



 JURALCO

JURALCO EDGE®
BALUSTRADE SYSTEMS

ISSUE 10-26 v1

Juralco Aluminium Building Products Ltd designs and distributes specialist aluminium joinery systems through a national network of franchised fabricators and agents. For more than 25 years we have been at the forefront of specialist aluminium door and window products suitable for New Zealand joinery and building methods. Our comprehensive product range includes security and insect screens, balustrades and gates, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors. The Juralco EDGE® Balustrading Systems is an architectural balustrade system designed to provide a wide range of design options in both contemporary glass and in more conventional aluminium metal balusters.

The Juralco EDGE® Balustrade system is an architectural balustrade system designed to provide a range of modern design options in both glass and aluminium. Mounting to a deck can be done a variety of ways to timber, concrete, steel, and to waterproof membranes. Toughened Glass infills can be 6mm or 10mm, either fully framed (6mm) or semi frameless (10mm) with handrails either top or side mounted. Toughened 13.2mm Laminated glass can be used for semi frameless applications. For a more traditional look Vertical metal infills are available in 17mm sq and 49mm, 60mm and 123mm slats, all in powder coated colour of your choice. All designs are available with a variety of handrails. Tables are shown for various baluster spacings, heights and wind zones. All mountings and installation recommendations conform to the latest AS/NZS1170 and NZS 4223.3.2016 regulations. Our installers are all very experienced and can recommend a balustrading system to fit your design requirements and budget.



Top left illustration - Top Mount EDGE® Balustrade with Metal Balusters
Bottom left illustration - Top Mount EDGE® Balustrade with Metal Balusters
Illustration above - Face Fixed EDGE Balustrade with Laminated glass,
to Concrete
Cover illustration - Face Fixed EDGE® Semi Frameless Balustrades

Complies With AS/NZS 1170:2002, NZS 4223.3.2016, NZ Building Code B, B1, B2, E, F2 ,F4 and F9

**EDGE® Balustrade is for Occupancy types A, A Other, B, E, and C3 only
Occupancy Types as per AS/NZ 1170.1.2002.**

Code	Type of Occupancy for part of the building or structure	Specific Uses	Glass
A	Domestic and Residential activities	All areas within or serving exclusively one dwelling including stairs, landings etc, but excluding external balconies and edges of roofs.	6mm, 10mm Toughened Glass and 13.2mm Toughened Laminated Glass
A Other, C3	Areas without obstacles for moving people and not susceptible to over crowding	Stairs, landings, external balconies, edges of roofs etc.	
B,E	Office and work areas not included elsewhere including storage areas.	Light access stairs and gangways not more than 600mm wide fixed platforms, walkways, stairways and ladder for access. Areas not susceptible to overcrowding in office and institutional buildings; also industrial and storage buildings.	

Note 1 Glass 6mm, 10mm Toughened Safety Glass and 13.2mm Toughened Laminated Glass must have a minimum strength of 100MPa. All edges polished.

Note 2 Juralco Balustrade Systems building code compliance documentation requires all balustrade installations are to be completed in accordance with the requirements of our authorised installer certification.

Note 3 All Semi Frameless glass Balustrades must have an Top or Side mounted Handrail to conform to NZS 4223.3.2016, except for 13.2mm Toughened Laminated Glass applications as per this manual. Handrails not necessary for Swimming Pools.

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Section 4852JB

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Juralco EDGE® Balustrade System - Specifications and Surface finishes

1.Scope- This specification details the documents the Juralco EDGE® Balustrade System refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, requirements in relation to fixing and surface finishings.

2. NZBC Compliance

- The Juralco EDGE® Balustrade System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170 : 2002 occupancy A, A Other and C3, NZS 3604 Low, Medium, High, Very High and Extra High Wind Zones. 2.5kPa max wind pressure
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 Hazardous material and F4 Safety from falling, all from the Building Code.
- Verification Method B1 / VM1, B2/AS1, F4 / AS1.
- All glass used in the Juralco EDGE® Balustrade System must conform to AS/NZS 2208.
- Complies with NZS 4223.3.2016

3. Manufacturer's Documents

- The Juralco EDGE® Balustrade System manual details all extrusions and components used for the fabrication and installation/fixing of the system.
- A Producer Statement 1(Design) is available.
Copies of the above documents are available from:
Juralco Aluminium Building Products Ltd
48 Bruce McLaren Rd, Henderson, Auckland
Phone 09 478 8018 Fax 09 478 7883 Email specify@juralco.co.nz
- Any deviation from the standard fabrication or installation/fixing must be accompanied by a site specific PS1 with site specific calculations and drawings

4. Products

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco EDGE® System
- Aluminium extrusions, components and hardware – unless specified are manufactured to 6060 T5 specifications
- Stainless Steel components, hardware, fixings – all components to 316 grade
- Glass - all glass used in the Juralco EDGE® Balustrade System must conform to the specifications as listed in the Juralco EDGE® manual with each panel conforming to AS/NZS 2208 as confirmed by the Safety Stamp detailing the manufacturer's description and licence number.

5.Surface Finishing

- Juralco Aluminium Building Products Ltd is a Dulux Registered Applicator site, registration number 2101.
JABP uses only Dulux branded powder coating materials
- Unless specified otherwise, Dulux Duralloy® powder coating systems are used for properties greater than 100 metres from high tide level where AAMA 2603 performance is required
- Dulux Duratec® powder coating systems must be used for all properties greater than 10 metres and up to 100 metres from high tide level where AAMA 2604 performance is required
- Dulux Duralloy® has a 10 year film and colour integrity warranty, Dulux Duratec® has a 20 year film and colour integrity warranty

6. Installation and Fixing

- The Juralco EDGE® Balustrade System must only be installed in accordance with the Juralco EDGE® Balustrade System manual
- Any deviation from that specified in the Juralco EDGE® manual must only be in accordance with the site specific PS1 with site specific calculations and drawings listing the non standard details
- The Juralco EDGE® Balustrade System must only be fabricated/installed by a Juralco approved fabricator
- Upon completion of the installation the fabricator must supply the owner with a PS3 (Construction)

Important information - Powder Coating systems.

Powdercoat Systems The new standard Dulux powder coating system used by Juralco is Duralloy Plus®. Also Duralloy® and Duratec®. All as per specs above. Juralco Powder coated prices are for Duralloy Plus® and Duralloy® (same pricing). Duratec® prices on application.

Attachment to structures A PVC Tape or similar material spacer must be used to separate powder coated aluminium items from all concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating, leading to corrosion.

Swimming Pools The chlorinated water in swimming pools can cause the deterioration of powder coated surfaces, leading to corrosion of the underlying surface. It is recommended that Powder coated surfaces be 1200mm min from a pool.

Care The Dulux powder coating warranty period is conditional upon the surface being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. Download from Dulux or refer to the back page of this manual.

Important information - Anodised Coatings.

Anodised Systems. The standard Anodised thickness used by Juralco is 12 micron and is suitable for single story sites greater than 100 metres from high tide.. For any multi storey buildings use 20 micron coatings. Use 25 micron for installations less than 100 metres from high tide level and for prestigious residential and commercial developments. Standard Juralco colours are Natural and Bronze. Note - Anodising prices listed in Juralco price books are for the standard 12 micron systems. For thicker coatings, and other colours prices on application. Also, for coloured coatings there will be colour variations from batch to batch.

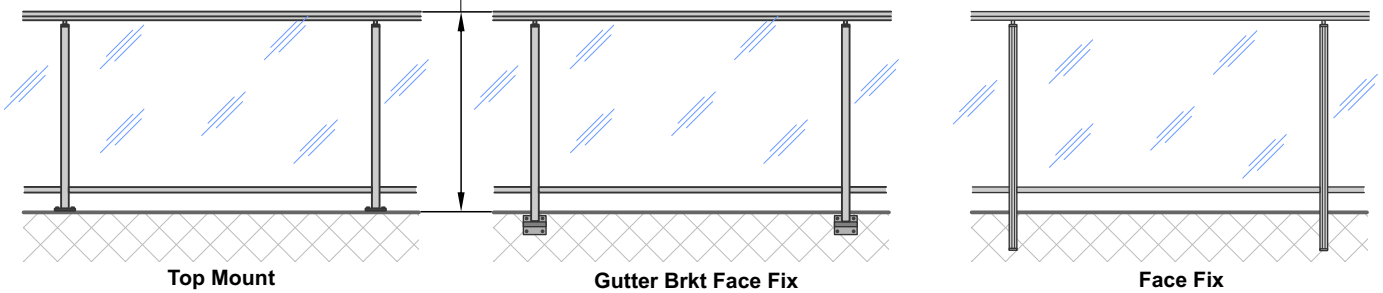
Attachment to structures An PVC layer or similar material spacer must be used to separate Anodised aluminium items from all concrete and steel structures. Failure to do so may lead to the chemicals in the structure affecting the aluminium base

Care Aluminium oxide is amphoteric in nature. Therefore, any cleaning products used on anodised surfaces must be ph neutral so that they do not react chemically with the coating. Cleaning products should be thoroughly rinsed from surfaces as soon as possible. Stubborn contamination can usually be removed using a non-scratch cleaning pad and water or a gentle solvent.

For 6mm Toughened Glass

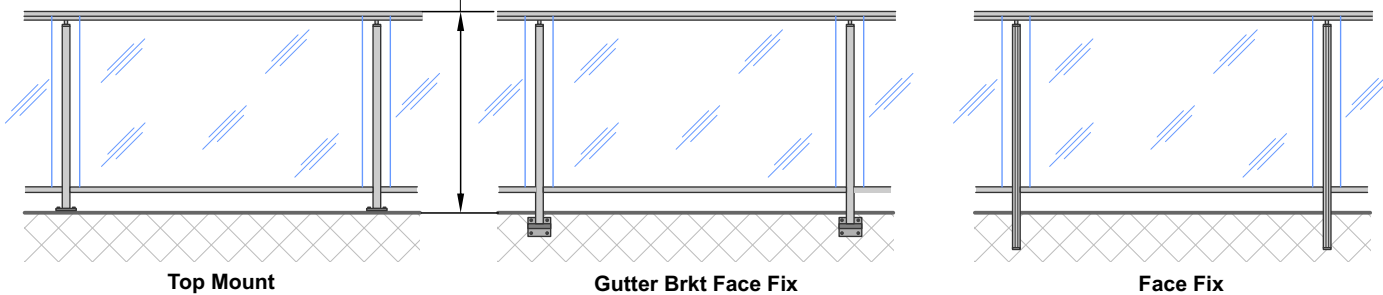
6mm Glass - Fully Framed. Handrail + Bottom Rail.

Balustrade Height, 1000mm min, above FFL



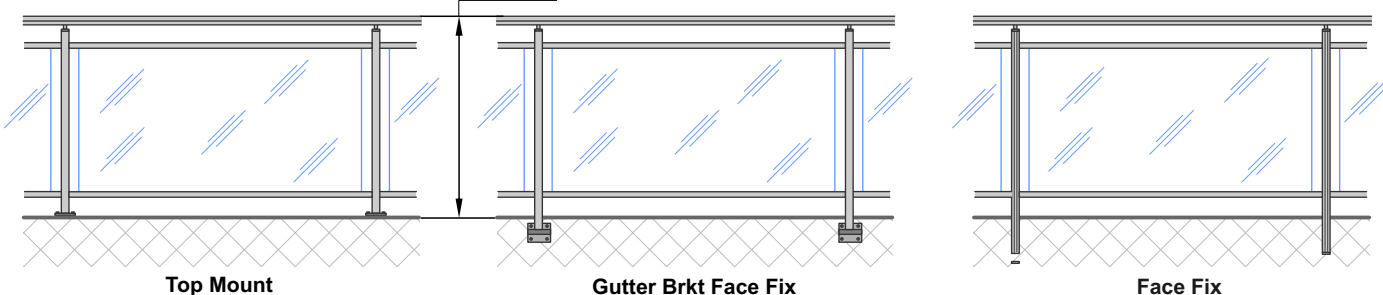
6mm Glass - Full Height. Handrail + Bottom Rail.

Balustrade Height, 1000mm min, above FFL



6mm Glass - Full Height. Handrail + Split Rails.

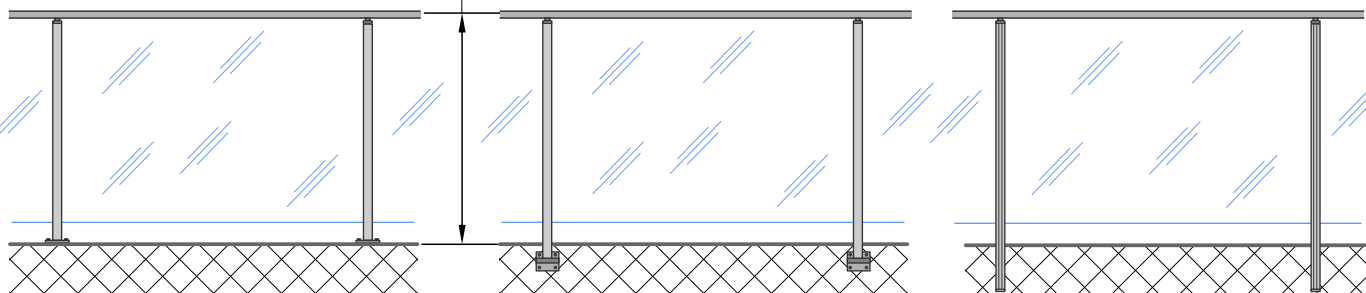
Balustrade Height, 1000mm min, above FFL



For 10mm Toughened Glass

10mm Toughened Glass - Semi Frameless - Handrail

Balustrade Height, 1000mm min, above FFL



Top Mount

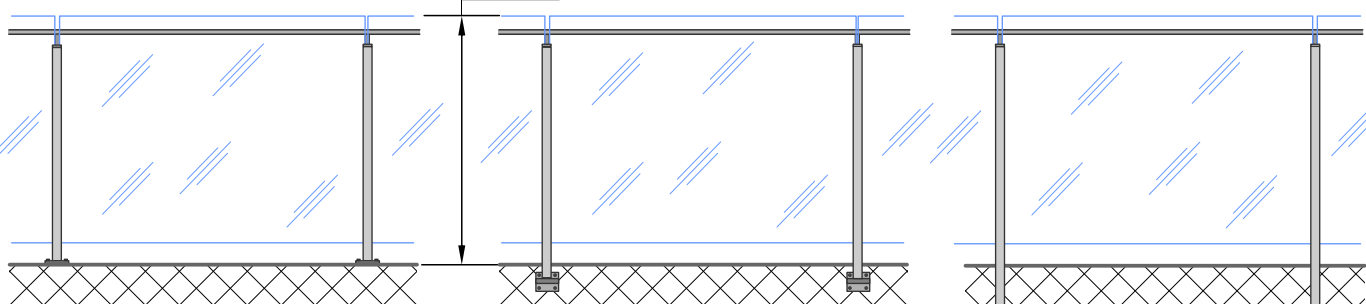
A Corner Post is available for Top Mount only

Gutter Brkt Face Fix

Face Fix

10mm Toughened Glass - Semi Frameless - JEB 222 Interlinking Rail + JEC 29 Brackets, Deck side. Glass 110mm Above Posts.

Balustrade Height, 1000mm min, above FFL



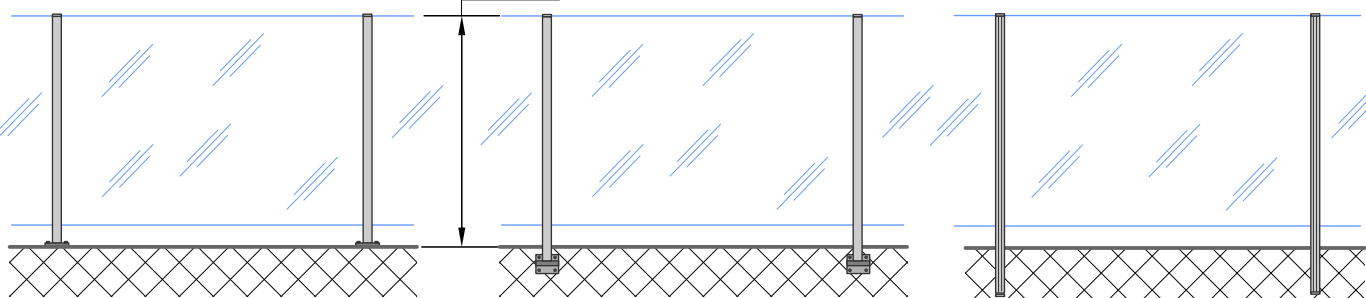
Top Mount

Gutter Brkt Face Fix

Face Fix

10mm Toughened Glass - Semi Frameless - No Handrail. SWIMMING POOLS ONLY. 1200mm Min Height

Pool Fence Height. Not for use where protecting a fall of 1m or more



Top Mount

Gutter Brkt Face Fix

Face Fix

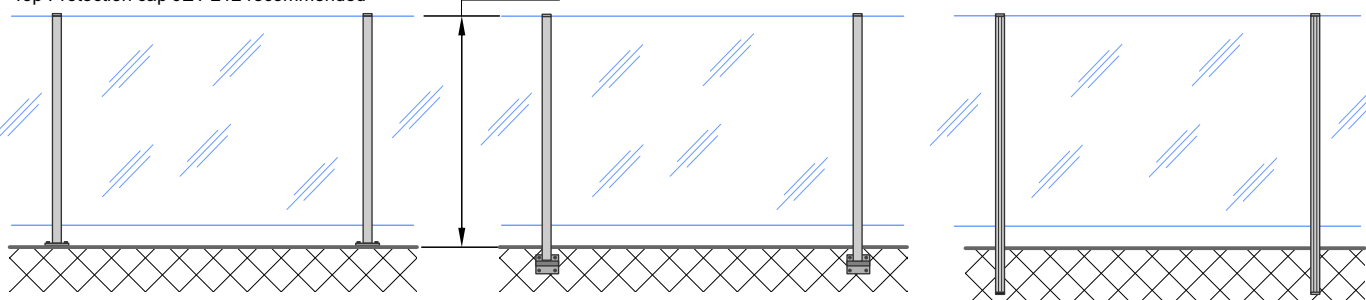
Note: A Building Consent is required when installing or replacing a Swimming Pool Fence. Refer to NZBC Clause F9

For 13.2mm Toughened Laminated Glass

13.2mm Toughened Laminated Glass - Semi Frameless

Top Protection cap JET 212 recommended

Balustrade Height, 1000mm min, above FFL



Top Mount

Gutter Brkt Face Fix

Face Fix



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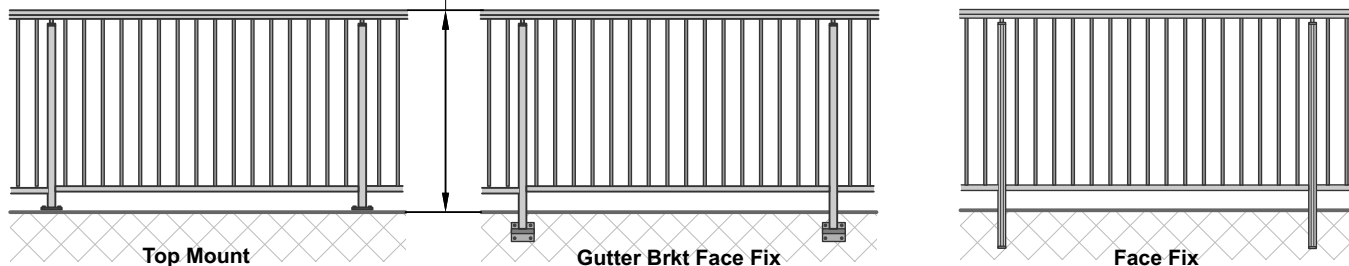
Juralco EDGE® Balustrade Systems

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For 17mm Baluster

17mm Baluster - Full Height. Handrail + Bottom Rail.

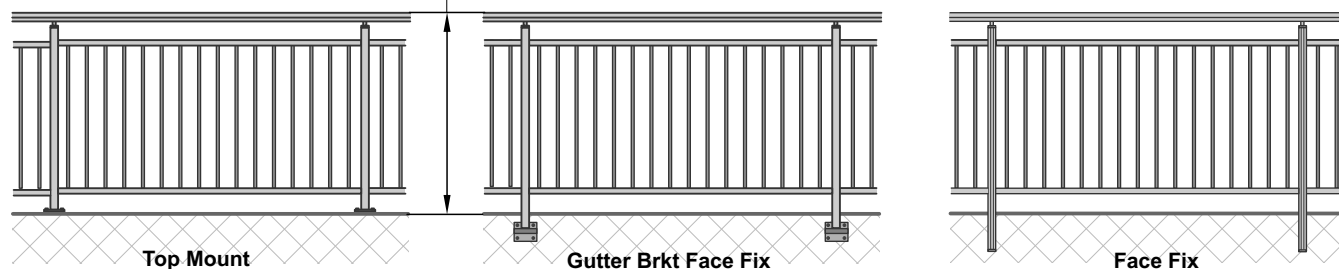
Balustrade Height, 1000mm min, 1275mm max above FFL.



All 17mm Baluster - suitable for Extra High Wind Zones

17mm Baluster - Split Rail. Handrail + Top and Bottom Rail.

Balustrade Height, 1000mm min, 1275mm max above FFL.

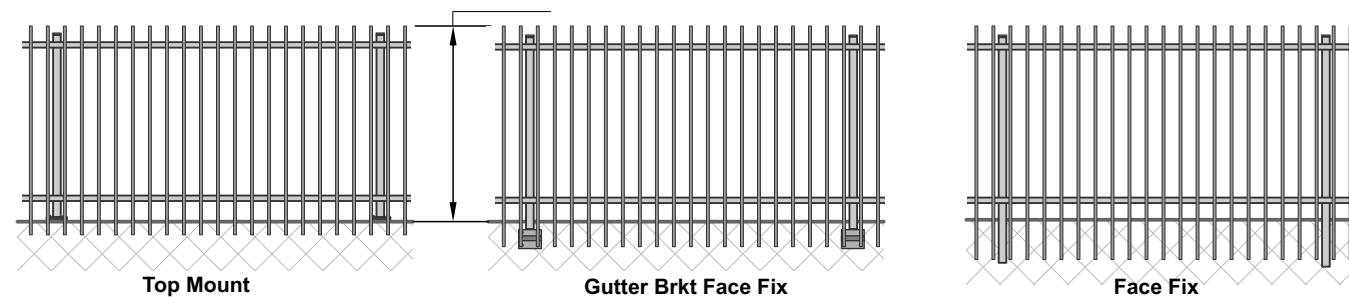


All 17mm Baluster - suitable for Extra High Wind Zones

For 49mm Slat - Vertical. Stecca System

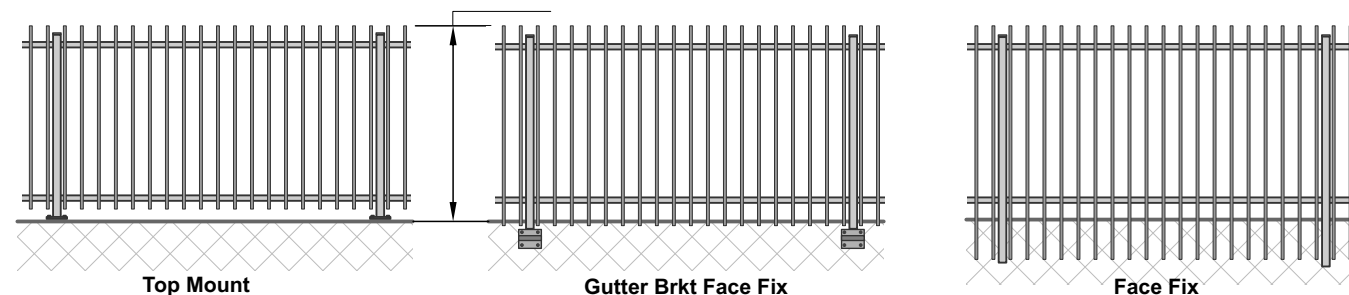
49mm Slat - Full Height. Top + Bottom Rails (Front mounted).

Balustrade Height, 1000mm min, above FFL



49mm Slat - Full Height. Top + Bottom Rails (Between Posts mounted).

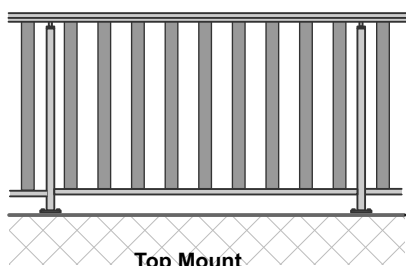
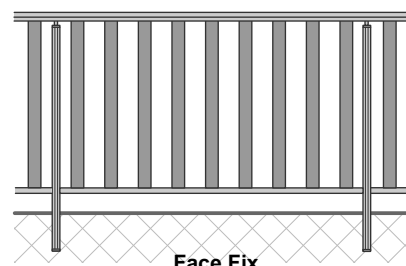
Balustrade Height, 1000mm min, above FFL



For 60mm Slat - Vertical

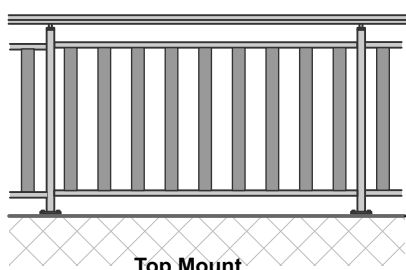
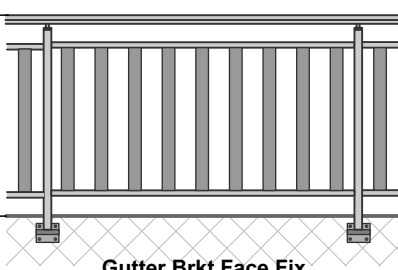
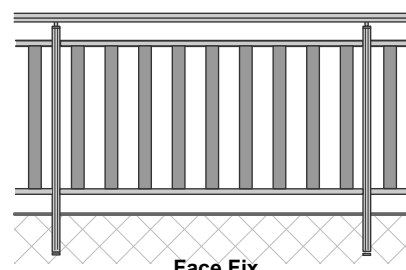
60mm Slat - Full Height. Handrail + Bottom Rail.

Balustrade Height, 1000mm min, above FFL



60mm Slat - Split Rail. Handrail + Top and Bottom Rail.

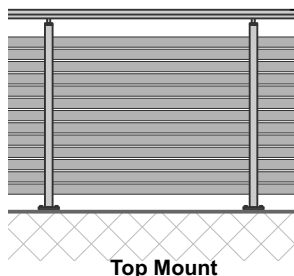
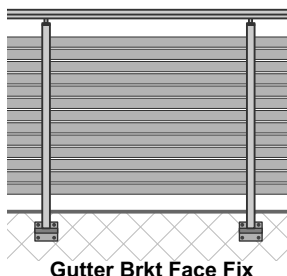
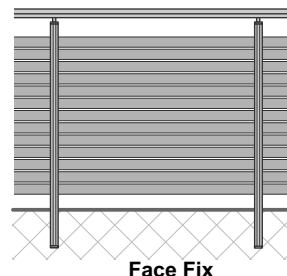
Balustrade Height, 1000mm min, above FFL



For 60mm Slat - Horizontal

60mm Slat - Horizontal + Handrail. 15mm Gaps max between Slats.

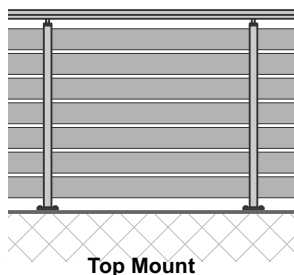
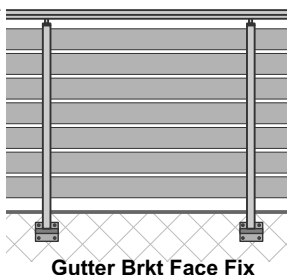
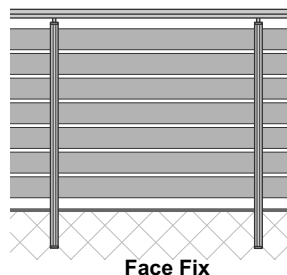
Balustrade Height. 1000mm min height above FFL



For 123mm Slat - Horizontal

123mm Slat - Horizontal + Handrail. 15mm Gaps max between Slats.

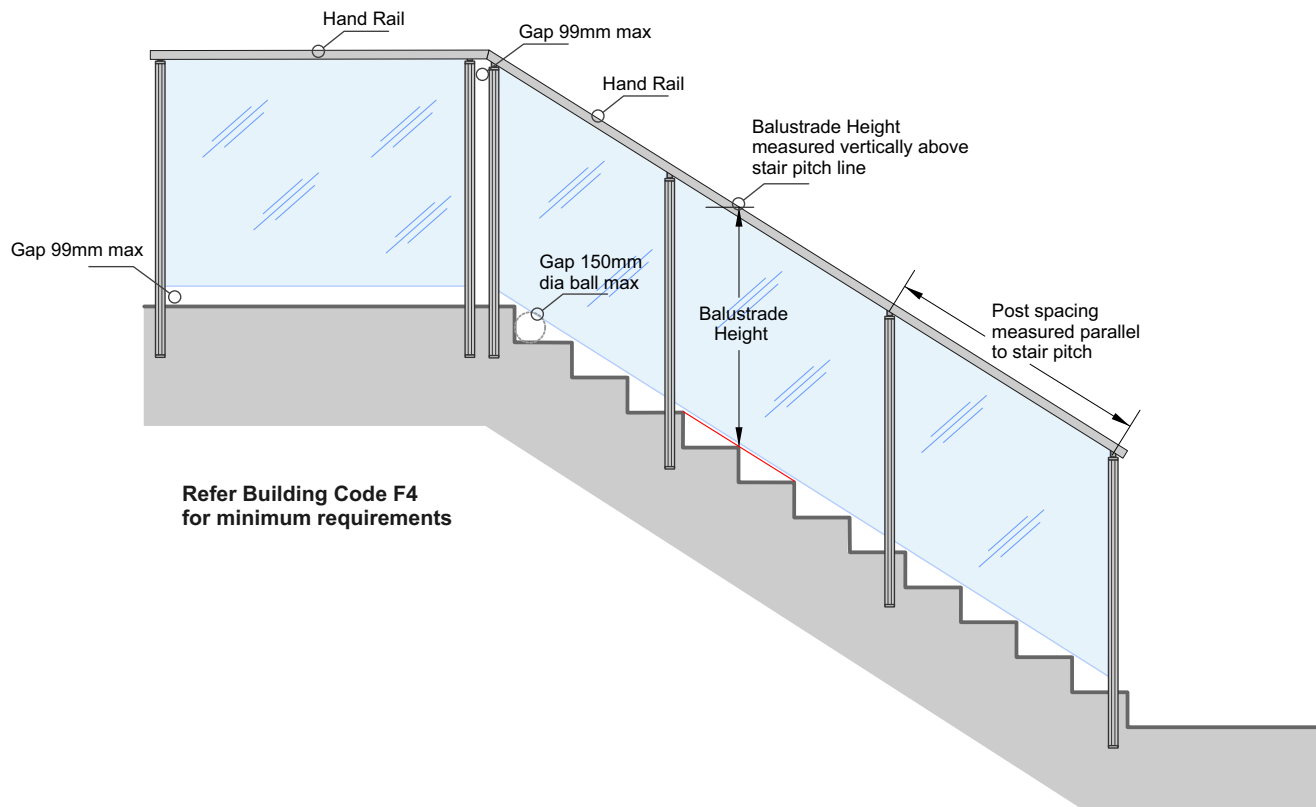
Balustrade Height. 1000mm min height above FFL



Juralco EDGE® Balustrade System Stair Setouts, Construction

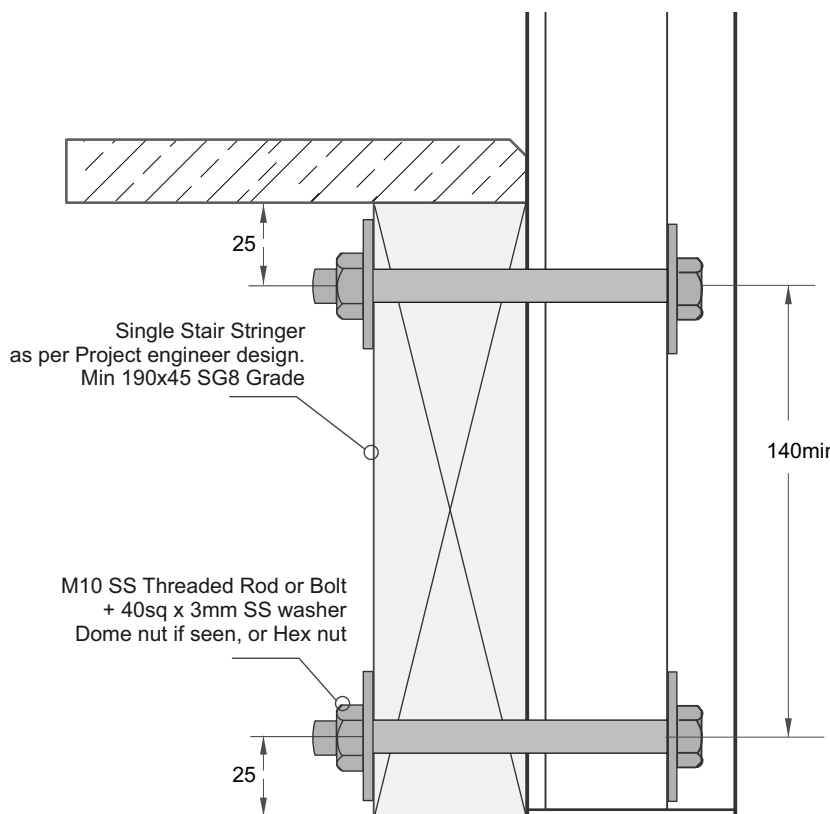
**EDGE Balustrade
Face Fix shown**

Typical Stair installation
Screw fixings into Single or Double Joists/Stiffeners, Concrete or Steel

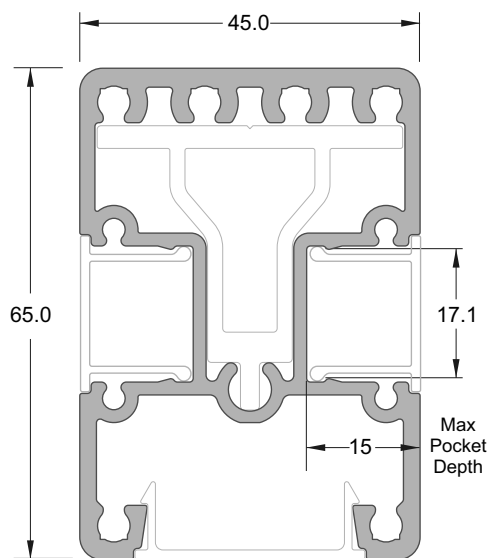


**EDGE Balustrade
Stair Stringer Detail**

Stair structure to be designed by others to resist Balustrade actions as per NZS1170.1 Table 3.3
Applicable for occupancy A

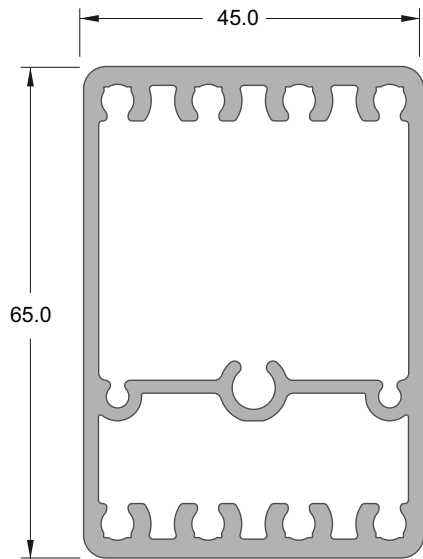


Important Installation Note:
Project engineer to ensure the structure can
support the appropriate loads from the balustrade

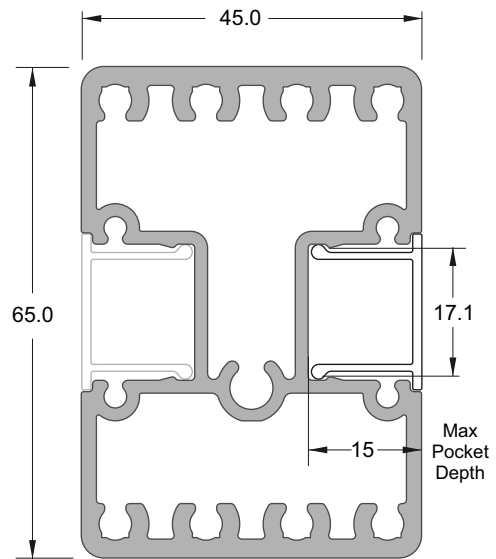


**FACE FIX EDGE POST
SEMIFRAMELESS
JEB/214/5**

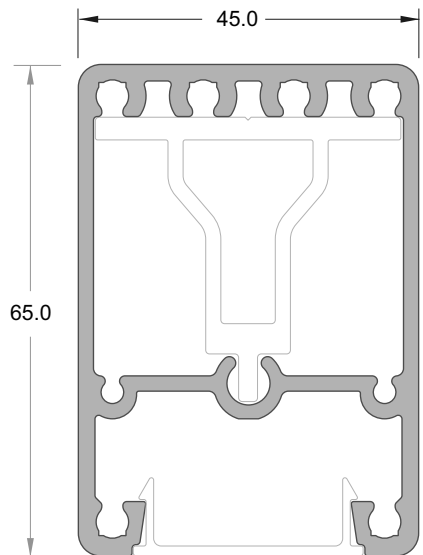
Juralco EDGE® Balustrade System - Extrusions



