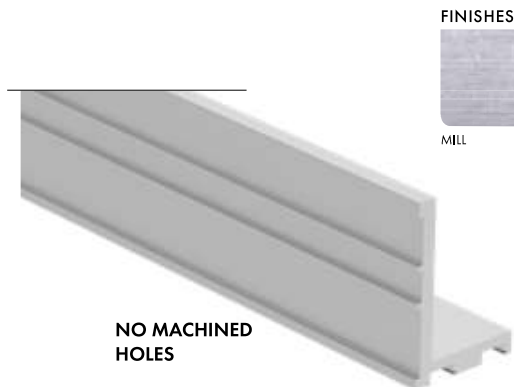
## Aluminium face mount 'L' profile

5000mm long

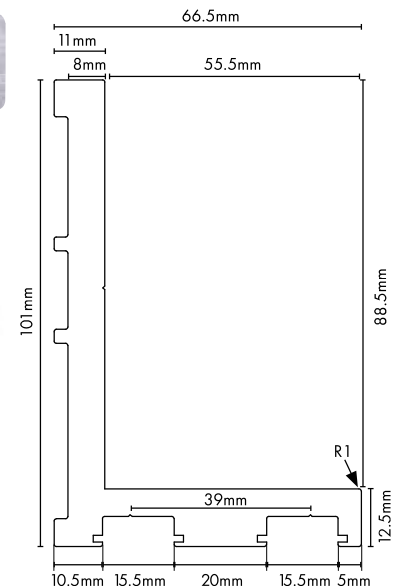
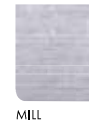
**Mill finish**

Order Code: **VIS-5000-FM-NM-M (Mill)**

- "L" profile face mount base - 5000mm long
- NO MACHINED holes - requires welding of 50x10mm balusters to profile
- Use for customised situations such as staircases
- Purchase bottom cover extrusion profile separately if desired (code: VIS-4000-COV-FACE)
- For top handrail, use RAKED undercapping plate which suits 34-37° installations (refer code: VIS-4942-PLATE-R)
- Made from alloy 6063 T6



FINISHES



# VISOR™

## Aluminium bottom cover slide in

4000mm long

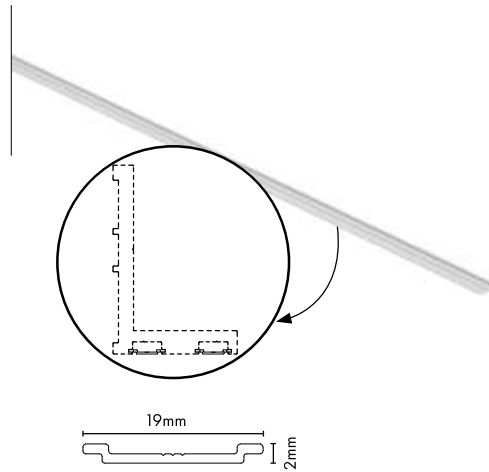
**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-4000-COV-FACE-B (Black)

VIS-4000-COV-FACE-W (White)

VIS-4000-COV-FACE-M (Mill)

- 4000mm long screw fix cover extrusion: neatly hides bottom screw fixings
- Slide in cover into underside 2 x cavities in face mount profile
- NOTE: 2 x screw cover extrusions are INCLUDED with the face mount profile
- Order separately only if:
  - a) needing to replace a lost/damaged screw cover extrusion
  - b) using NON MACHINED face mount base and seeking to cover under side cavities



# VISOR™

## Aluminium undercapping plate

4000mm long

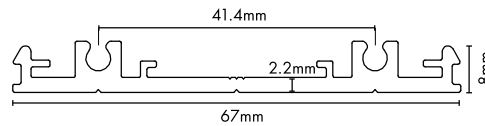
**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-4000-PLATE-B (Black)

VIS-4000-PLATE-W (White)

VIS-4000-PLATE-M (Mill)

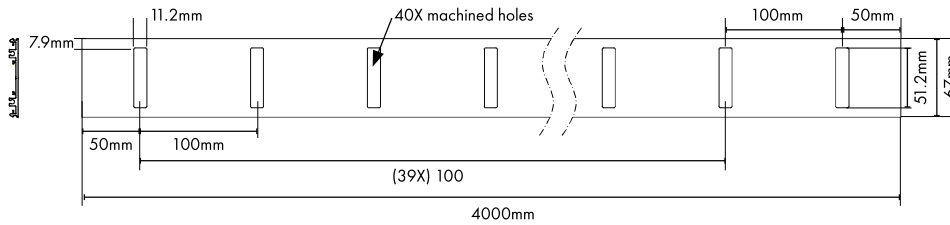
- 4000mm long top undercapping plate
- 40 x pre-slotted holes at 100mm centres into which 50x10mm balusters insert
- 2.2mm plate thickness provide for a sturdy top undercapping plate
- Features 2 x screw flutes used for mechanical fixing of end caps & wall plates
- Made from alloy 6063 T6



### FINISHES



### TOP PLATE MACHINING



## Aluminium undercapping plate – raked

Suits 34-37 degree angle

4942mm long

**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-4942-PLATE-R-B (Black)

VIS-4942-PLATE-R-W (White)

VIS-4942-PLATE-R-M (Mill)

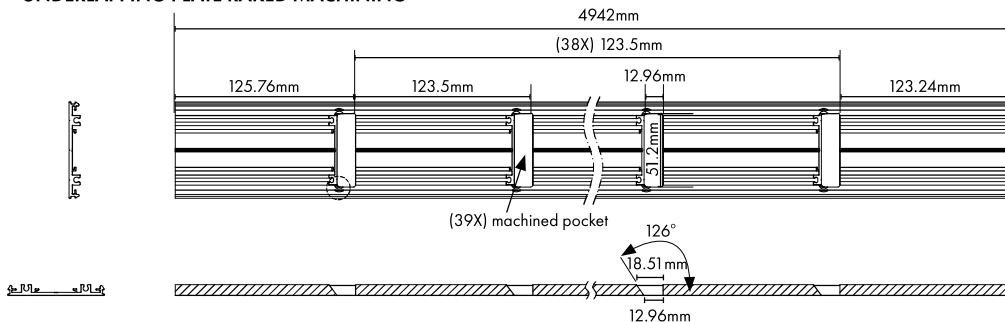
- 4942mm long top undercapping plate to suit STAIR installations
- 39 x pre-slotted ELONGATED holes at 123.5mm centres into which 50x10mm balusters insert
- Suits 34-37 degree angle which satisfies the majority of stair installation requirements
- 2.2mm plate thickness provide for a sturdy undercapping plate
- Made from alloy 6063 T6



### FINISHES



### UNDERLAPPING PLATE RAKED MACHINING



# VISOR™

## Aluminium friction insert

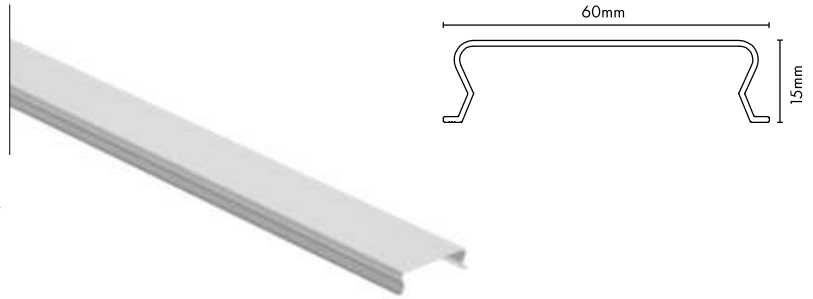
PACK OF 2

3050mm long (total 6100mm per 2 pack)

### Clear Anodise finish

Order Code: VIS-3050-INS-2PK

- 3050mm long aluminium insert: 2 pcs per pack
- Mates with slotted undercapping plate
- 50x10mm balusters insert into assembled unit and balusters finish at the underside wall of the friction insert
- Innovate design means that balusters are held in place via friction fit both sides preventing chance of rattling handrail assembly



## Aluminium rectangular handrail – 70x23mm

6100mm long

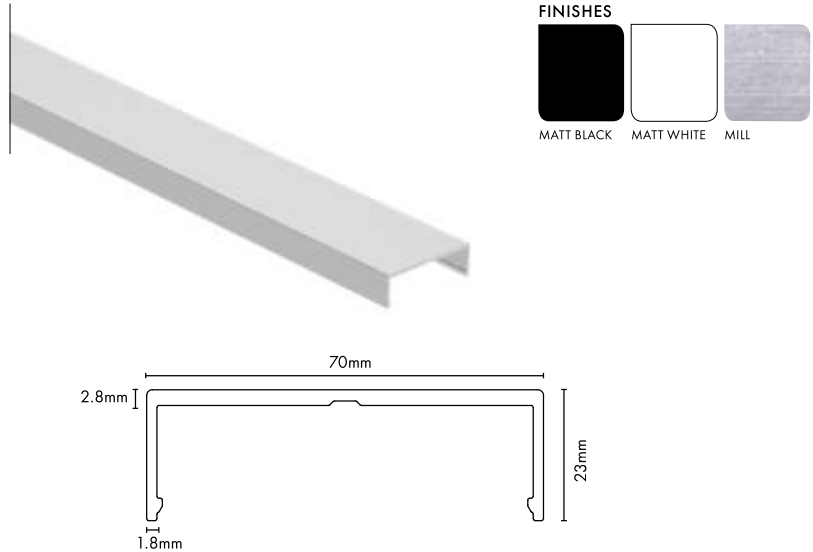
**Matt Black, Pearl White Matt or Mill finish**

Order Code: VIS-6100-HRAIL-B (Black)

VIS-6100-HRAIL-W (White)

VIS-6100-HRAIL-M (Mill)

- 6100mm long snap-on slimline handrail: 70mm wide x 23mm high profile
- Mates with undercapping plate
- 2.8mm top wall thickness provide a sturdy/rigid top rail surface
- Made from Alloy 6063 T6



## OVERVIEW OF HANDRAIL ASSEMBLY



EXPLODED VIEW

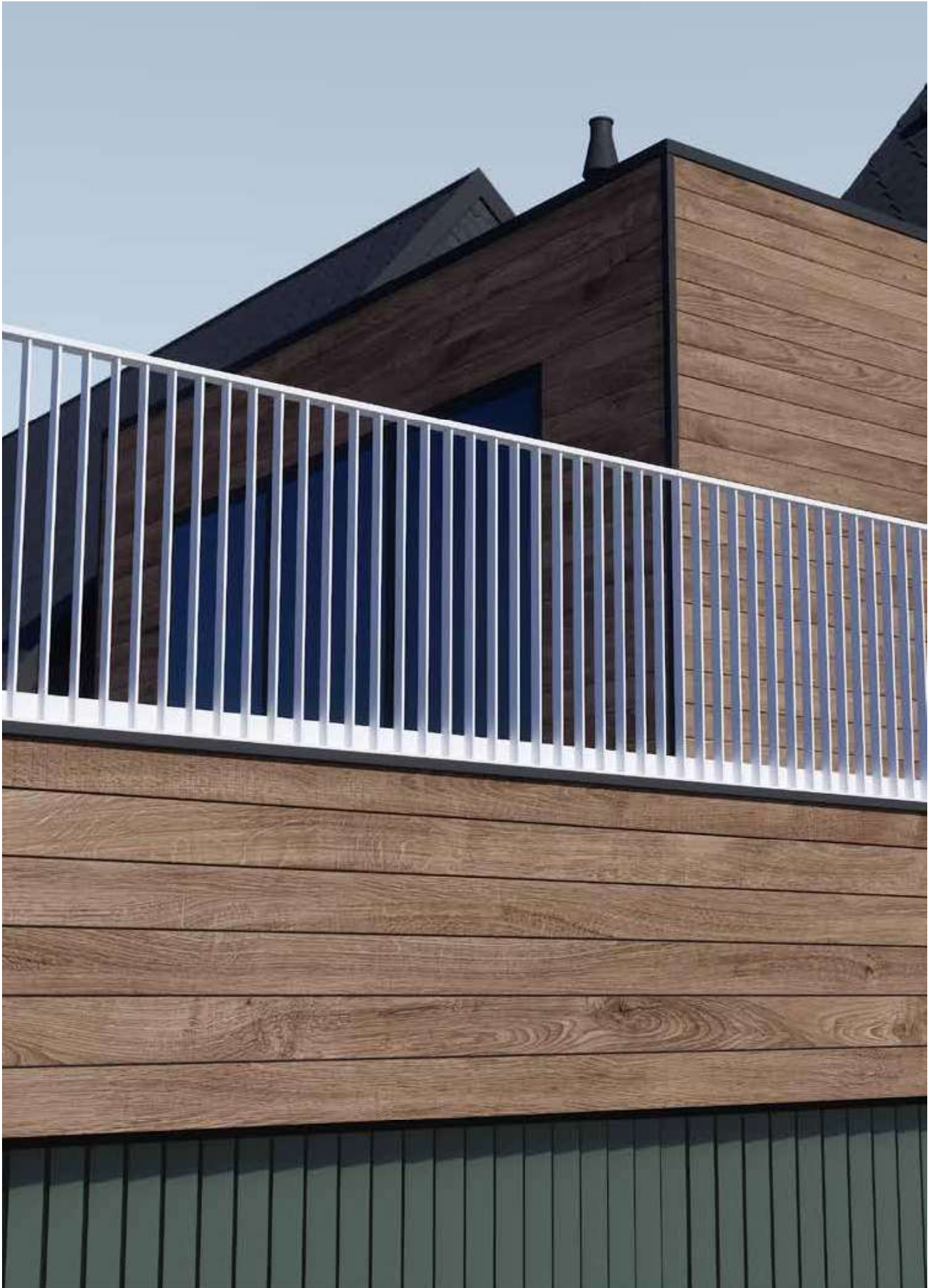


ASSEMBLED VIEW



END VIEW





# VISOR™

## Aluminium offset bracket

2 PACK

140mm L x 28mm H x 45mm D

**Matt Black, Pearl White Matt or Mill finish**

Order Code: **VIS-BRACKET-B-2PK (Black)**

**VIS-BRACKET-W-2PK (White)**

**VIS-BRACKET-M-2PK (Mill)**

- Made from aluminium die cast
- Caps over top of handrail and features offset leg for fixing to wall/post
- Mechanically fix to handrail by screwing through side of bracket
- 2 x 7mm diameter post/wall fixing holes
- Fix to wall/post using suitable fixings (not supplied) having regard to substrate
- Sold as a 2 pack - 1 x left & 1 x right bracket



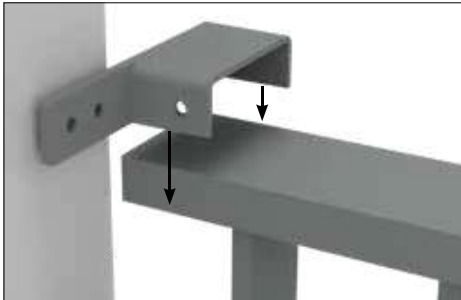
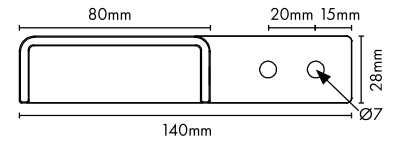
FINISHES



MATT BLACK

MATT WHITE

MILL





# VISOR™

## Aluminium 70x23mm handrail end plate

**Matt Black, Pearl White Matt or Mill finish**

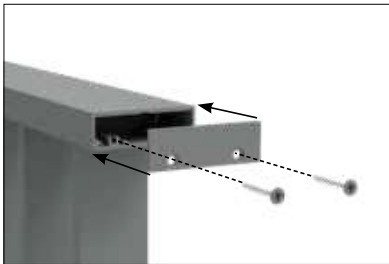
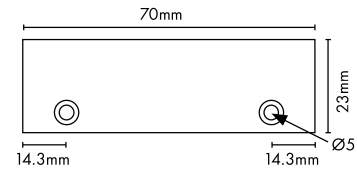
Order Code: VIS-EP-B (Black)

VIS-EP-W (White)

VIS-EP-M (Mill)

- 70x23 end plate - 3mm thick
- Extruded aluminium with 2 x 5mm diam countersunk holes
- Mechanically fixes to undercapping plate
- Countersunk screws sold separately (refer code: VIS-SCR-CSK-50PK)