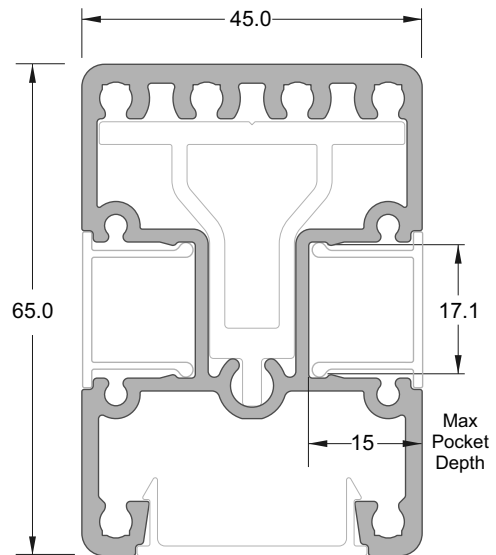
TOP FIX EDGE POST
JEB/207/5



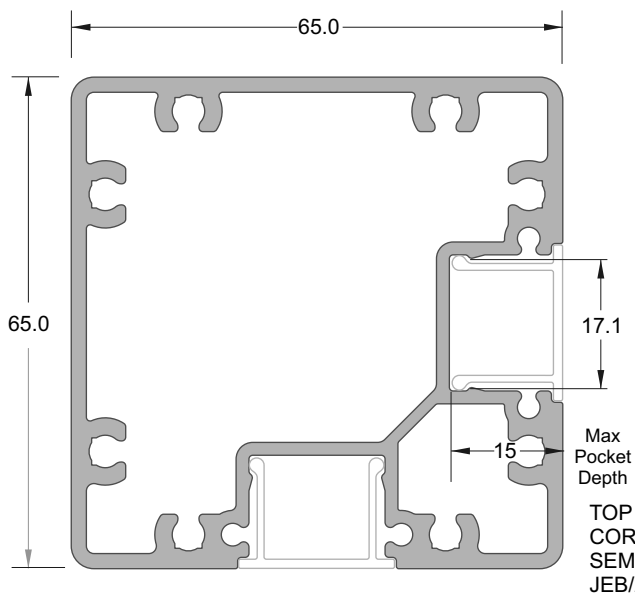
TOP FIX EDGE POST
SEMIFRAMELESS
JEB/212/5



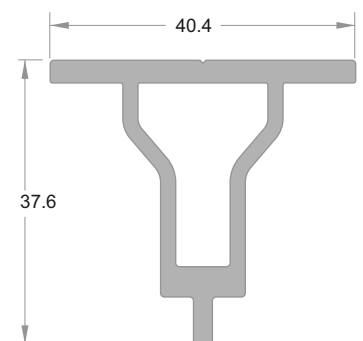
FACE FIX EDGE POST
JEB/208/5



FACE FIX EDGE POST
SEMIFRAMELESS
JEB/214/5

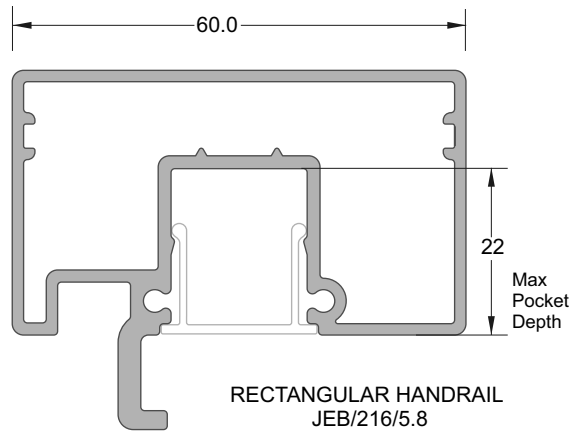
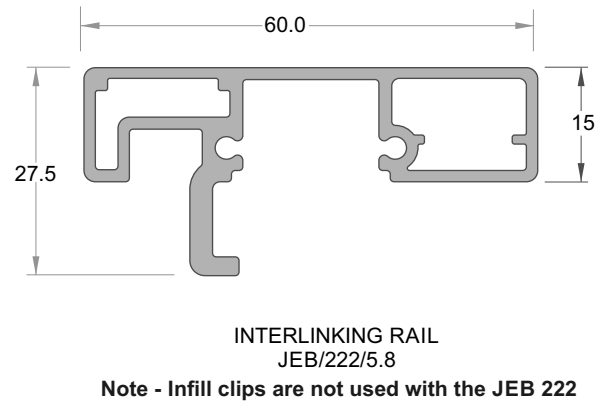
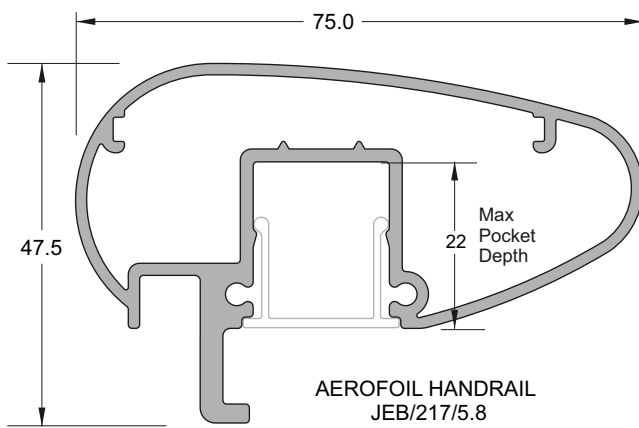
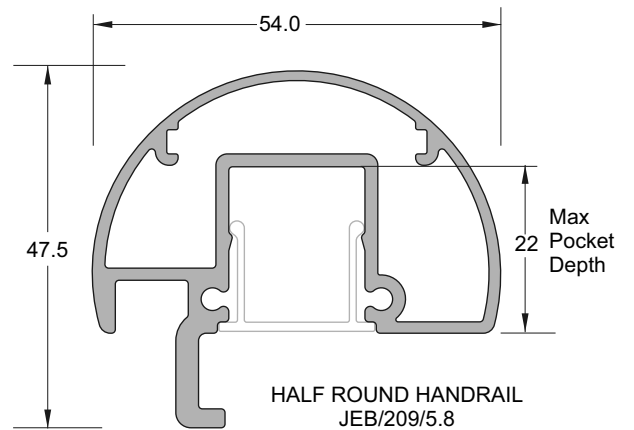
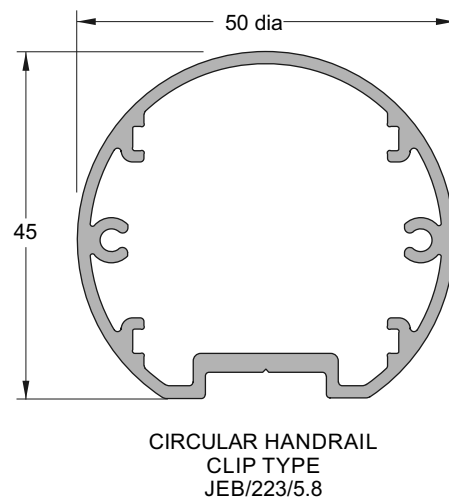
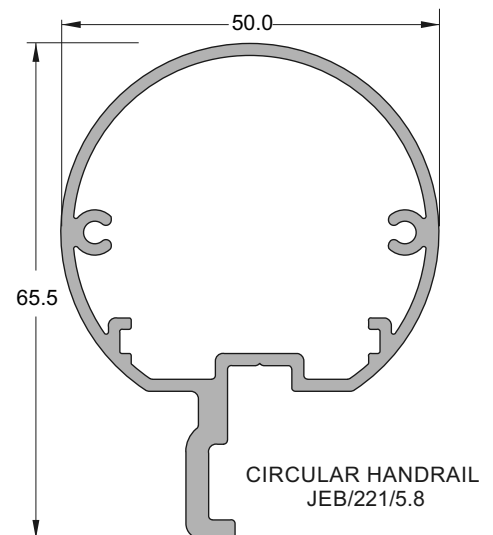
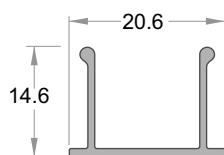


TOP FIX EDGE
CORNER POST
SEMIFRAMELESS
JEB/213/5

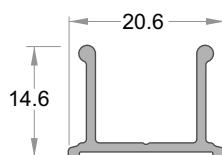


FACE FIX EDGE POST
STIFFENER
JEB/205/5

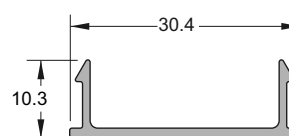
Juralco EDGE® Balustrade System - Extrusions



STANDARD INFILL CLIP
JEB/206/5.8



REBATED INFILL CLIP
JEB/218/5.8



POST FACE FIX INFILL CLIP
JEB/203/5

For Posts and Handrails

For Posts only



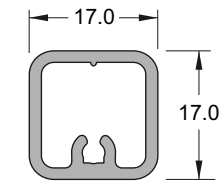
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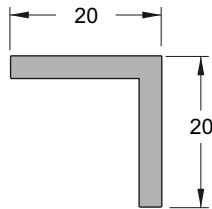
Juralco EDGE® Balustrade Systems

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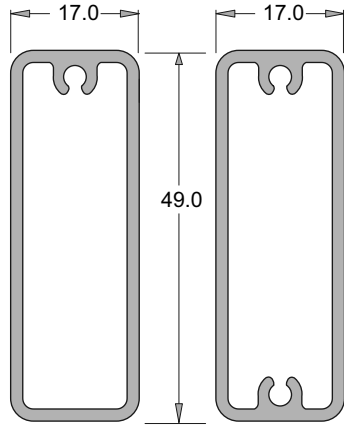
Juralco EDGE® Balustrade System - Extrusions



INFILL
17mm BALUSTER
JVB/005/5.35

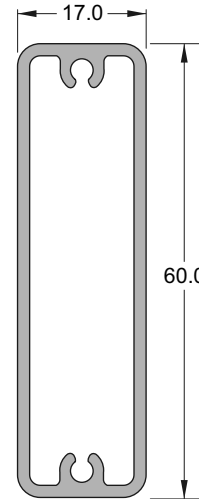


WATER DEFLECTION ANGLE
JA118/5

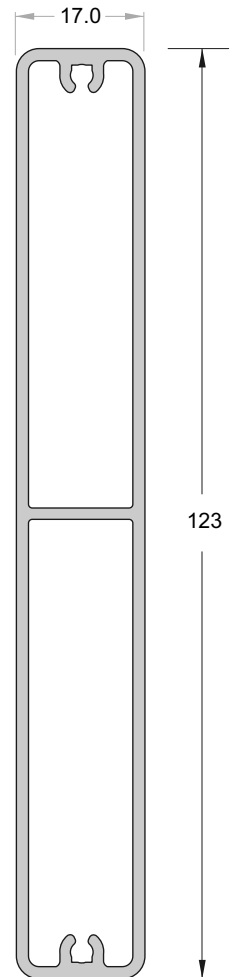


INFILL
49mm SLAT
(Single Screw)
JVB/030/5.35

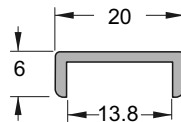
INFILL
49mm SLAT
(Double Screw)
JVB/018/5.35



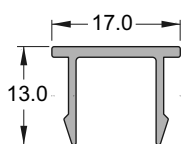
INFILL
60mm SLAT
JVB/019/5.35



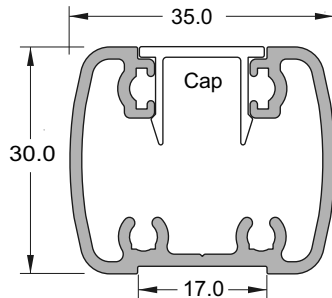
INFILL
123mm SLAT
JGF/2227/5.8



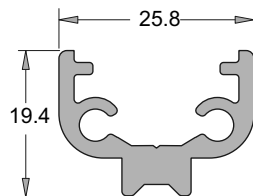
TOP PROTECTION CAP
for 13.2mm Laminated Glass
JET212
(attach with JET 330
DS Tape)



CAP
JVB/006/5.8

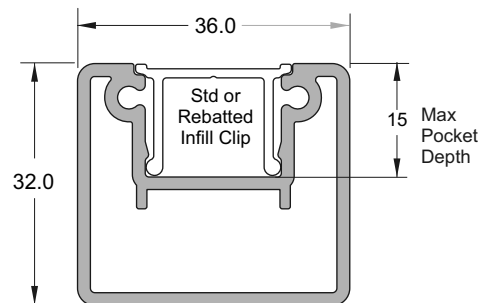


BOTTOM RAIL
JVB/022/5.8

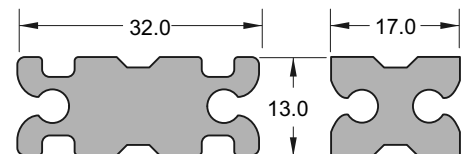


BOTTOM RAIL SPIGOT
JVB/017/5

These ex
Viking Balustrade
System

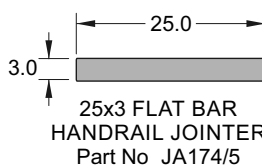


BOTTOM RAIL
Part No JEB/202/5.8

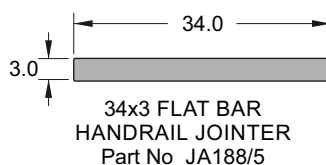


HEAVY DUTY BOTTOM RAIL
SPIGOT
JET/917/5
(NOT Suitable Semi
Frameless Posts)

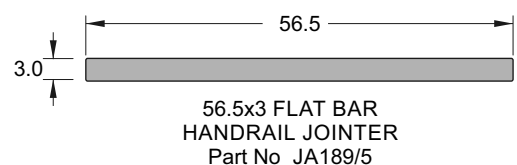
BOTTOM RAIL
SPIGOT
JEB/210/5
(Suitable all Posts)



25x3 FLAT BAR
HANDRAIL JOINTER
Part No JA174/5



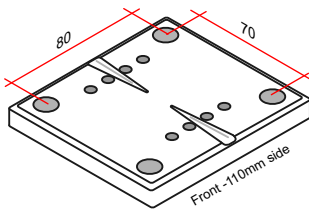
34x3 FLAT BAR
HANDRAIL JOINTER
Part No JA188/5



56.5x3 FLAT BAR
HANDRAIL JOINTER
Part No JA189/5

Juralco EDGE® Balustrade System - Components

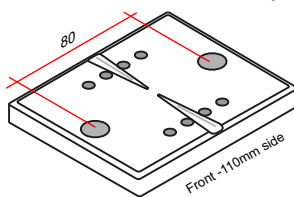
Base plate
JEC200



110mm x 100mm x 12mm - 4 x holes

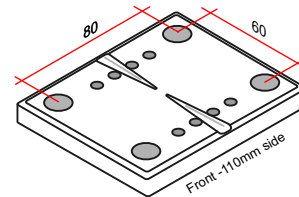
Base plate
JEC201

For Concrete and Steel only



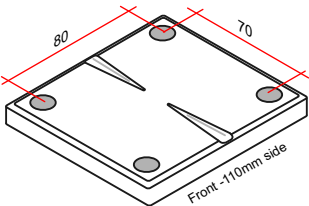
110mm x 90mm x 12mm - 2 x holes

Base plate
JEC221



110mm x 90mm x 12mm - 4 x holes

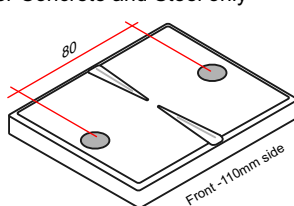
Base plate without post
JEC200/BLANK



110mm x 100mm x 12mm - 4 x holes

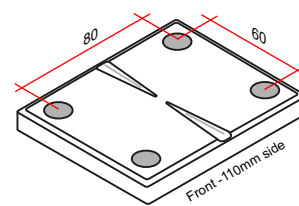
Base plate without post
JEC201/BLANK

For Concrete and Steel only



110mm x 90mm x 12mm - 2 x holes

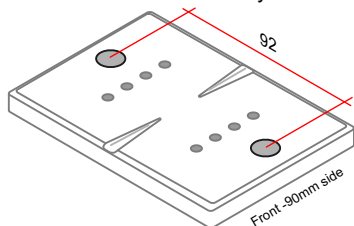
Base plate without post
JEC221/Blank



110mm x 90mm x 12mm - 4 x holes

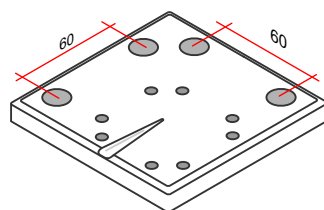
Base plate
JEC232

For Concrete and Steel only



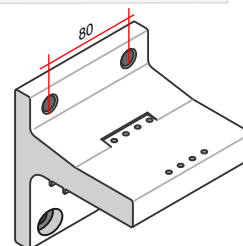
128mm x 90mm x 12mm - 2 x Holes 14mm dia

Base plate - Corner Post
JEC222



110mm x 110mm x 12mm - 4 x holes x 14mm dia

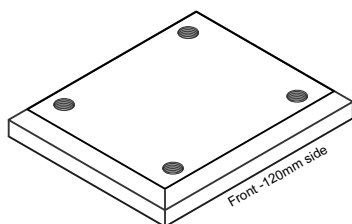
Base plate
JEC137/65



120mm wide x 135mm high - 4 x holes

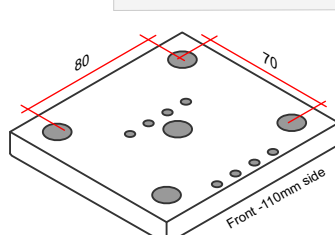
Base plate
JEC205

These two Plates form a pair.
For Floating decks only on a
concrete base



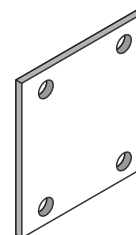
120mm x 100mm x 15mm - M10 and M12 (all blind) threaded

Base plate
Offset Corner Post
JEC207



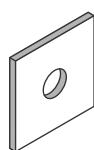
110mm x 100mm x 12mm - 13Ø holes

Gutter Bracket Spacer
JEC139



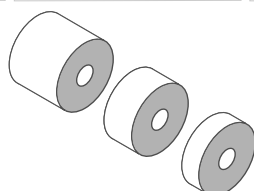
135mm x 120mm x 5mm thick

Square Washer
JVB SQWSH



40mm sq x 3mm SS

Face Fix Spacer
JVB125/30,15,10mm



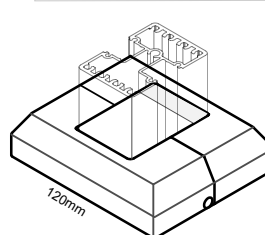
38mm dia x 30mm long.
38mm dia x 15mm long.
38mm dia x 10mm long.

EPDM Spacer Washer
JVB126



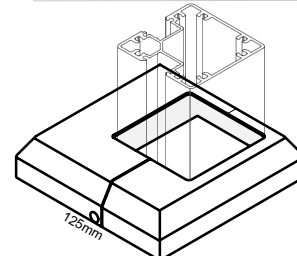
38mm dia x 3mm

Base Plate Cover
JEC427



For JEC201, JEC221
JEC 221/Blank

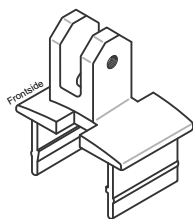
Corner Base Plate Cover
JEC428



For JEC201, JEC222 Corner Base Plate

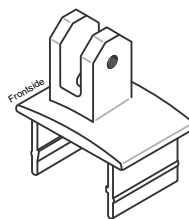
Juralco EDGE® Balustrade System - Components

Handrail Mount
JEC23



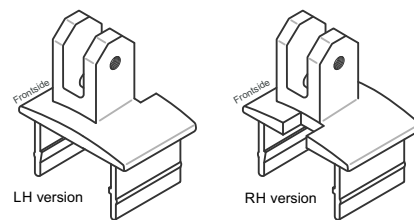
Angled Hand Rail Mount - Double Pocket
Fits over Post. 66mm x 46mm

Handrail Mount
JEC24



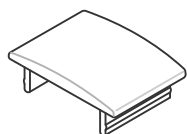
Angled Hand Rail Mount - No Pocket
Fits over Post. 66mm x 46mm

Handrail Mount
JEC25RH or LH



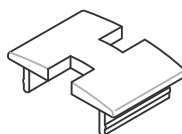
Angled Hand Rail Mount - Single Pocket, LH & RH
Fits over Post. 66mm x 46mm

Top Cap
JEC20



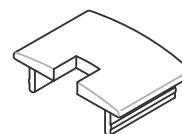
Fits over Post. 66mm x 46mm

Top Cap
JEC21



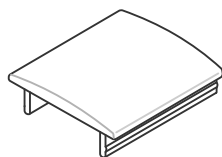
Double Pocket
Fits over Post. 66mm x 46mm

Top Cap
JEC22



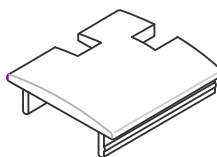
Single Pocket. RH/LH symmetrical
Fits over Post. 66mm x 46mm

Top Cap - Corner Post
JEC27



Fits over Post. 66mm x 66mm

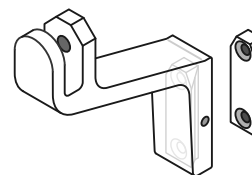
Top Cap Notched - Corner Post
JEC28



Double Pocket
Fits over Post. 66mm x 66mm

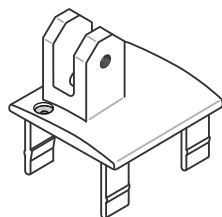
Handrail assembly
JEC29/Kit

For Wall or Post mounting



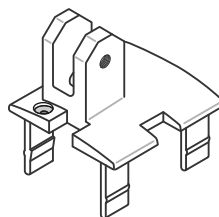
Includes 2 x grub screws

Corner Post, Handrail Mount
JEC30



No Pockets - Fits over Post. 66mm x 66mm

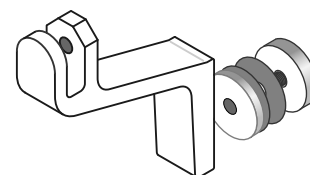
Corner Post, Handrail Mount
JEC31



Pockets - Fits over Post. 66mm x 66mm

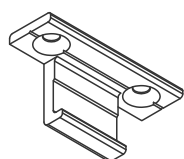
Handrail assembly
JET48/Kit

For Glass Panel mounting



Includes all components

Circular Handrail Clip
JEC38

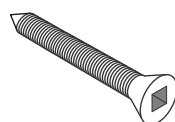


Attach.
2 x No 8 x 12 C/S,
SS PK Screws

For Circular Handrail JEB/223

Post/Baseplate Screw
JVBHTSCREW/50x10

This Screw **MUST** be
used when attaching
Posts to Baseplates or
Gutter Brackets



50mm SS High Tensile
PK C/S sq drive screw

Handrail
Clamp Screw

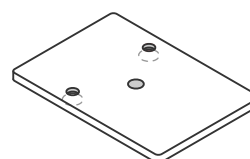
JEC Screw/M8x20



M8 x 20
SS Grub screw

Post Bottom Cap
JEC10/HF

Hidden Fix



45mm x 65mm - Fits under face Fix Posts
Attach with No 6 x 12 C/S SS PK screws



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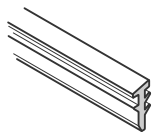
Juralco EDGE® Balustrade Systems

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Juralco EDGE® Balustrade System - Components

3mm Glazing Wedge
JEC10/100

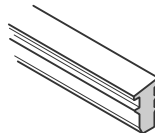
For 10mm
Glass



100mt Roll - PVC

5mm Glazing Wedge
JECW8/75

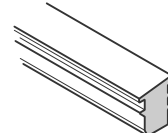
For 8mm
Glass and
13.2mm
Laminated
Glass



75mt Roll - PVC

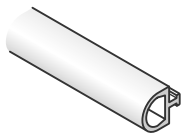
7mm Glazing Wedge
JECW6/75

For 6mm
Glass



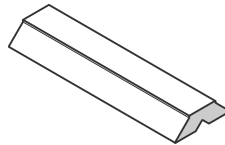
75mt Roll - PVC

Glazing D Seal
JECDSL/100



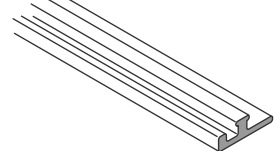
8mm deep x 9.5mm wide x 100mt Roll
Semi Rigid PVC

50mm Glazing Block
JEC15



Back Seal
JET/BSEAL/100

For 13.2mm
Laminated
Glass



Post Handrail Screw
JECSCREW/14gx2

Attach Post
Cap
to Post top

Use with JEC14GWASHER to attach
Post cap to Post top



14g x 50mm SS PK Cap screw

EPDM Washer
JEC14GWASHER

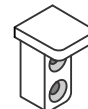
Use with JECSCREW 14g to attach
Post cap to Post top



11mm dia x 14g

Glass Support Bracket
JEC13

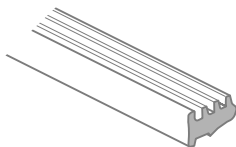
Nylon



17mm x 13mm x 32mm long. Attaches to Post
with 2 x No 8 x 16 SS PK Screws

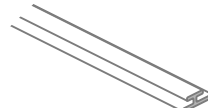
Glazing Wedge. Brown Tip
JVBWedge/Brown/75

For use with
Viking Bottom
Rail



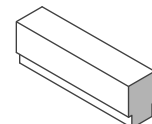
Backing Seal
JVBBBackWedge/500

For use with
Viking Bottom
Rail



Glazing Block
JVB108

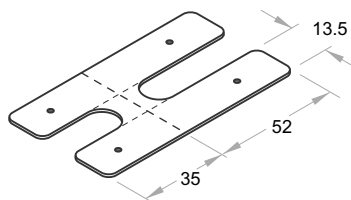
For use with
Viking Bottom
Rail



17mm high x 9mm x 50mm long.

Plastic Packer - Glass

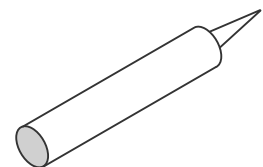
Part No	Thickness
H/PP1.5	1.5mm
H/PP2	2mm
H/PP3	3mm
H/PP4	4mm
H/PP5	5mm



Cut down to suit. 35x13.5, 52x13.5

SIKA Supergrip
Part No JECSUPERGRIP30

For All Coach
screws fixings

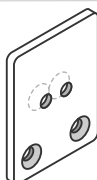


Rhodorsil V60 Clear Silicone
Part No H/RTV419098

Construction
Silicone

Bottom Rail Bracket
Part No JEC 14

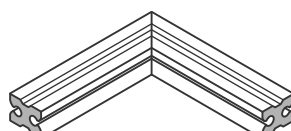
Attaches
Bottom Rail
to Timber



50mm x 38mm x 3mm thick.

Bottom Rail 90 deg Spigot
Part No JEC 12

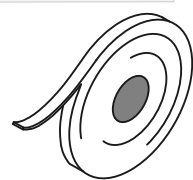
Joins Bottom
Rail at
90 deg



76mm x 76mm.

DS Tape 12.7mm x 0.8mm
Part No JET 330

Attach Top
Protection
Cap



Double sided 12.7mm wide x 33mt Roll



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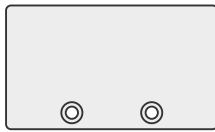
Juralco EDGE® Balustrade Systems

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Juralco EDGE® Balustrade System - Components

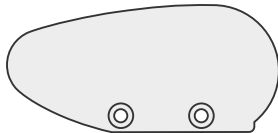
Rectangular and 75mm Aerofoil Handrails End Cap, Straight and 90deg corners

All ex 3mm Aluminium



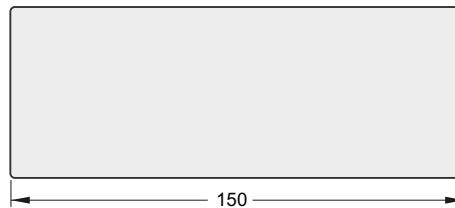
Rectangular End Cap
JEC03
Can be used as RH or LH

(for Rectangular
Handrail JEB/216)

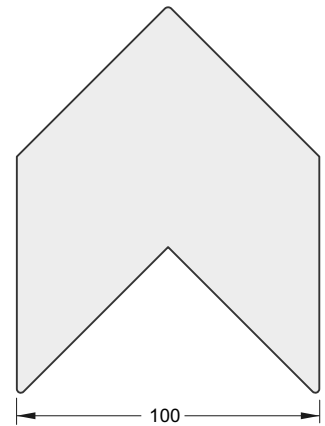


75mm Aerofoil End Cap
JEC11
Available as RH or LH

(for 75mm Aerofoil
Handrail JEB/217)



Rectangular and 75mm Aerofoil Inline Joiner
Use 56.5 x 3 flat bar JA/189/5.0



Rectangular and 75mm Aerofoil
90deg Corner Joiner JEC01

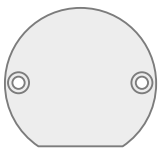
Round and Circular Handrail, End Cap, Straight and 90deg corners

All ex 3mm Aluminium



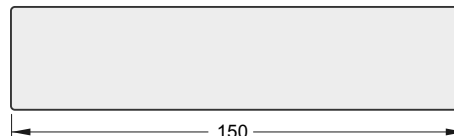
Round End Cap
JEC06
Can be used as RH or LH

(for Round
Handrail JEB/209)

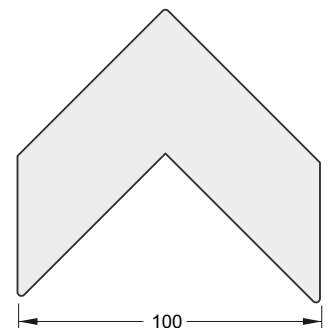


Circular End Cap
JEC218
Can be used as RH or LH

(for Circular
Handrail JEB/221)



Round Inline Joiner
Use 34.0 x 3 flat bar JA/188/5.0



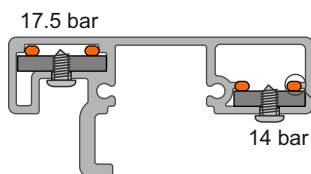
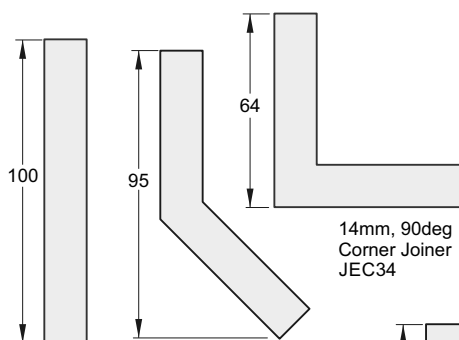
Round 90deg Corner Joiner
JEC04

Interlinking Rail End Cap, Straight 135 deg and 90deg corners

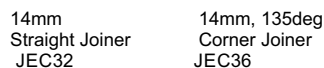
All ex 3mm Aluminium



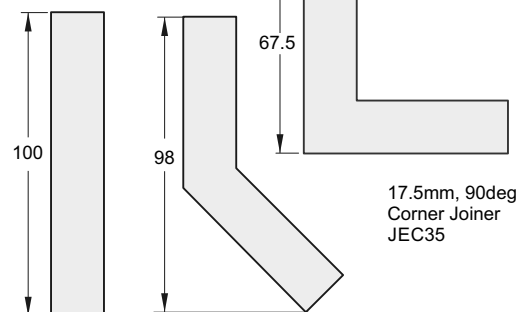
Interlinking Rail End Cap
Can be used as RH or LH



14mm, 90deg
Corner Joiner
JEC34



14mm, 135deg
Corner Joiner
JEC36



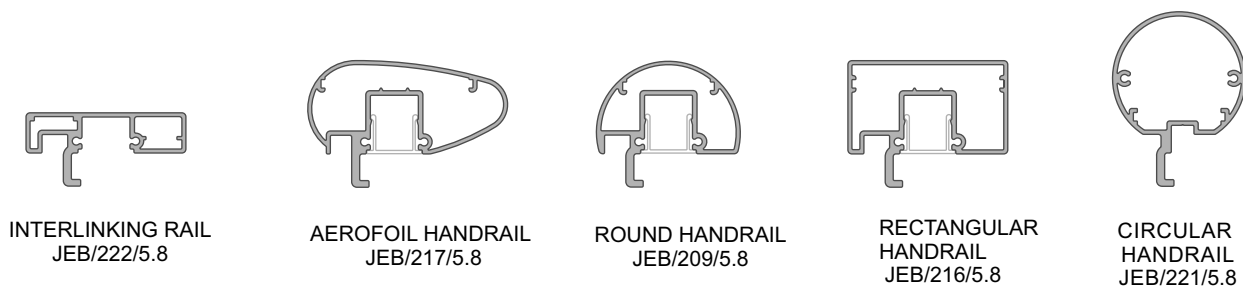
17.5mm
Straight Joiner
JEC33

17.5mm, 135deg
Corner Joiner
JEC37

Joiners:

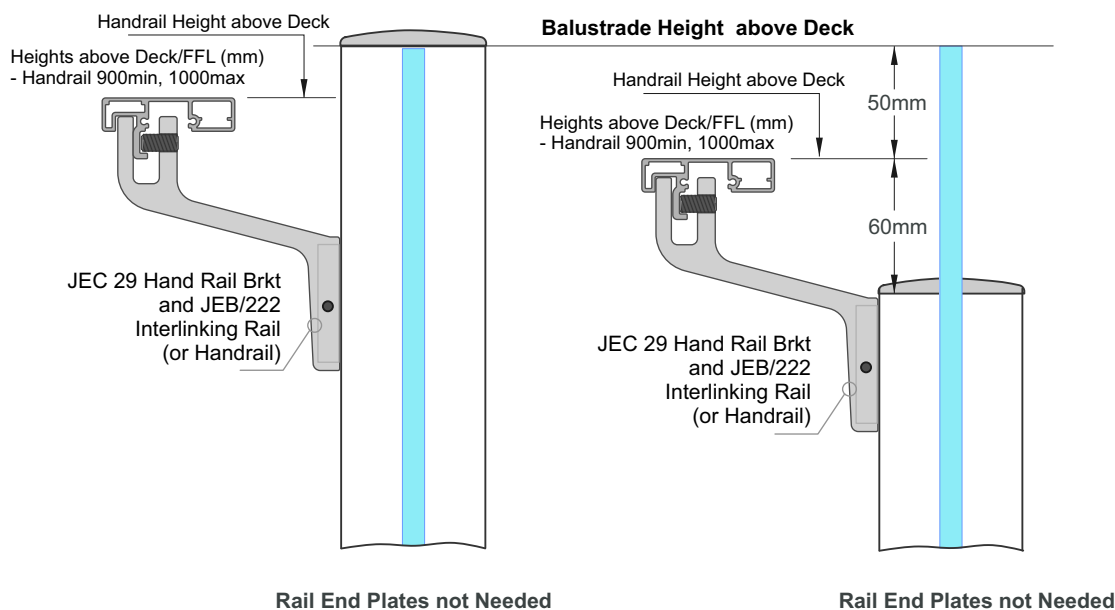
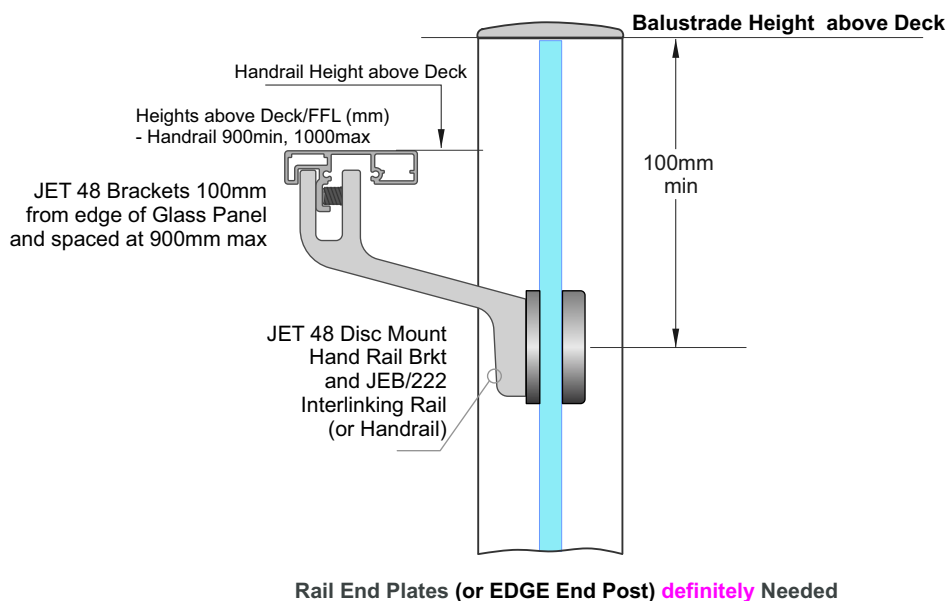
- With Joiner in place, spot drill from below for position
- Drill out joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive screw
- Insert dabs of V60 Silicone inside cavities before inserting
- Both ends to be attached.
- Joins must be within 300mm of Post
- Minimum distance between screw and end of handrail is 10mm

Juralco EDGE® Balustrade System
Interlinking and Handrails Rail conforming to NZS 4223.3.2016 and Building Code Clause B1.3.4



Suitable Interlinking and Handrails

Semi Frameless and Frameless - Interlinking or Handrails on Deck side
JEB/222 shown , but any Handrails from above suitable.