FINISHES



## Aluminium 63x20mm wall/post bracket

**Matt Black, Pearl White Matt or Mill finish**

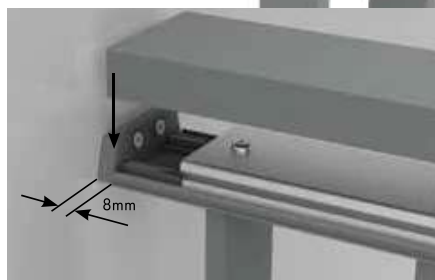
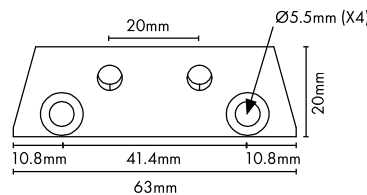
Order Code: VIS-WB-B (Black)

VIS-WB-W (White)

VIS-WB-M (Mill)

- 63x20 wall plate - 8mm thick
- Extruded aluminium with 4 x 5.5mm diam countersunk holes
- Mechanically fixes to undercapping plate and then fix off to wall/post
- Once snapped on, 70x23mm handrail covers bracket giving a seamless terminating fixing
- Screws for fixing to undercapping rail sold separately (refer code: VIS-SCR-CSK-50PK)
- Screws for fixing to wall/post not supplied - determine having regard to substrate screwing into

FINISHES



# VISOR™

## 'T' deck mount end plates

PACK OF 2

**Matt Black, Pearl White Matt or Mill finish**

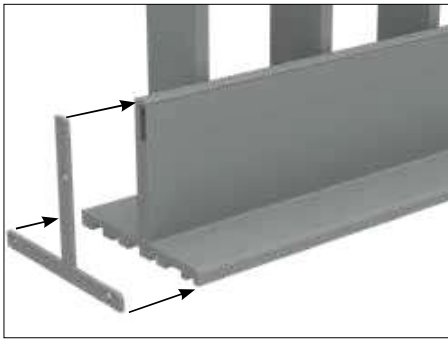
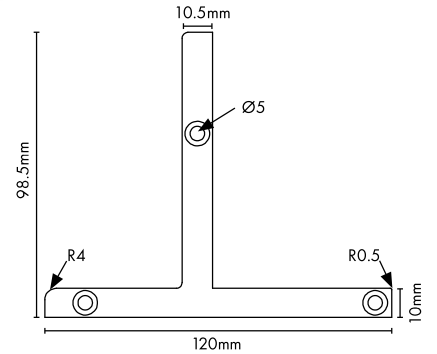
Order Code: VIS-DMEP-B-2PK (Black)

VIS-DMEP-W-2PK (White)

VIS-DMEP-M-2PK (Mill)

- "T" shape end plates to suit deck mount base
- 3mm extruded aluminium with 3 x fixing holes
- Drill 3 x 3.5mm diam hole into end of deck mount base and fix end plates with 3.2mm diameter pop rivets (not supplied)
- Sold as a 2 pack: 1 x left & 1 x right end plate

FINISHES



## 'L' face mount end plates

PACK OF 2

**Matt Black, Pearl White Matt or Mill finish**

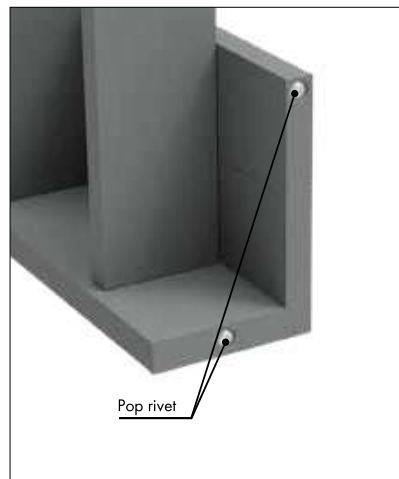
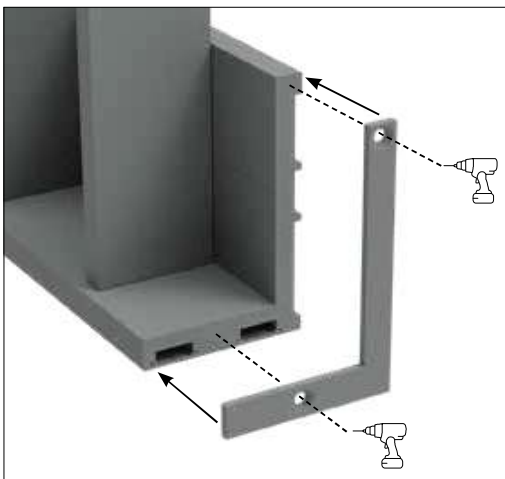
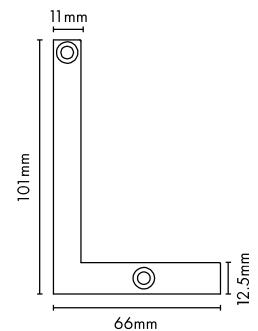
Order Code: VIS-FMEP-B-2PK (Black)

VIS-FMEP-W-2PK (White)

VIS-FMEP-M-2PK (Mill)

- "L" shape end plates to suit face mount base
- 3mm extruded aluminium with 2 x fixing holes
- Drill 2 x 3.5mm diam hole into end of face mount base and fix end plates with 3.2mm diameter pop rivets (not supplied)
- Sold as a 2 pack: 1 x left & 1 x right end plate

FINISHES



# VISOR™

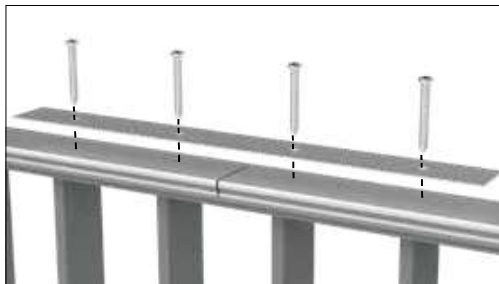
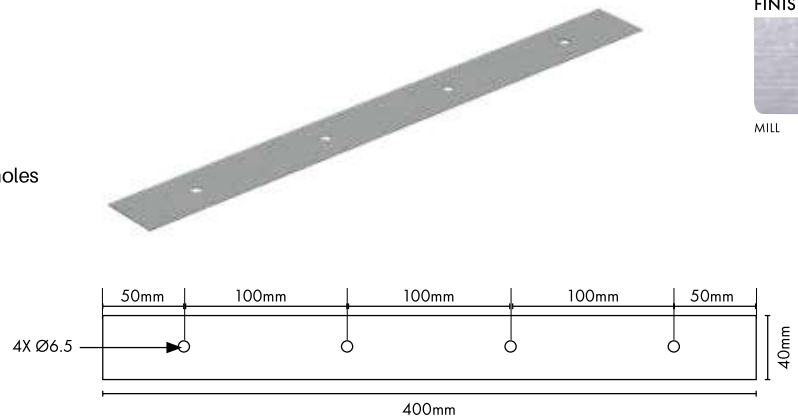
## Aluminium inline joiner for handrail friction insert

400x40x1.2mm

### Mill finish

Order Code: **VIS-J-M**

- 400mm long aluminium joiner with 4 x 6.5mm diameter holes
- Use at join of uncapping plates
- Joiner fitted on top of friction insert
- Installed as a final step and just prior to snapping on rectangular handrail
- Joiner provides rigidity between adjacent panels



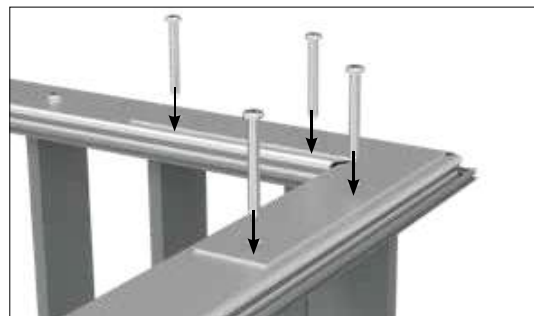
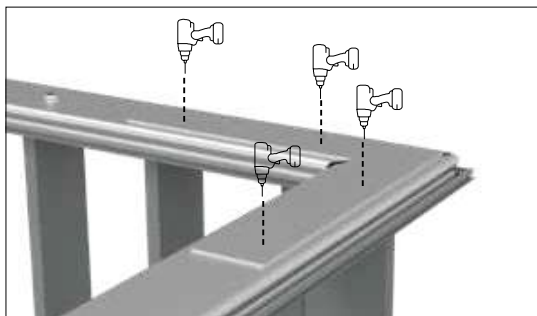
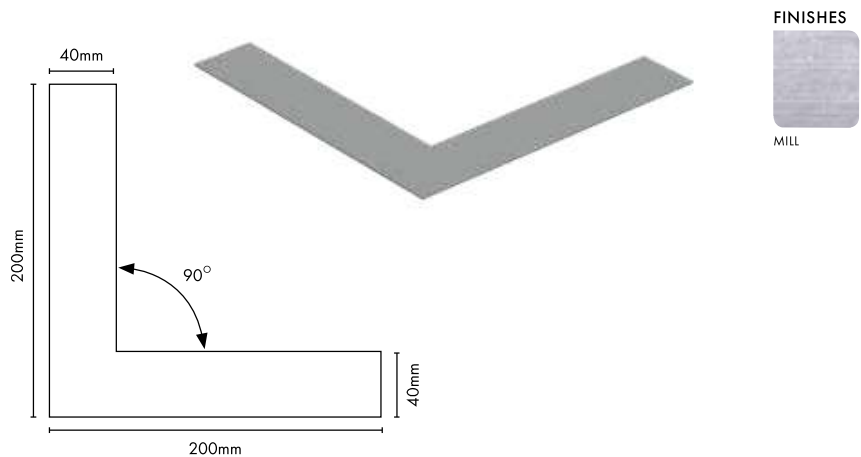
## Aluminium 90 degree joiner for handrail friction insert

200x200x1.2mm

### Mill finish

Order Code: **VIS-J90-M**

- 200 x 200mm long 90 degree aluminium joiner
- Use at 90 degree joins of undercapping rail
- Joiner fitted on top of friction insert
- Drill 4 x 7mm holes in joiner to align with central baluster screw flute positions
- Installed as a final step and just prior to snapping on rectangular handrail
- Joiner provides rigidity at 90 degree corner



# VISOR™

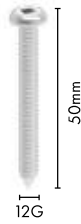
## 12g Panhead screw

12g x 50mm long

PACK OF 50

Order Code: **VIS-SCR-BAL-50PK**

- Square drive panhead - SS304
- Use for screwing Visor™ baluster from underside of base rail - lubricate screws before screwing
- 2 x screws required per baluster
- Sold as a 50 pack



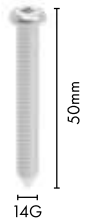
## 14g Panhead screw

14g x 50mm long

PACK OF 50

Order Code: **VIS-SCR-SIDEBAL-50PK**

- Square drive panhead - SS304
- Use for:
  - A) screwing Visor™ balusters sideways through base rail and;
  - B) screwing top friction plate to baluster
- Lubricate screws before screwing
- Sold as a 50 pack



## Countersunk phillips head screw

8g x 25mm long

PACK OF 50

**Black, White or Mill finish**

Order Code: **VIS-SCR-CSK-50PK-B (Black)**  
**VIS-SCR-CSK-50PK-W (White)**  
**VIS-SCR-CSK-50PK (Mill)**

- Phillips head countersunk screw - SS304
- Use for screwing:
  - (A) end plate to undercapping plate;
  - (B) wall bracket to undercapping plate;
  - (C) offset bracket to handrail
- Sold as a 50 pack

FINISHES



## Driver bit

Order Code: **DB-PH3**

- Driver bit to suit Phillips #3 screw head



## Square head driver bit

Order Code: **DB-SQ3.4**

- Driver bit to suit 3.4mm square screw head hole



## Soudal CA1400 Chemical anchor

280ml

Order Code: **SOD-CA1400**

- High performance, two-component chemical anchoring resin for the pressure-free securing of anchoring rods, studs, threaded collars etc
- Easy to use and apply
- Fast cure (20°C=45min full cure; 30°C=25min full cure)
- Vinyl ester styrene free
- Can be used in damp concrete
- Apply with standard caulking gun

## Soudal heavy duty cartridge gun

Order Code: **SOD-GUN**

- Heavy duty, steel trade quality cartridge gun
- Geared ratio 18:1 for smooth operation and easy application
- Dripless system feature automatically releases pressure to reduce mess/waste
- Suits 300ml silicone cartridges and 280ml chemical anchor



## Horseshoe Packers

20 PACK

**Black finish**

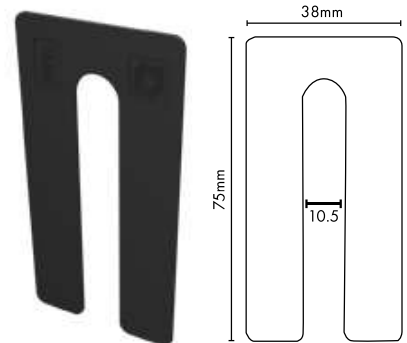
Order Code: **HSP-75X38-1MM-20PK**

1mm thick

**HSP-75X38-3MM-20PK**

3mm thick

- 38mm wide x 75mm long horseshoe packers
- 10.5mm slot
- Available in 1mm or 3mm thick (20 per pack)
- Durable black solid polypropylene
- Handy for levelling adjustments while installing
- Easy to cut down to required length



Available 1mm or 3mm thick

# VISOR™

## M12 dome nut

PACK OF 4 – SS316

**Black or Mill finish**

Order Code: **GS-DN-4PK-B (Black)**

**GS-DN-4PK (Silver)**

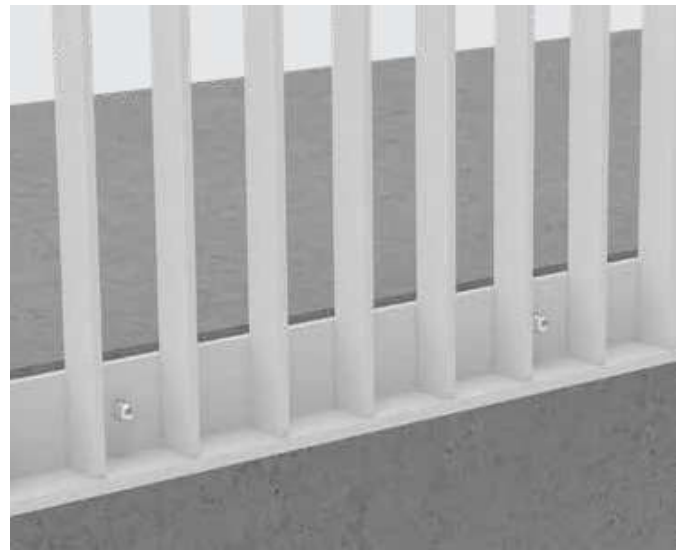
- 4x dome nuts & 4x split washers
- Stainless steel 316
- Suits M12 thread

*Silver recommended for white powder coat installations.*

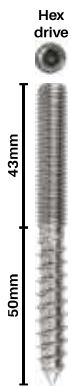
*Black recommended for black powder coat installations.*



FINISHES



## M12 FIXINGS

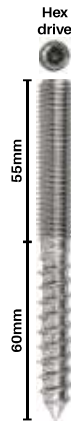


### 93mm lag screw

SS304

**M12 thread**

Order Code: **GS093LAG**

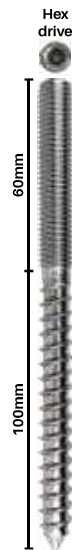


### 115mm lag screw

SS304

**M12 thread**

Order Code: **GS115LAG**

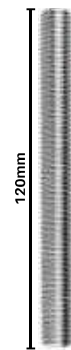


### 160mm lag screw

SS304

**M12 thread**

Order Code: **GS160LAG**

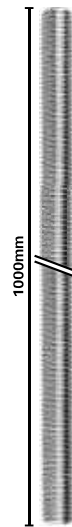


### 120mm threaded rod

SS304

**M12 thread**

Order Code: **GS120ROD**



### 1000mm threaded rod

SS304

**M12 thread**

Order Code: **GS1000ROD**

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Visor™ can be used in various architectural settings, both residential and commercial. It can be integrated into indoor or outdoor spaces, such as staircases, balconies, terraces, or mezzanines. The versatility of Visor™ allows it to blend seamlessly with different architectural styles, whether it's a contemporary building or a renovation project.





# ESTIMATING TOOL

Contact us for our FREE Excel estimating tool. Simply insert overall span lengths for an instant bill of materials.

**Benefits of using the estimating tool are:**

- ✔ **1. ACCURACY**  
 Estimating calculators assist in reducing chance of human error.
- ✔ **2. TIME-SAVING**  
 Manual calculations can be time-consuming. The estimating tool allows for more efficient use of time.
- ✔ **3. CONSISTENCY**  
 Using the same estimating tool over multiple projects ensures that the methodology remains consistent. This ensures that comparisons between projects or different sections of a plan are valid.
- ✔ **4. EASE OF USE**  
 The Excel interface is user-friendly and allows simple input of balustrade spans.
- ✔ **5. FAST QUOTING**  
 With a bill of materials known, obtain instant pricing.



# COMPLIANCE

Extensive physical testing and theoretical analysis has resulted in the VISOR™ system achieving outstanding performance criteria.

Contact us for engineer compliance certification taking into account:

**AS/NZS 1170.0:2002**

Structural design actions. General Principles.

**AS/NZS 1170.1:2002**

Structural design actions. Permanent, imposed and other actions.

**AS/NZS 1170.2:2021**

Structural design actions. Wind actions.

**AS/NZS 1664.1:1997**

Aluminium structures. Part 1: Limit state design.

**NCC2022**

Volumes 2 and 3.






CERTIFICATE OF COMPLIANCE VISOR BALUSTRADE SYSTEMS - FACE MOUNTED AND DECK MOUNT	
<b>DESCRIPTION OF ITEMS</b>	VISOR Balustrade Systems
<b>DESIGNER</b>	aluminium outlet
<b>REFERENCES OF OTHER CODES</b>	As per AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2021, AS/NZS 1664.1:1997, NCC2022 Volumes 2 and 3
<b>SCOPE OF CERTIFICATION</b>	Structural design actions for VISOR Balustrade Systems in accordance with AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2021, AS/NZS 1664.1:1997, NCC2022 Volumes 2 and 3
<b>TEST SETUP</b>	Structural design actions for VISOR Balustrade Systems in accordance with AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2021, AS/NZS 1664.1:1997, NCC2022 Volumes 2 and 3
<b>LENGTH OF BALUSTRADE SYSTEMS</b>	Up to 3000mm
<b>TEST PROCEDURES</b>	AS/NZS 1170.0:2002, AS/NZS 1170.1:2002, AS/NZS 1170.2:2021, AS/NZS 1664.1:1997, NCC2022 Volumes 2 and 3
<b>TEST RESULTS</b>	Maximum wind pressure resistance for VISOR Balustrade Systems is 2.0kPa.
<b>MAXIMUM WIND PRESSURE RESISTANCE (WIND-LOADING)</b>	The maximum wind pressure resistance for VISOR Balustrade Systems is 2.0kPa.
<b>BASES OF CERTIFICATION</b>	This certificate is issued in accordance with the requirements of the following documents: a. AS/NZS 1170.0:2002 Structural design actions. General Principles b. AS/NZS 1170.1:2002 Structural design actions. Permanent, imposed and other actions c. AS/NZS 1170.2:2021 Structural design actions. Wind actions d. AS/NZS 1664.1:1997 Aluminium structures. Part 1: Limit state design e. NCC2022 Volumes 2 and 3
<b>COMPLIANCE</b>	I certify that the VISOR Deck Mounted and Face Mounted Balustrade Systems described above and the details of their use have been tested in accordance with the requirements and approved by me, in accordance with the AS/NZS Balustrade Systems based on the test requirements specified in the above Standard and Code.
<b>CONDITIONS OF CERTIFICATION</b>	a. Maximum wind pressure resistance in accordance with the AS/NZS Balustrade Systems and NCC requirements. b. Maximum balustrade system for Face Mounted Balustrade Systems is 3000mm.



Images & drawings are not to scale

**NOTE – Select finish code:**  
 (EG VIS-4000-DECK-B for black)

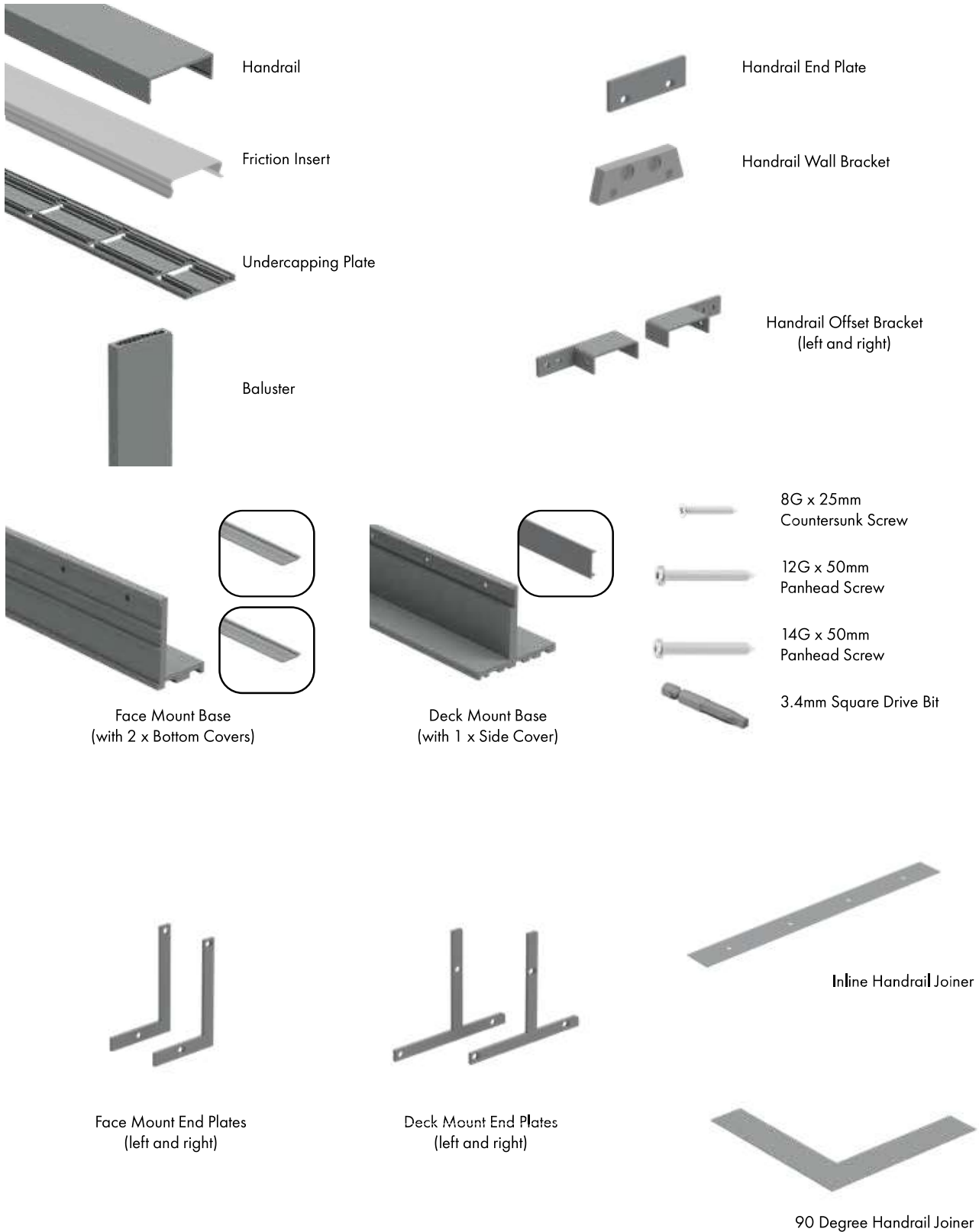
# ORDER CODES

Order Code	Description	Colours
VIS-1200-BAL-B/W/M-4PK	Aluminium 50x10mm baluster – 1200mm high (4 pack)	  
VIS-6100-BAL-B/W/M	Aluminium 50x10mm baluster – 6100mm long	  
VIS-4000-DECK-B/W/M	Aluminium deck mount 'T' profile – 4000mm long	  
VIS-4000-COV-DECK-B/W/M	Aluminium side cover profile – 4000mm long	  
VIS-4000-FACE-B/W/M	Aluminium face mount 'L' profile – 4000mm long	  
VIS-5000-FM-NM-M	Aluminium face mount 'L' profile – non machined – 5000mm long	
VIS-4000-COV-FACE-B/W/M	Aluminium bottom cover slide in profile – 4000mm long	  
VIS-4000-PLATE-B/W/M	Aluminium undercapping plate – 4000mm long	  
VIS-4942-PLATE-R-B/W/M	Aluminium undercapping plate – raked – 4942mm long	  
VIS-3050-INS-2PK	Aluminium friction insert – 3050mm long (2 pack)	 *Clear anodised
VIS-6100-HRAIL-B/W/M	Aluminium rectangular handrail – 70x23mm – 6100mm long	  
VIS-BRACKET-B/W/M-2PK	Aluminium offset bracket (2 pack)	  
VIS-EP-B/W/M	Aluminium 70x23mm handrail end plate	  
VIS-WB-B/W/M	Aluminium 63x20mm wall/post bracket	  
VIS-DMEP-B/W/M-2PK	Aluminium 'T' deck mount end plates (2 pack)	  
VIS-FMEP-B/W/M-2PK	Aluminium 'L' face mount end plates (2 pack)	  
VIS-J-M	Aluminium inline joiner for handrail friction insert	
VIS-J90-M	Aluminium 90 degree joiner for handrail friction insert	
VIS-SCR-BAL-50PK	12g x 50mm panhead screw (50 pack)	
VIS-SCR-SIDEBAL-50PK	14g x 50mm panhead screw (50 pack)	
VIS-SCR-CSK-50PK-B/W	8g x 25mm countersunk phillips head screw (50 pack)	  
DB-PH3	Driver bit phillips #3	
DB-SQ3.4	Square head driver bit	

 MATT BLACK
  MATT WHITE
  MILL

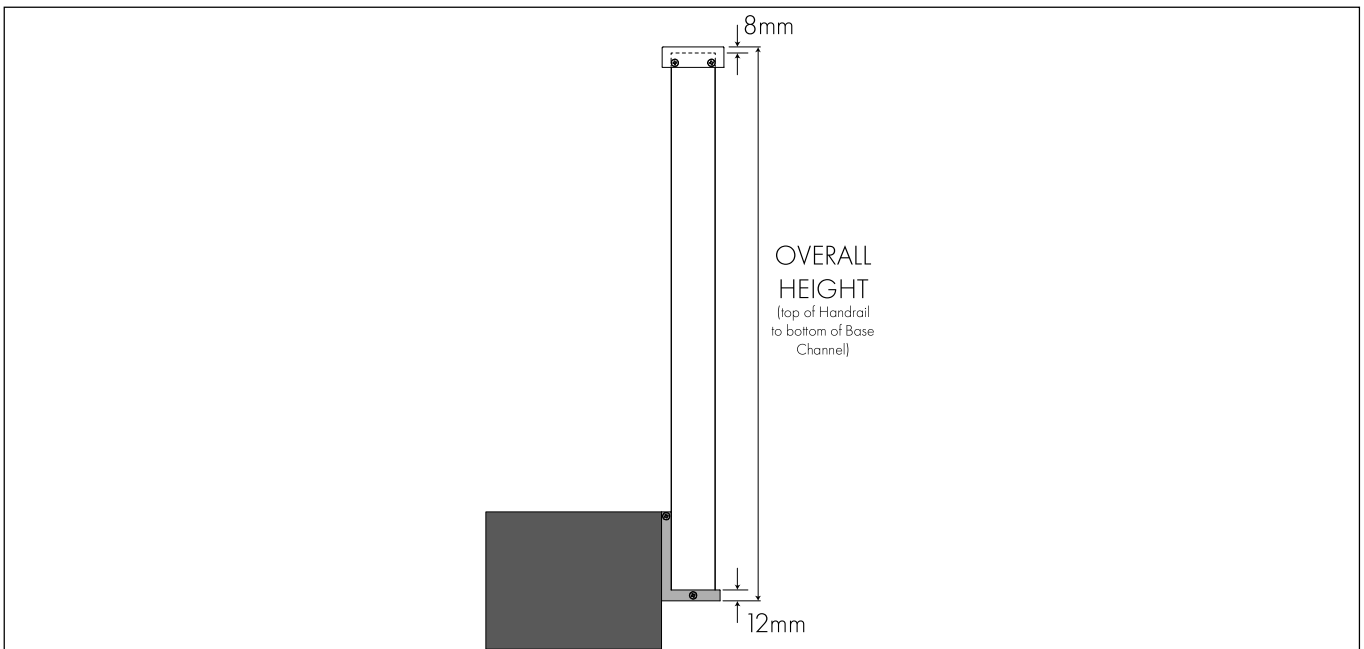
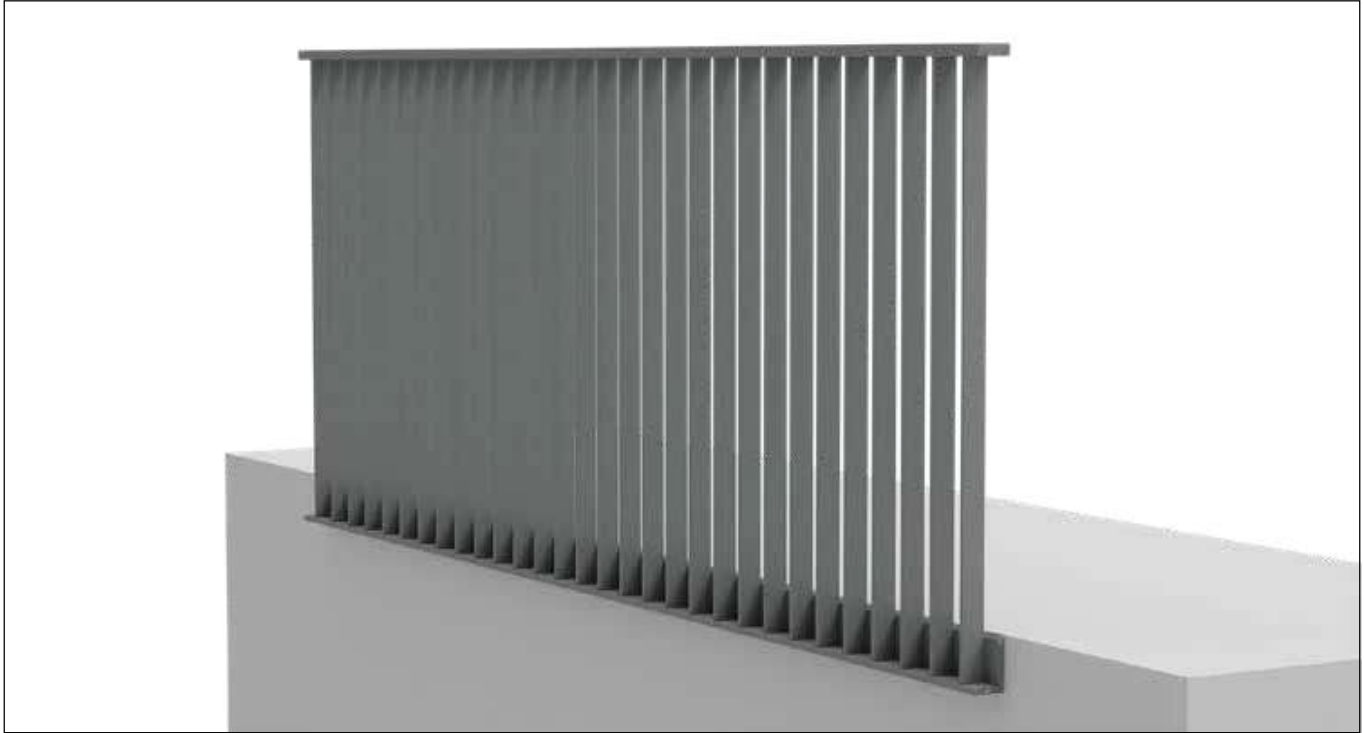