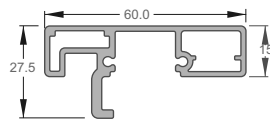


Important Note: Applies to JET48 Disc Mount Bracket to Glass only.
All Interlinking rails, at their ends must be attached to a Building Structure using Rail End Plates or to an Edge Post attached to the Deck structure. Applies to Handrails used as Interlinking Rails.

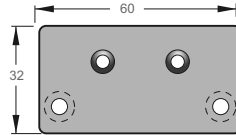
Juralco EDGE® Balustrade System

Interlinking and Handrails End Plates for attaching to a Wall

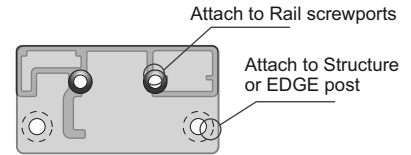
End Caps all ex 3mm Aluminium



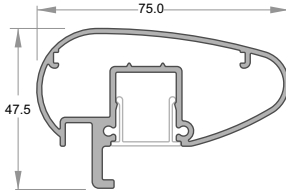
HANDRAIL
JEB/222/5.8



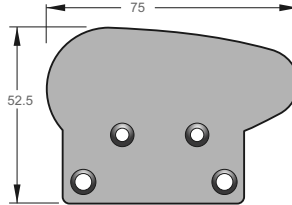
HANDRAIL
WALL ATTACH END PLATE
Part No JEC215/WC



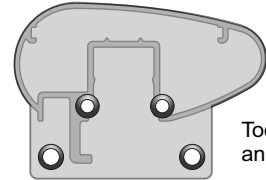
For RH and LH



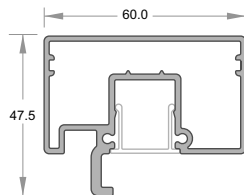
AEROFOIL HANDRAIL
JEB/217/5.8



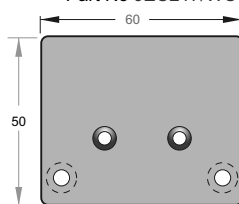
HANDRAIL
WALL ATTACH END PLATE
Part No JEC217/WC



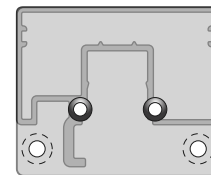
For RH and LH



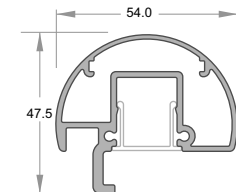
RECTANGULAR
HANDRAIL
JEB/216/5.8



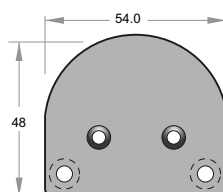
HANDRAIL
WALL ATTACH END PLATE
Part No JEC216/WC



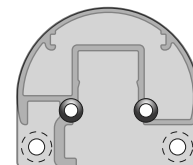
For RH and LH



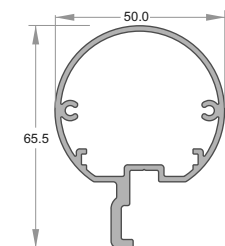
HALF ROUND HANDRAIL
JEB/209/5.8



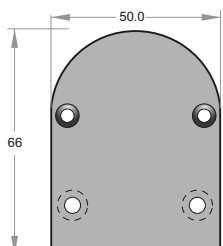
HANDRAIL
WALL ATTACH END PLATE
Part No JEC209/WC



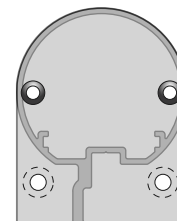
For RH and LH



CIRCULAR HANDRAIL
JEB/221/5.8



HANDRAIL
WALL ATTACH END PLATE
Part No JEC221/WC



For RH and LH

General Notes: - All fixings to be Stainless Steel. - EPDM layer between Structure and End Cap
- ULS Point load N* = 0.9kN, inwards, outwards or down and in tension

Note : Fixing to Steel

- use 2 off 8g SS TEK Screws or M6 SS Bolts
- Steel 2mm min thickness
- Steel 300MPa minimum
- 15mm min distance to any Edges

Note : Fixing to Timber Wall

- use 2 off 8g SS Screws, 35mm min into studs.
- use Sika Supergrip 30min
- 30mm min distance to Horizontal Edge
- If Weatherboard use suitable predrilled Wedge
- Timber stud wall to be designed and detailed in accordance with NZS 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

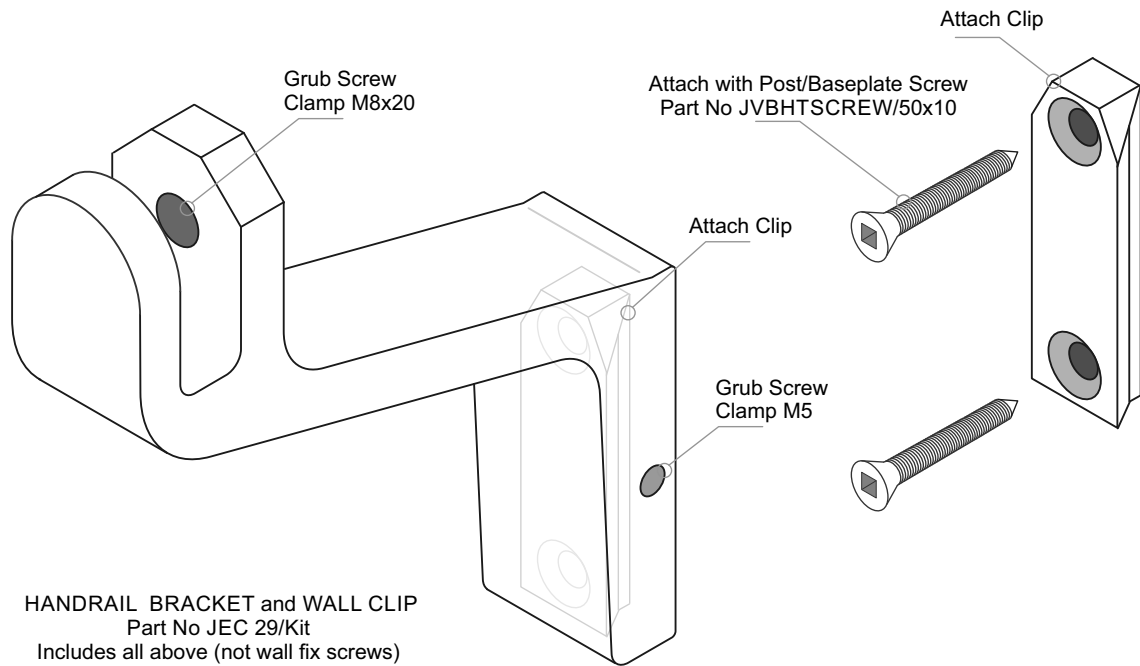
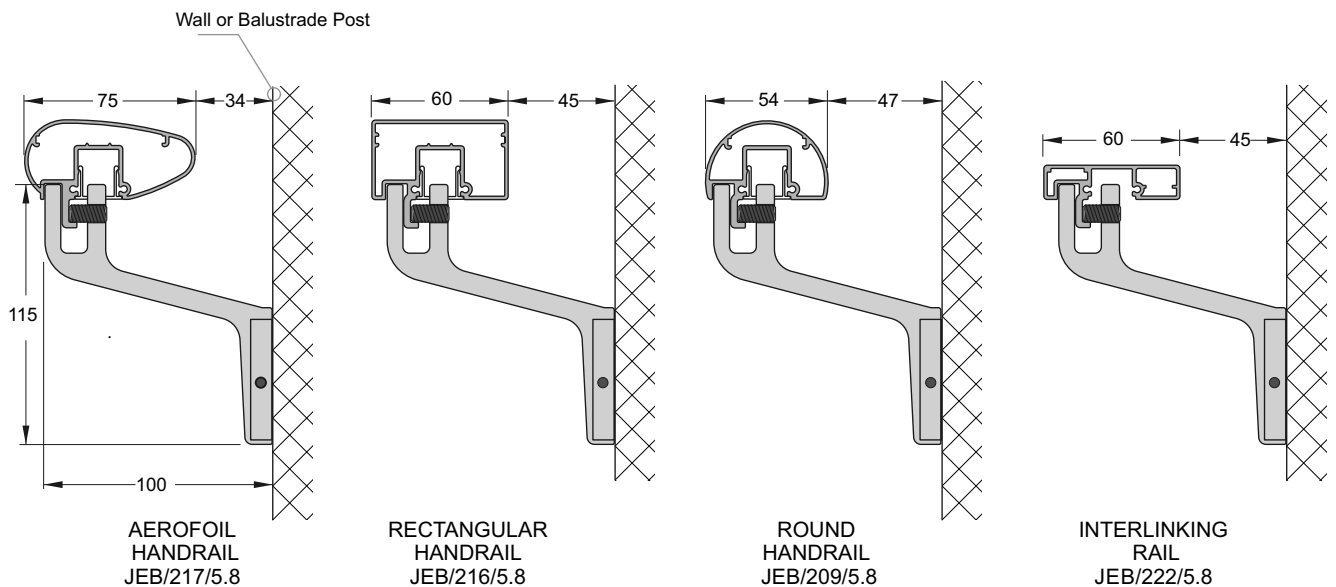
Note : Fixing to Juralco EDGE Post

- use 2 off 8g x 25 SS PK Screws

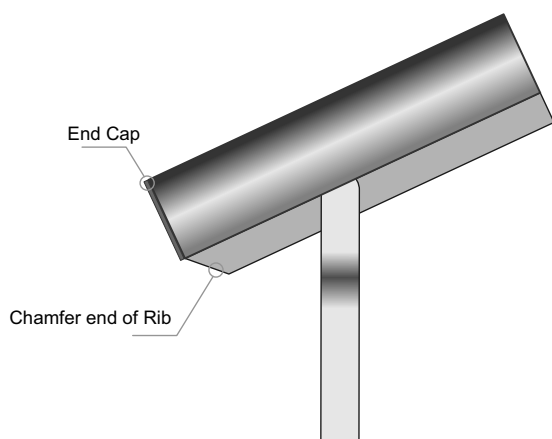
Note : Fixing to Concrete Wall

- use 2 off M6 x70 SS Screw Anchors
- Solid Concrete min 20Mpa
- Block wall Concrete filled/Reinforced
- 140mm min Wall thickness
- 70mm min distance to Horizontal Edge
- 100mm min distance to Vertical Edge
- Blockwork wall must be corefilled /reinforced and is to be designed and detailed in accordance with NZ4230 or NZ4229

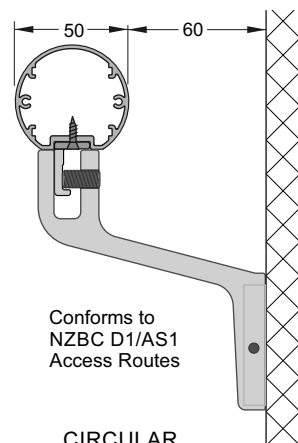
Juralco EDGE® Balustrade System - Components



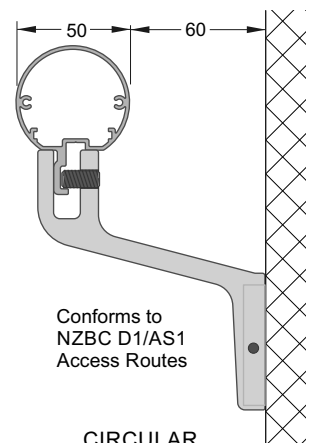
Hand rail bracket and Hand rails



Hand rail bracket and Hand rail.
Angle attach up to 35deg



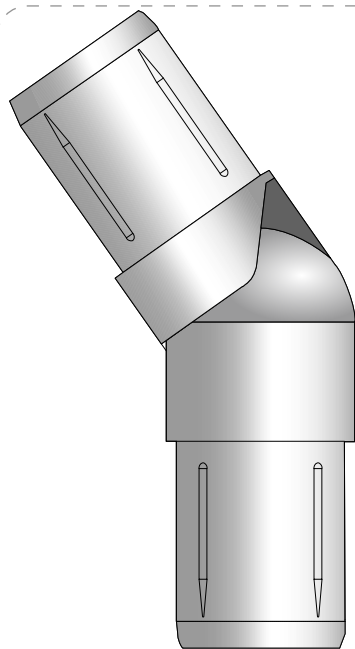
CIRCULAR HANDRAIL
JEB/223/5.8
+ Clip JEC38



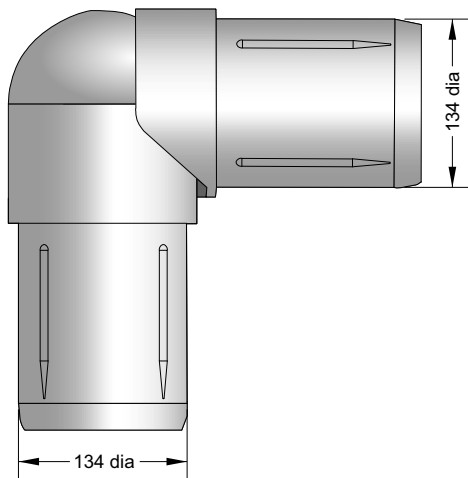
CIRCULAR HANDRAIL
JEB/221/5.8

Juralco EDGE® Balustrade System

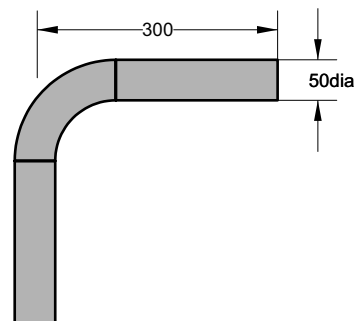
Components for a Continuous Handrail



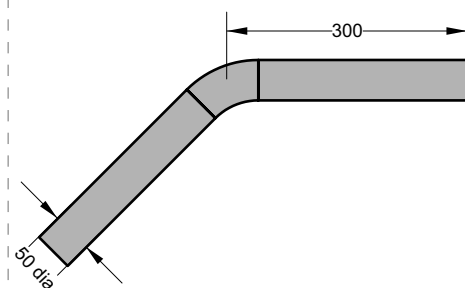
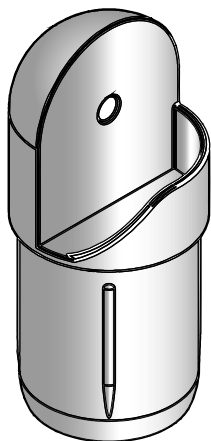
Continuous Handrail
Adjustable Corner 90 - 135deg
JET500N



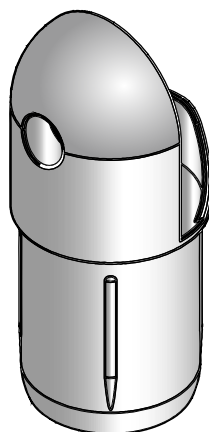
Continuous Handrail Joiner
90 deg bent section
JET504



Continuous Handrail Joiner
135 deg bent section
JET505



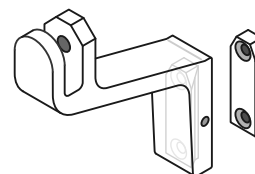
Part A
M8x1.25 Threaded



Part B
M8 Cap Screw

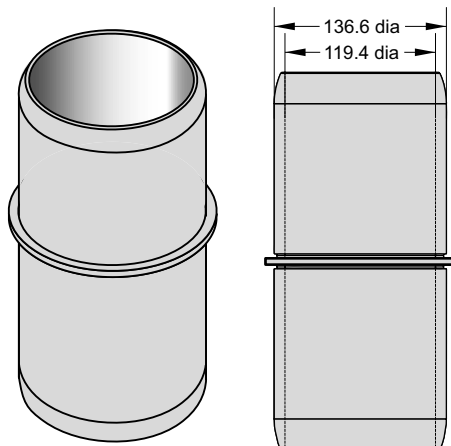
Handrail assembly
JEC29/Kit

For Wall or Post mounting

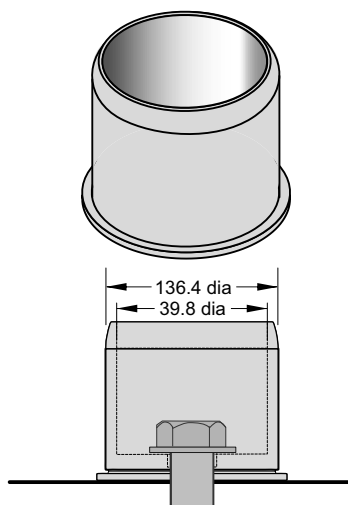


Includes 2 x grub screws

Continuous Handrail Joiner
JET501N



Continuous Handrail End Cap
JET503N

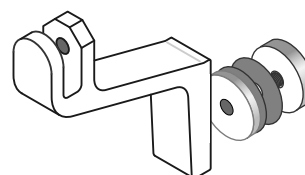


End cap can be used to terminate a
Continuous Rail against a wall
or floor.

Recommended M10 coach screw
w/ 21x2mm washers

Handrail assembly
JET48/Kit

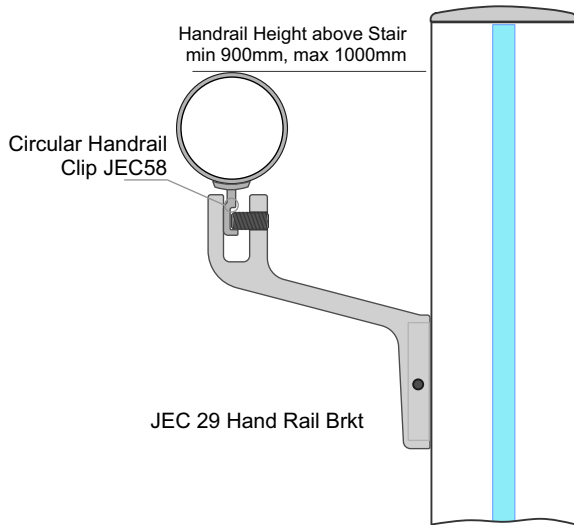
For Glass Panel mounting



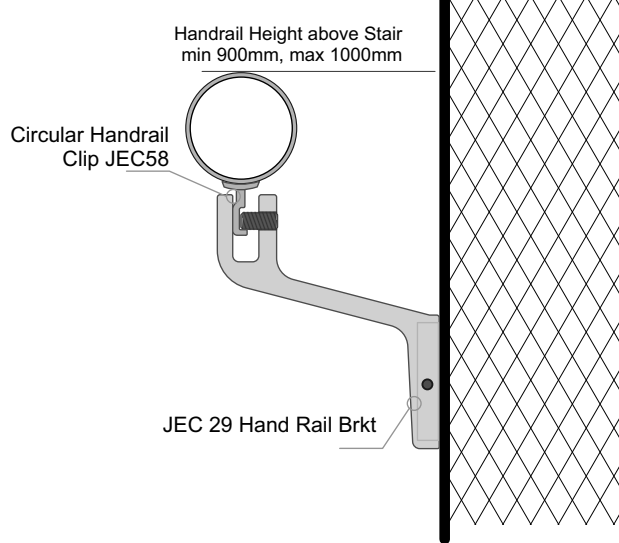
Includes all components

Juralco EDGE® Balustrade System
Suitable Connections for a Continuous Handrail

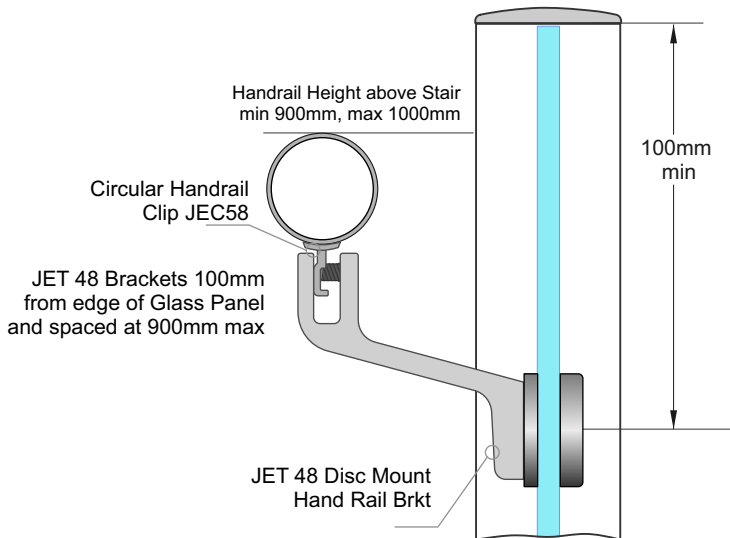
Semi Frameless and Frameless - Continuous Handrail on Stair side



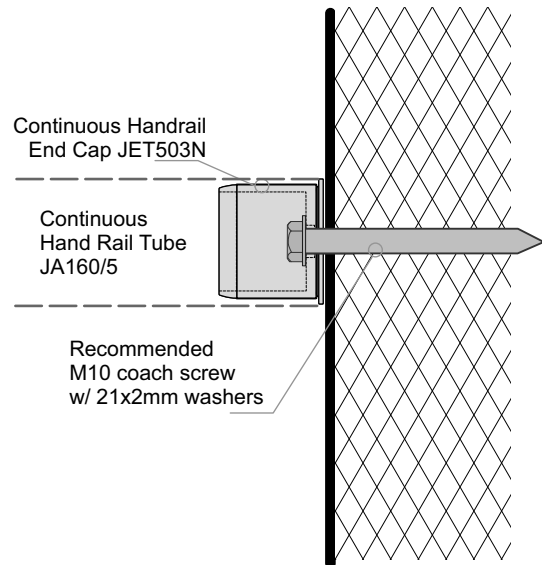
Handrail attached to Balustrade Post



Handrail attached to Wall

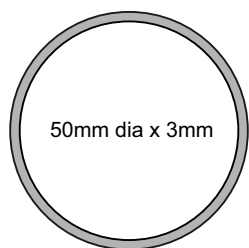


Handrail attached Balustrade Glass panel

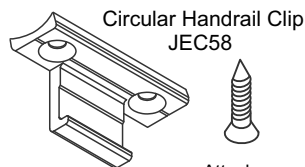


Endcap attached to Wall
 End cap can be used to terminate a
 Continuous Rail against a wall or floor

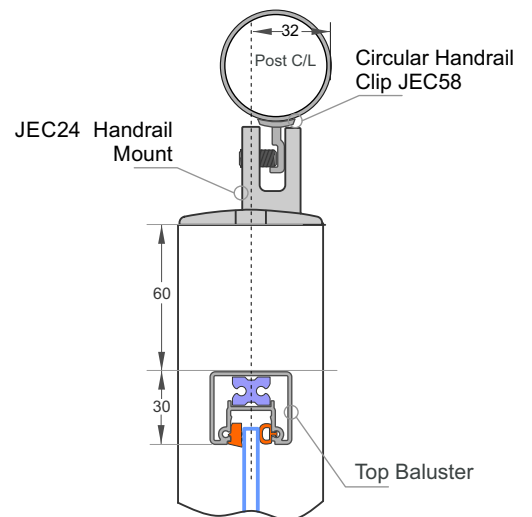
Components for a Continuous Handrail installation



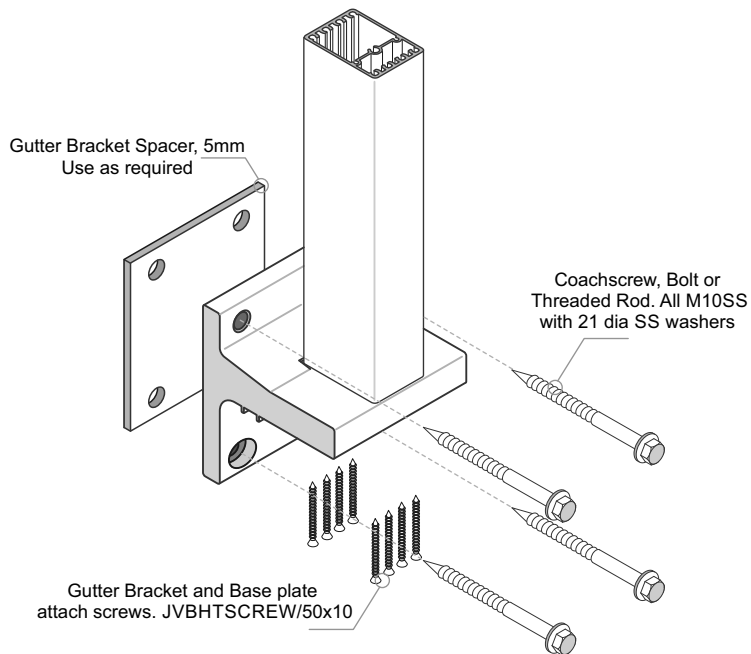
Circular Handrail
Continuous + Clip
JA/160/5 (uses JEC58 Clip)



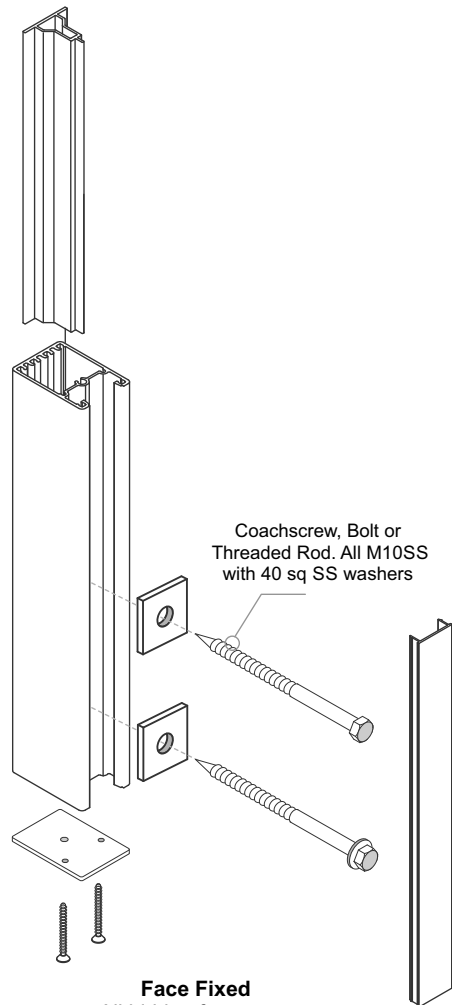
For Circular Handrail JA/160



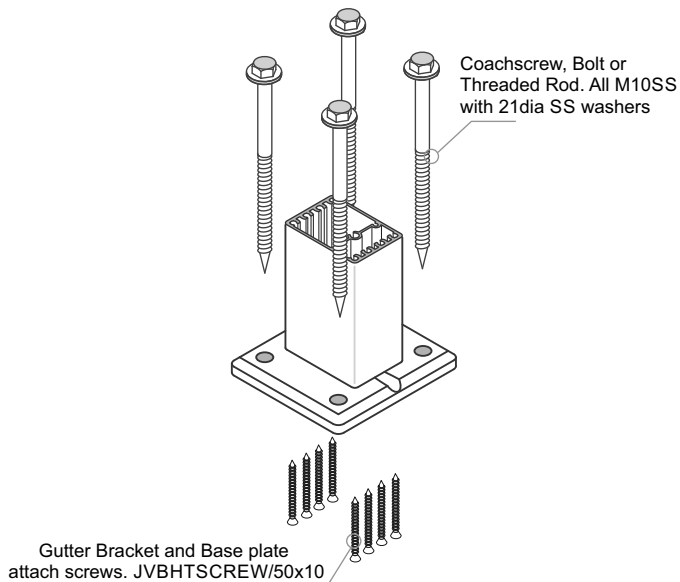
Handrail attached to Top of Balustrade Post



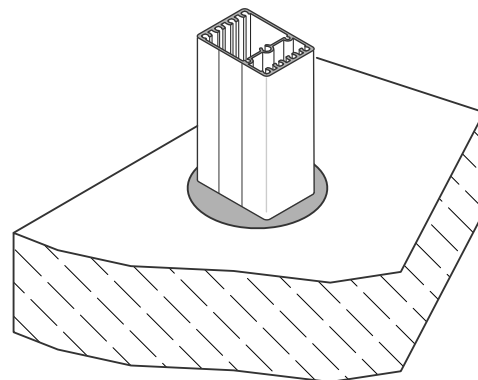
Gutter Bracket - Face Fixed
 Suitable for Waterproofed Decks and any overhanging decks.
 Allows for Guttering to run under.
 Different fasteners types depending on the Building substrate



Face Fixed
 All hidden fasteners.
 Different fasteners types depending on the Building substrate



Top Mount
 Base Plates in a variety of sizes. Different fasteners types depending on the Building substrate.
 Includes a 90deg Semi Frameless Corner Post



Base Fix - Concrete only.
 Post cemented permanently in place

Juralco EDGE® Balustrade System - Typical Post Fixings
NZS3604:2011 Connection. Double Boundary Joists

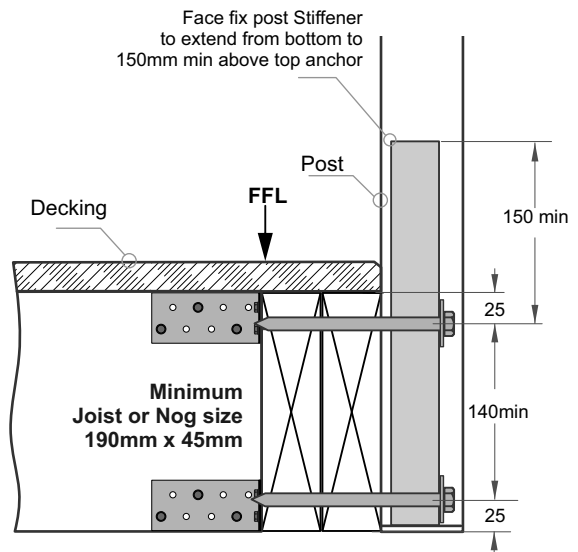
Typical FACE Fix Post to Timber - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

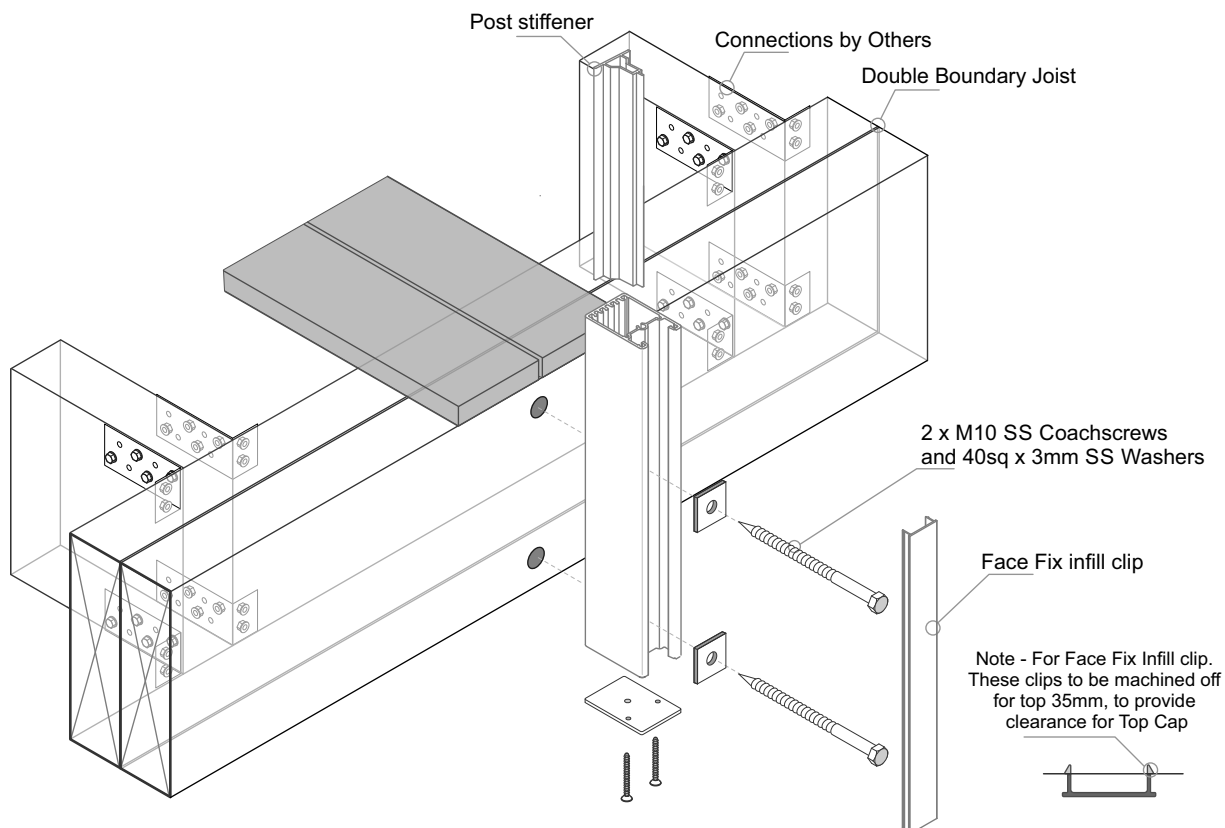
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 90mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKa Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.



Juralco EDGE® Balustrade System - Typical Post Fixings
NZS3604:2011 Connection. Double Boundary Joists

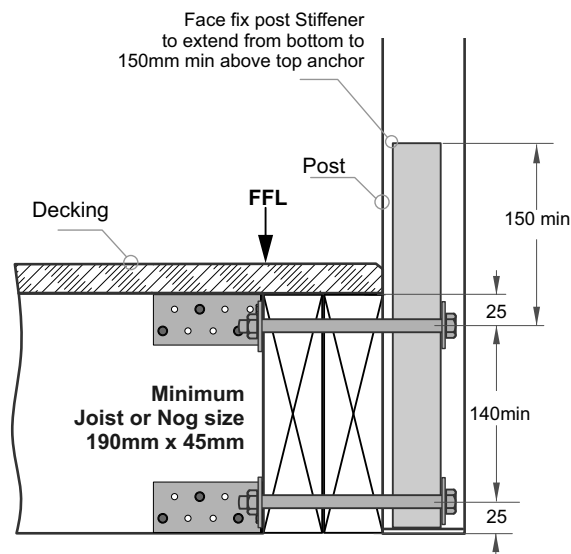
Typical FACE Fix Post to Timber - M10 SS Bolts or Threaded Rod

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

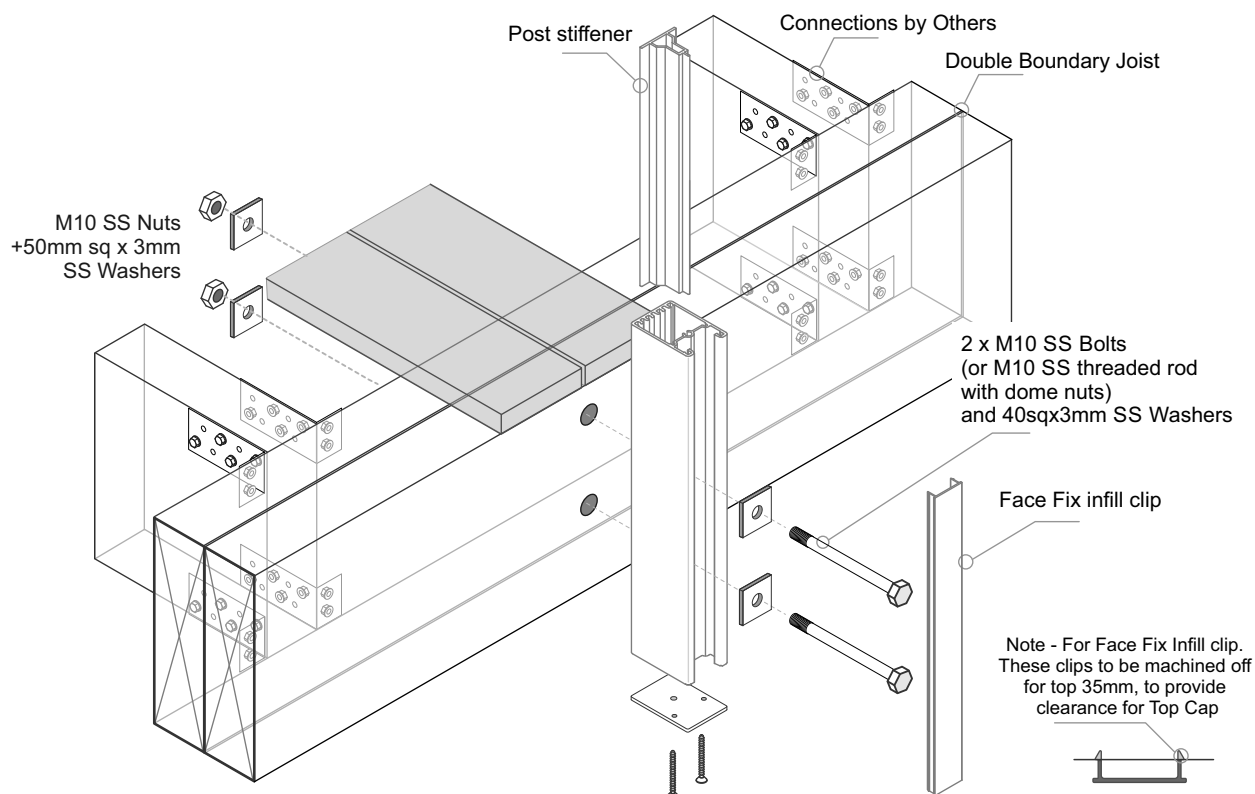
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - All Fixings must be Stainless steel
- 4 - Minimum 5 x Diameter end distance to be provided for all timber connections.