# VISOR™ FABRICATION



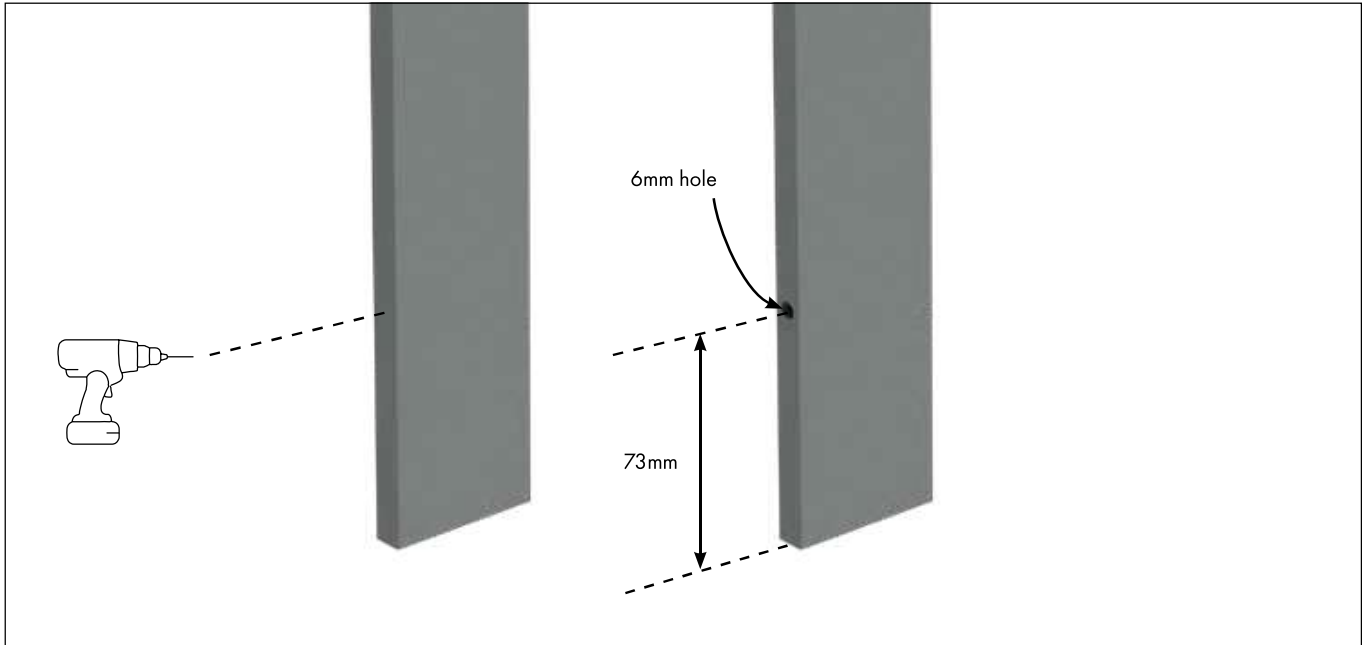
# VISOR™ FABRICATION

## FACE MOUNT APPLICATION

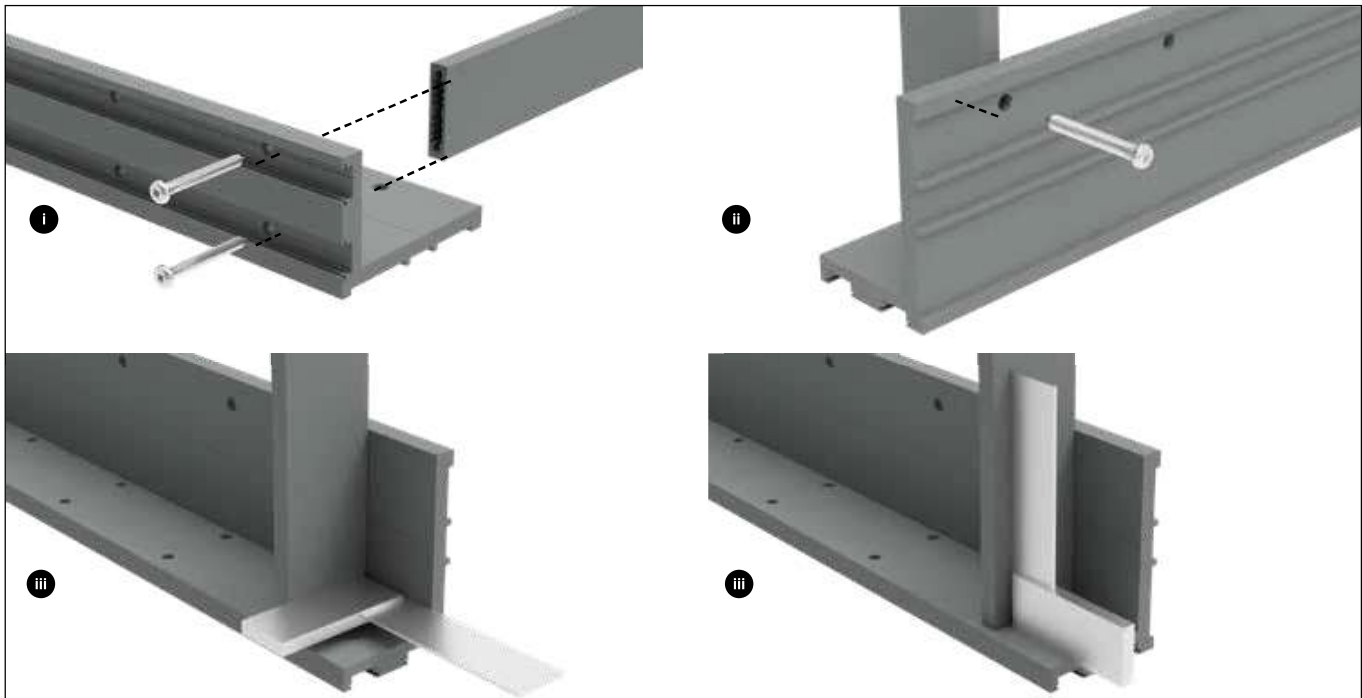


- 1 Cut Balusters to the required length, noting the Baluster height on the Face Mount Base and protrusion into the Handrail.  
Baluster Height = Overall height - 20mm

## VISOR™ FABRICATION



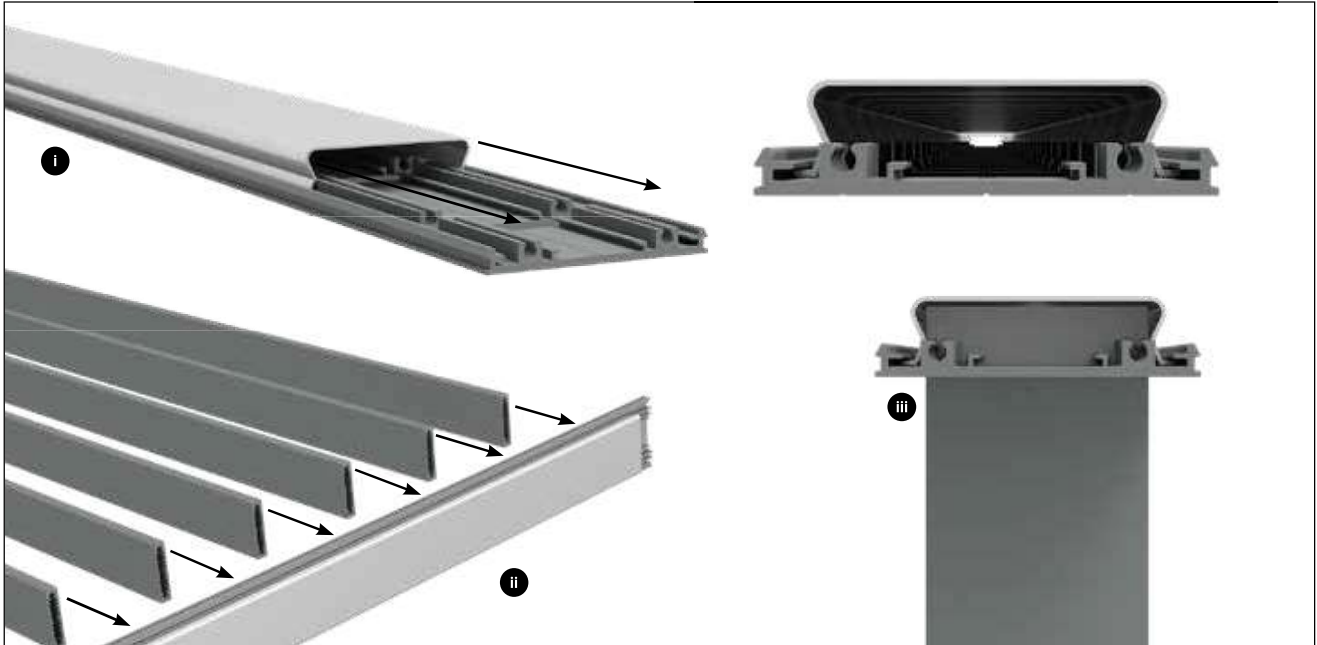
- 2 At one end (only) of the 50mm x 10mm Baluster, drill 1 x 6mm hole centrally on the 10mm face of the Baluster, 73mm from the end.



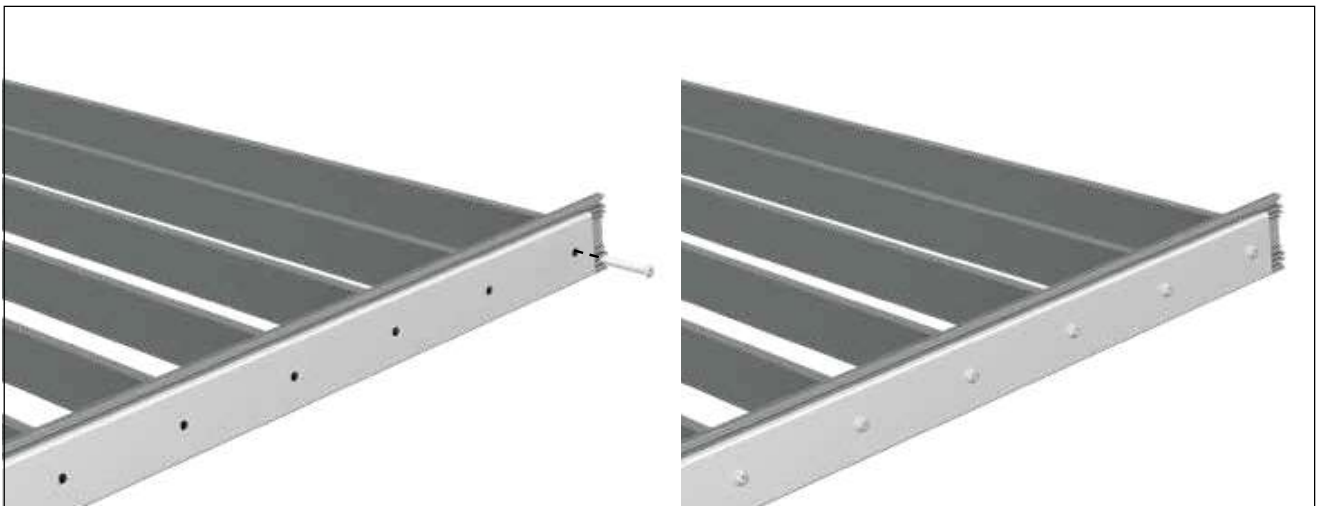
- 3 After cutting the Face Mount Base to the required length (see Appendix 3 for mitred corners), on a flat, padded surface;
- Affix each Baluster using 2x 12G x 50mm panhead screws to the underside of the pre-drilled Face Mount Base.
  - Affix each Baluster with 1x 14G x 50mm panhead screw to the side of the pre-drilled Face Mount Base.
  - Ensure each Baluster is square in the base before a final tighten of screws.

NOTE: A light lubricant is recommended when affixing screws.

## VISOR™ FABRICATION



- 4 Once all Balusters are affixed square on the Face Mount Base, cut the Undercapping Plate and Friction Insert to suit the Face Mount Base length and Baluster spacings (see Appendix 1 for Handrail termination considerations);
- i. Slide the Friction Insert into the Undercapping Plate.
  - ii. While the panel is lying flat, tap the slotted Undercapping Plate into the top of the Balusters.
  - iii. Ensure all Balusters touch the inner face of the Friction Insert.



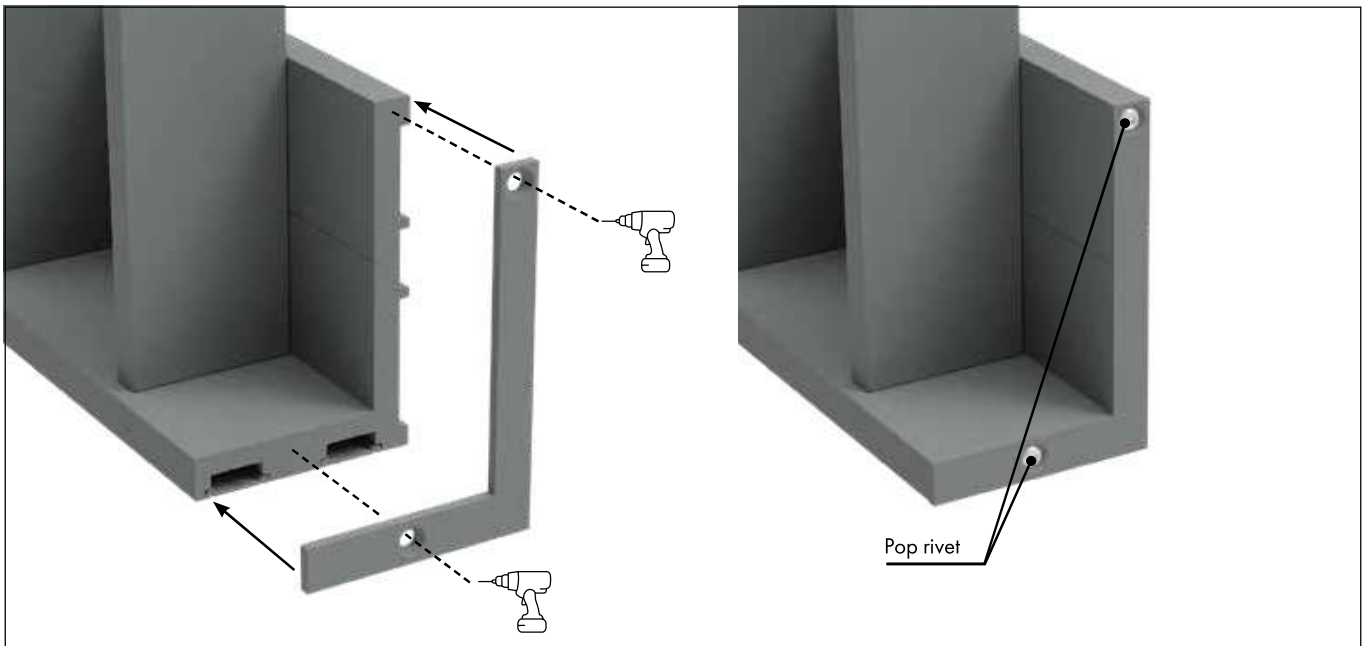
- 5 Drill a 6mm hole to the top v-groove of the Friction Insert, aligning to the centre of each Baluster.  
Affix 1x 14G x 50mm Panhead Screw to the top of each Baluster.

# VISOR™ FABRICATION



- 6 Cut the two Face Mount Base bottom covers to suit the length of the base and slide both into the bottom recesses to conceal the screw fixings.

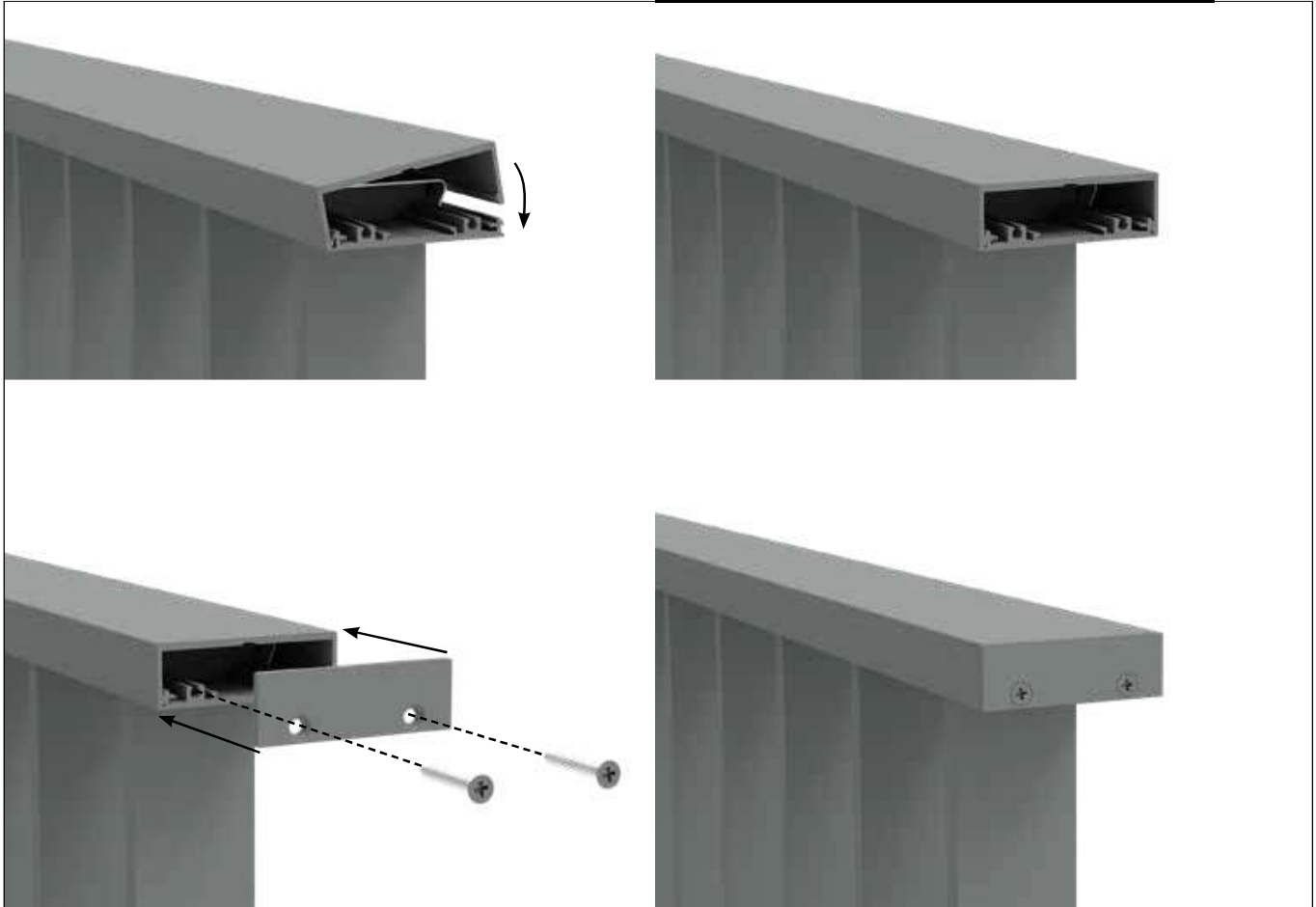
NOTE: The ends of the bottom covers may need to be trimmed or filed to ensure smooth insertion into the Face Mount Base recesses.



- 7 Attached the Face Mount End Plates to any exposed base profile end by drilling a 3.5mm hole and affixing with a colour matched 3.2mm Dia. aluminium pop rivet (not supplied).

# VISOR™ FABRICATION

## AFTER FABRICATED PANEL INSTALLATION

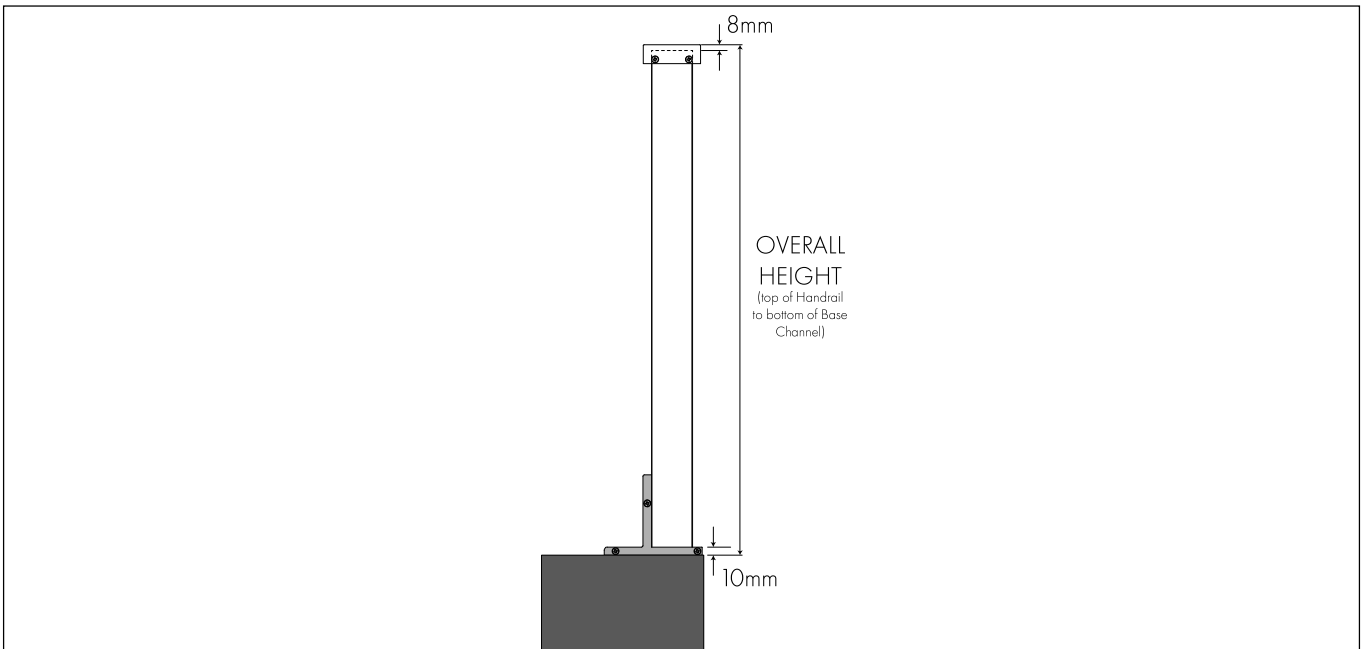
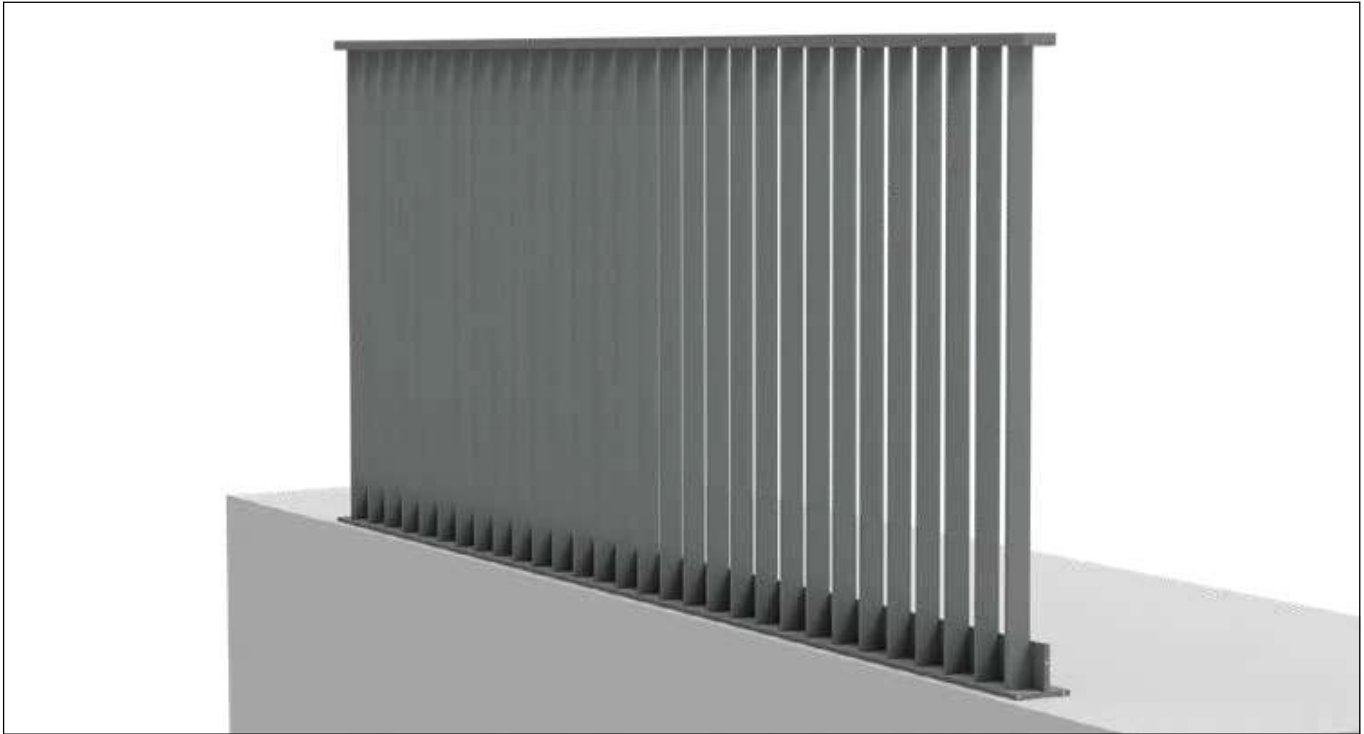


- 8 Affix all Handrails, Handrail Joiners, Handrail End Plates, or Handrail Offset Brackets after the installation of the fabricated panel (see Appendix 1 and 2). Example of End Plate shown above.

NOTE: Ensure the outer Handrail spans any inline joins in the Handrail Undercapping and Friction Insert.

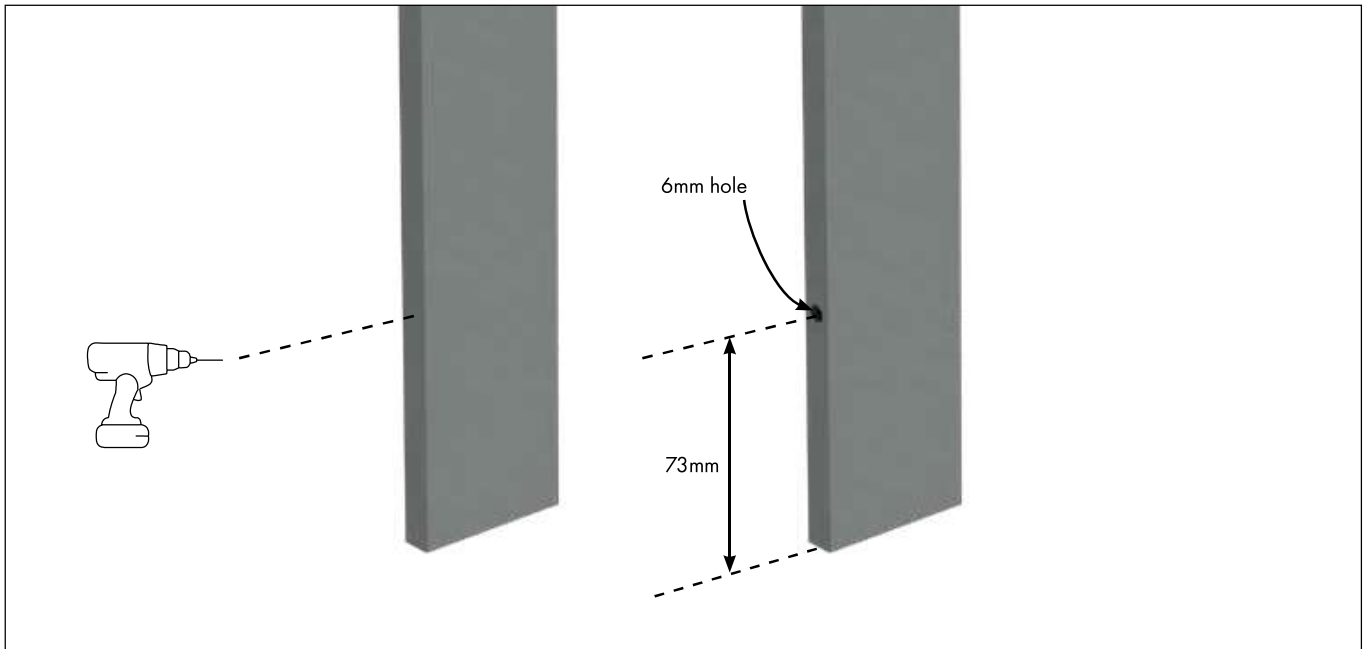
# VISOR™ FABRICATION

## DECK MOUNT APPLICATION

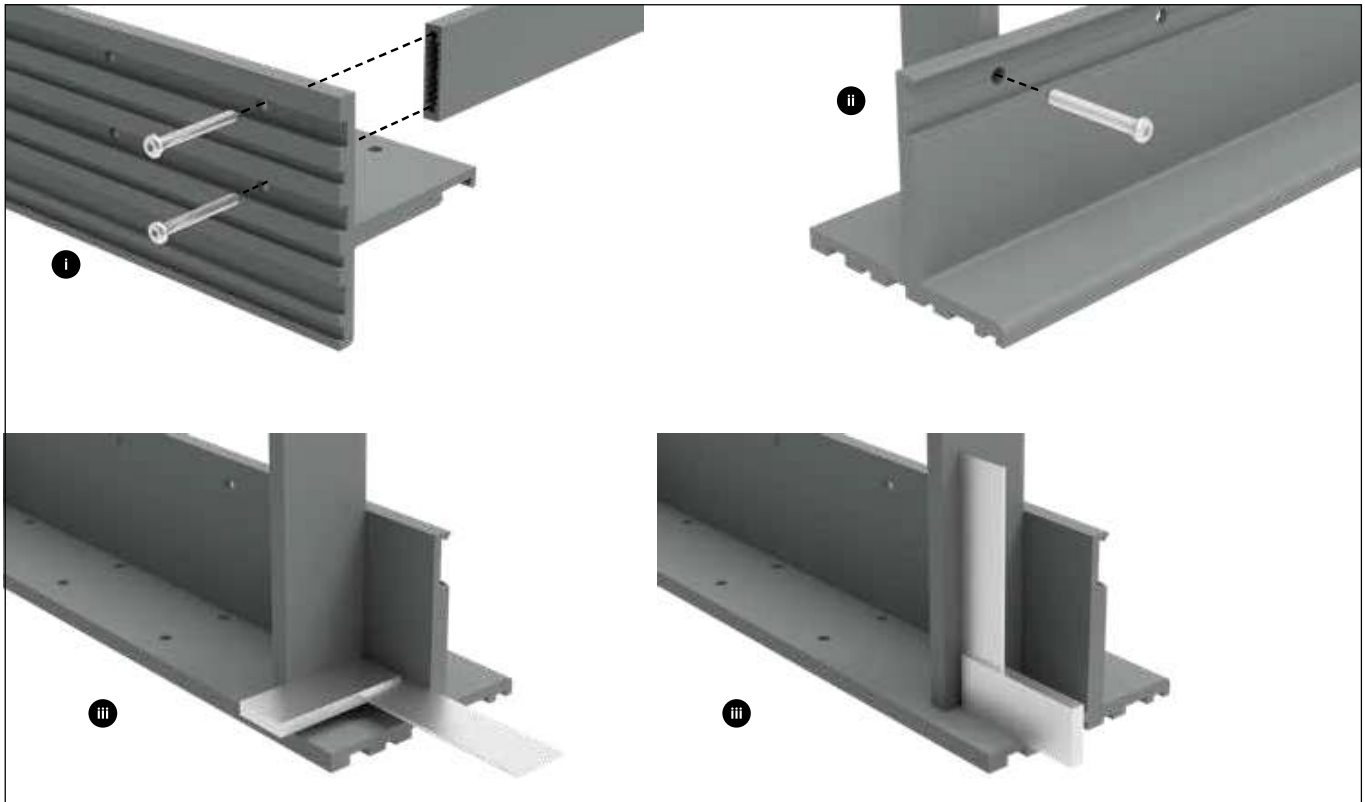


- A** Cut Balusters to the required length, noting the Baluster height on the Deck Mount Base and protrusion into the Handrail.  
Baluster Height = Overall height – 18mm

## VISOR™ FABRICATION



- B** At one end (only) of the 50mm x 10mm Baluster, drill 1 x 6mm hole centrally on the 10mm face of the Baluster, 73mm from the end.