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Juralco EDGE® Balustrade Systems

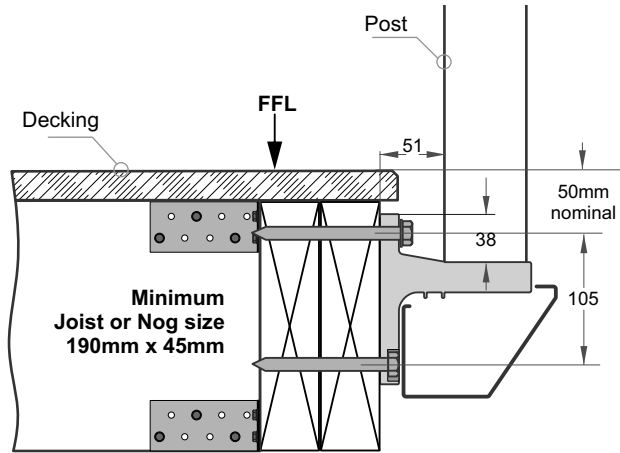
Issue 10-26 v1
Page 24

Juralco EDGE® Balustrade System - Typical Post Fixings
NZS3604:2011 Connection. Double Boundary Joists

Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

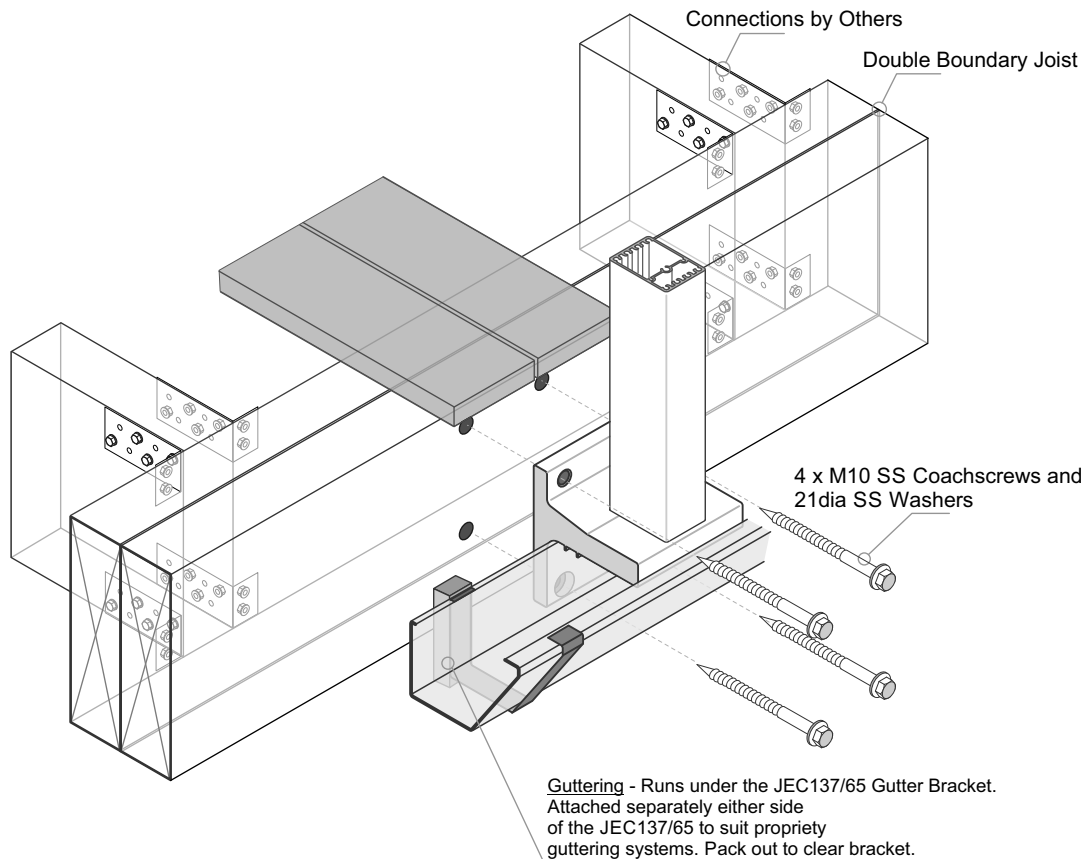


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 90mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKA Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.

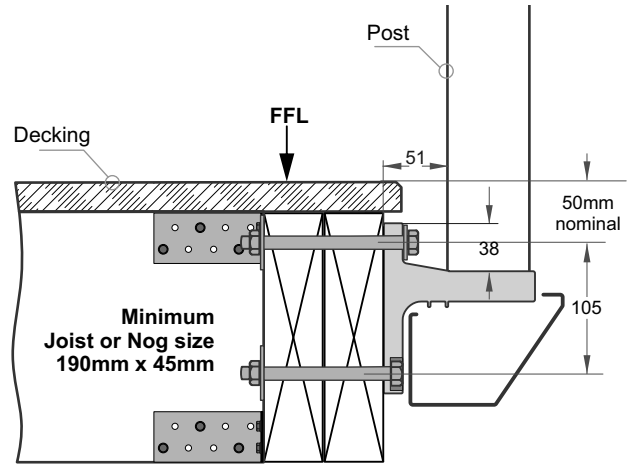


Juralco EDGE® Balustrade System - Typical Post Fixings
NZS3604:2011 Connection. Double Boundary Joists

Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Bolts or Threaded Rod

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

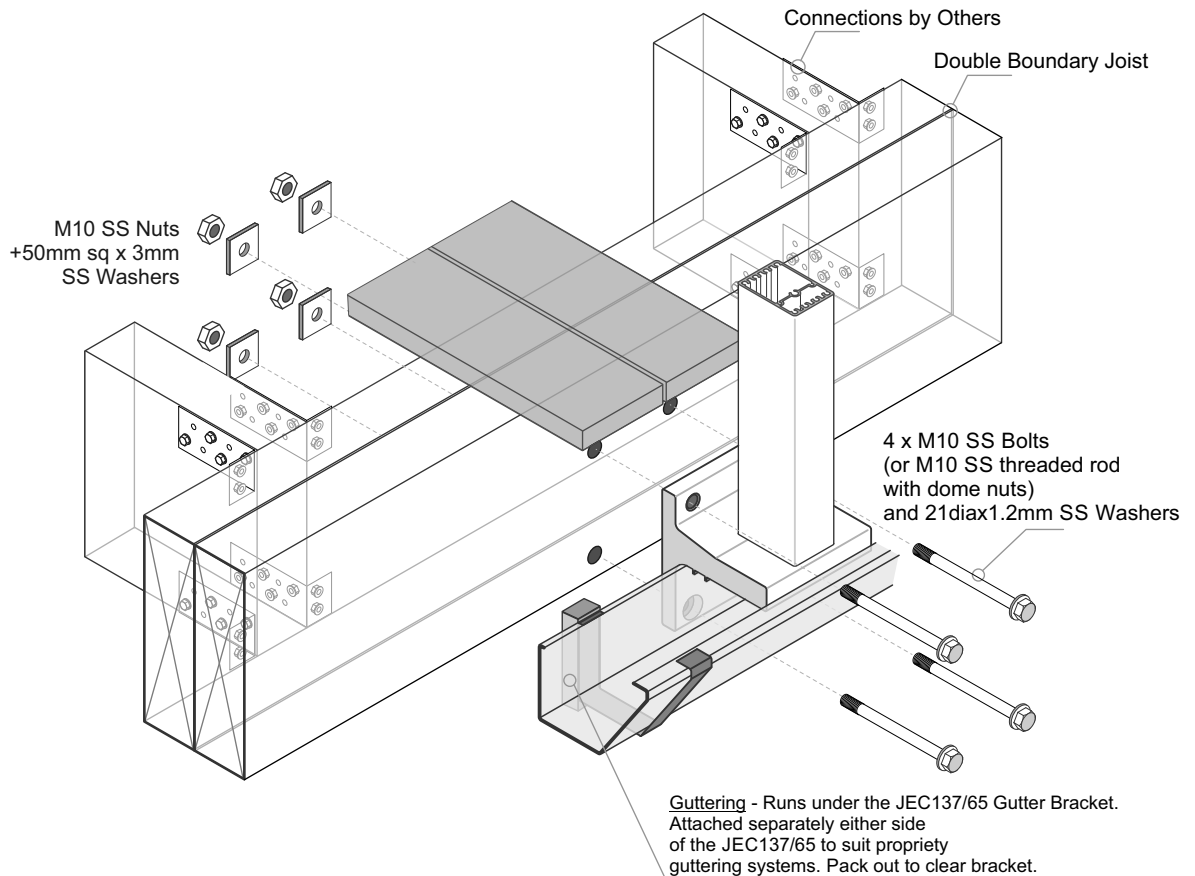


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers

Important Installation notes:

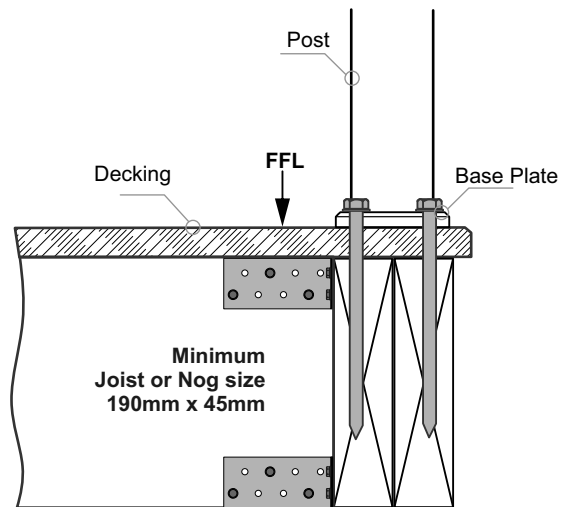
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - All Fixings must be Stainless steel
- 4 - Minimum 5 x Diameter end distance to be provided for all timber connections



Juralco EDGE® Balustrade System - Typical Post Fixings
NZS3604:2011 Connection. Double Boundary Joists

Typical TOP Fix to Timber - JEC 221, 110mm x 90mm, 4 hole Base Plate - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.			
	Post Spacing max, mm		
Balustrade Height (mm)	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1150	1400
1050	1350	1100	1350
1100	1300	1050	1300
1150	1250	1000	1250
1200	1200	950	1200
1250	1150	900	1150
1300	1100	850	1100
1350	1050	800	1050
1400	950	750	950
1450	900	700	900
1500	850	650	850

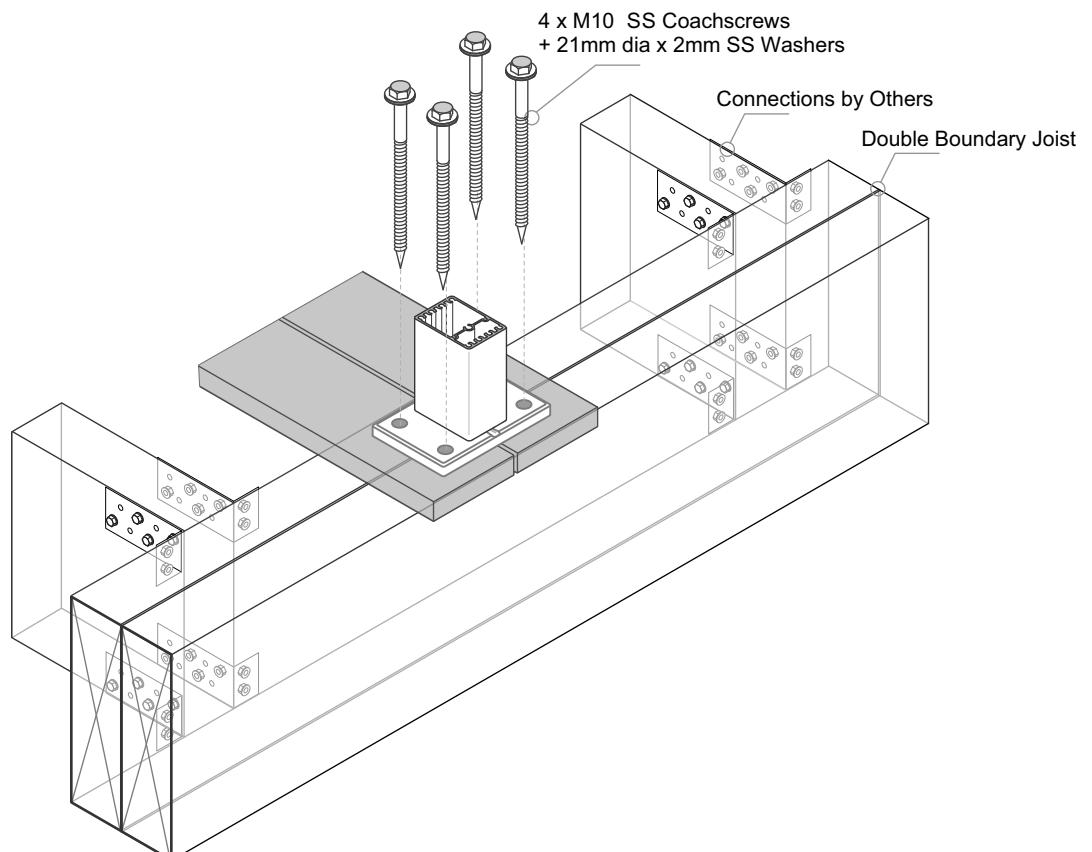


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrew engagement into joists 150mm. All coachscrews predrill 6mm holes
- 4 - Bond all coachscrews with SIKA Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.



Juralco EDGE® Balustrade System - Typical Post Fixings

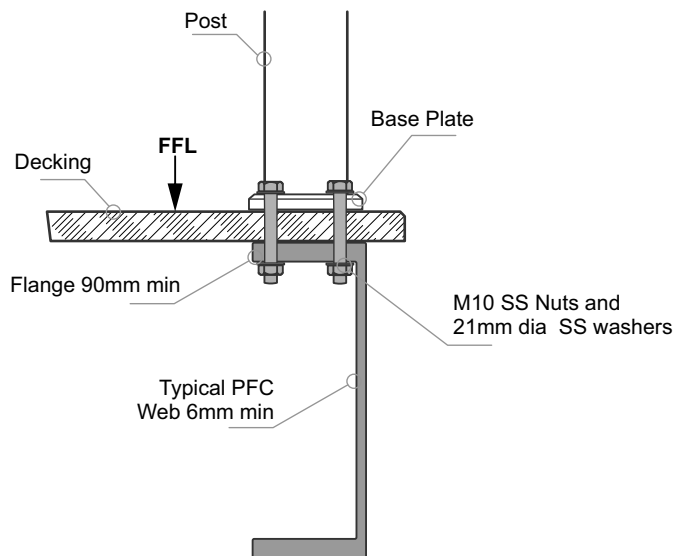
Typical TOP Fix to Steel with Timber Deck - JEC 221, 110mm x 90mm, 4 hole Base Plate - M10 SS Bolts

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1150	1400
1050	1350	1100	1350
1100	1300	1050	1300
1150	1250	1000	1250
1200	1200	950	1200
1250	1150	900	1150
1300	1100	850	1100
1350	1050	800	1050
1400	950	750	950
1450	900	700	900
1500	850	650	850

General Notes:

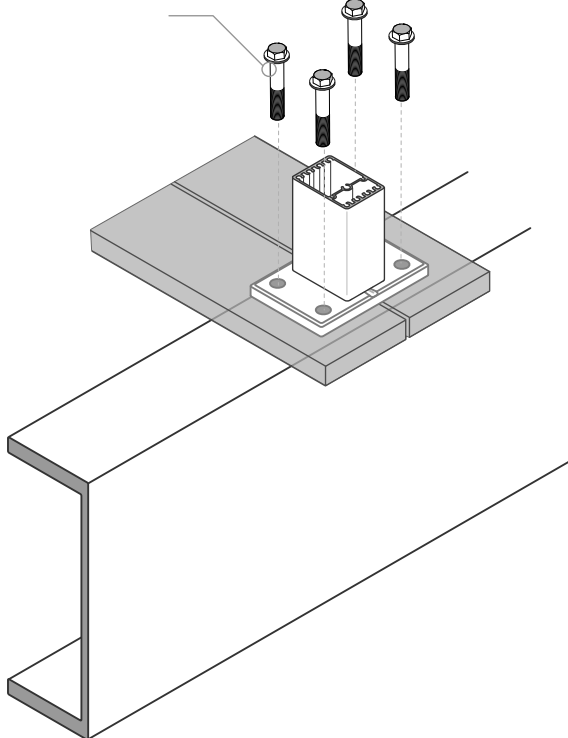
- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - All Fixings must be Stainless steel

4 x M10 SS Bolts
+ 21dia x 2mm SS Washers



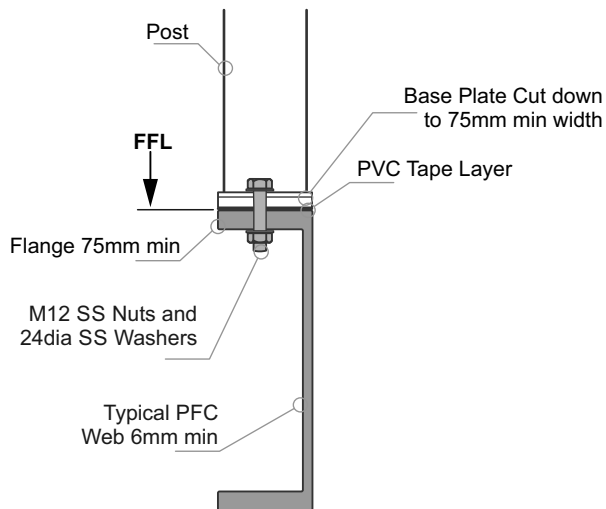
Typical TOP Fix to Steel - JEC 201, 110mm x 90mm, 2 hole Base Plate - M12 SS Bolts

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1150	1400
1050	1350	1100	1350
1100	1300	1050	1300
1150	1250	1000	1250
1200	1200	950	1200
1250	1150	900	1150
1300	1100	850	1100
1350	1050	800	1050
1400	950	750	950
1450	900	700	900
1500	850	650	850

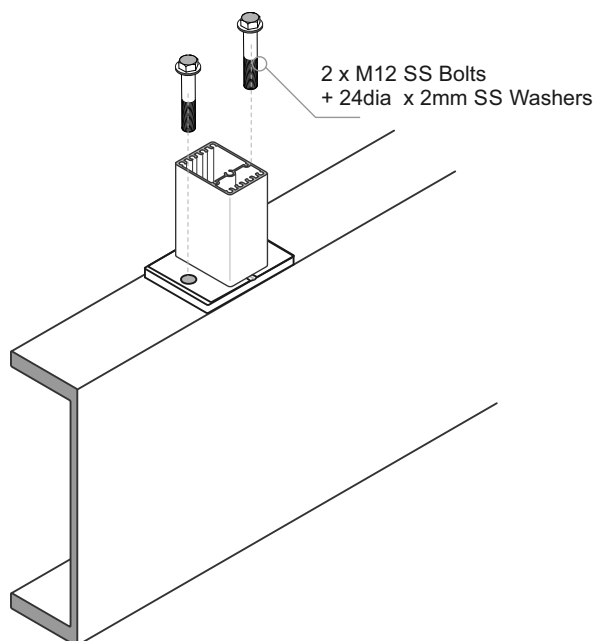
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - The Baseplate can be cut down to 75mm wide
- 4 - Both Base plate and PFC must be aligned, with Bolt at C/L
- 5 - A PVC tape layer must be placed between the Baseplate and Steel
- 6 - All fixings must be Stainless steel

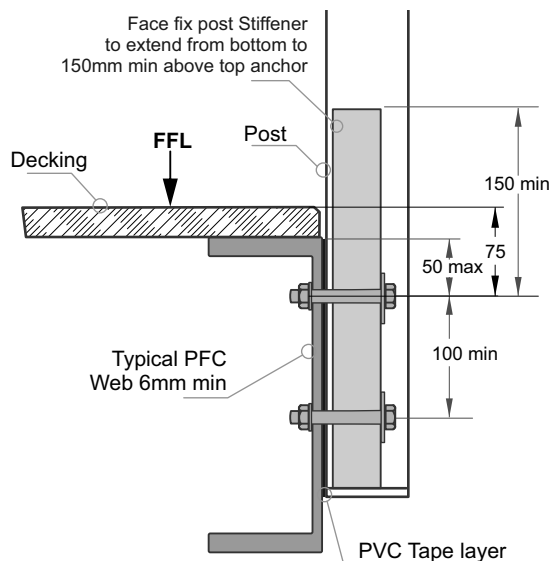


Juralco EDGE® Balustrade System - Typical Post Fixings

Typical FACE Fix Post to Steel - M10 SS Bolts

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	1000	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

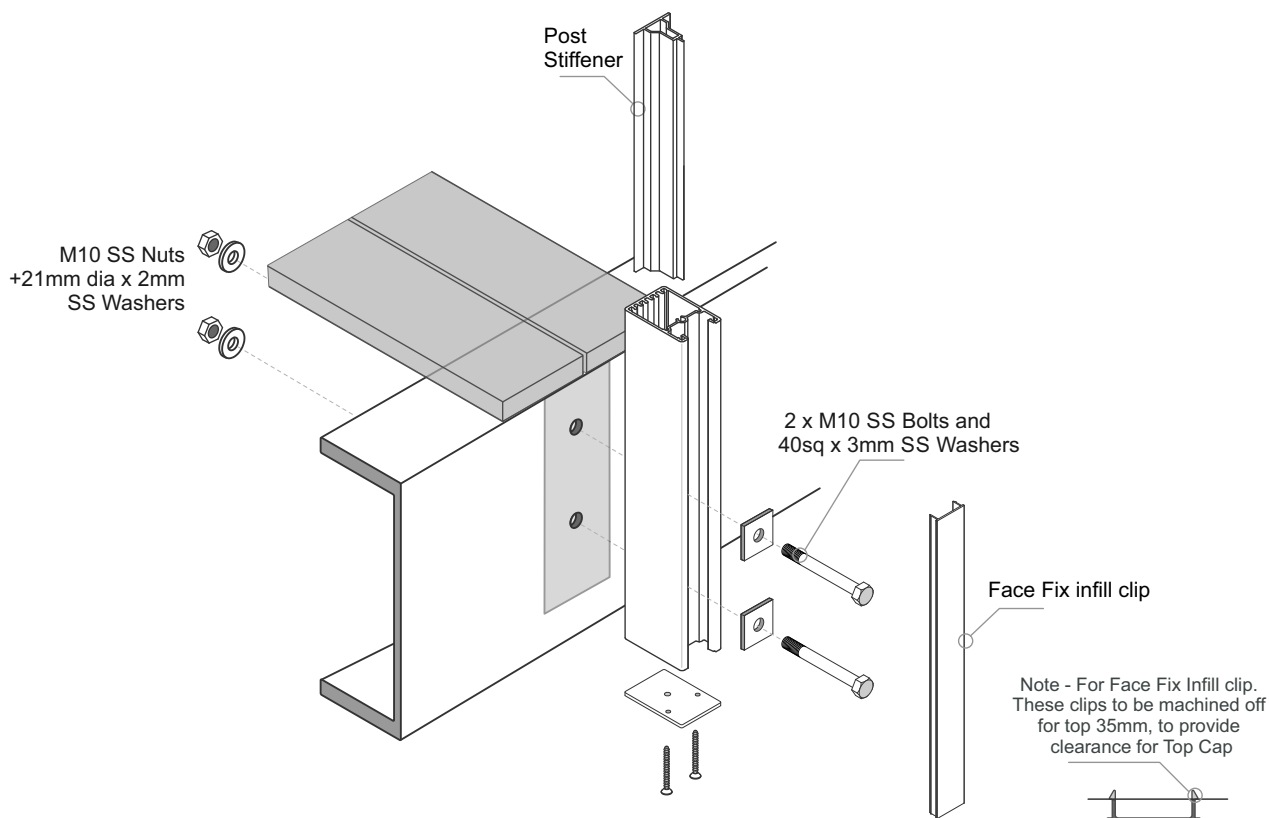


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC tape layer must be placed between the Post and Steel
- 4 - All fixings must be Stainless steel



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Juralco EDGE® Balustrade System - Typical Post Fixings

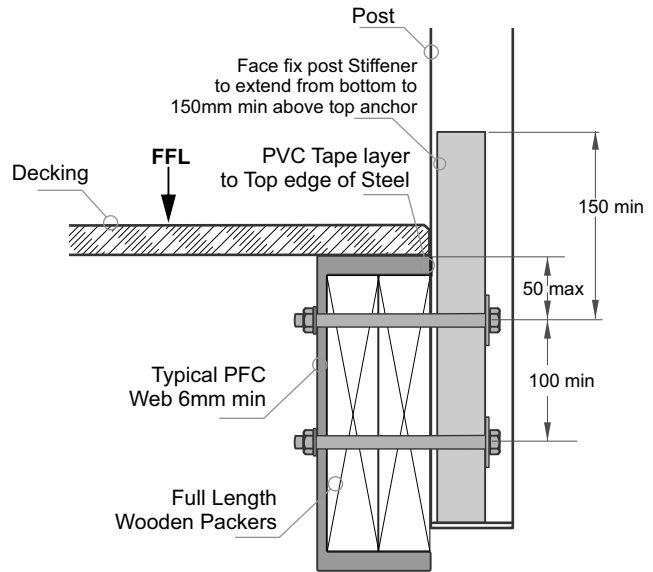
Typical FACE Fix Post to Steel + Wooden Packers - M10 SS Bolts

Balustrade Dimensions by Wind Zone.

	Post Spacing max, mm		
Balustrade Height (mm)	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	1000	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

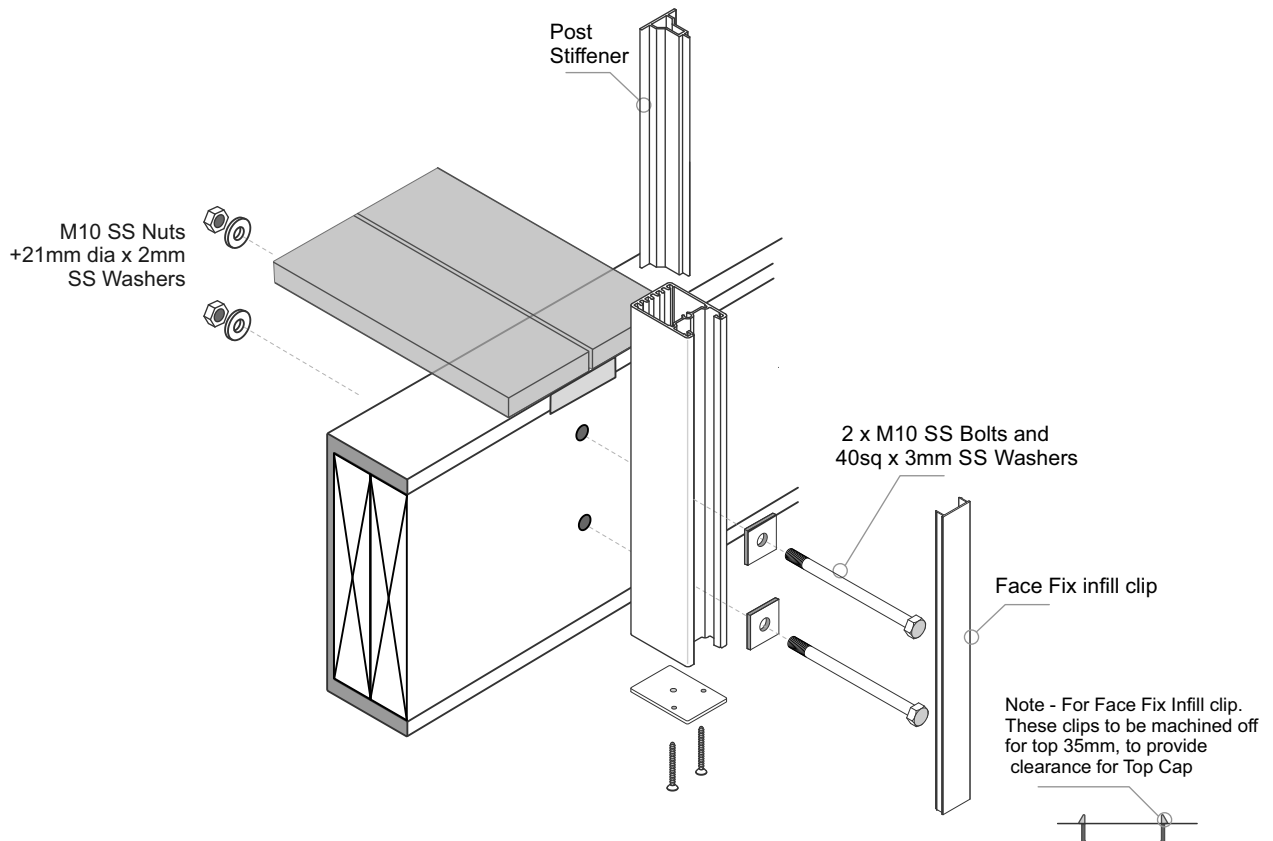
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - A PVC Tape layer must be installed between the Post and the Top Steel Flange
- 4 - All Fixings must be Stainless steel



Juralco EDGE® Balustrade System - Typical Post Fixings

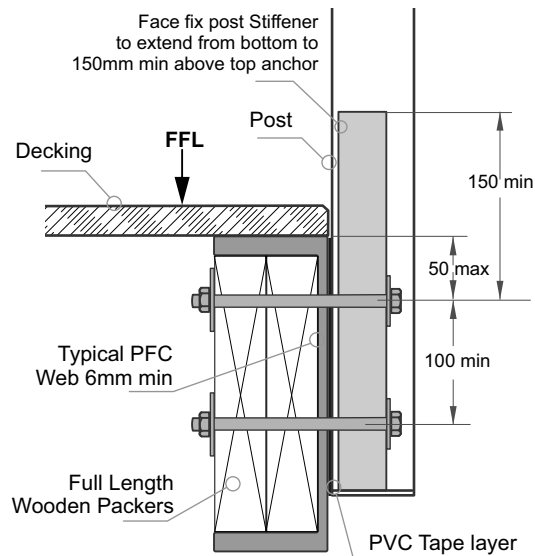
Typical FACE Fix Post to Steel + Wooden Packers - M10 SS Bolts

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	1000	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

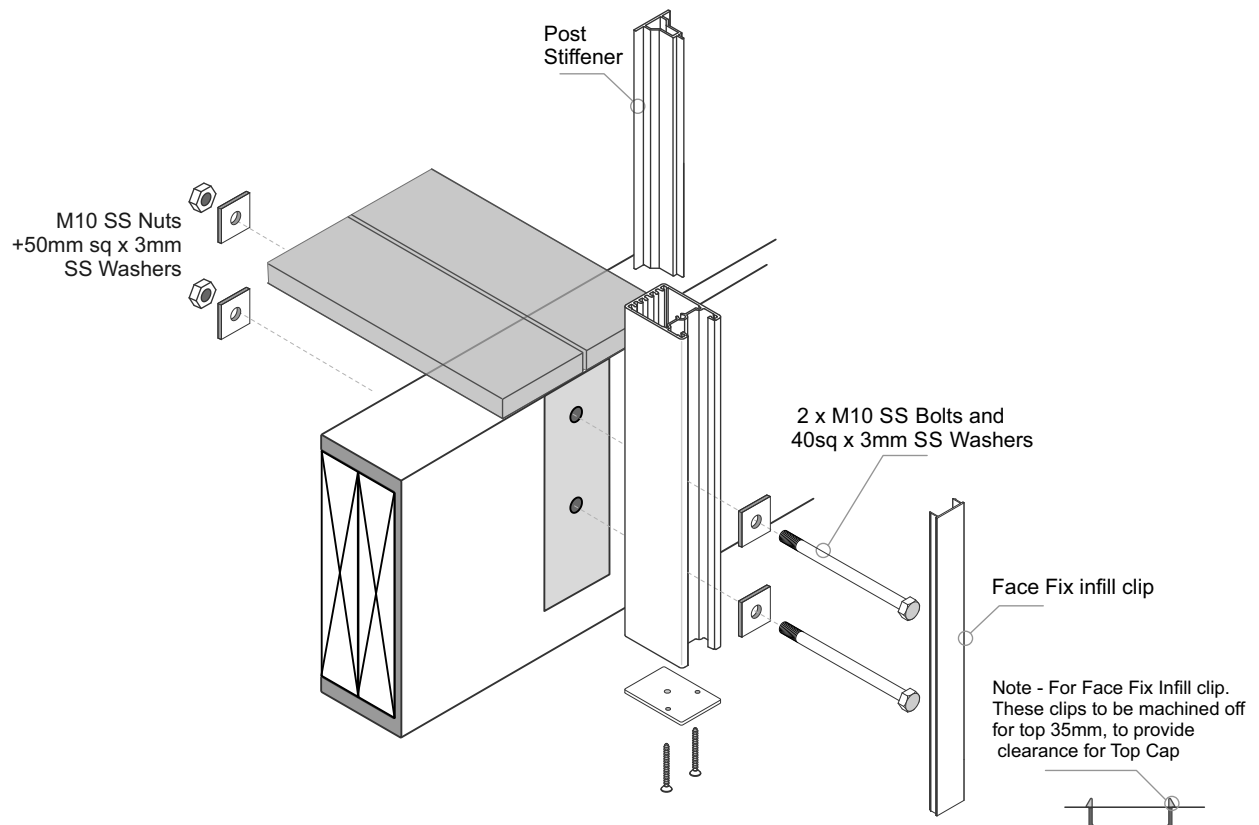
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - A PVC Tape layer must be installed between the Post and Steel
- 4 - All Fixings must be Stainless steel



Juralco EDGE® Balustrade System - Typical Post Fixings

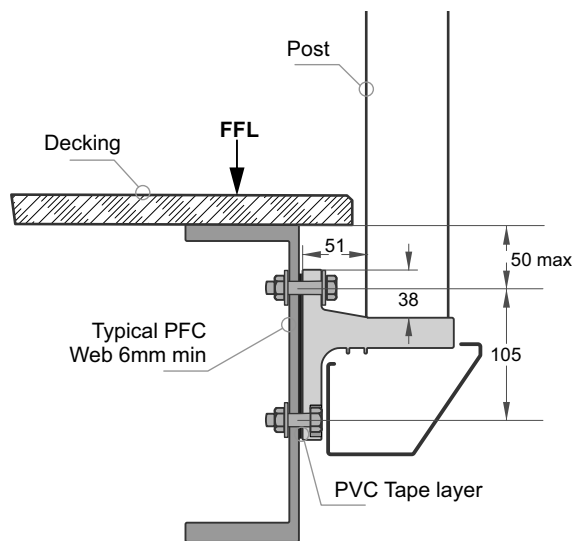
Typical FACE Fix to Steel - JEC 137/65, Gutter Bracket - M10 SS Bolts

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	1000	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