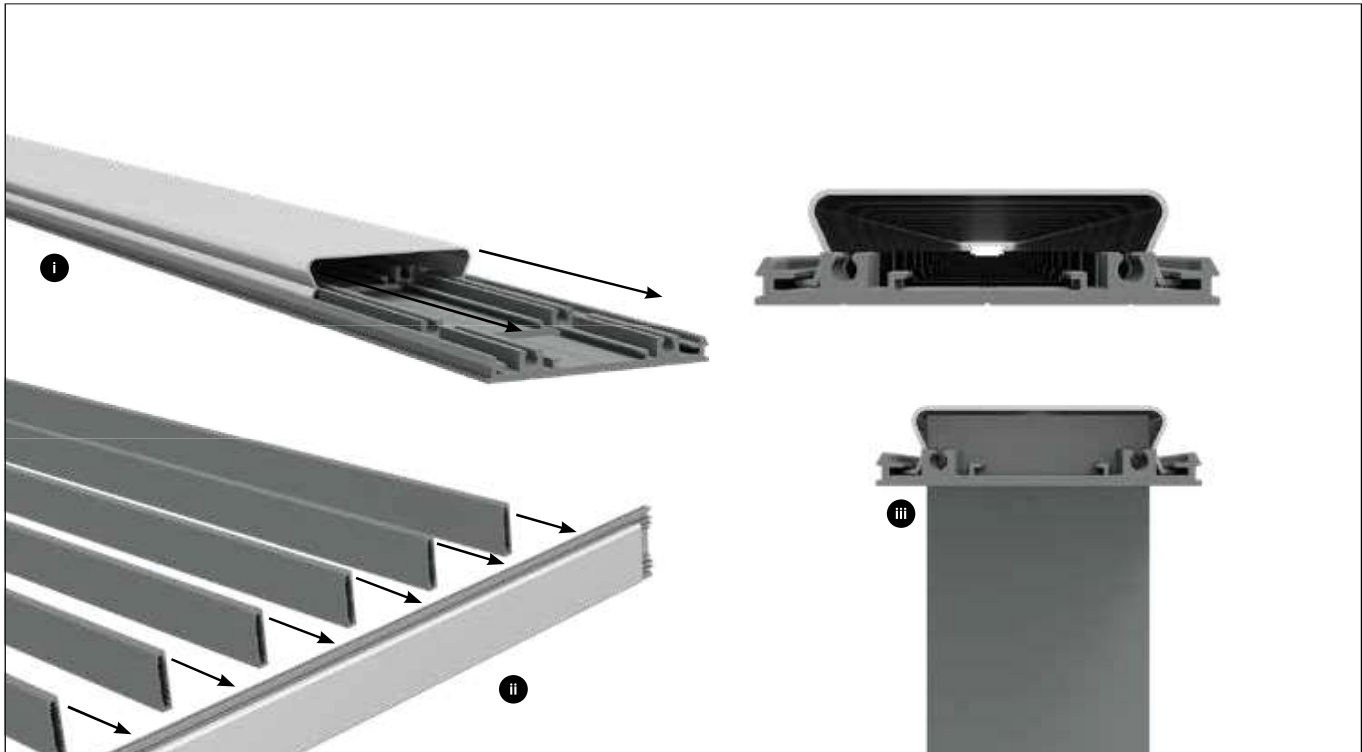


- C** After cutting the Deck Mount Base to the required length (see Appendix 4 for mitred corners, and Appendix 5 for drainage considerations), on a flat, padded surface;
- i. Affix each Baluster using 2x 12G x 50mm panhead screws to the underside of the pre-drilled Deck Mount Base.
  - ii. Affix each Baluster with 1x 14G x 50mm panhead screw to the side of the pre-drilled Deck Mount Base.
  - iii. Ensure each Baluster is square in the base before a final tighten of screws.

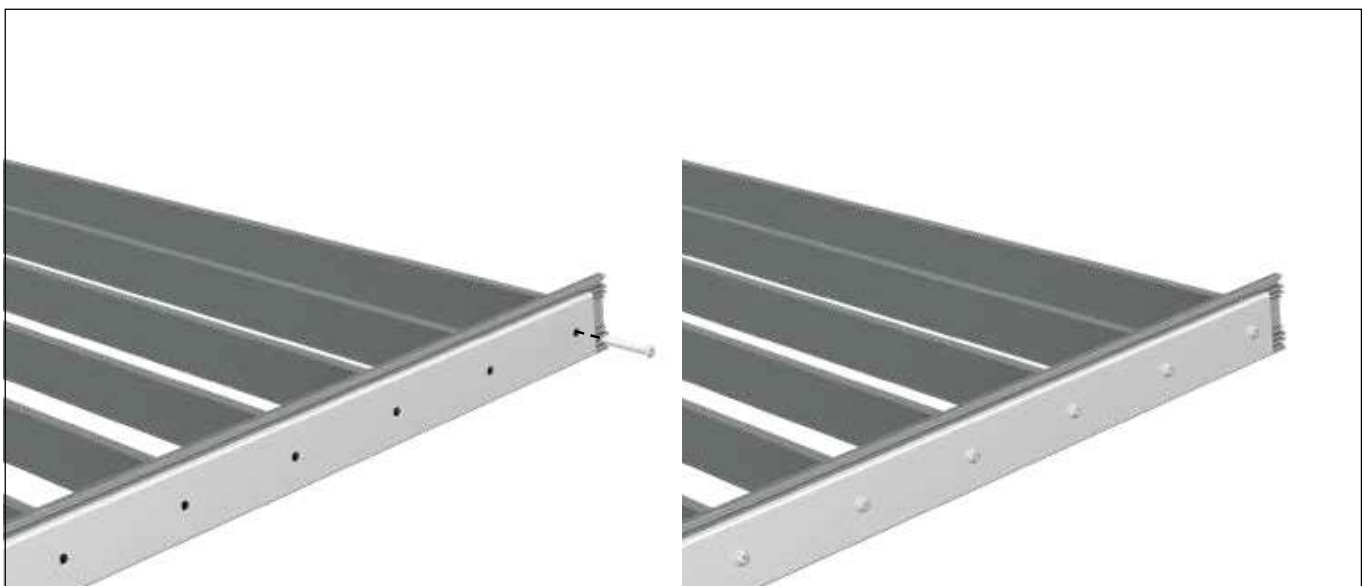
NOTE: A light lubricant is recommended when affixing screws.



## VISOR™ FABRICATION

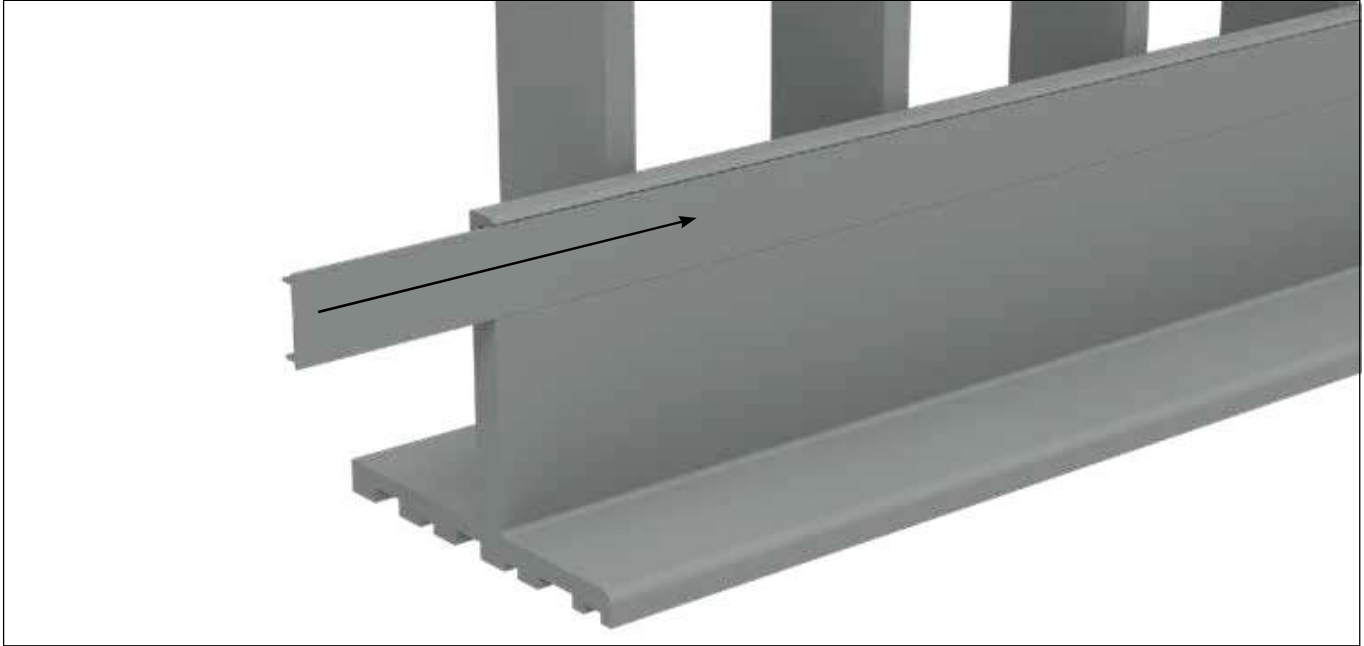


- D** Once all Balusters are affixed square on the Deck Mount Base, cut the Undercapping Plate and Friction Insert to suit the Deck Mount Base length and Baluster spacings (see Appendix 1 for Handrail termination considerations);
- Slide the Friction Insert into the Undercapping Plate.
  - While the panel is lying flat, tap the slotted Undercapping Plate into the top of the Balusters.
  - Ensure all Balusters touch the inner face of the Friction Insert.



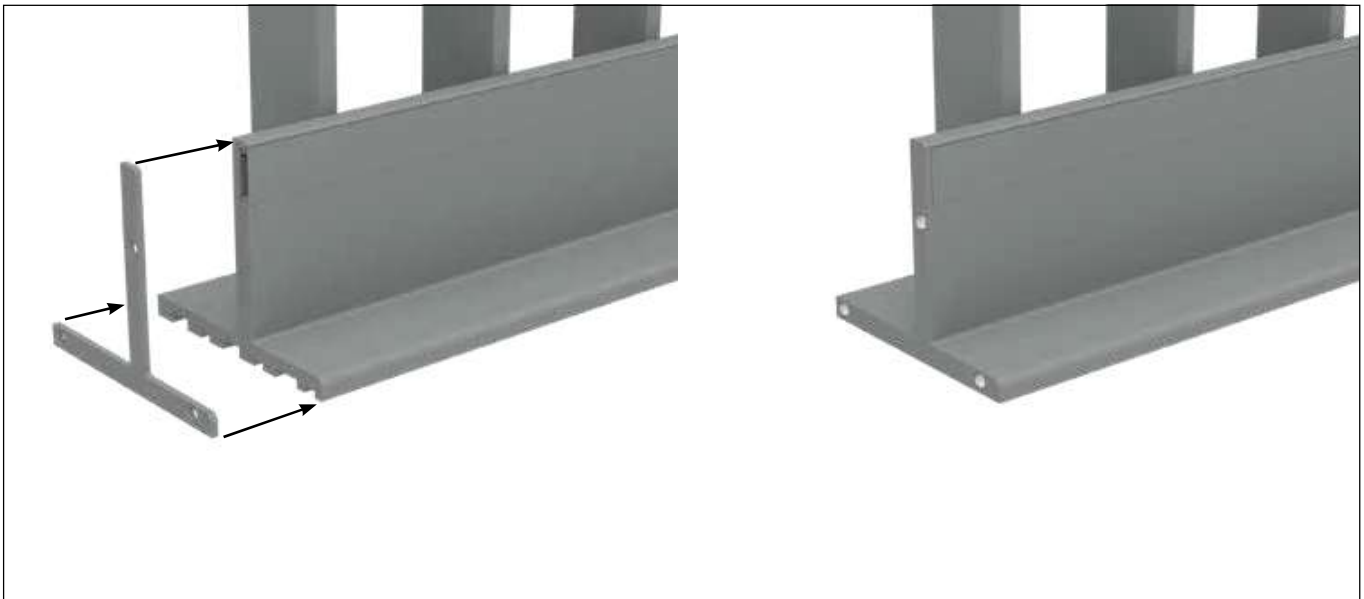
- E** Drill a 6mm hole to the top v-groove of the Friction Insert, aligning to the centre of each Baluster.  
Affix 1x 14G x 50mm Panhead Screw to the top of each Baluster.

## VISOR™ FABRICATION



**F** Cut the Deck Mount Base side cover to suit the length of the base and slide into the side recess to conceal the screw fixings.

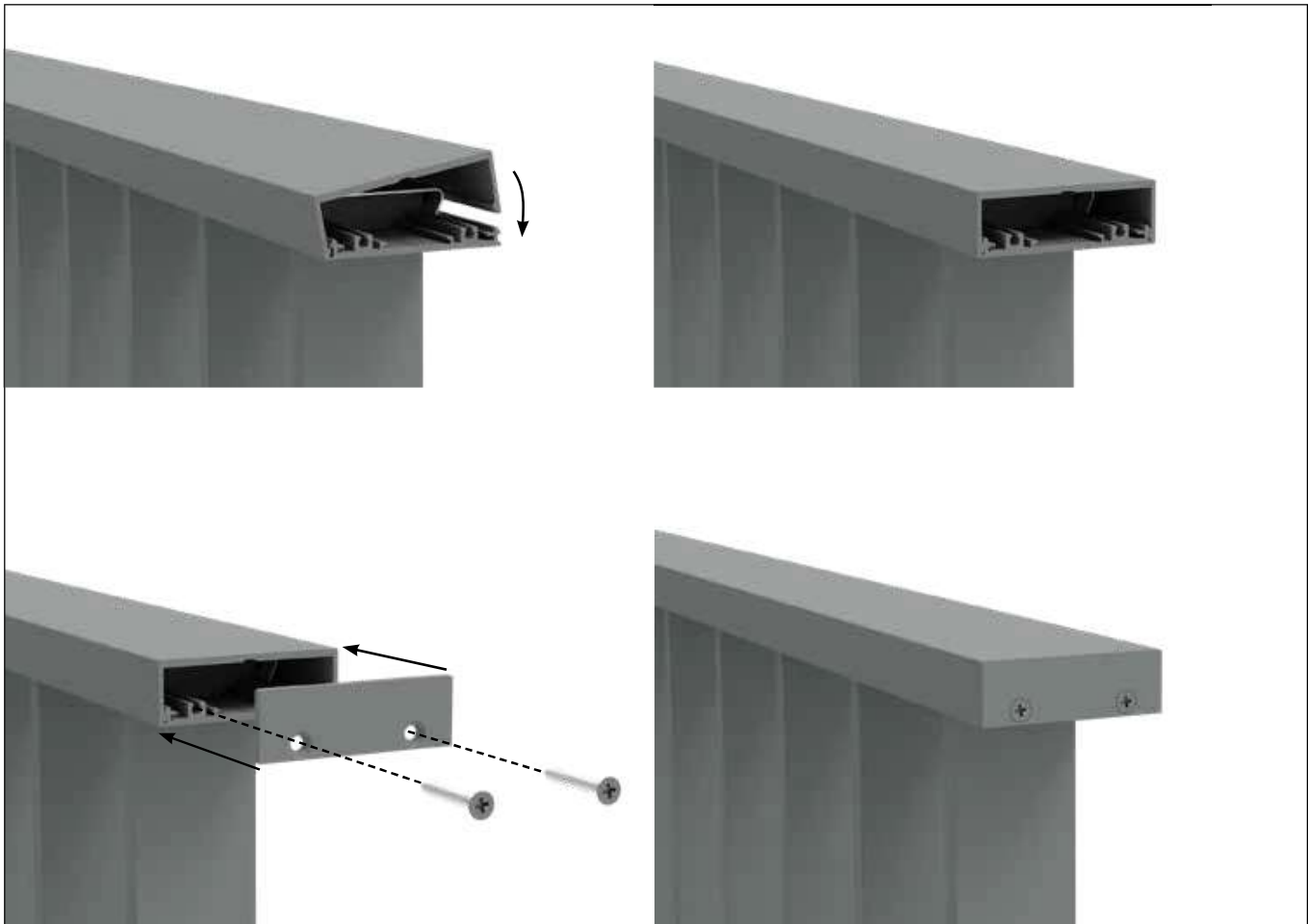
NOTE: The end of the side covers may need to be trimmed or filed to ensure smooth insertion into the Deck Mount Base recess.