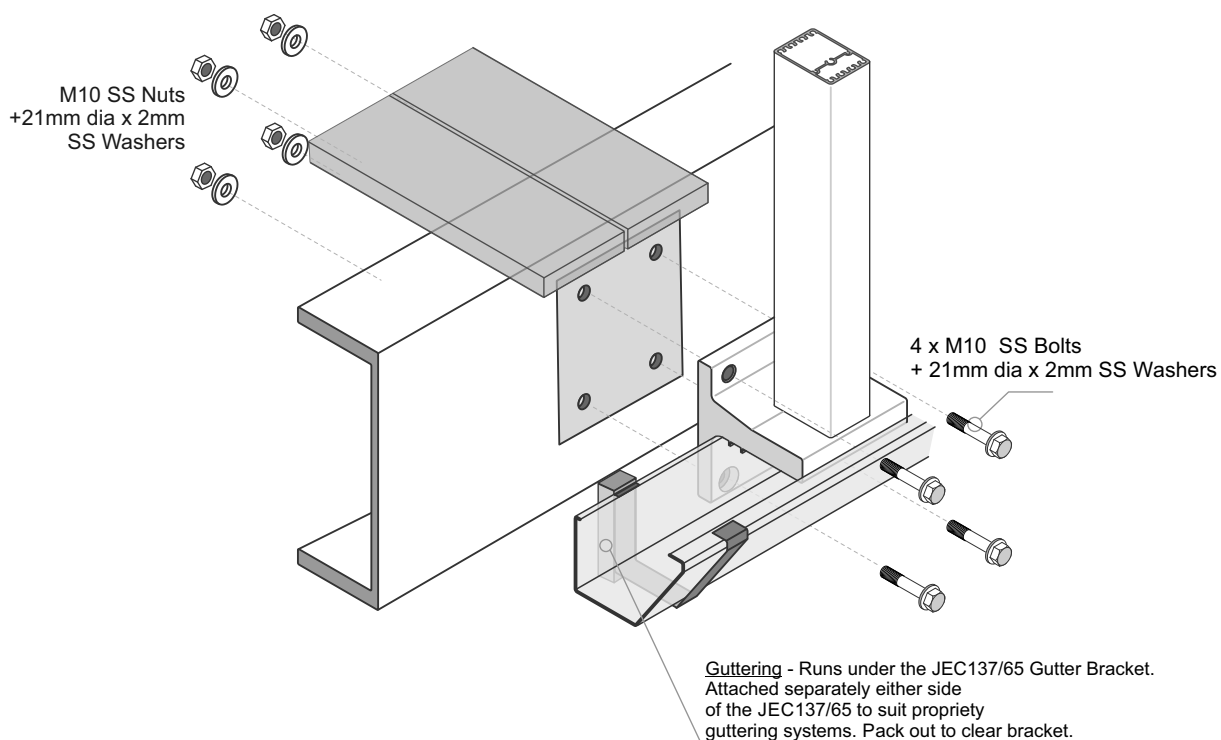
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm JVB spacers



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC Tape layer must be installed between the Gutter Bracket and Steel
- 4 - All Fixings must be Stainless steel



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Typical TOP Fix to Concrete - JEC 200, 110mm x 100mm, 4 hole Base Plate - M10 SS Studs

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1300	1200	1400
1050	1250	1150	1350
1100	1200	1100	1300
1150	1150	1050	1250
1200	1100	1000	1200
1250	1050	950	1150
1300	1000	850	1100
1350	950	800	1050
1400	900	750	950
1450	850	700	900
1500	800	650	850

General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS 3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking

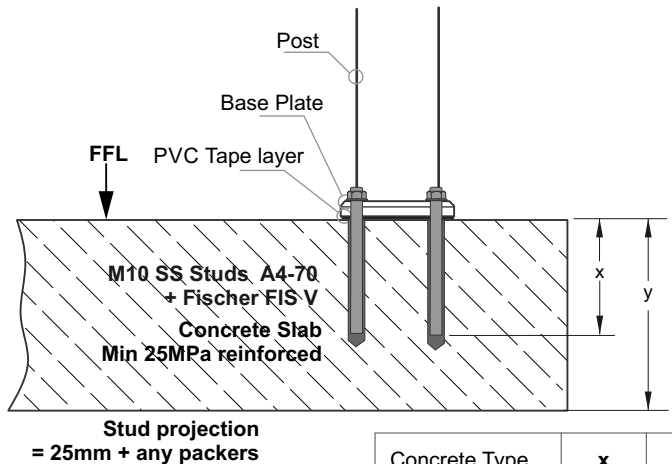


Installation details Fischer FIS V 300T

Thread diameter	M10
Drill hole diameter	= 12 mm
Drill hole depth	= 102 mm or 177mm
Anchorage depth	= 90 mm or 165 mm

Drilling method	Hammer drilling
Drill hole cleaning	4 times blowing, 4 times brushing, 4 times blowing

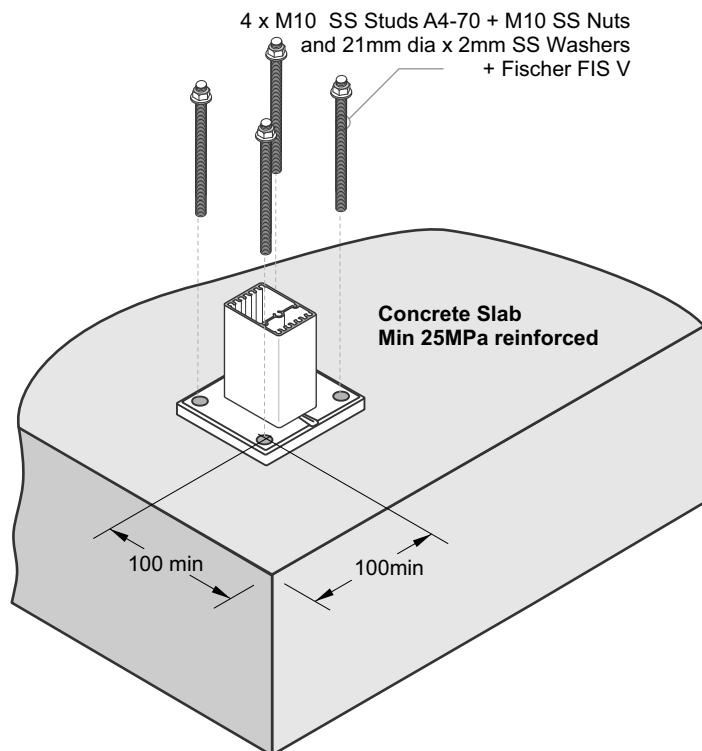
No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.



Concrete Type	x	y
Uncracked	90	150
Cracked	165	200

Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Baseplate and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel



Typical TOP Fix to Concrete - JEC 201, 110mm x 90mm, 2 hole Base Plate - M12 SS Studs

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1070	960	1070
1050	1020	910	1020
1100	970	850	970
1150	920	760	920
1200	850	710	870
1250	770	660	820
1300	720	610	770
1350	670	560	720
1400	620	510	670
1450	570	460	620
1500	520	410	570

General Notes:

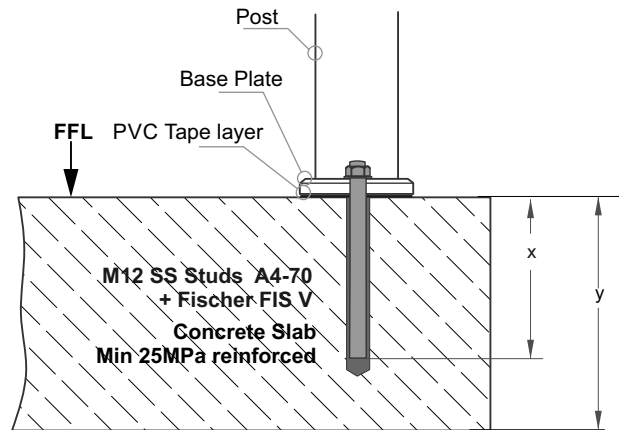
- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking



Installation details Fischer FIS V 300T

Thread diameter	M12
Drill hole diameter	= 14 mm
Drill hole depth	= 122 mm or 197 mm
Anchorage depth	= 110 mm or 185 mm
Drilling method	Hammer drilling
Drill hole cleaning	4 times blowing, 4 times brushing, 4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.

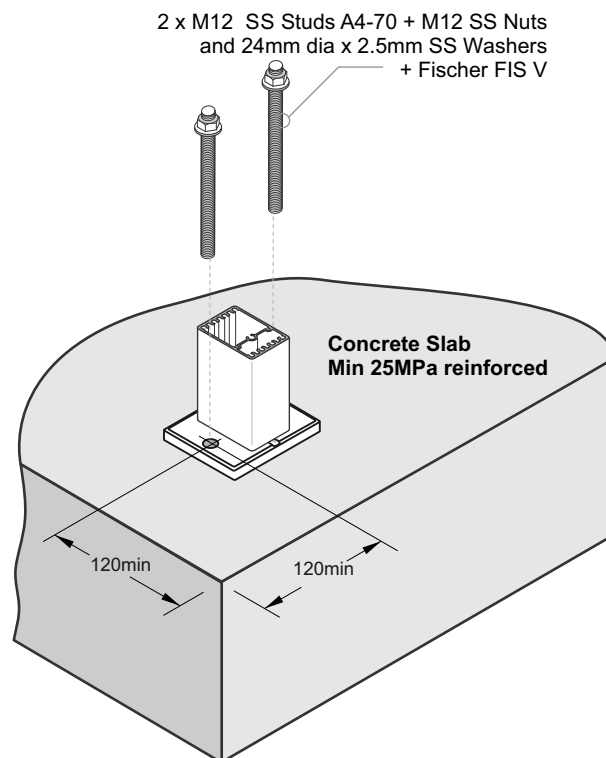


Stud projection
= 25mm + any packers

Concrete Type	x	y
Uncracked	110	185
Cracked	185	220

Important Installation Notes:

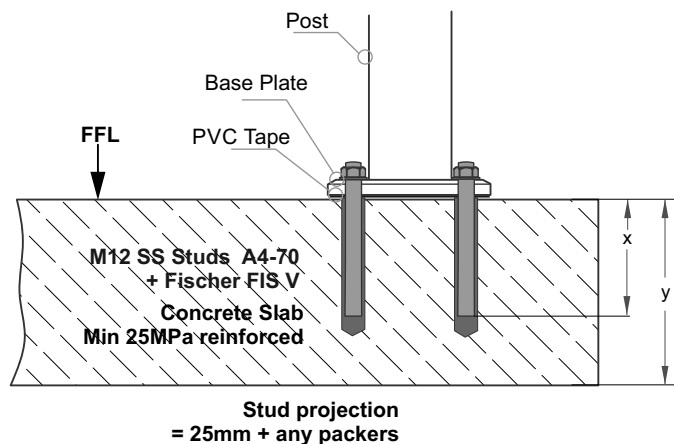
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Baseplate and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel



Typical TOP Fix to Concrete - JEC 232, 128mm x 90mm, 2 hole Base Plate - M12 SS Studs

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1300	1200	1400
1050	1250	1150	1350
1100	1200	1100	1300
1150	1150	1050	1250
1200	1100	1000	1200
1250	1050	950	1150
1300	1000	850	1100
1350	950	800	1050
1400	900	750	950
1450	850	700	900
1500	800	650	850



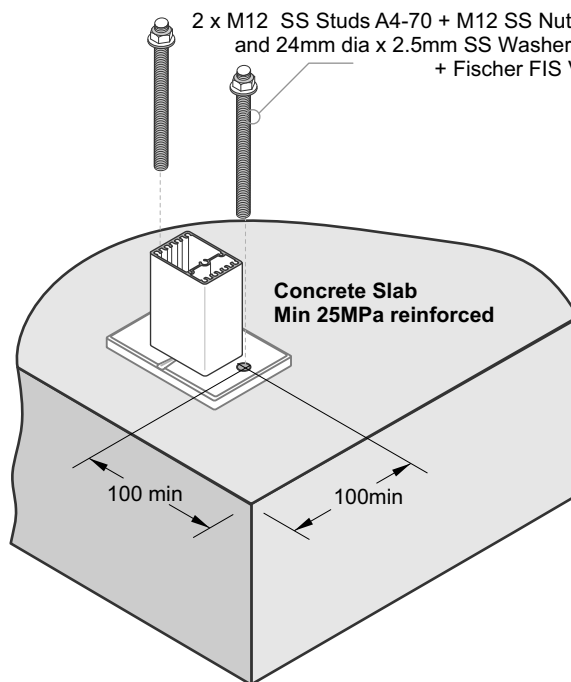
General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking

Concrete Type	x	y
Uncracked	90	150
Cracked	185	220

Important Installation Notes:

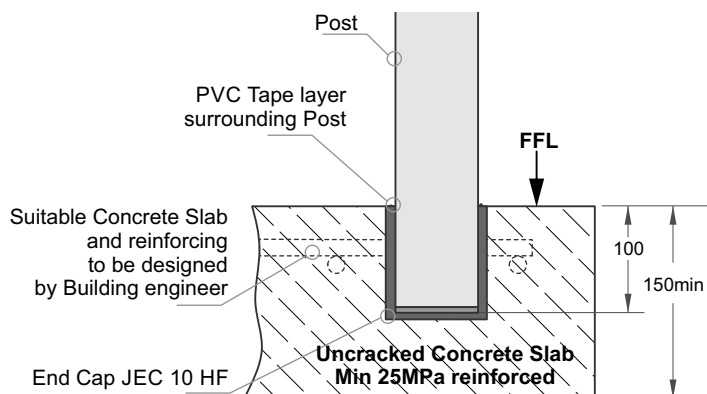
- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Baseplate and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel



Typical TOP Fix to Concrete - Embed Post in Concrete Slab

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1300	1200	1400
1050	1250	1150	1350
1100	1200	1100	1300
1150	1150	1050	1250
1200	1100	1000	1200
1250	1050	950	1150
1300	1000	850	1100
1350	950	800	1050
1400	900	750	950
1450	850	700	900
1500	800	650	850

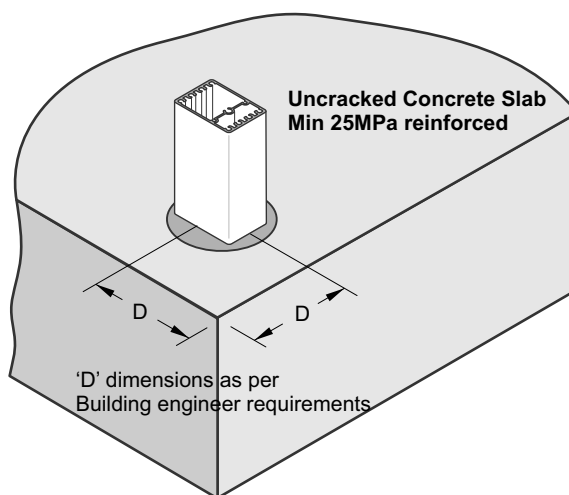


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011
- 5 - Only suitable for Ground Level sites.
Not elevated

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
 - 2 - Substructure shown indicatively only
 - 3 - A PVC Tape layer must completely surround the Post
 - 4 - Mortar pocket 70mm sq or 85mm dia.
- Avoid mortar splashes on exposed aluminium. Wash off immediately.



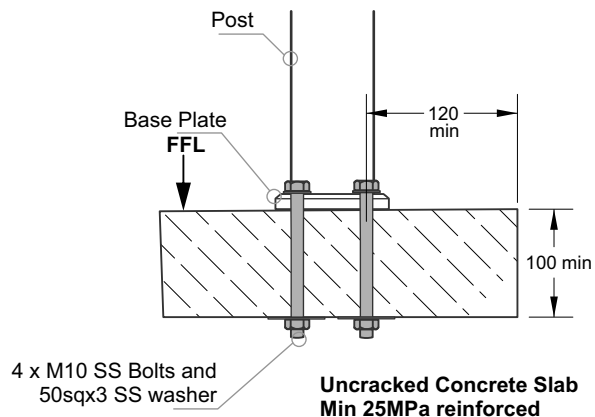
Juralco EDGE® Balustrade System - Typical Post Fixings

Typical TOP Fix to thin slab - JEC200, 110x90mm, 4 hole Base Plate - M10 SS Studs

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1200	1200	1050	1200

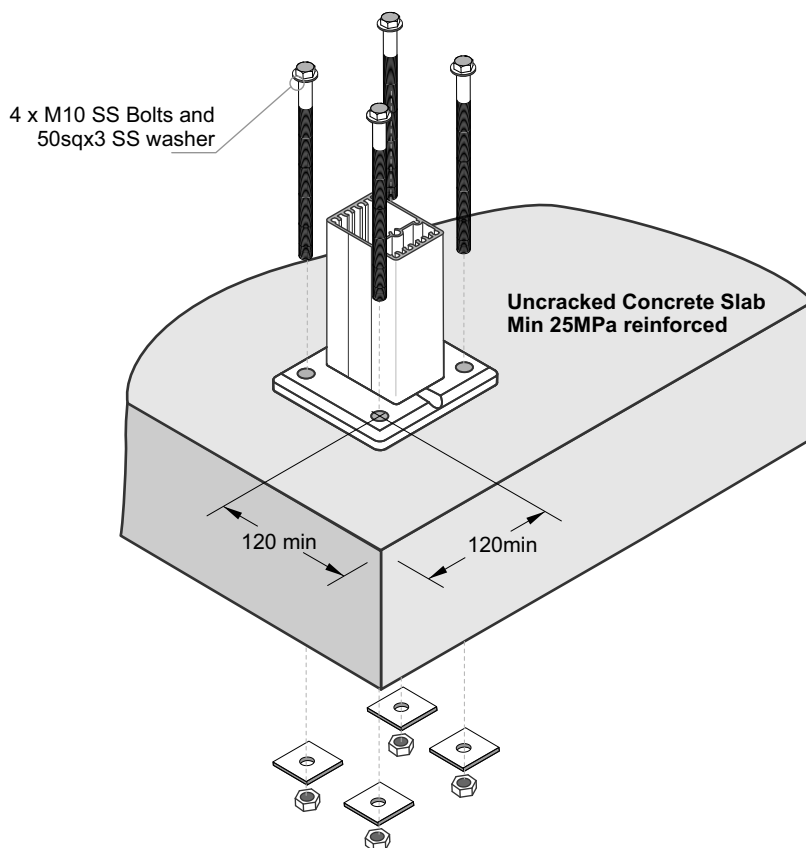
General Notes:

- 1 - Applicable to Occupancy types A,B,C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from the top fixing
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm full bearing timber or stronger packer



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC Tape layer must completely surround the Post
- 4 - All Fixings must be Stainless Steel



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Typical TOP Fix Post to Concrete Block - JEC201, 110 x 90mm, 2 hole Base Plate - M10 SS Studs

	Post Spacing max, mm		
Balustrade Height (mm)	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1200	600	500	600

General Notes:

- 1 - Applicable to Occupancy types A,B,C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011

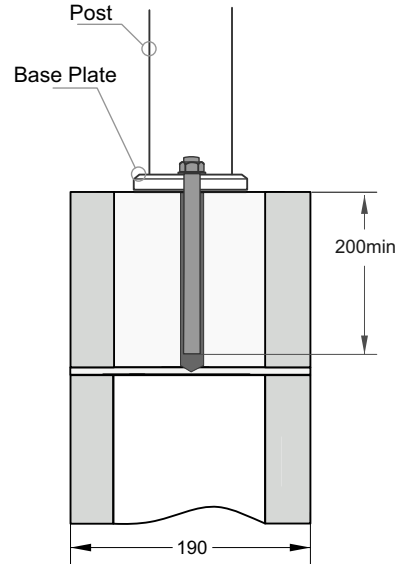


Installation details Hilti RE-500 V4

Thread diameter M10
 Drill hole diameter = 12 mm
 Drill hole depth = 210mm
 Anchorage depth = 200mm

Drilling method Hammer drilling
 Drill hole cleaning 4 times blowing,
 4 times brushing,
 4 times blowing

No borehole cleaning required in case of using a hollow drill bit.

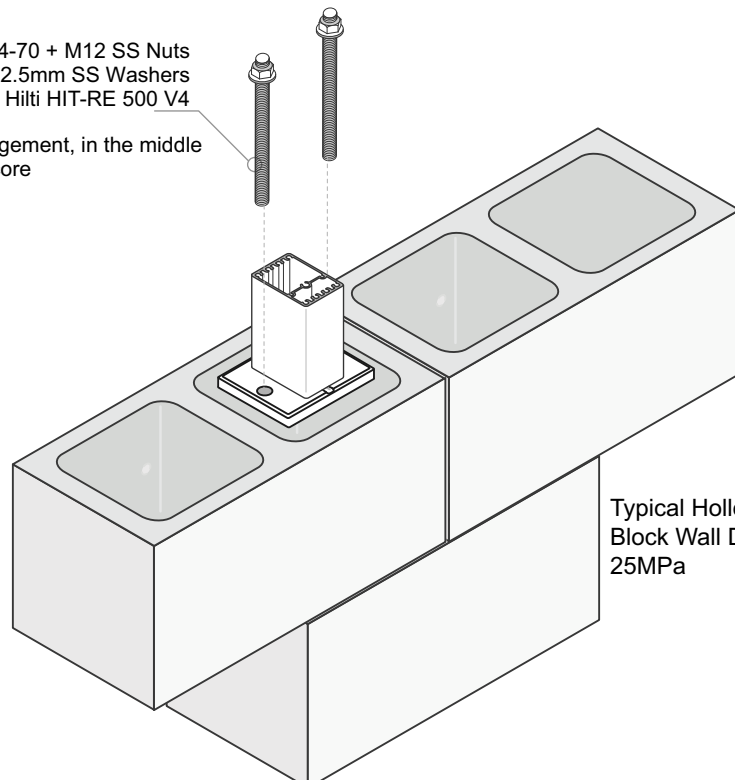


Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC Tape layer must be placed between similar materials
- 4 - All fixings must be Stainless Steel
- 5 - Fixings to be installed into 25MPa concrete infill

2 x M10 SS Studs A4-70 + M12 SS Nuts and 24mm dia x 2.5mm SS Washers + Hilti HIT-RE 500 V4

2 fixing arrangement, in the middle of the block core



Typical Hollow Masonry Block Wall Dricon Mortar, 25MPa

Typical Face Fix Post to Concrete Block - M10 SS Studs

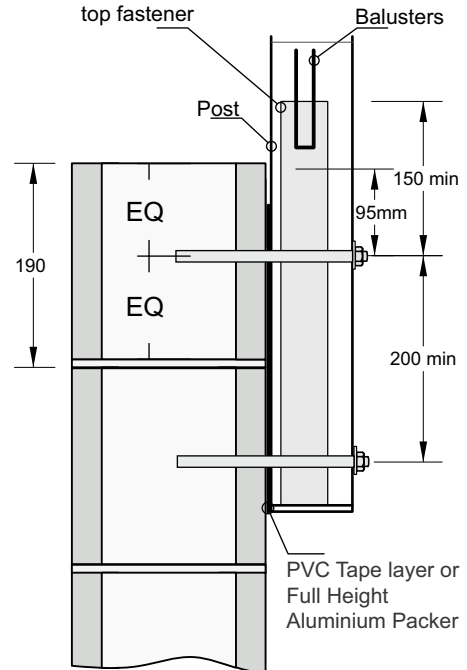
Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1250	1150	1250
1050	1200	1100	1200
1100	1150	1050	1150
1150	1100	950	1100
1200	1050	900	1050
1250	1000	800	1000
1300	950	750	950
1350	900	700	900
1400	850	650	850
1450	800	600	800
1500	750	600	750

General Notes:

- 1 - Applicable to Occupancy types A,B,C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011

Face Fix post Stiffener to extend from bottom of 150mm min above top fastener



Installation details Hilti RE-500 V4

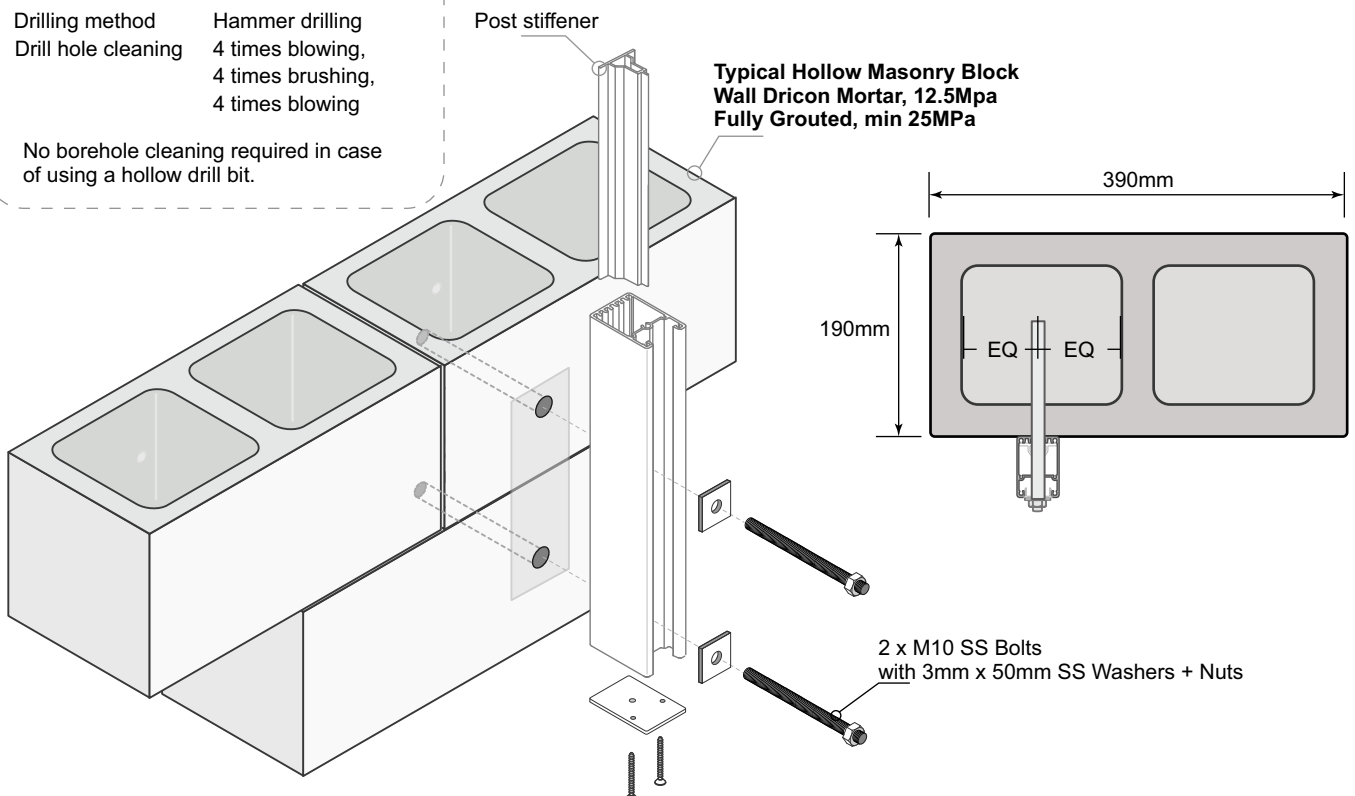
Thread diameter M12
Drill hole diameter = 14 mm
Anchorage depth = 70 mm

Drilling method Hammer drilling
Drill hole cleaning 4 times blowing, 4 times brushing, 4 times blowing

No borehole cleaning required in case of using a hollow drill bit.

Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC Tape layer must be placed between similiar materials
- 4 - All fixings must be Stainless Steel



Juralco EDGE® Balustrade System - Typical Post Fixings

Typical Face Fix Post to Concrete Block - M10 SS Studs

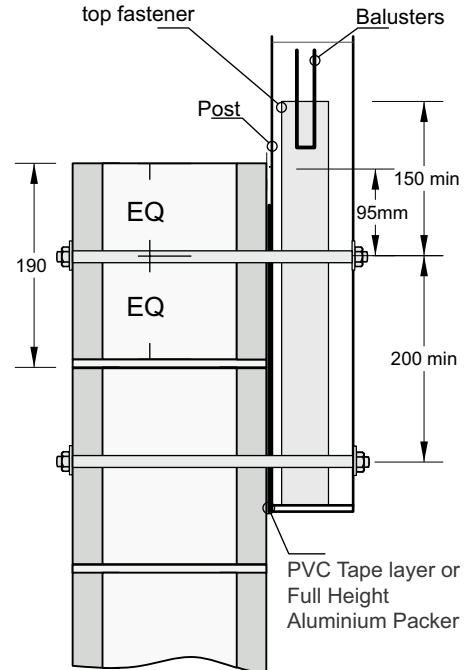
Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

General Notes:

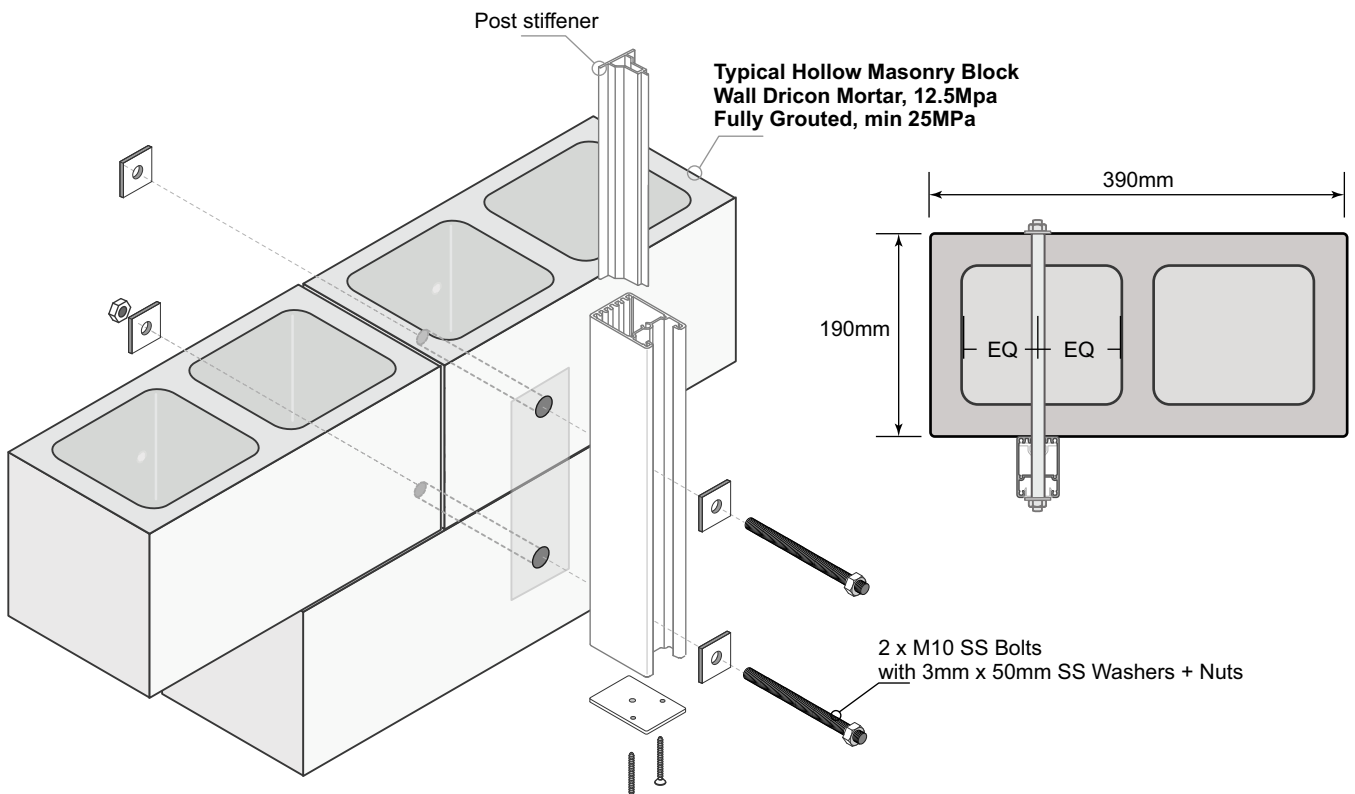
- 1 - Applicable to Occupancy types A,B,C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011

Face Fix post Stiffener to extend from bottom of 150mm min above top fastener



Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - A PVC Tape layer must be placed between similar materials
- 4 - All fixings must be Stainless Steel



Typical FACE Fix Post to Concrete - M10 SS Studs

Balustrade Dimensions by Wind Zone.

		Post Spacing max, mm		
Balustrade Height (mm)		Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
TYPE 1	1000	1300	1200	1450
	1050	1250	1150	1400
	1100	1200	1050	1350
	1150	1150	950	1300
	1200	1100	900	1200
TYPE 2	1250	1050	900	1200
	1300	1000	850	1150
	1350	950	800	1100
	1400	900	750	950
	1450	850	700	900
	1500	800	650	850

General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS 3604:2011

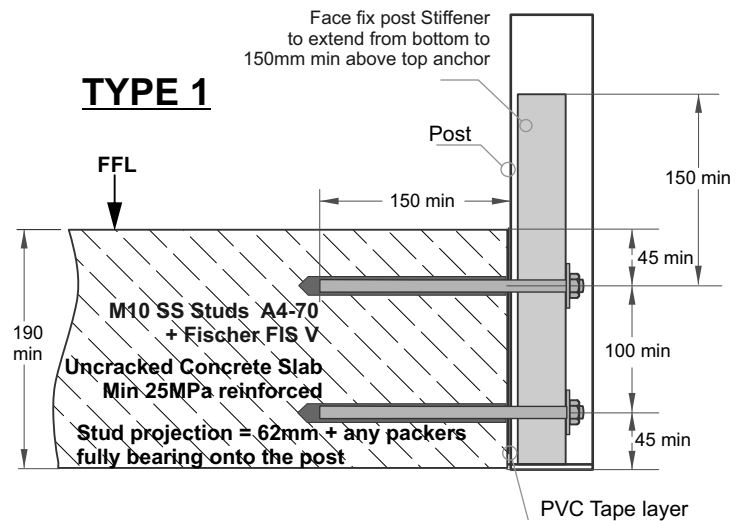
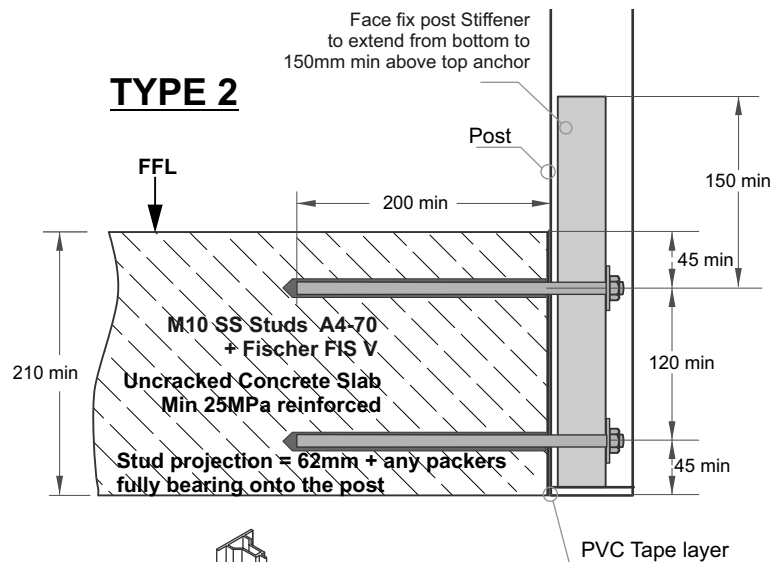
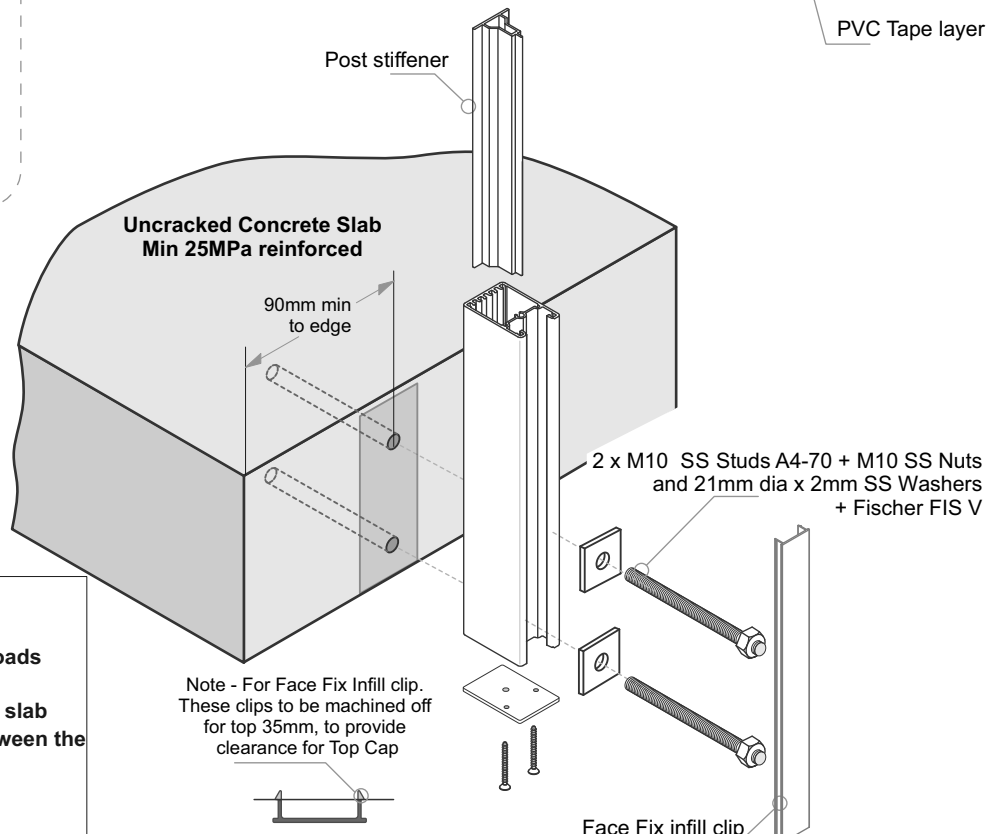


Installation details Fischer FIS V 300T

Thread diameter M10
 Drill hole diameter = 12 mm
 Drill hole depth = 215 or 265mm
 Anchorage depth = 150 or 200mm

Drilling method Hammer drilling
 Drill hole cleaning 4 times blowing,
 4 times brushing,
 4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.



Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Post and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel

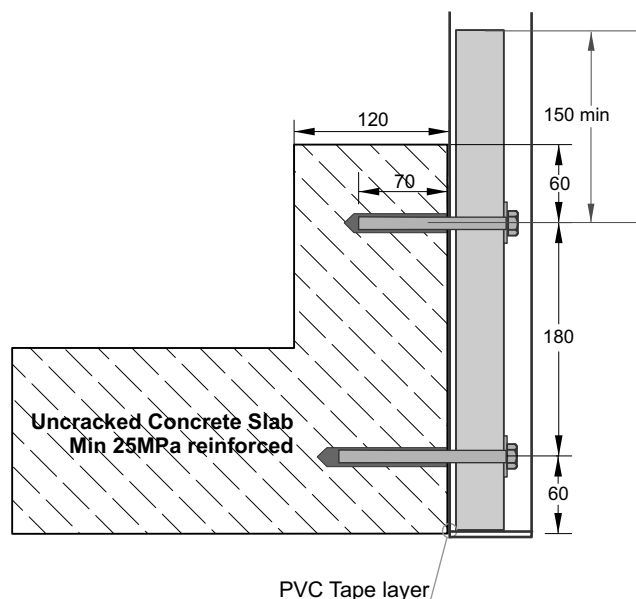
Typical FACE Fix Post to Concrete Parapet - M10 SS Studs

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1200	1000	1250
1250	1100	950	1200
1300	1050	850	1150
1350	950	800	1100
1400	900	750	950
1450	850	700	900
1500	800	650	850

General Notes:

- 1 - Applicable to Occupancy types A,B,C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011



Installation details Fischer FIS V 300T

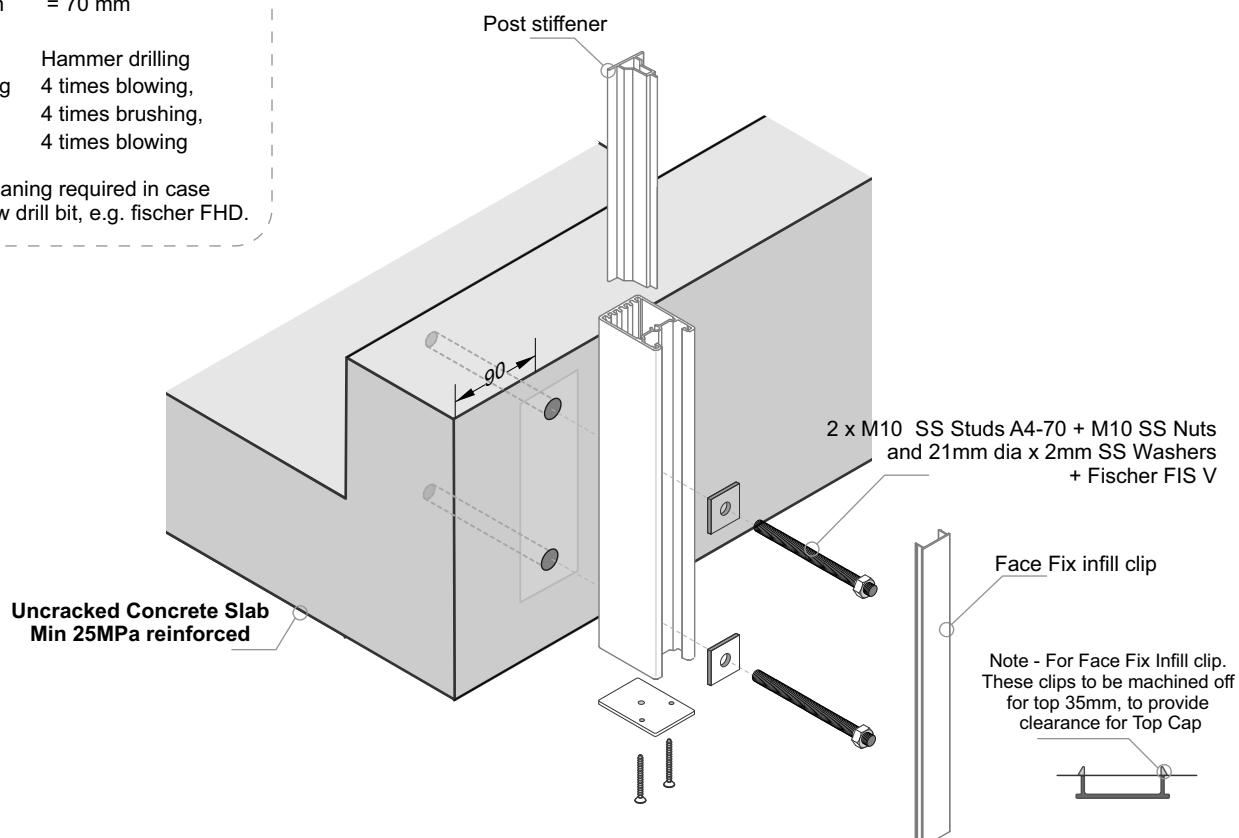
Thread diameter M10
 Drill hole diameter = 12 mm
 Drill hole depth = 80 mm
 Anchorage depth = 70 mm

Drilling method Hammer drilling
 Drill hole cleaning 4 times blowing,
 4 times brushing,
 4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.

Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Post and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel



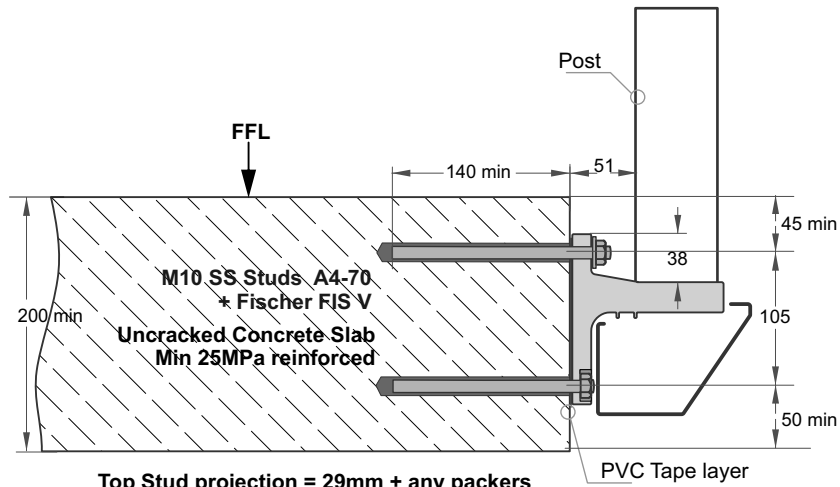
Typical FACE Fix to Concrete - JEC 137/65, Gutter Bracket - M10 SS Studs

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm		
	Glass/Solid Infill (Up to Very High Wind)	Glass/Solid Infill (Up to Extra High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1250	1450
1050	1400	1200	1400
1100	1350	1150	1350
1150	1300	1100	1300
1200	1250	1050	1250
1250	1200	950	1200
1300	1100	850	1150
1350	1050	800	1100
1400	950	750	950
1450	900	700	900
1500	850	650	850

General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011



Top Stud projection = 29mm + any packers
Bottom Stud projection = 20mm + any packers

Packers requires to be fully bearing onto the post



Installation details Fischer FIS V 300T

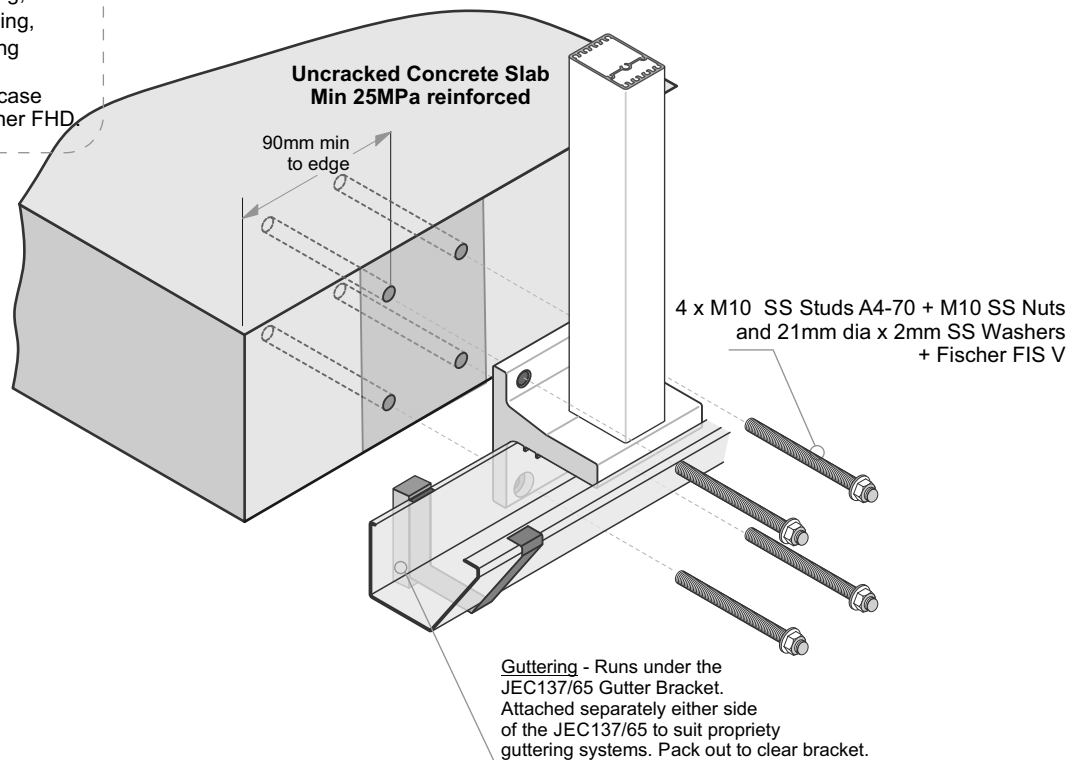
Thread diameter M10
Drill hole diameter = 12 mm
Drill hole depth = 152 mm
Anchorage depth = 140 mm

Drilling method Hammer drilling
Drill hole cleaning 4 times blowing,
4 times brushing,
4 times blowing

No borehole cleaning required in case of using a hollow drill bit, e.g. fischer FHD.

Important Installation Notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only
- 3 - Fixings must engage into the structural slab
- 4 - A PVC Tape layer must be installed between the Gutter Bracket and Concrete
- 5 - Use Threadlok on Nuts
- 6 - All fixings must be Stainless Steel



Guttering - Runs under the JEC137/65 Gutter Bracket. Attached separately either side of the JEC137/65 to suit propriety guttering systems. Pack out to clear bracket.

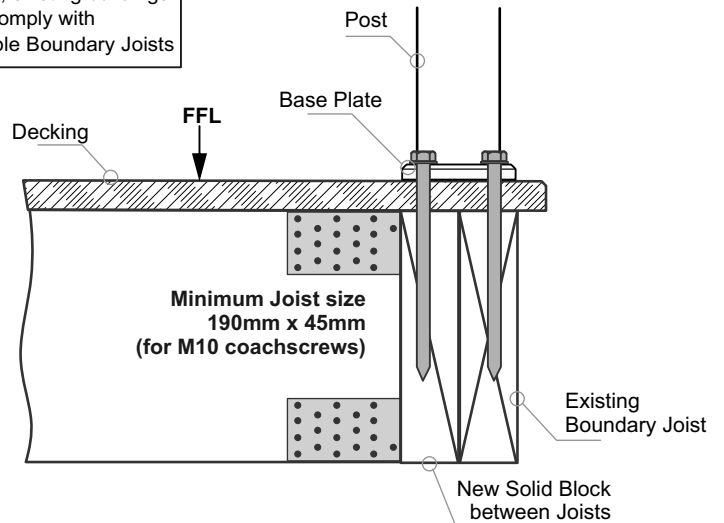
Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical TOP Fix to Timber - JEC 221, 110mm x 90mm, 4 hole Base Plate - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm	
	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1400
1050	1350	1350
1100	1300	1300
1150	1250	1250
1200	1200	1200
1250	1150	1150
1300	1100	1100
1350	1050	1050
1400	950	950
1450	900	900
1500	850	850

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists

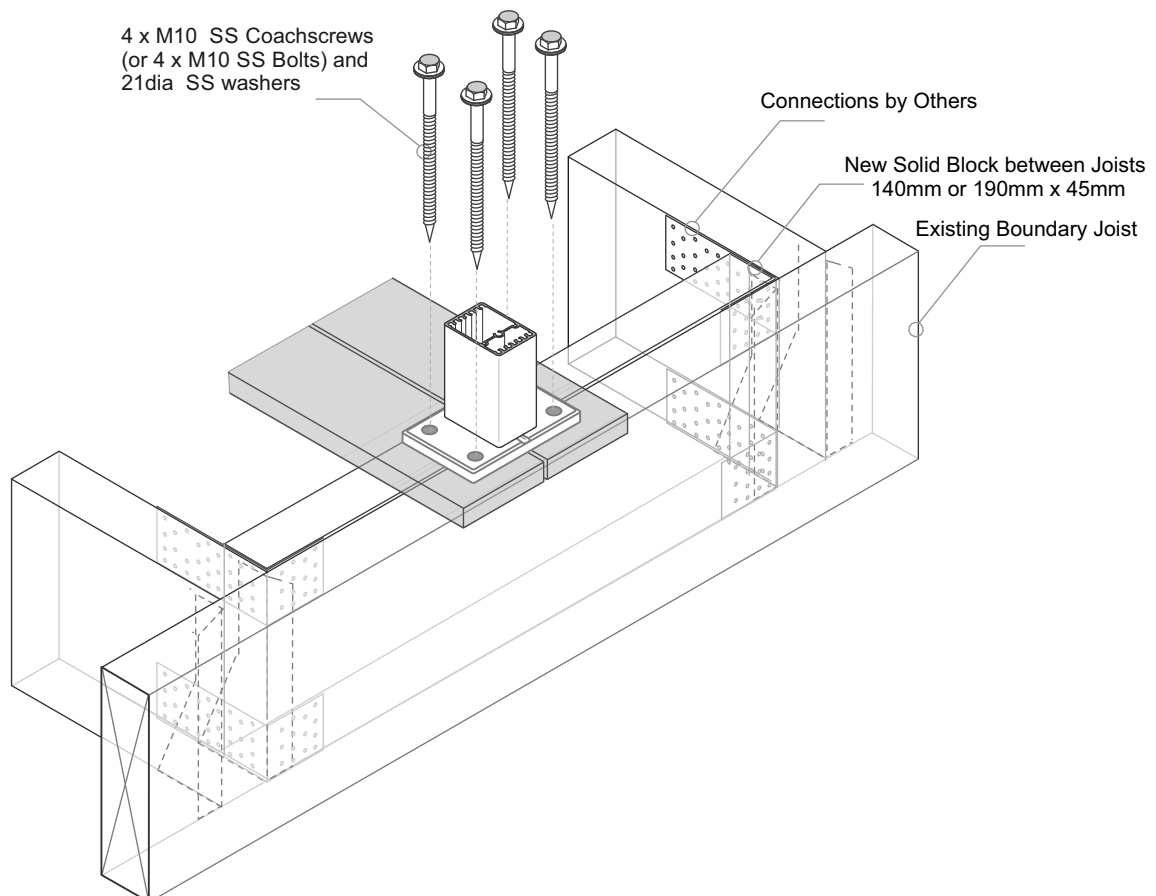


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 150mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKa Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.



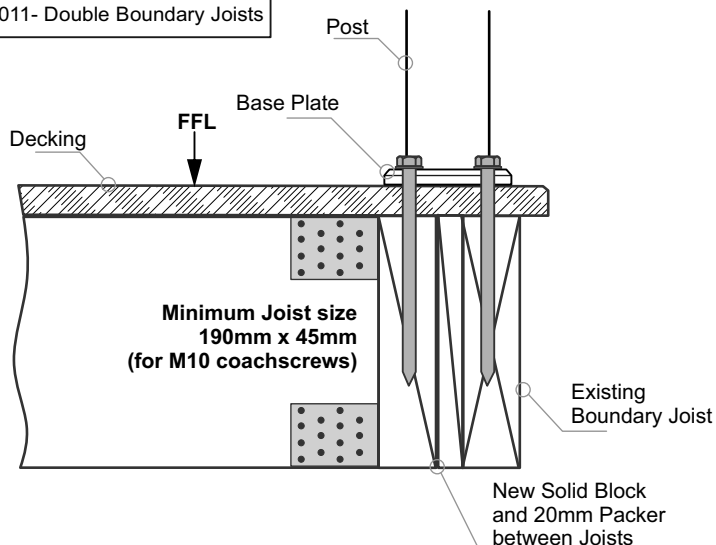
Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical TOP Fix to Timber - JEC 200, 110mm x 100mm, 4 hole Base Plate - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm	
	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1400
1050	1350	1350
1100	1300	1300
1150	1250	1250
1200	1200	1200
1250	1150	1150
1300	1100	1100
1350	1050	1050
1400	950	950
1450	900	900
1500	850	850

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists

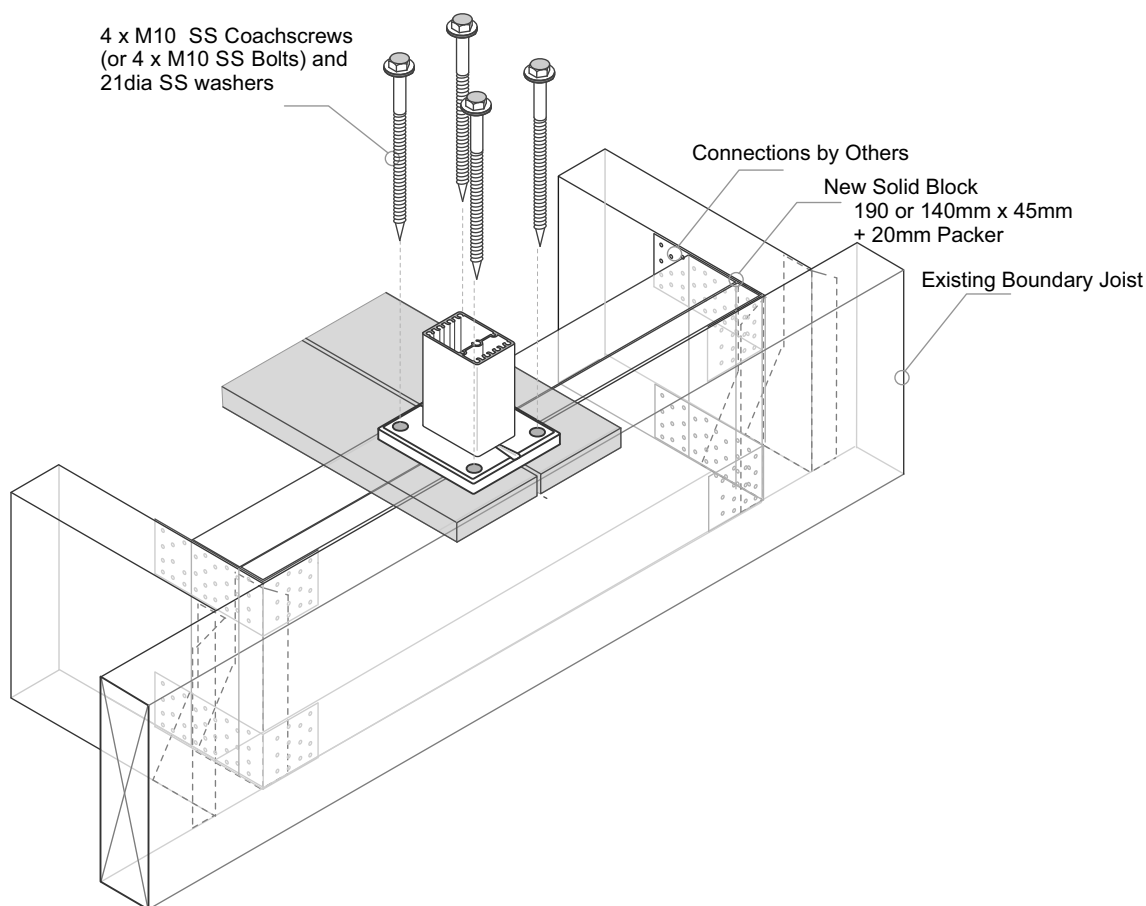


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from bottom of base plate
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm of solid spacers between base plate and structure including decking

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 150mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKA Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.



JURALCO

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Juralco EDGE® Balustrade Systems

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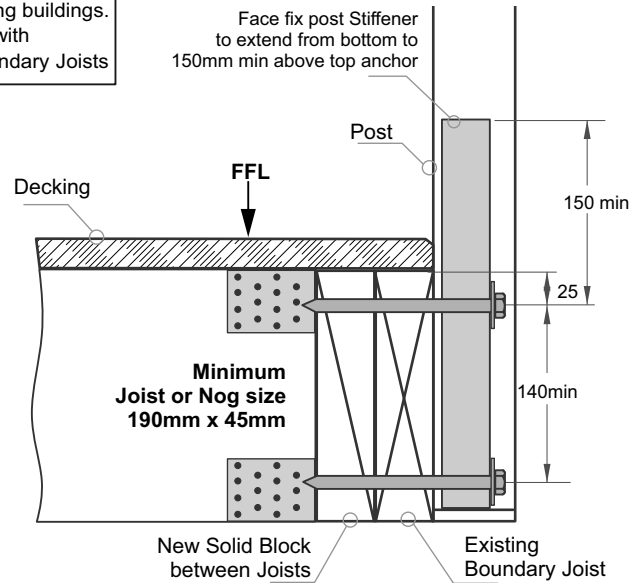
Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical FACE Fix Post to Timber - M10 SS Coachscrews

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm	
	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1450
1050	1400	1400
1100	1350	1350
1150	1300	1300
1200	1250	1250
1250	1200	1200
1300	1100	1150
1350	1050	1100
1400	950	950
1450	900	900
1500	850	850

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists

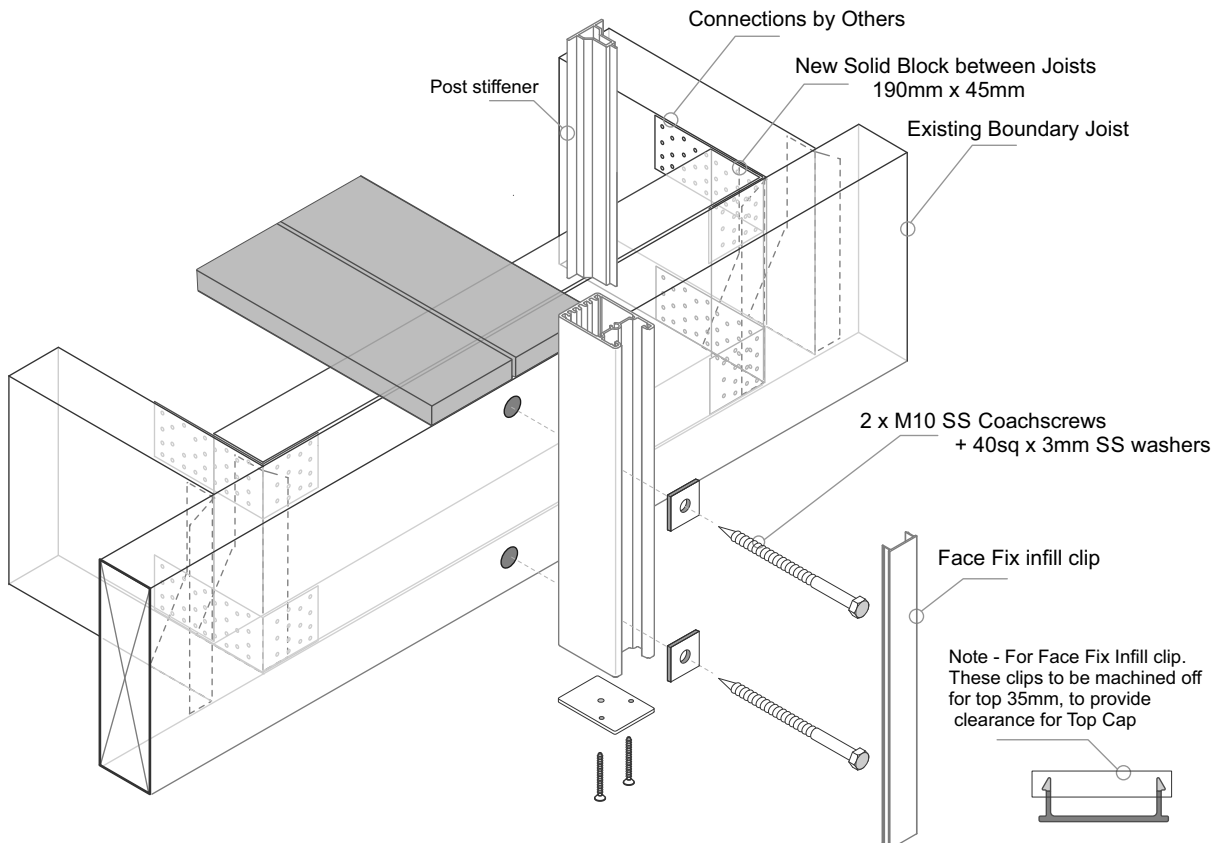


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm JVB spacer

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 90mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKa Supergrip to full depth
- 5 - All Fixings must be Stainless steel
- 6 - Minimum 5 x Diameter end distance to be provided for all timber connections.



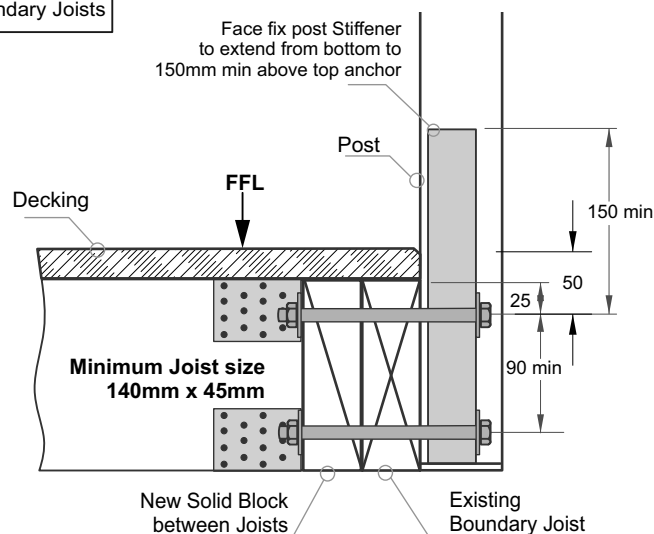
Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical FACE Fix Post to Timber - M10 SS Bolts or Threaded Rod

Balustrade Dimensions by Wind Zone.

	Post Spacing max, mm	
Balustrade Height (mm)	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1400	1450
1050	1350	1400
1100	1300	1350
1150	1250	1300
1200	1200	1250

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists

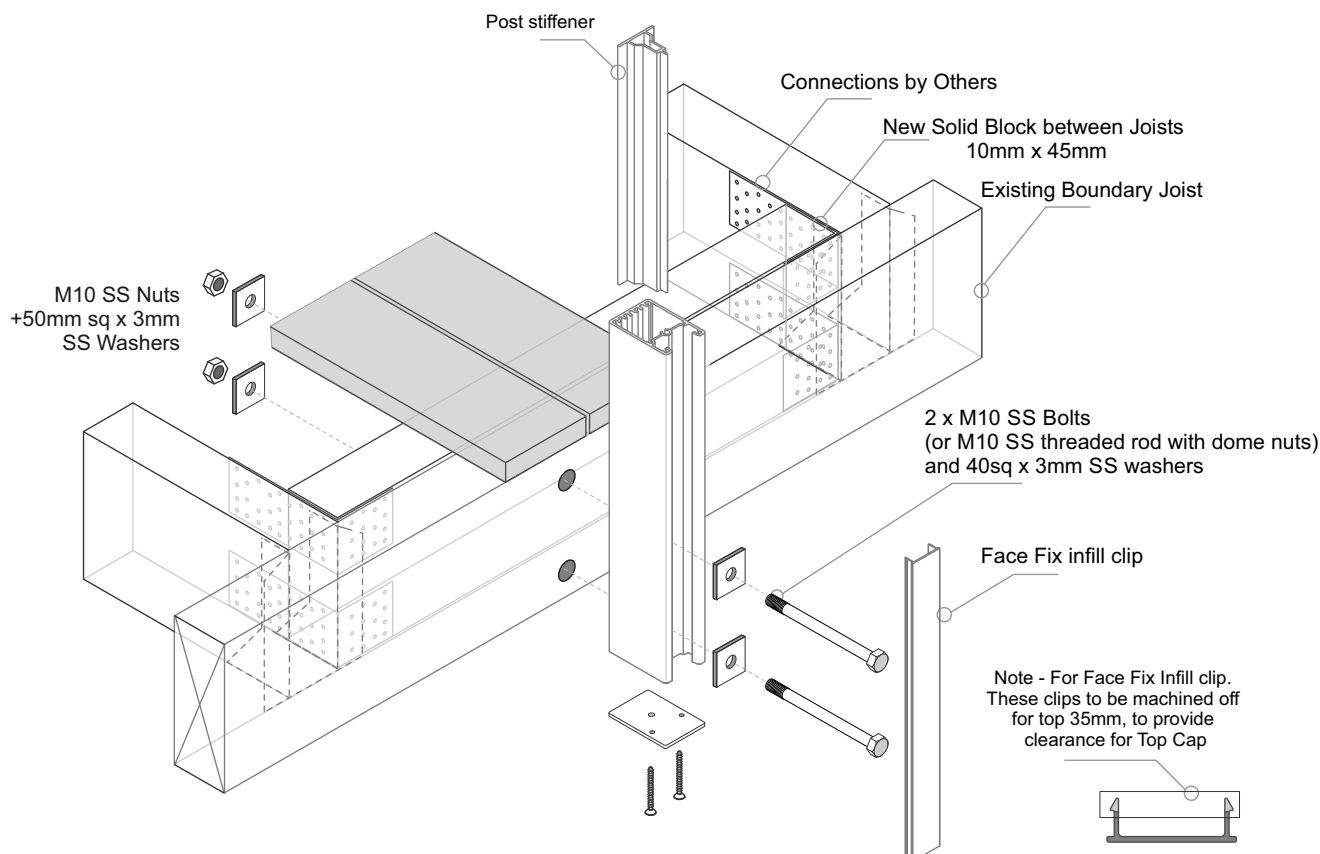


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm JVB spacer

Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. New Timber SG8 minimum strength
- 3 - All Fixings must be Stainless steel
- 4 - Minimum 5 x Diameter end distance to be provided for all timber connections.
- 5 - Internal application only



Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Coachscrews

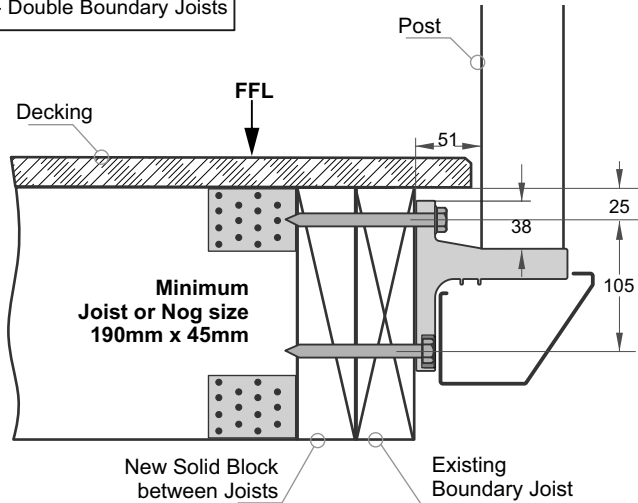
Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm	
	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1450
1050	1400	1400
1100	1350	1350
1150	1300	1300
1200	1250	1250
1250	1200	1200
1300	1100	1150
1350	1050	1100
1400	950	950
1450	900	900
1500	850	850

General Notes:

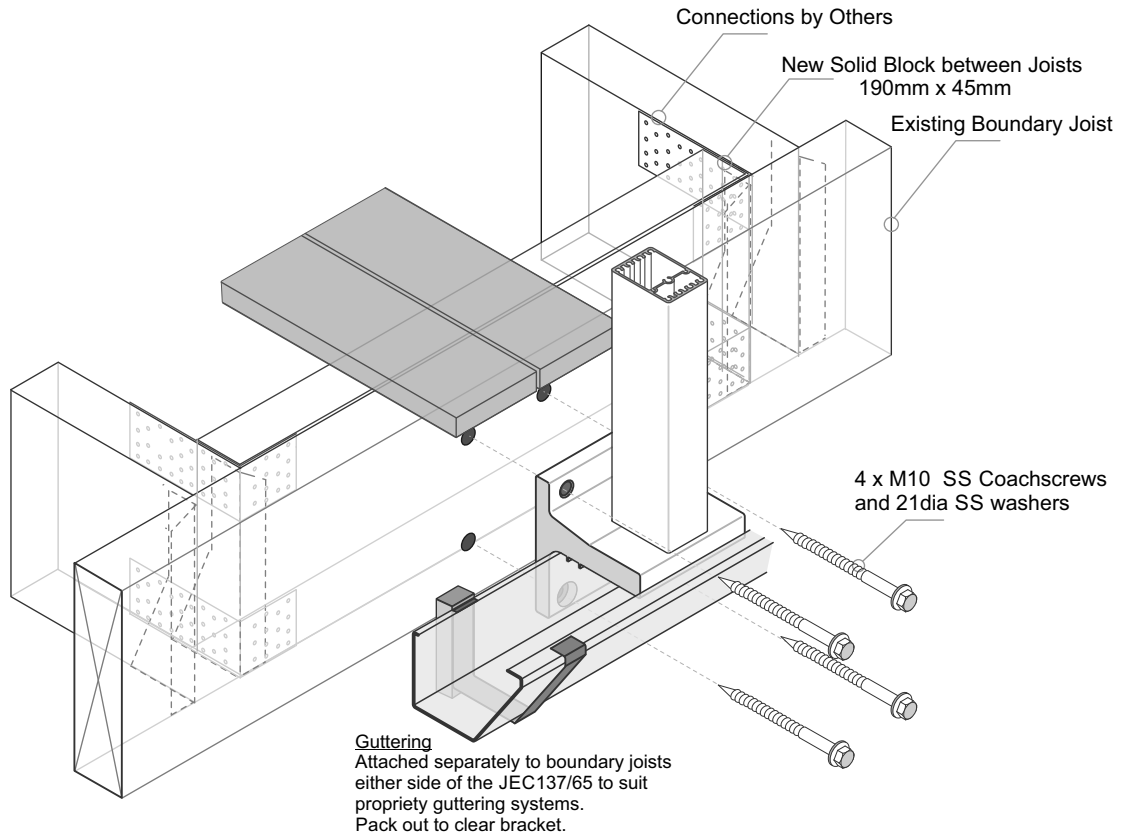
- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm JVB spacer

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists



Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. Timber SG8 minimum strength
- 3 - Coachscrews 90mm min engagement into joists, predrill 6mm holes.
- 4 - Bond all coachscrews with SIKA Supergrip to full depth
- 5 - All Fixings must be Stainless steel



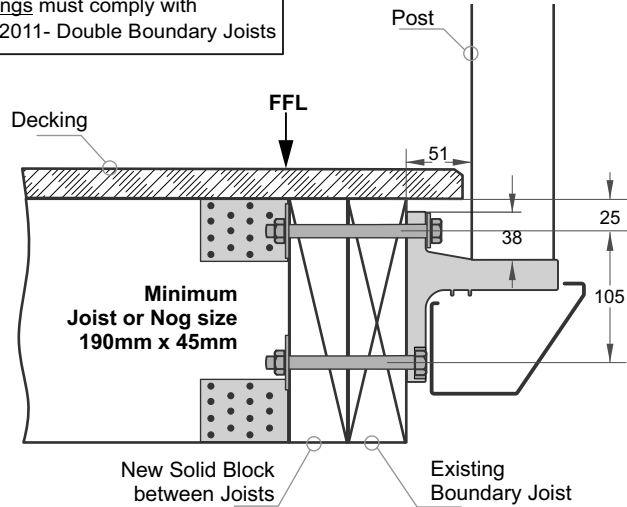
Juralco EDGE® Balustrade System - Typical Post Fixings
Pre NZS3604:2011 Connection. Single Boundary Joists

Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Bolts or Threaded Rod

Balustrade Dimensions by Wind Zone.