**G** Attach the Deck Mount End Plates to any exposed base profile end by drilling a 3.5mm hole and affixing with a colour matched 3.2mm Dia. aluminium pop rivet (not supplied).

# VISOR™ FABRICATION

AFTER FABRICATED PANEL INSTALLATION

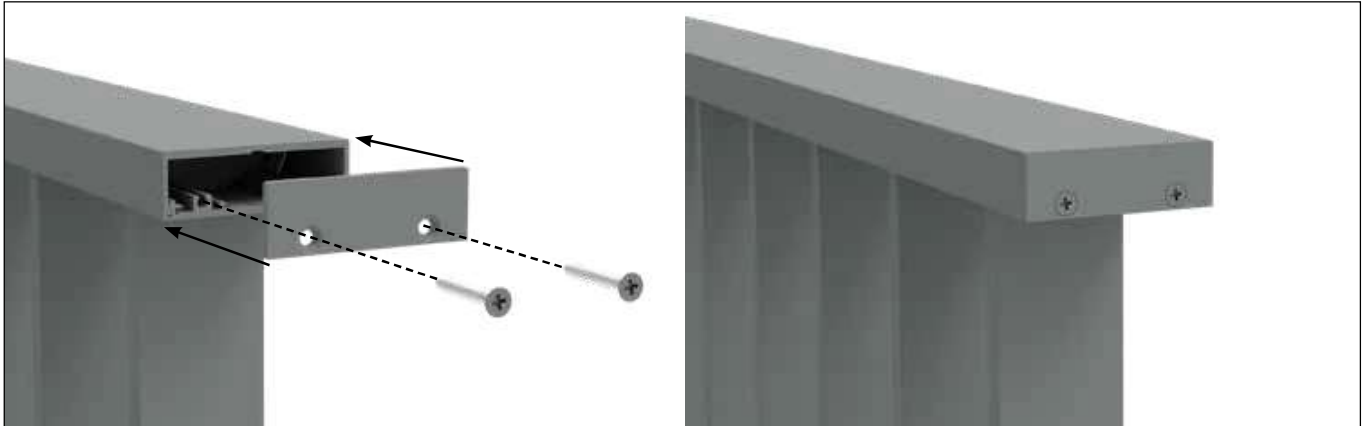


**H** Affix all Handrails, Handrail Joiners, Handrail End Plates, or Handrail Offset Brackets after the installation of the fabricated panel.  
Example of End Plate shown above.

NOTE: Ensure the outer Handrail spans any inline joints in the Handrail Undercapping and Friction Insert.

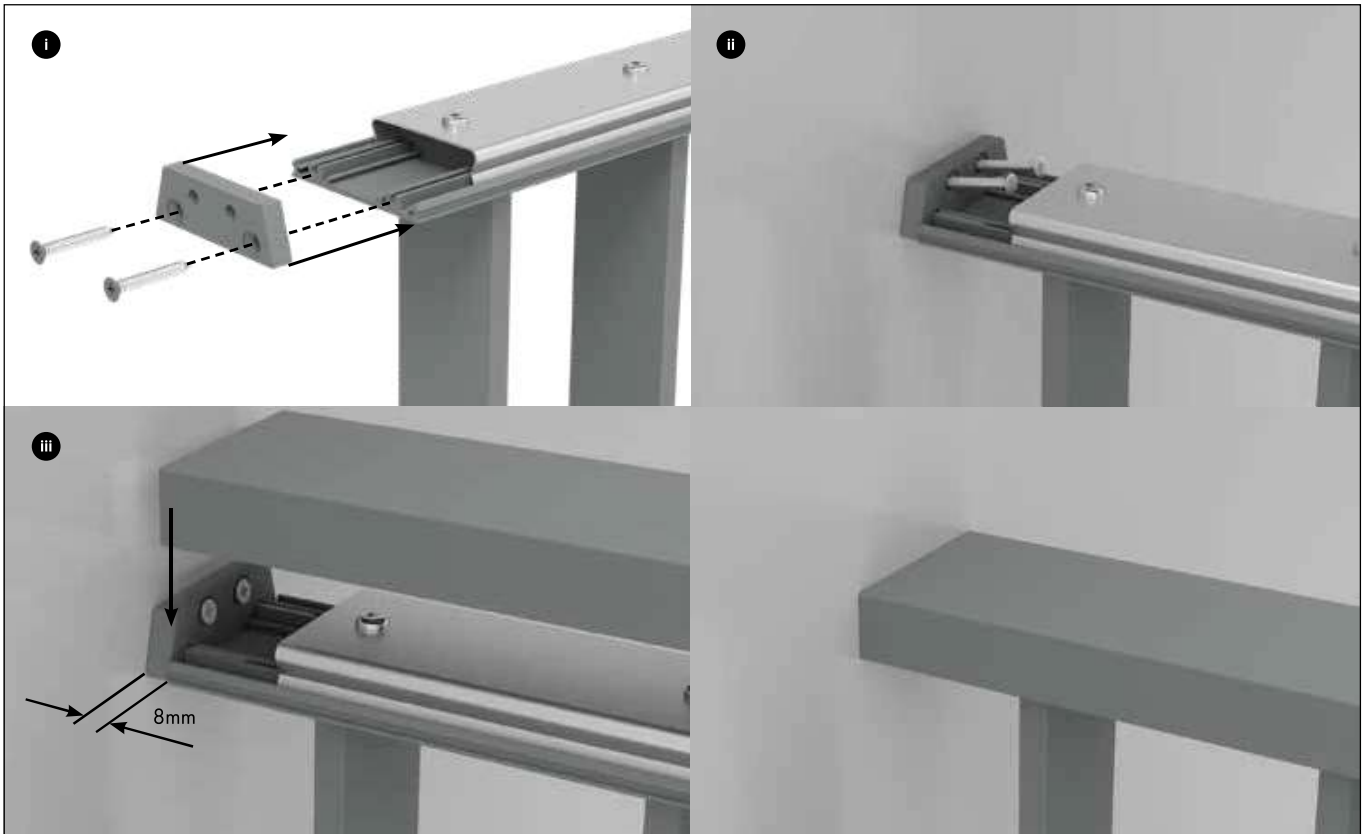
# VISOR™ FABRICATION – APPENDIX 1

## HANDRAIL TERMINATION



● Option 1: Handrail End Plate

For Handrails that do not terminate at an existing post or wall, simply screw a Handrail End Cap to the screw flutes in the Undercapping Plate using two 8G x 25mm Countersunk Screws.



● Option 2: Handrail Wall Bracket

For Handrails that terminate directly to an existing post or wall, ensure the Undercapping and Friction Insert is cut 8mm shorter and affix the Handrail Wall Bracket to the screw flutes in the Undercapping Plate using two 8G x 25mm Countersunk Screws.

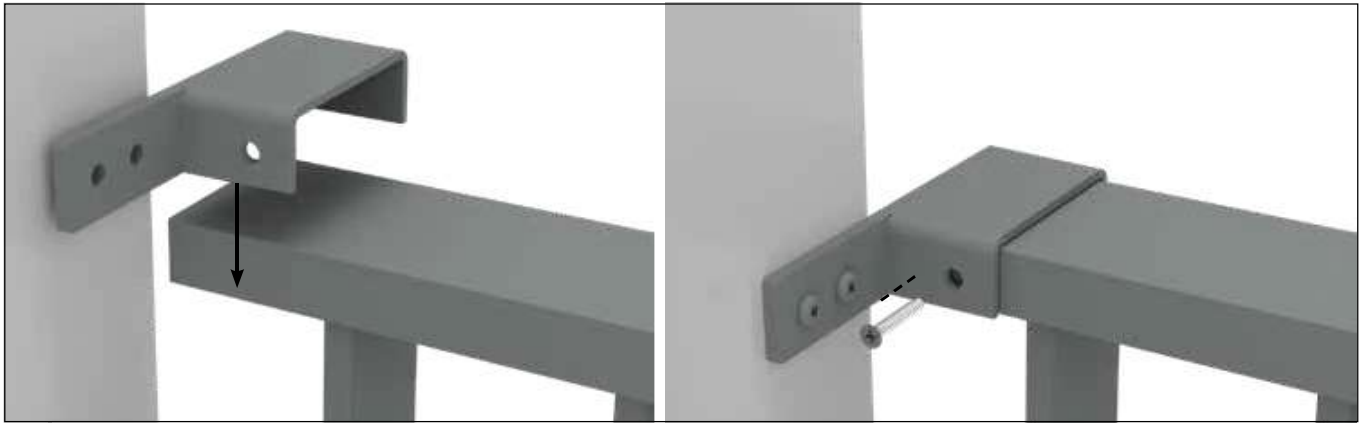
Affix the bracket to the existing wall or post using an appropriate fixture for the substrate (noting the Friction Insert will need to be notched/trimmed for screw access).

Snap-fix the Handrail over the Handrail Wall Bracket at full length to conceal the fixings.

# VISOR™ FABRICATION – APPENDIX 1

## HANDRAIL TERMINATION

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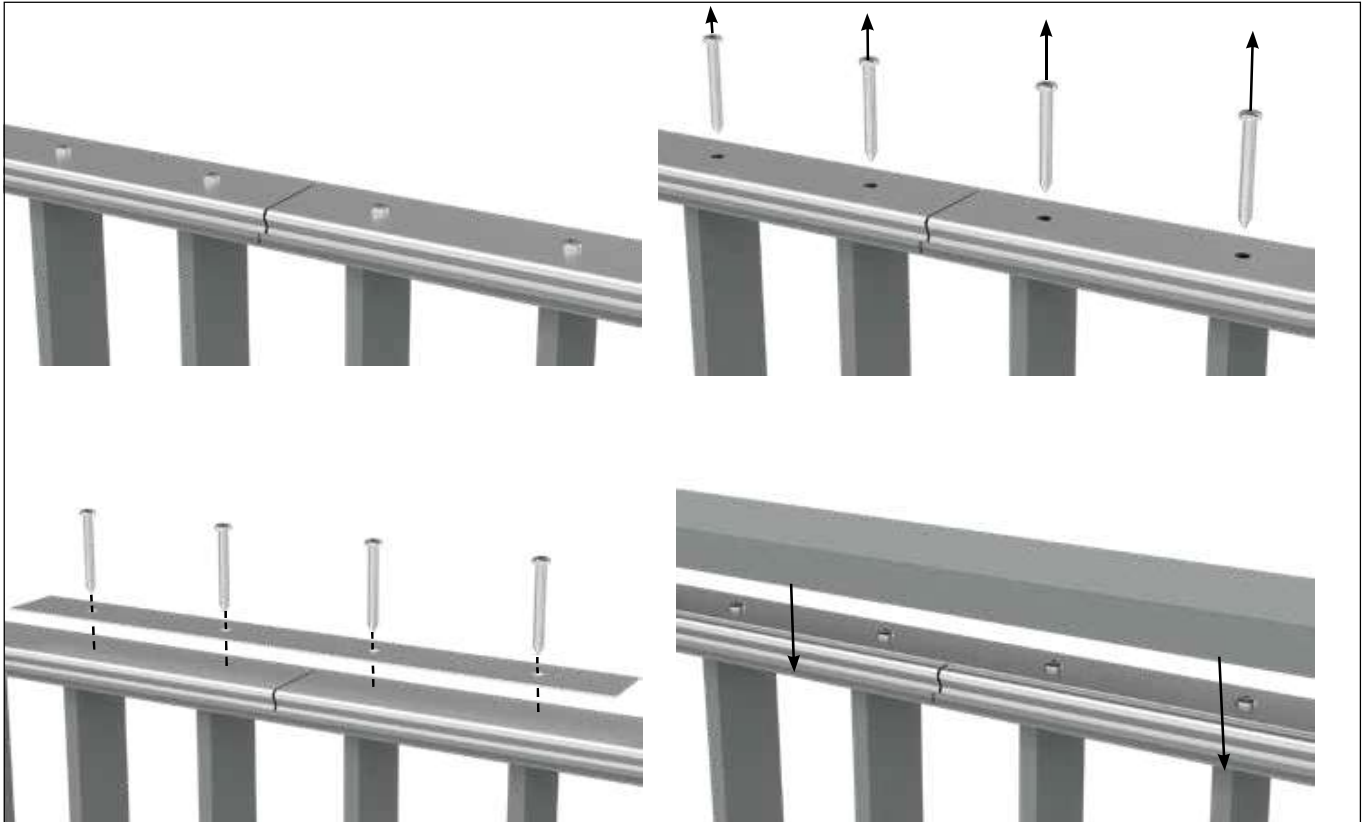


● Option 3: Handrail Offset Brackets

For Handrails that terminate offset to an existing post or wall (particularly when using a Face Mount Base), cut the Handrail, Friction Insert and Undercapping Plate 6mm shorter at each location that a Handrail Offset Bracket is to be used. Affix to the existing post or wall using an appropriate fixture for the substrate. Using an 8G x 25mm countersunk screw, attach the Handrail Offset Bracket to the Handrail and Friction insert.

## VISOR™ FABRICATION – APPENDIX 2

### HANDRAIL JOINERS



#### ● Option 1: Inline Handrail Joiner

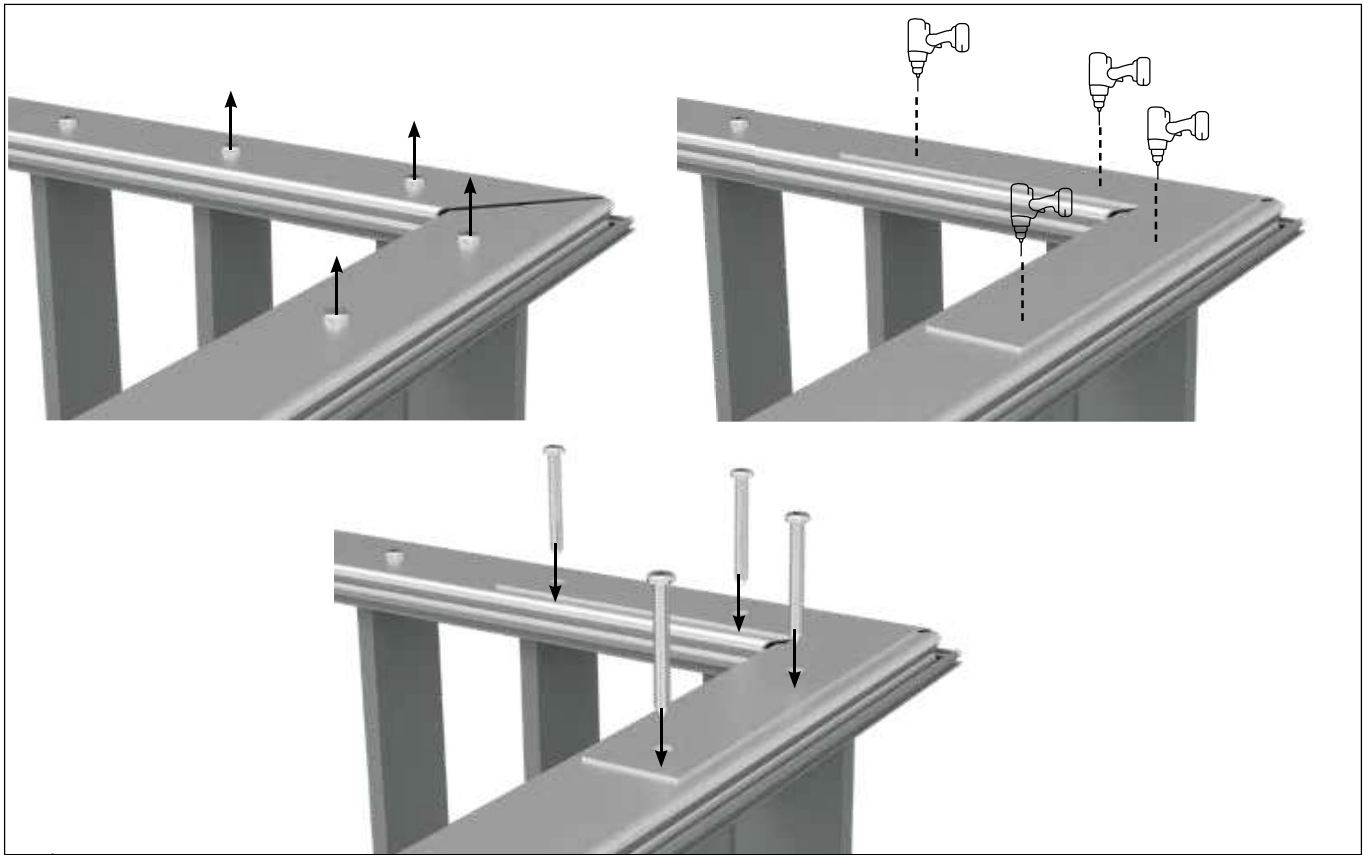
Inline Handrail Joiners are added after the installation of the Visor™ balustrade panels and prior to snap-fixing the Handrail into position. Inline Joiners are to be used when joining two Undercapping Plates together. Remove the four 14G x 50mm Panhead Screws from the top of adjacent panels (two from each panel) and affix the Inline Handrail Joiner using the same screws. 7mm holes may need to be drilled if the end Baluster spacings have been altered from original lengths.