Balustrade Height (mm)	Post Spacing max, mm	
	Glass/Solid Infill (Up to Very High Wind)	Up to 50% Closed Infill (Up to Extra High Wind)
1000	1450	1450
1050	1400	1400
1100	1350	1350
1150	1300	1300
1200	1250	1250
1250	1200	1200
1300	1100	1150
1350	1050	1100
1400	950	950
1450	900	900
1500	850	850

The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011- Double Boundary Joists

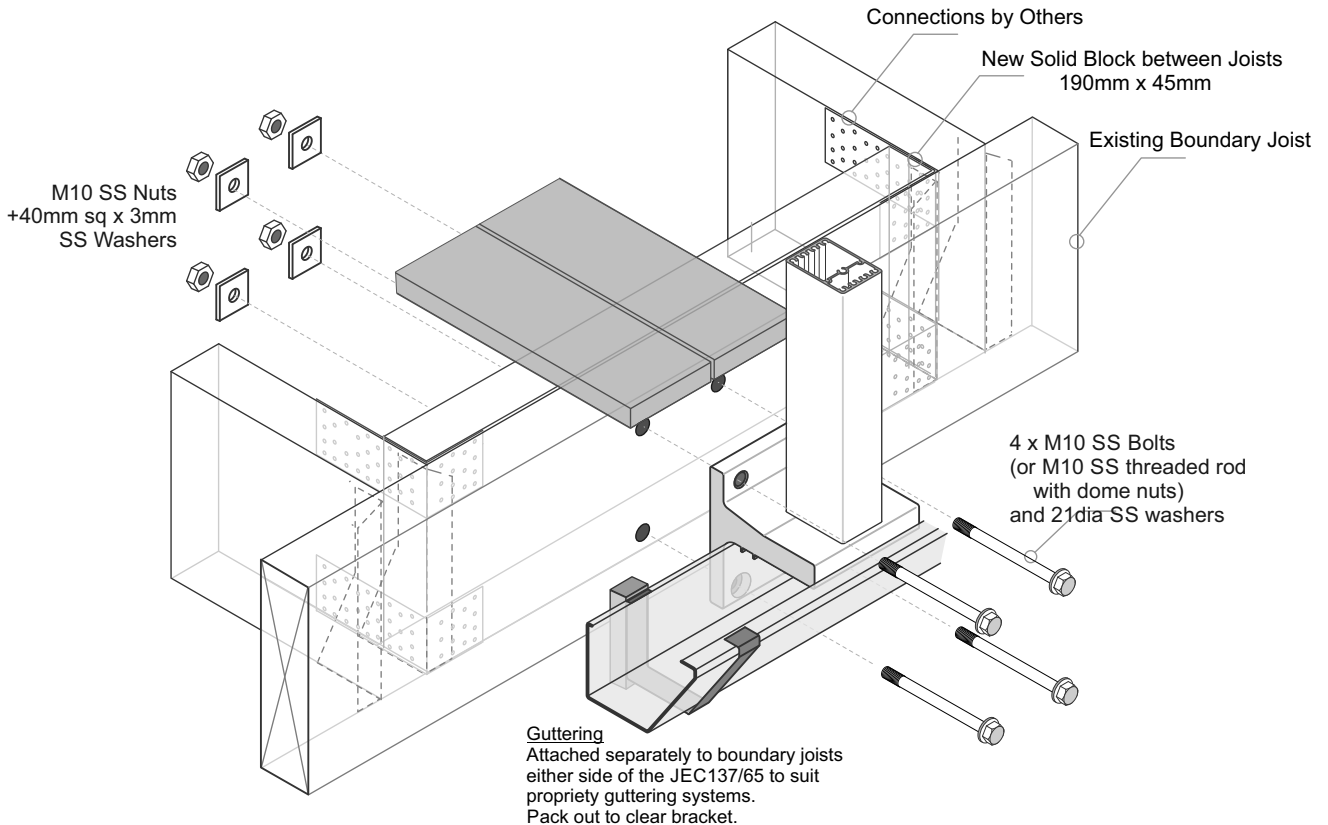


General Notes:

- 1 - Applicable to occupancy types A, B, C3 & E
- 2 - All measurements in 'mm'
- 3 - Balustrade measurement taken from top fixing
- 4 - Wind Zones as per NZS3604:2011
- 5 - Maximum 60mm JVB spacer

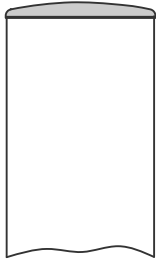
Important Installation notes:

- 1 - The Project Engineer must ensure the structure can support the appropriate loads
- 2 - Substructure shown indicatively only. New Timber SG8 minimum strength
- 3 - All Fixings must be Stainless steel



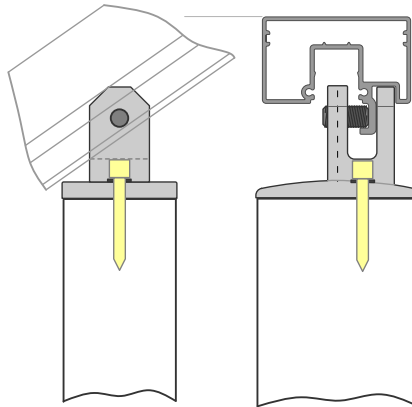
Post Caps - no swivel/clamp

Use for 10mm Toughened Glass with Handrail, or 13.2mm Laminated Glass with no Handrail. Top Protection Cap recommended



All tap fit

Post Caps - with swivel/clamp - to Handrail

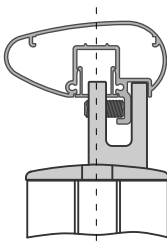
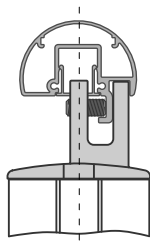
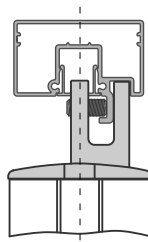
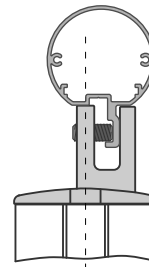
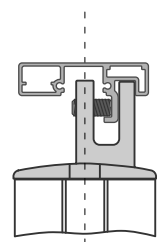


Attach from top with special 14g dia x 50mm SS PK Capscrew

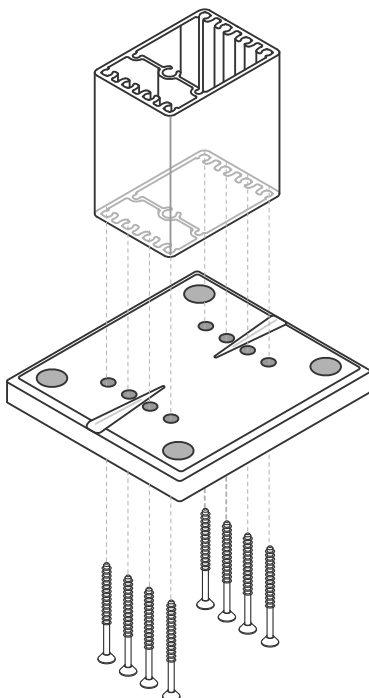
Showing 35deg max inclination - for all handrails

Handrail Attach

All handrails fixings identical - clamp attach with M8 grubscrew

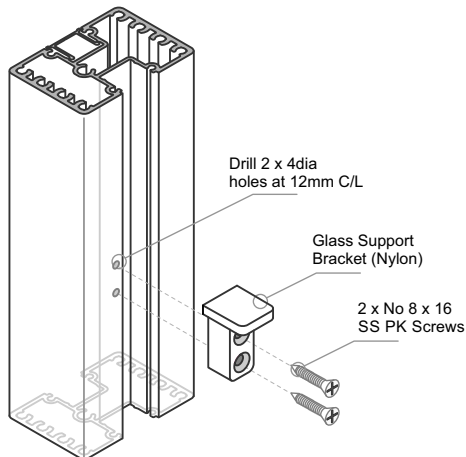


Baseplate to Post Attach



JVBHT SCREW/ 50 x 10
C/S PK SQ drive high tensile screws

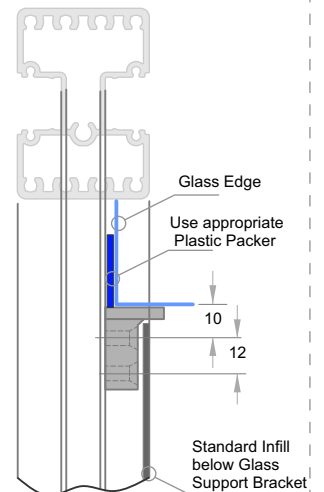
Glass Support Attach



Drill 2 x 4dia holes at 12mm C/L

Glass Support Bracket (Nylon)

2 x No 8 x 16 SS PK Screws

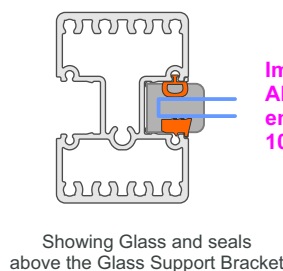


Glass Edge

Use appropriate Plastic Packer

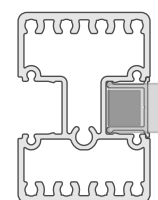
10
12

Standard Infill below Glass Support Bracket



Showing Glass and seals above the Glass Support Bracket

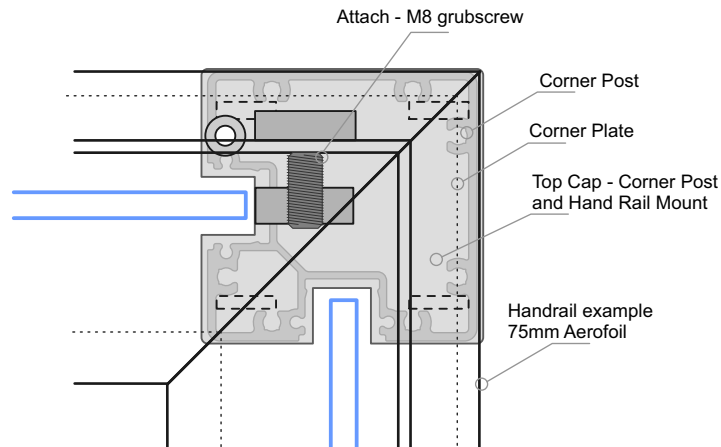
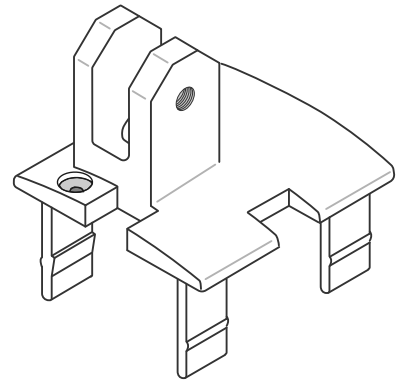
Important Note:
All Glass engagement 10mm min



Showing Standard Infill below Glass Support Bracket

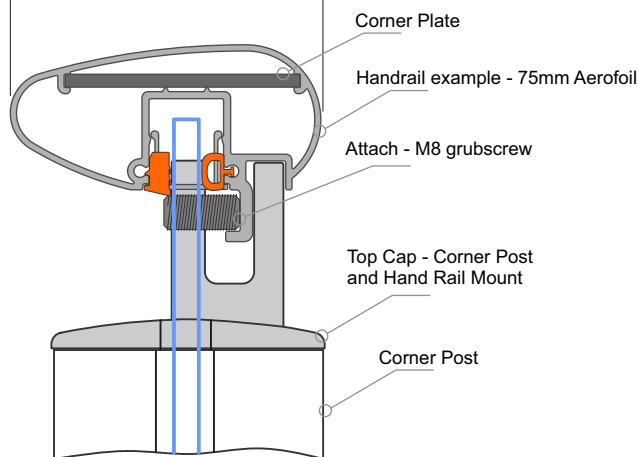
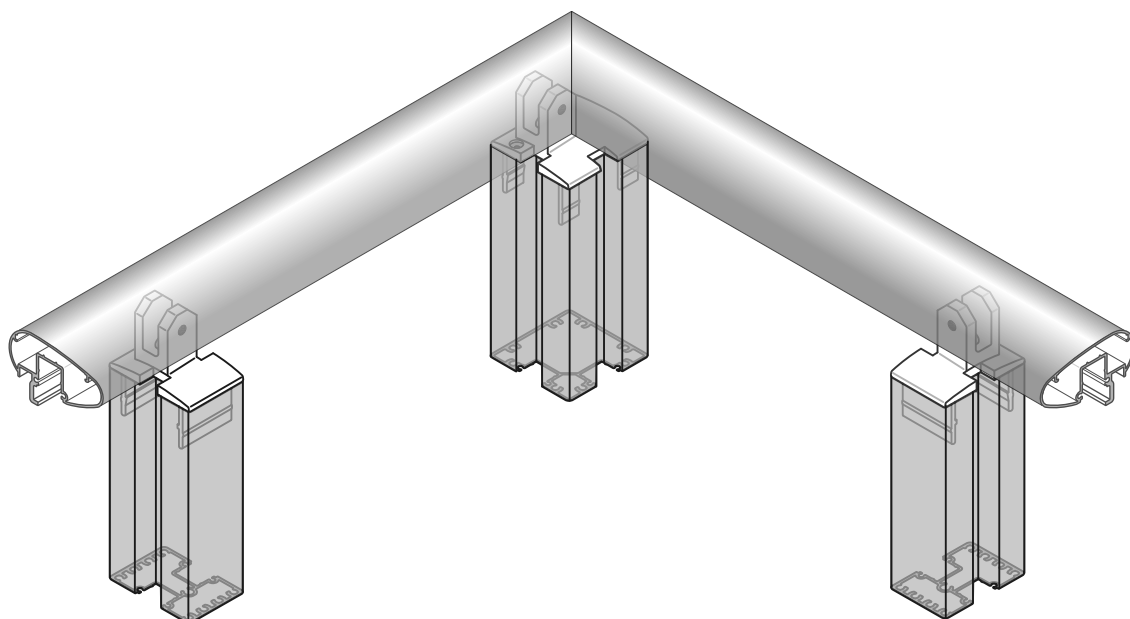
Handrail Attach at Corner Post

All handrails fixings identical - clamp attach with M8 grubscrew



Plan view above, looking down through
1 - Hand rail
2 - Top Cap/Handrail Corner Mount
3 - Corner Post

Important Note:
All Glass Engagements
10mm min

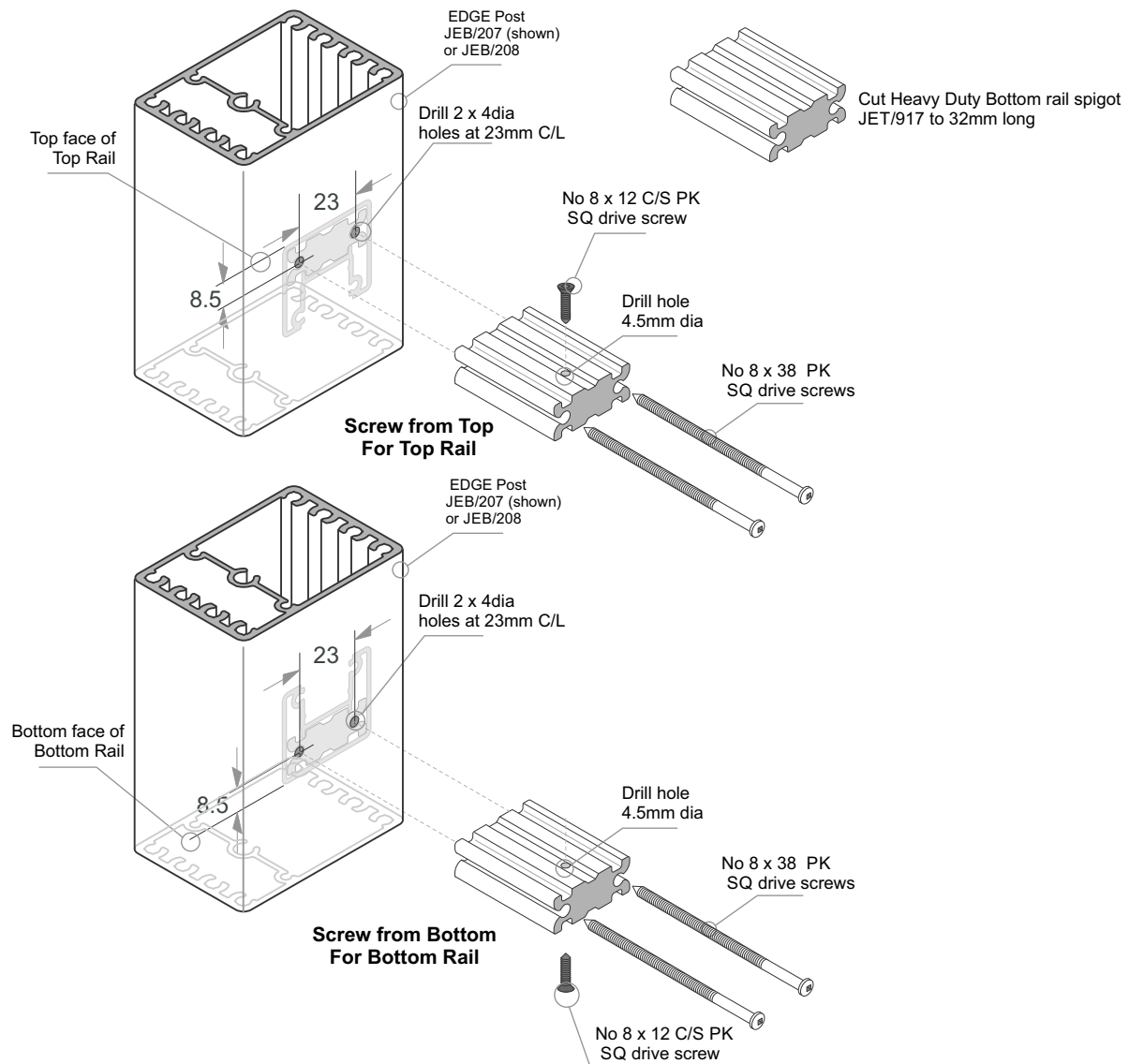
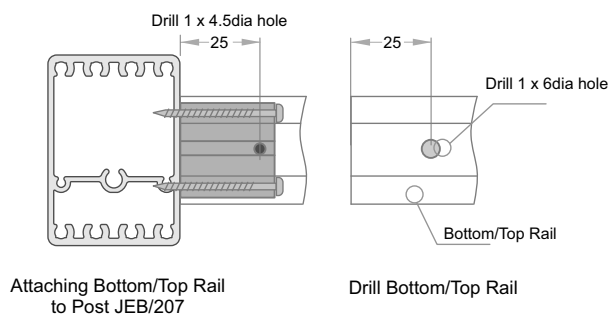
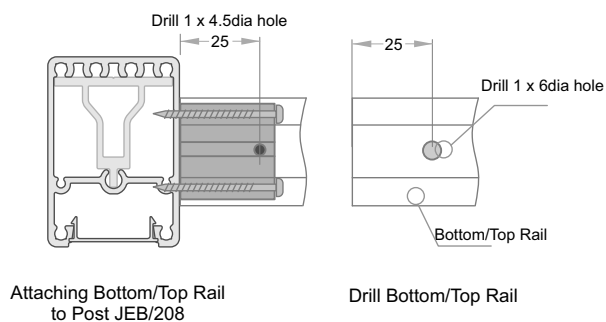


General Connections

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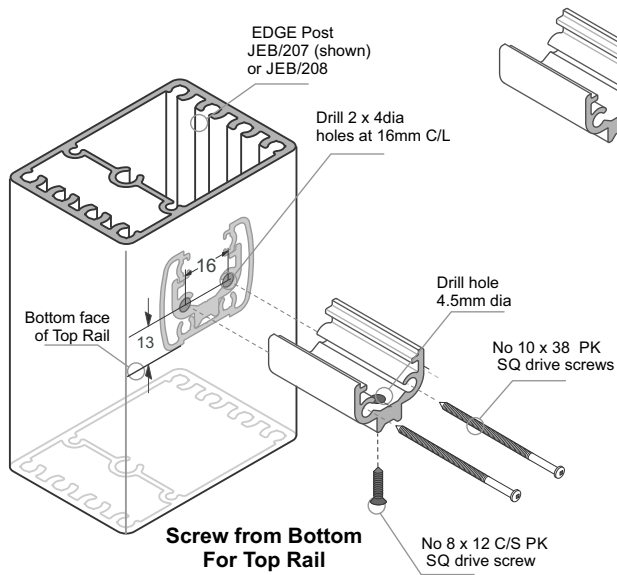
Bottom Rail to Post Attach

Heavy Duty Bottom Rail Spigot JET/917/5
(NOT Suitable Semi Frameless Posts)

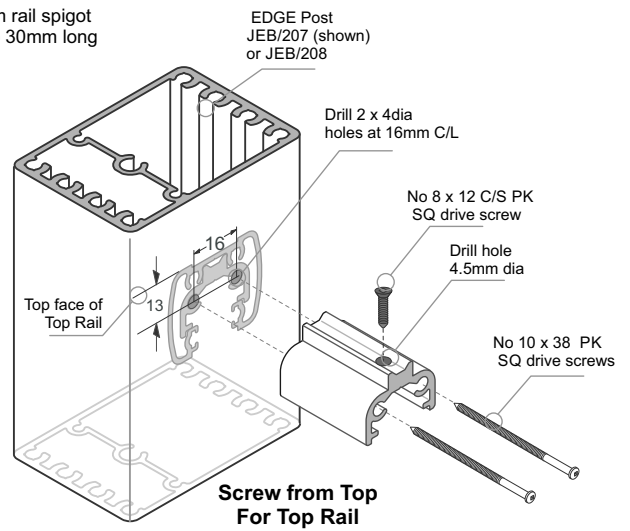
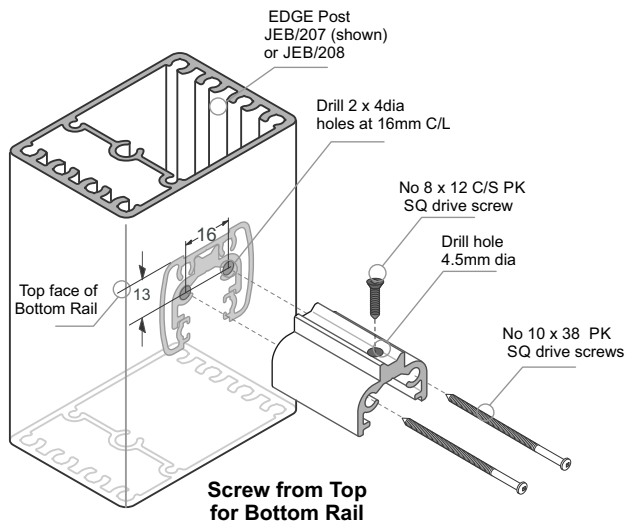
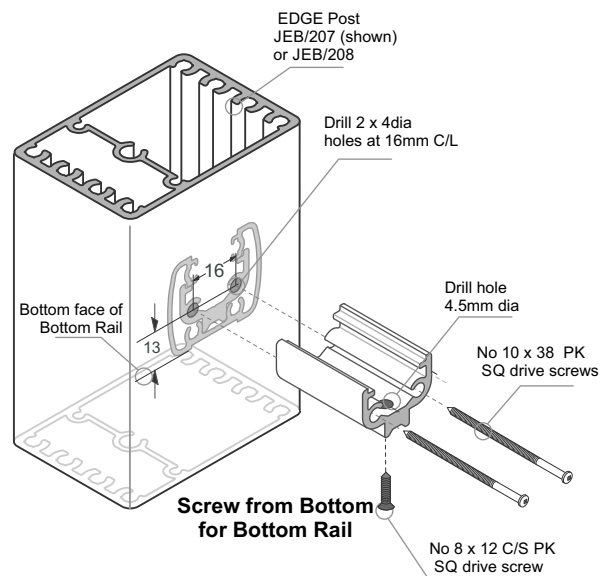


Bottom Rail to Post Attach (Viking Components)

Viking Bottom Rail Spigot JVB017
(NOT Suitable Semi Frameless Posts)

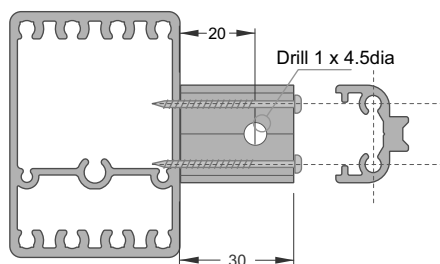


Cut Bottom rail spigot JVB017 to 30mm long

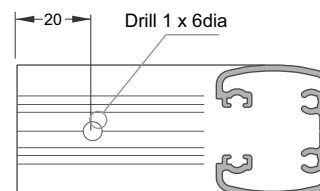


This Setout for Baluster Installations

This Setout for Glass Installations

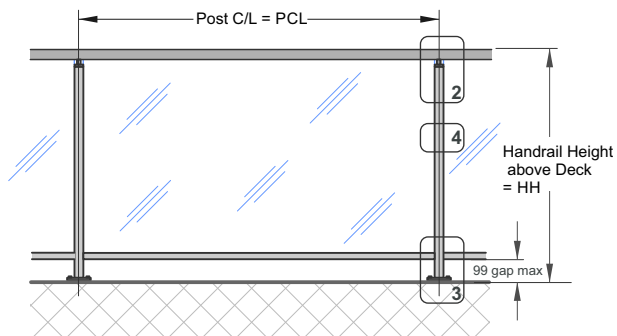


Attaching Bottom or Top Rail
TOP Fix Edge Post. PN JEB/207/5
or FACE Fix Edge Post. PN JEB/208/5
Not suitable for Semiframeless Posts

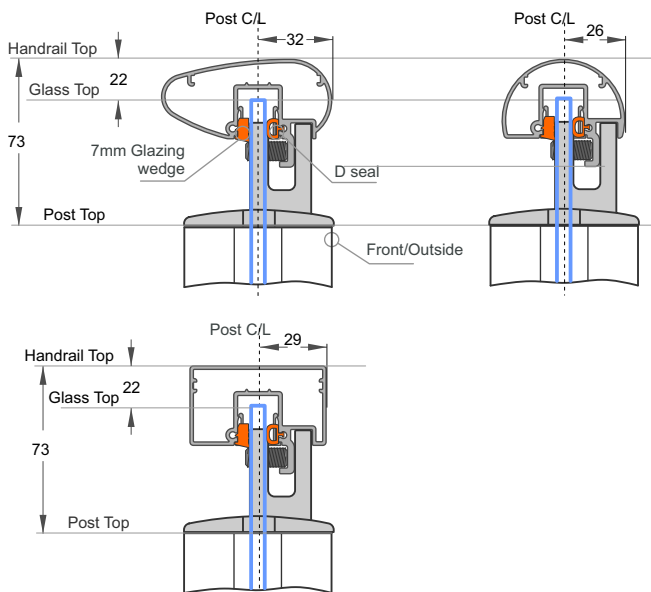


Drill Bottom Rail, Top rail if needed

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

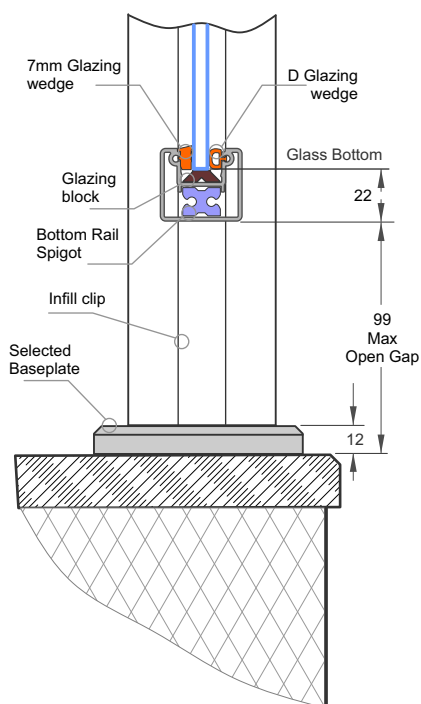


2 - Handrail - Offsets

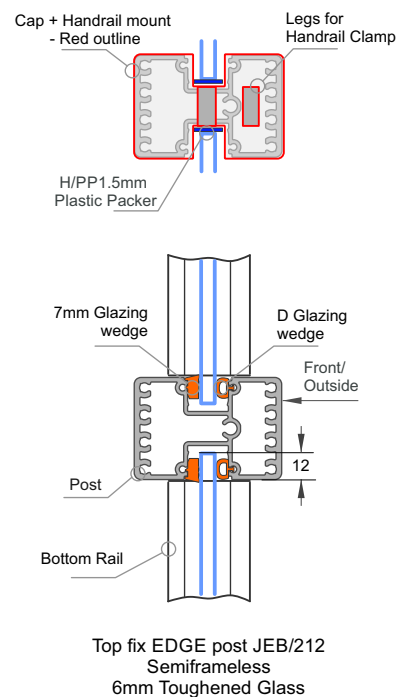


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets



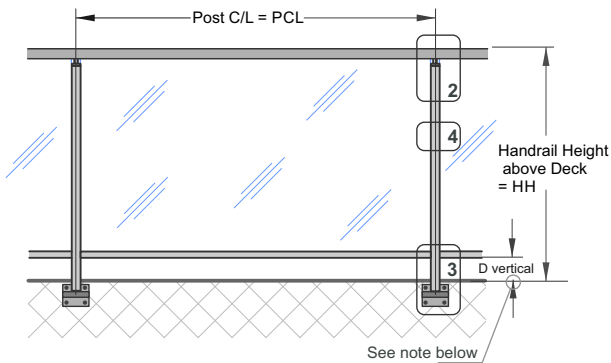
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 2 \times 22 - 99 = HH - 143$
- e - 6mm Glass width
= $PCL - 2 \times 12 = PCL - 24$
or tight distance between posts
at deck level + 24mm

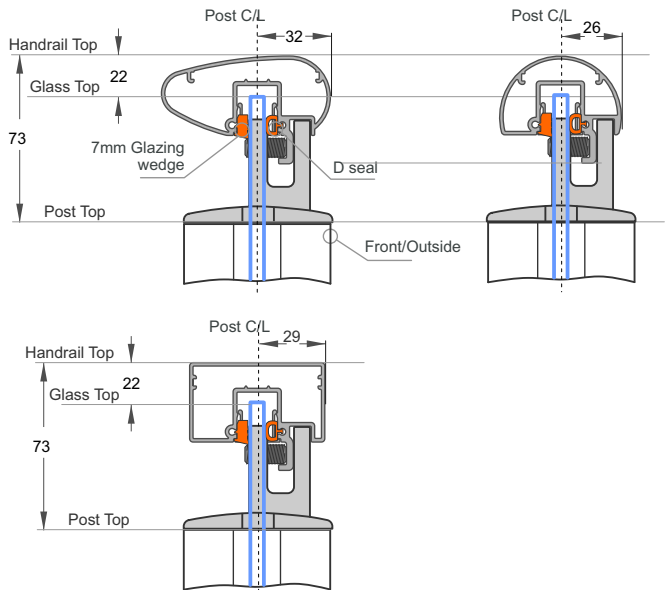
Juralco EDGE® Balustrade System - Design Details

6mm Toughened Glass - Fully Framed. Handrail + Bottom Rail. Gutter Brkt Face Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

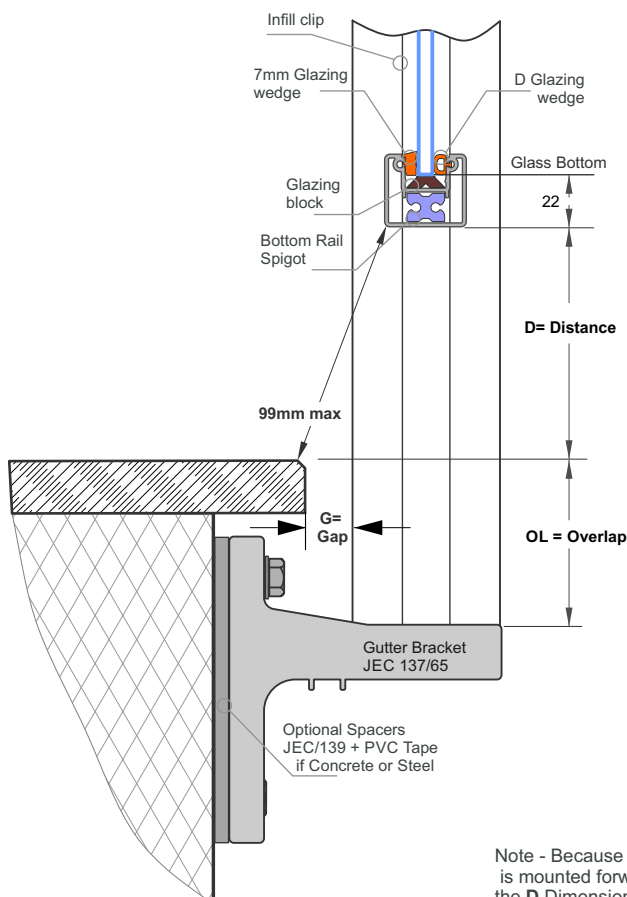


2 - Handrail - Offsets



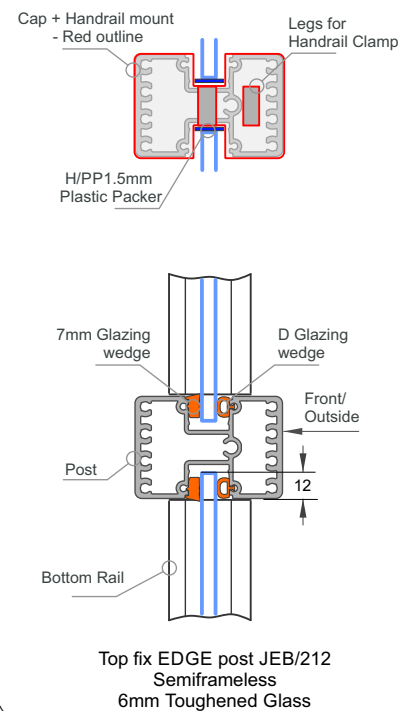
Important Note: All Glass Engagements 10mm min

3 - Height offsets



D max values for a 99mm Opening to the deck
 G Gap = 10mm, D = 96mm
 G Gap = 20mm, D = 92mm
 G Gap = 30mm, D = 88mm
 G Gap = 40mm, D = 82mm
 G Gap = 50mm max, D = 75mm

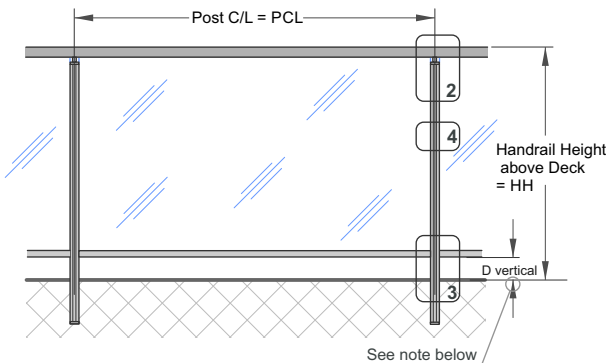
4 - Glass, Width Offsets



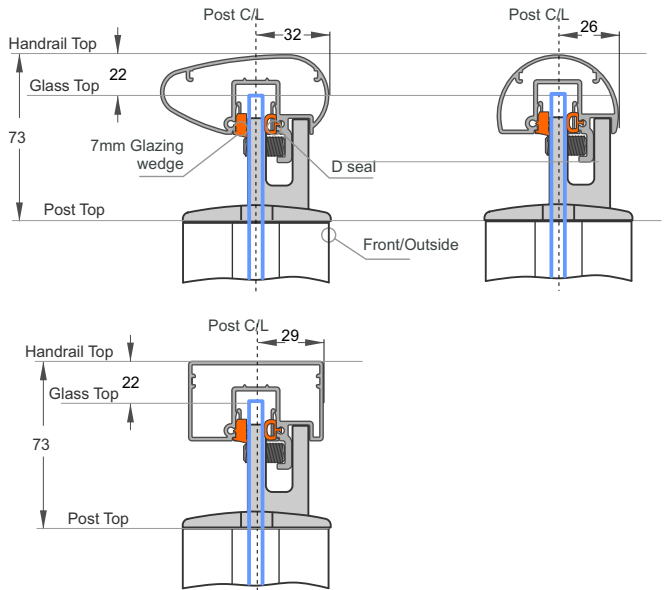
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 6mm Glass height
= HH-2x22-99 = HH - 143
- e - 6mm Glass width
= PCL- 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