Ensure the Handrail spans the join location of the Inline Handrail Joiner to offer further rigidity.

NOTE: The Face Mount Base and the Deck Mount Base do not require a joiner. Simply position the extrusions together end-to-end and affix to the substrate using appropriate fixtures.

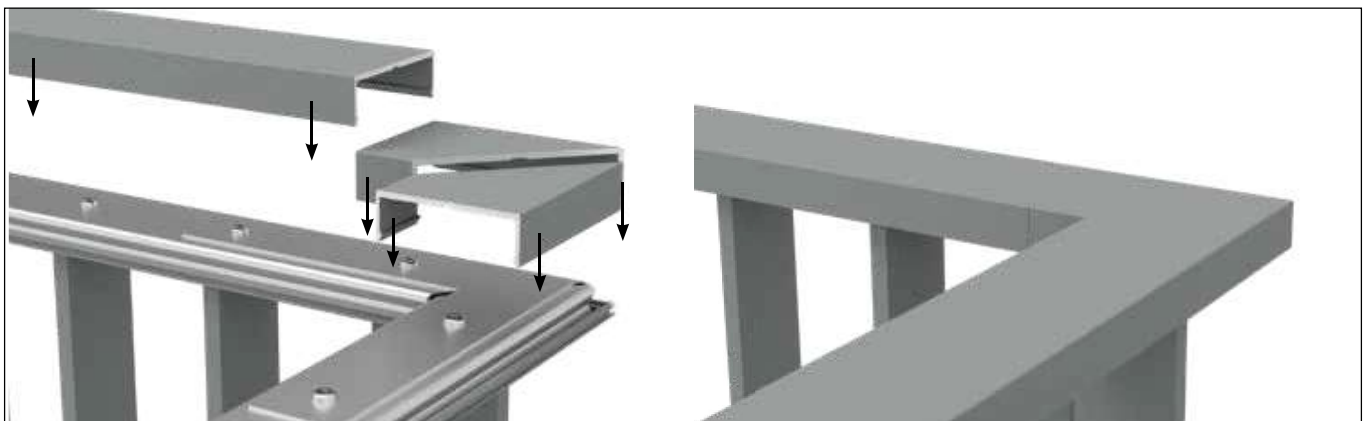
# VISOR™ FABRICATION – APPENDIX 2

## HANDRAIL JOINERS



● Option 2: 90 Degree Handrail Joiner

A 90 Degree Handrail Joiner is added after the installation of the Visor™ balustrade panels and prior to snap-fixing the Handrail into position. Remove the four 14G x 50mm Panhead Screws from the top of the mitred adjacent panels (two from each panel). Drill 4x 7mm holes to the 90 Degree Handrail Joiner in line with the existing screw holes. Reapply screws to engage the Baluster through the Friction Insert and 90 Degree Joiner.

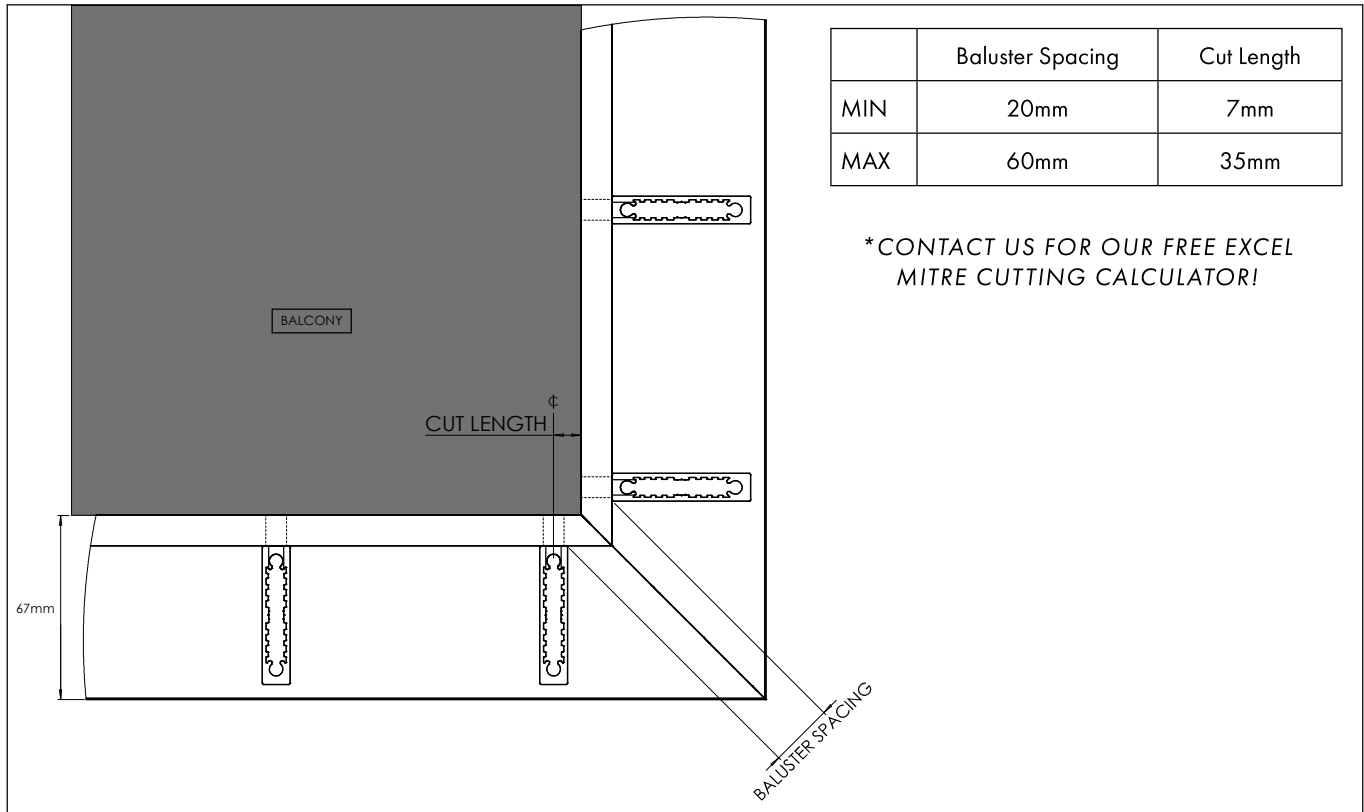


● Cut the handrail at a mitre to suit the Undercapping, and cut the other end central to the first Baluster giving two short corner handrail sections. Affix both mitred Handrail sections by clipping/sliding into position. Measure, cut and affix the remaining Handrail with straight cuts.

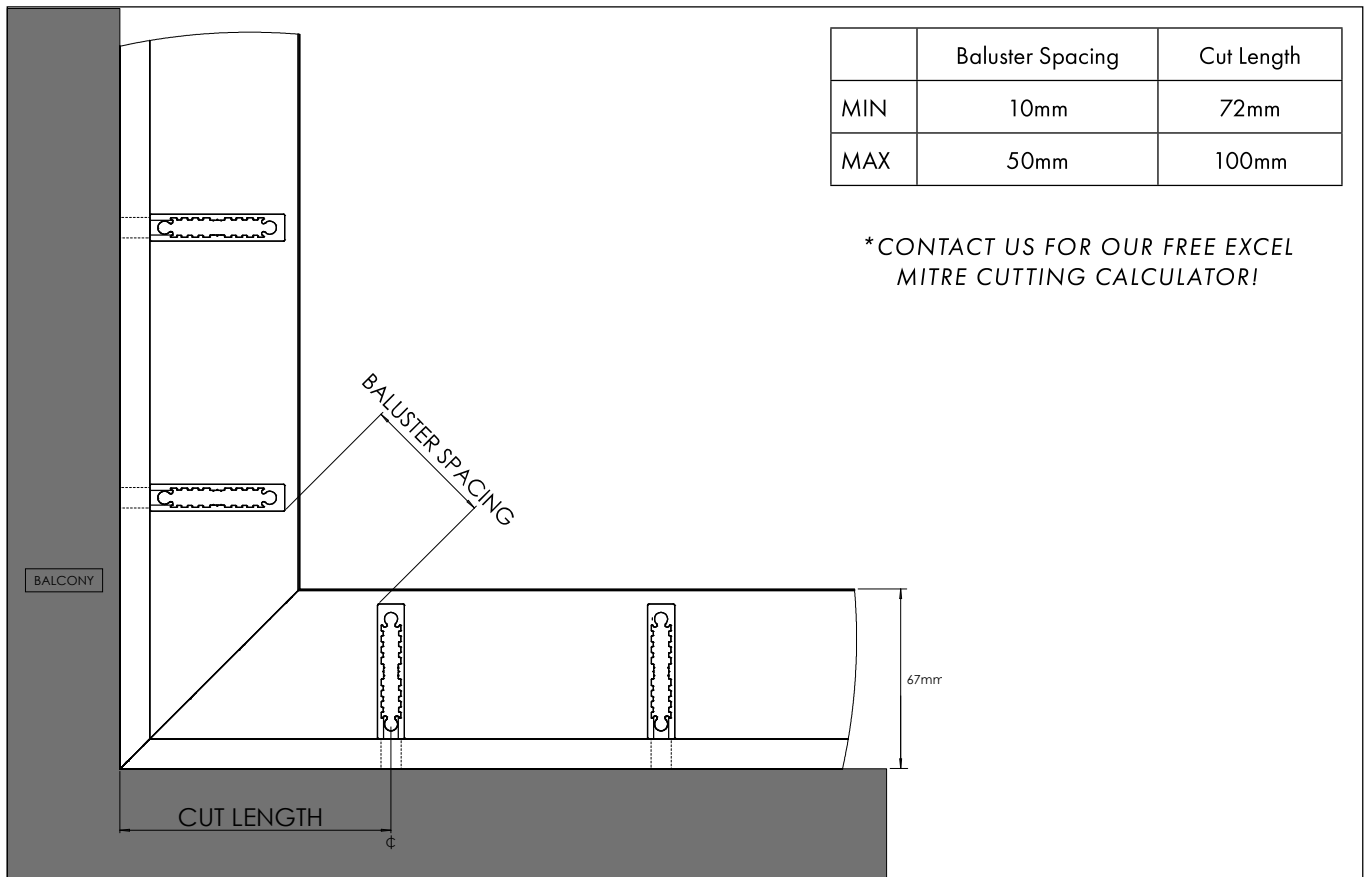
NOTE: The Face Mount Base and the Deck Mount Base do not require a joiner. Simply position the extrusions together end-to-end and affix to the substrate using appropriate fixtures (see Appendix 3 and 4).

# VISOR™ FABRICATION – APPENDIX 3

## FACE MOUNT BASE MITRED CORNERS



● Option 1: External Corners



● Option 2: Internal Corners



# VISOR™ FABRICATION – APPENDIX 4

## DECK MOUNT BASE MITRED CORNERS

	Baluster Spacing	Cut Length
MIN	20mm	40mm
MAX	60mm	11mm

*\*CONTACT US FOR OUR FREE EXCEL MITRE CUTTING CALCULATOR!*

● Option 1: External Corners

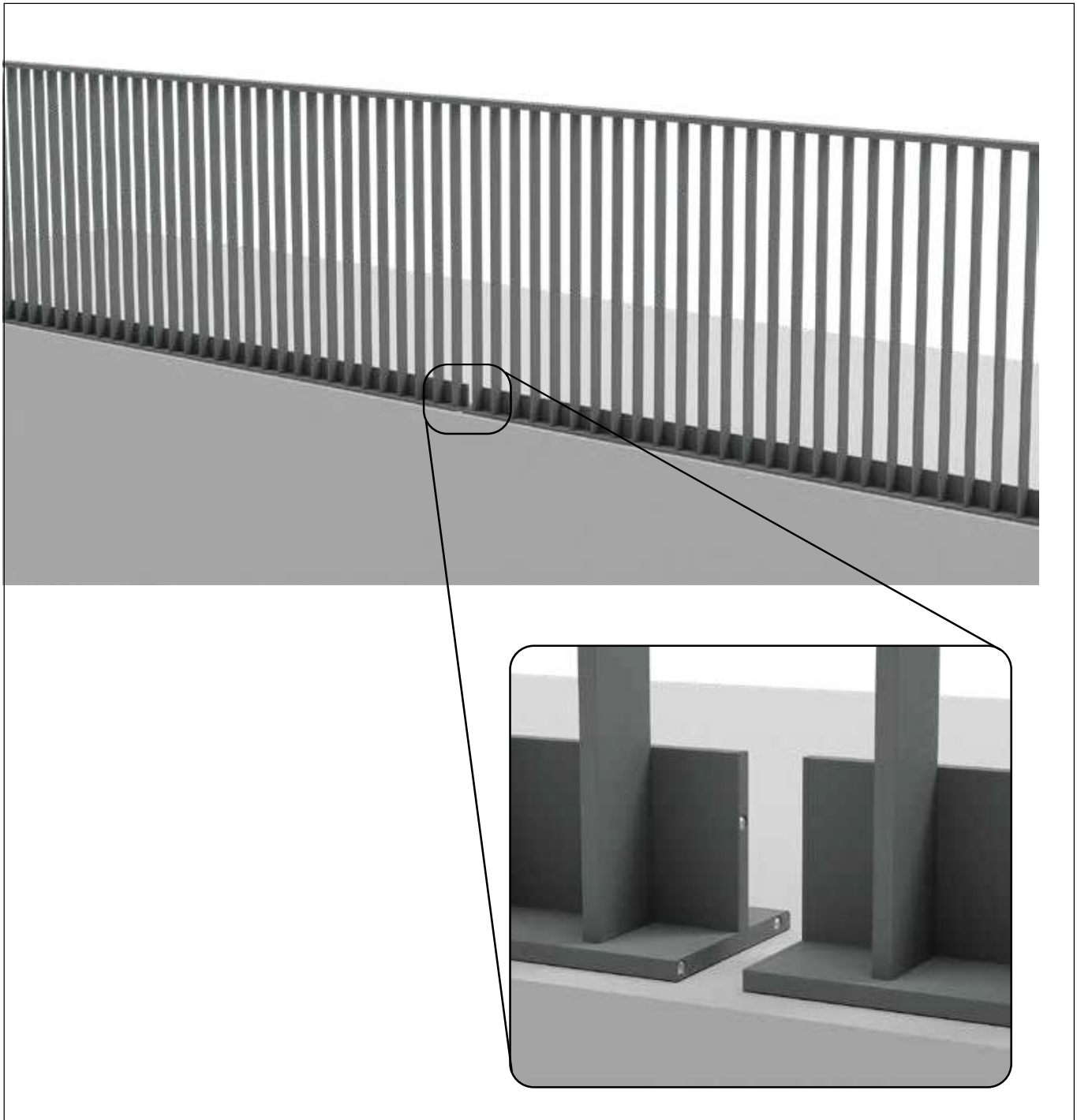
	Baluster Spacing	Cut Length
MIN	10mm	119mm
MAX	50mm	147mm

*\*CONTACT US FOR OUR FREE EXCEL MITRE CUTTING CALCULATOR!*

● Option 2: Internal Corners

# VISOR™ FABRICATION – APPENDIX 5

## DECK MOUNT BASE DRAINAGE CONSIDERATIONS



- For decks and balconies that require water drainage considerations, leave a 50mm gap in the Deck Mount Base, equally spaced between two Balusters.

Attach Deck Mount End Plates to each exposed base profile ends by drilling a 3.5mm hole and affixing with a colour matched 3.2mm Dia. aluminium pop rivet (not supplied).

Deck Mount Base fixtures to the substrate will be required on each side of this gap and the handrail will span this gap.