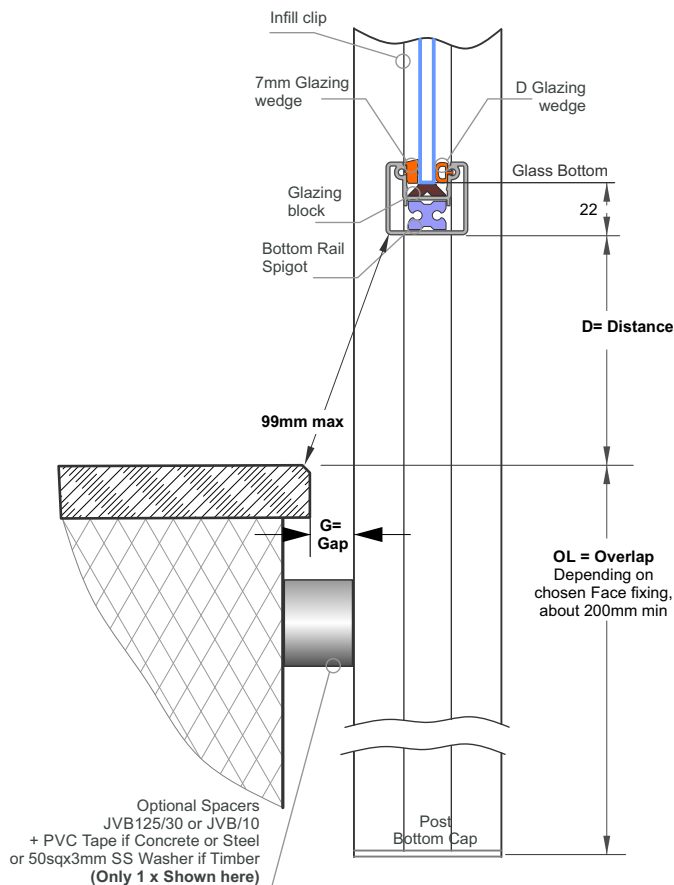


2 - Handrail - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets



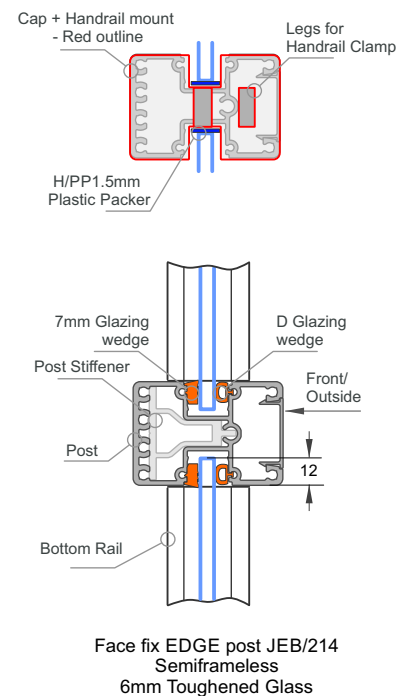
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm,	D = 96mm
G Gap = 20mm,	D = 92mm
G Gap = 30mm,	D = 88mm
G Gap = 40mm,	D = 82mm
G Gap = 50mm max,	D = 75mm

4 - Glass, Width Offsets



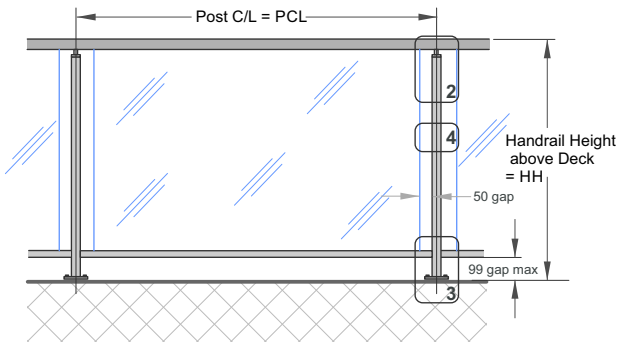
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 + OL$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 2 \times 22 - D = HH - 44 - D$
- e - 6mm Glass width
= $PCL - 2 \times 12 = PCL - 24$
or tight distance between posts
at deck level + 24mm

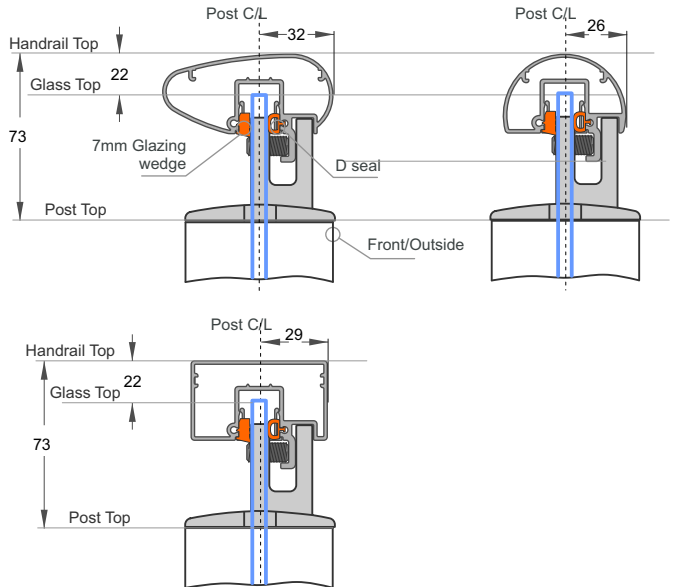
Juralco EDGE® Balustrade System - Design Details

6mm Toughened Glass - Full Height. Handrail + Bottom Rail. Top Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

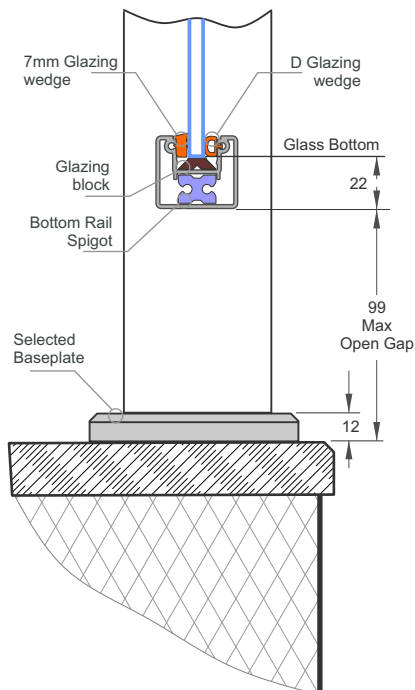


2 - Handrail - Offsets

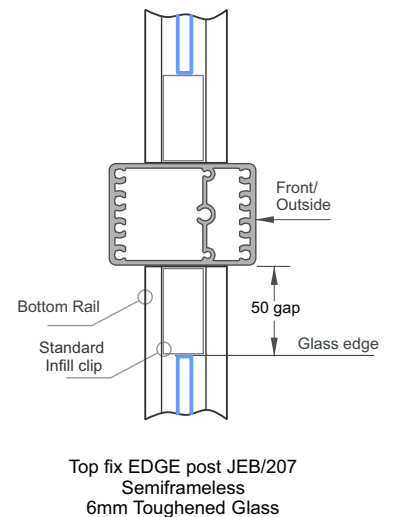


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets



Top fix EDGE post JEB/207
Semiframeless
6mm Toughened Glass

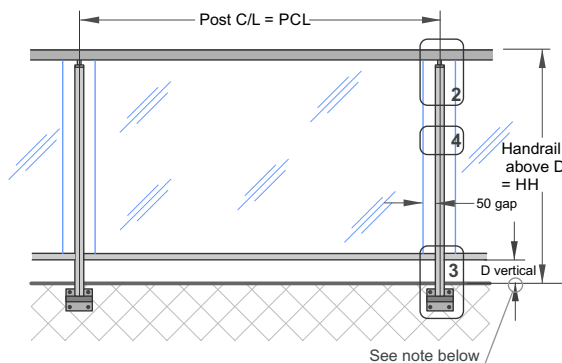
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 2 \times 22 - 99 = HH - 143$
- e - 6mm Glass width
= $PCL - 2 \times 22.5 - 2 \times 50 = PCL - 145$

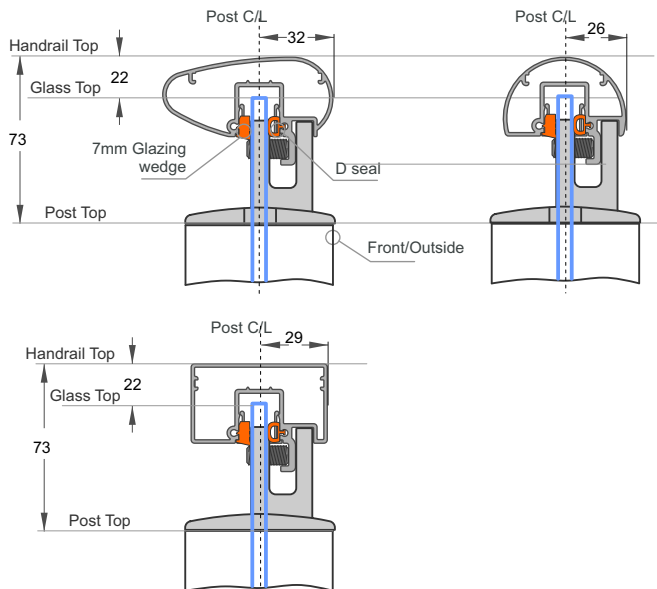
Juralco EDGE® Balustrade System - Design Details

6mm Toughened Glass- Full Height. Handrail + Bottom Rail. Gutter Brkt Face Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

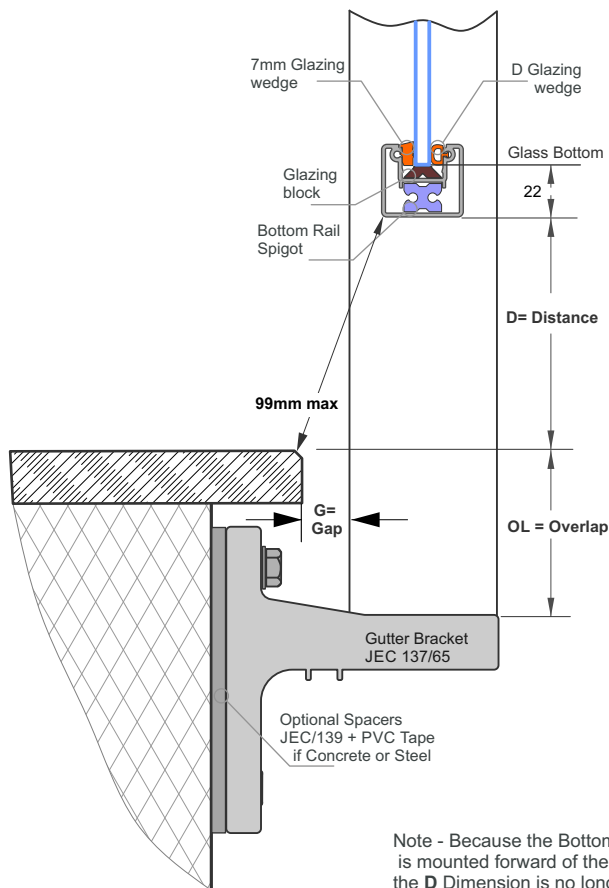


2 - Handrail - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets

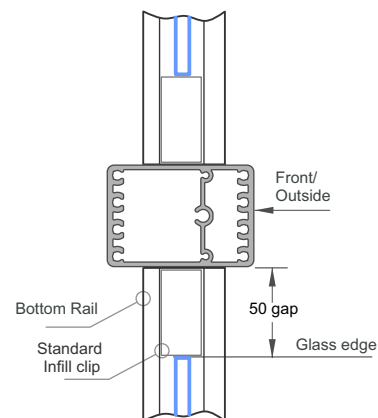


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm,	D = 96mm
G Gap = 20mm,	D = 92mm
G Gap = 30mm,	D = 88mm
G Gap = 40mm,	D = 82mm
G Gap = 50mm max,	D = 75mm

4 - Glass, Width Offsets

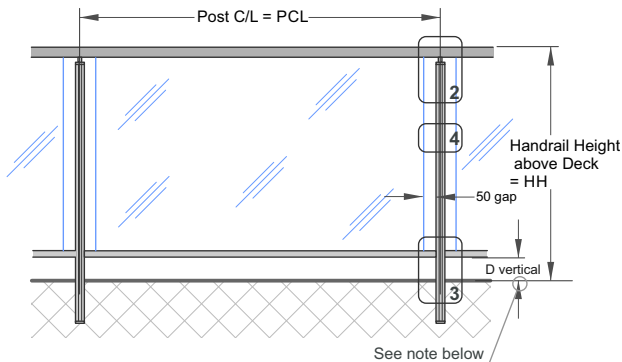


Top fix EDGE post JEB/207
Semiframeless
6mm Toughened Glass

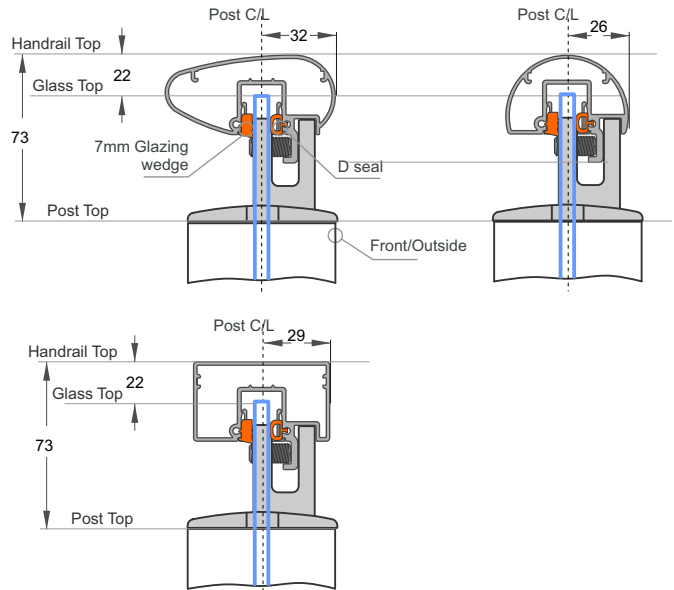
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 + OL$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 2 \times 22 - D = HH - 44 - D$
- e - 6mm Glass width
= $PCL - 2 \times 22.5 - 2 \times 50 = PCL - 145$

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

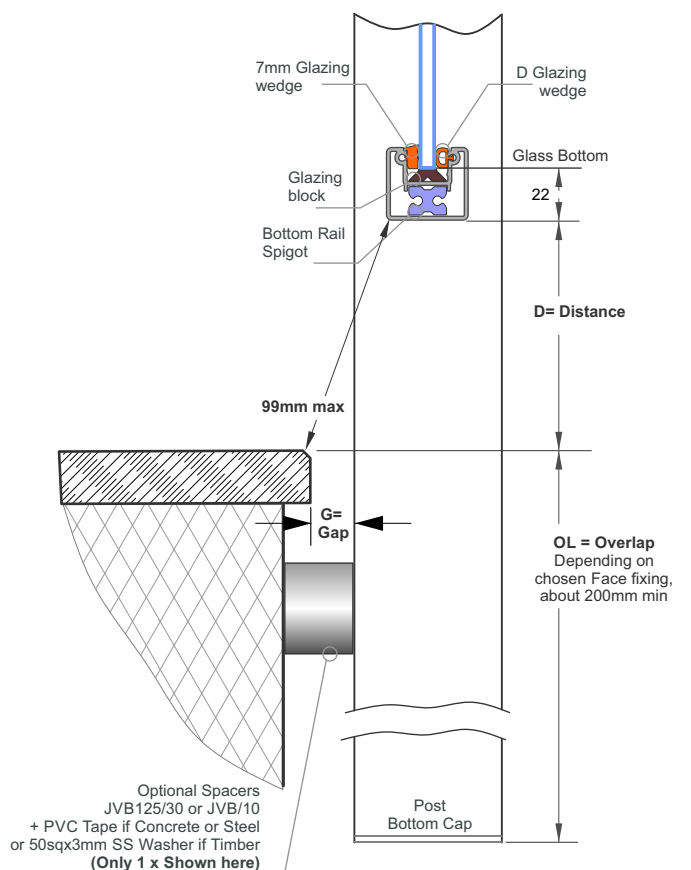


2 - Handrail - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets



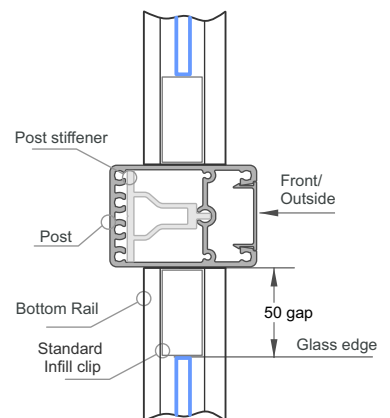
Note - Because the Bottom Rail is mounted forward of the Deck Edge the **D** Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm
G Gap = 20mm, D = 92mm
G Gap = 30mm, D = 88mm
G Gap = 40mm, D = 82mm
G Gap = 50mm max, D = 75mm

4 - Glass, Width Offsets

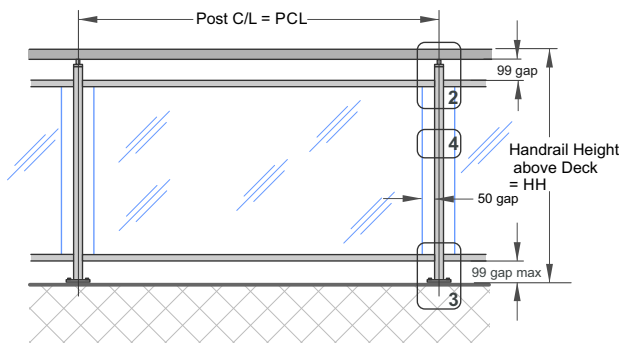


Face fix EDGE post JEB/208
Semiframeless
6mm Toughened Glass

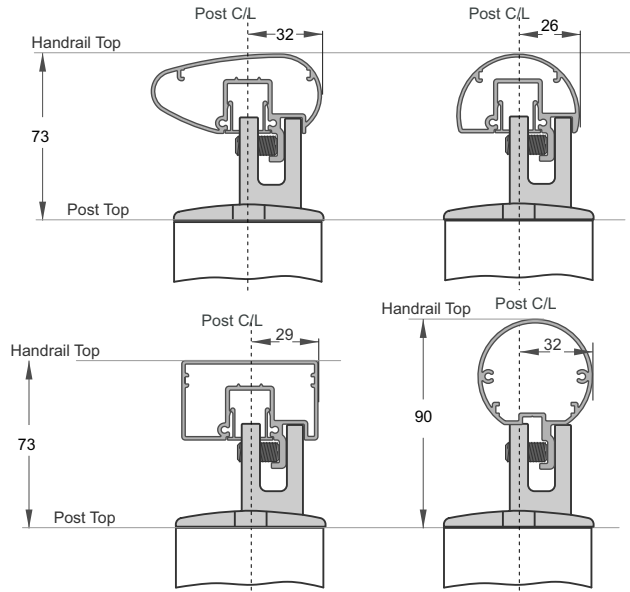
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 6mm Glass height
= HH-22-D = HH - 44 - D
- e - 6mm Glass width
= PCL-2x22.5-2x50 = PCL - 145

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

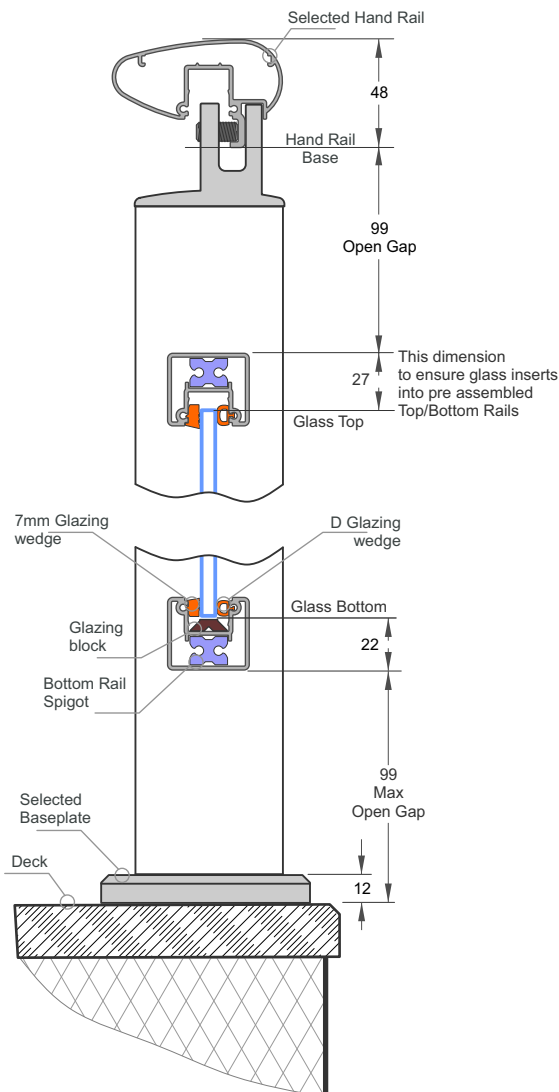


2 - Handrail - Offsets

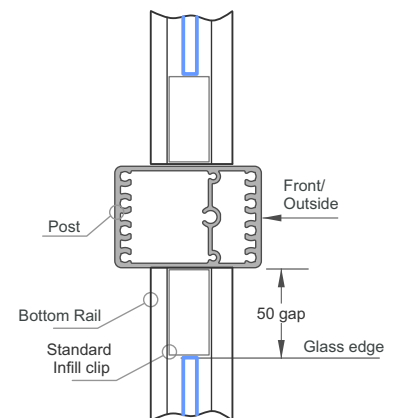


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets



Top fix EDGE post JEB/207
Semiframeless
6mm Toughened Glass

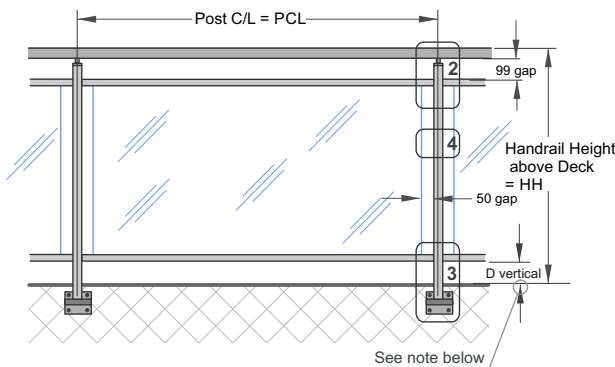
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - Bottom Rail (x2), Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 27 - 22 - 2 \times 99 - 48 = HH - 295$
- e - 6mm Glass width
= $PCL - 2 \times 22.5 - 2 \times 50 = PCL - 145$

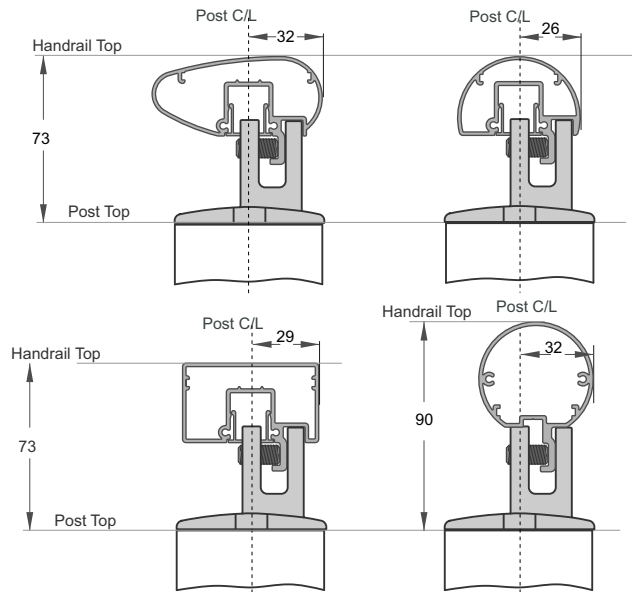
Juralco EDGE® Balustrade System - Design Details

6mm Toughened Glass - Full Height. Handrail + Split Rails. Gutter Brkt Face Fix

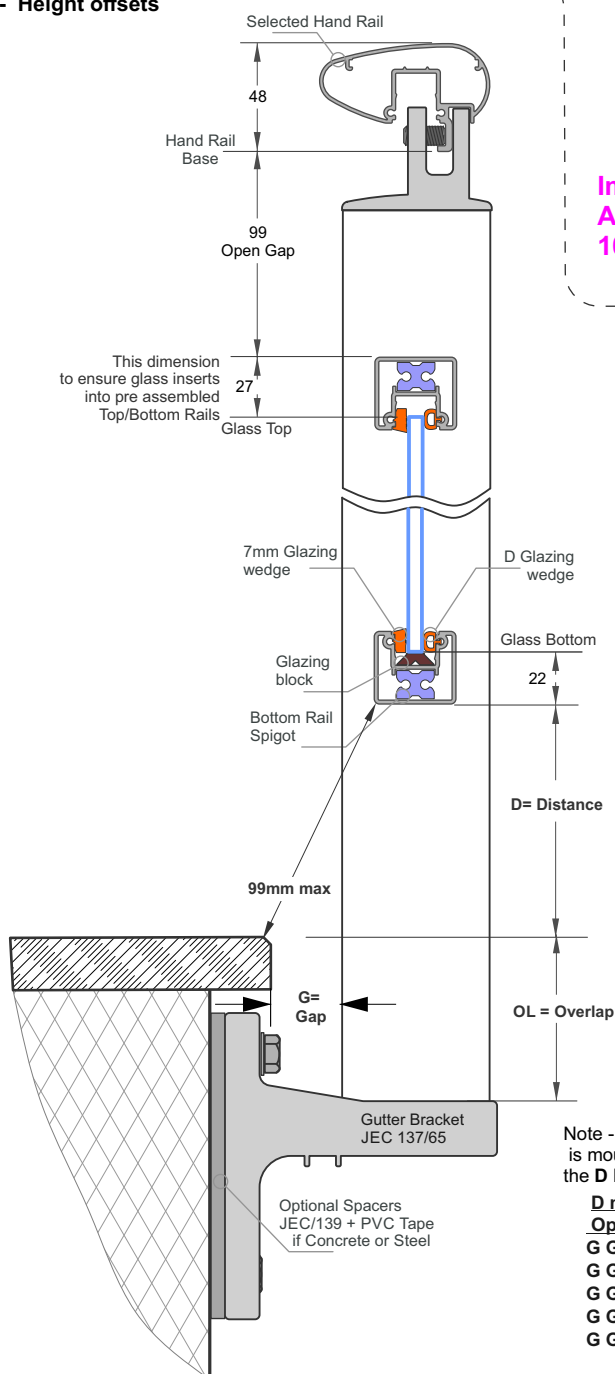
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets

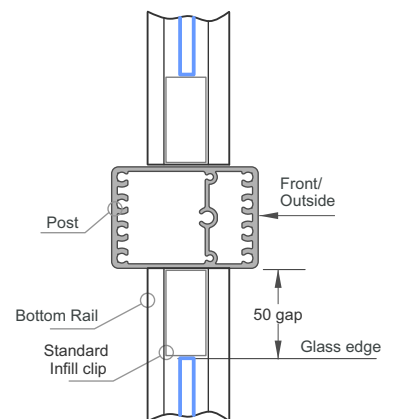


3 - Height offsets



Important Note:
All Glass Engagements
10mm min

4 - Glass, Width Offsets



Top fix EDGE post JEB/207
Semiframeless
6mm Toughened Glass

5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 + OL$
- c - Bottom Rail (x2), Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 48 - 27 - 22 - 99 - D = HH - 196 - D$
- e - 6mm Glass width
= $PCL - 2 \times 22.5 - 2 \times 50 = PCL - 145$

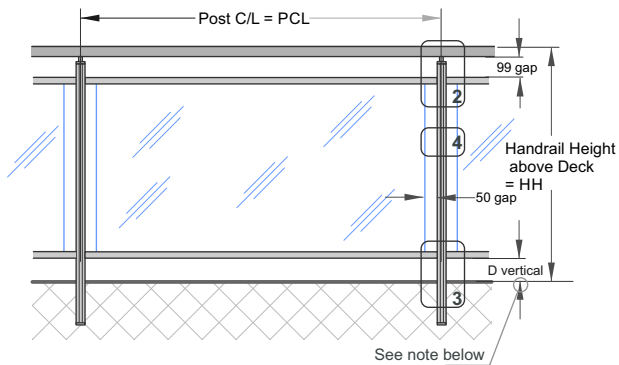
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

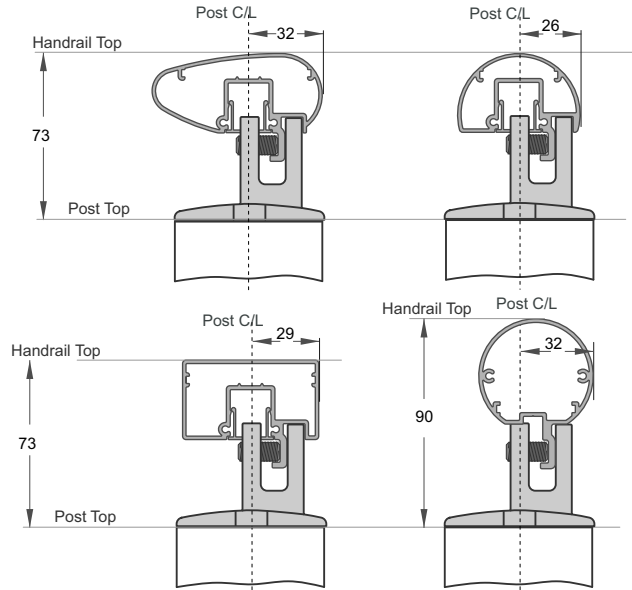
Opening to the deck

- G Gap = 10mm, D = 96mm
- G Gap = 20mm, D = 92mm
- G Gap = 30mm, D = 88mm
- G Gap = 40mm, D = 82mm
- G Gap = 50mm max, D = 75mm

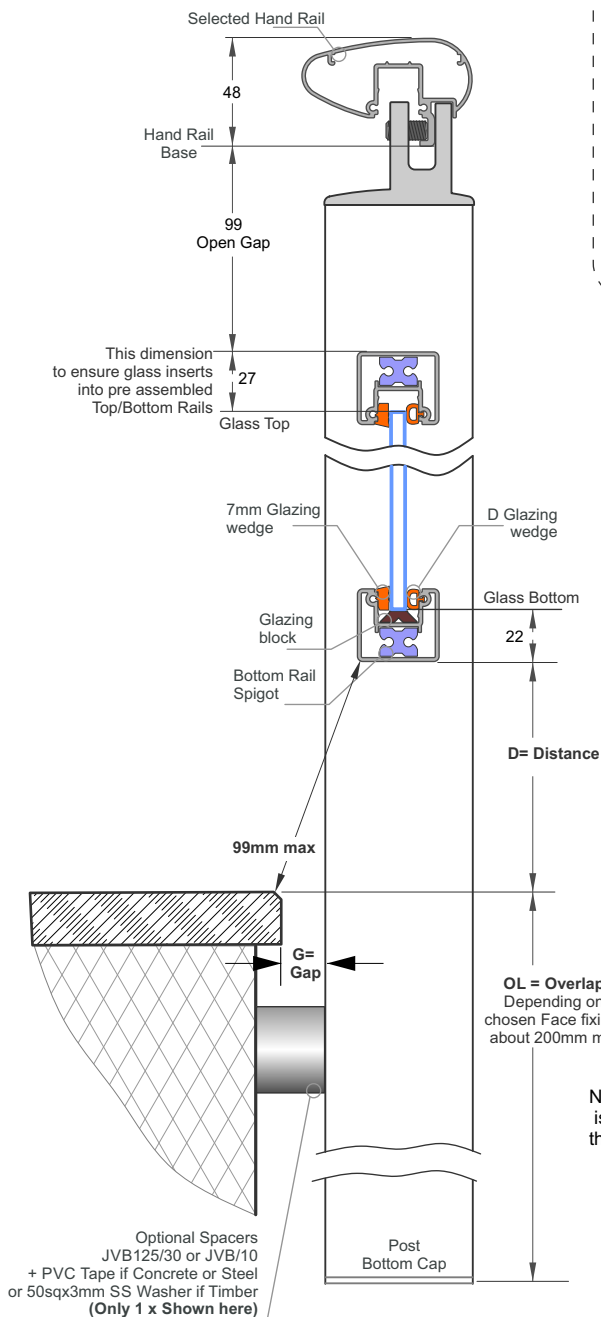
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets

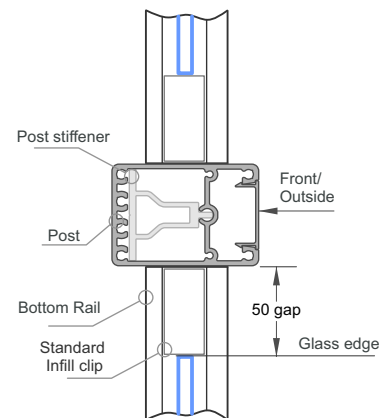


3 - Height offsets



Important Note:
All Glass Engagements
10mm min

4 - Glass, Width Offsets



Face fix EDGE post JEB/208
Semiframeless
6mm Toughened Glass

5 - Cutting, nominal

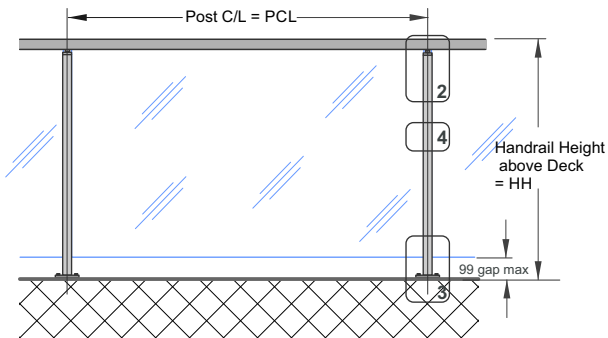
- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 + OL$
- c - Bottom Rail (x2), Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 6mm Glass height
= $HH - 48 - 27 - 22 - 99 - D = HH - 196 - D$
- e - 6mm Glass width
= $PCL - 2 \times 22.5 - 2 \times 50 = PCL - 145$

Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

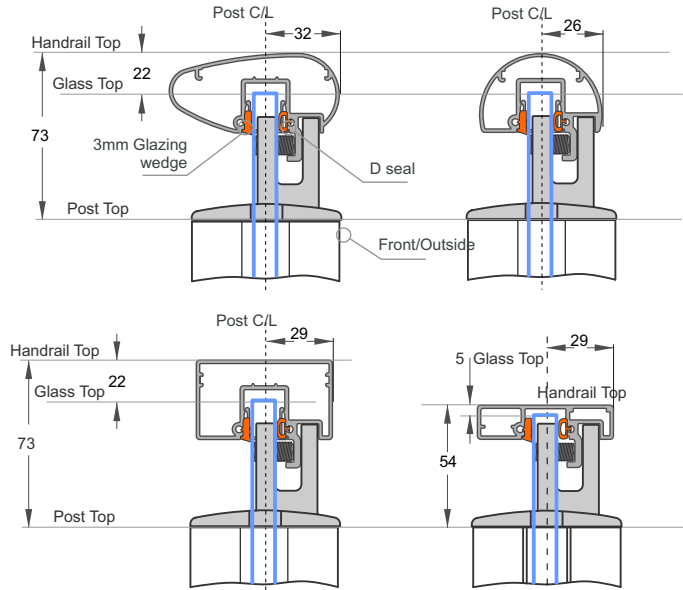
G Gap = 10mm,	D = 96mm
G Gap = 20mm,	D = 92mm
G Gap = 30mm,	D = 88mm
G Gap = 40mm,	D = 82mm
G Gap = 50mm max,	D = 75mm

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



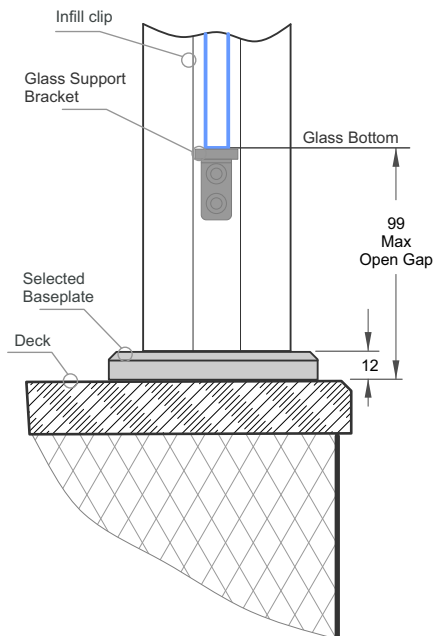
A Corner Post is available for 10mm Glass, Inline - Semi Frameless. Top Mount only with 110mm sq JEC 222 Baseplate

2 - Handrail - Offsets

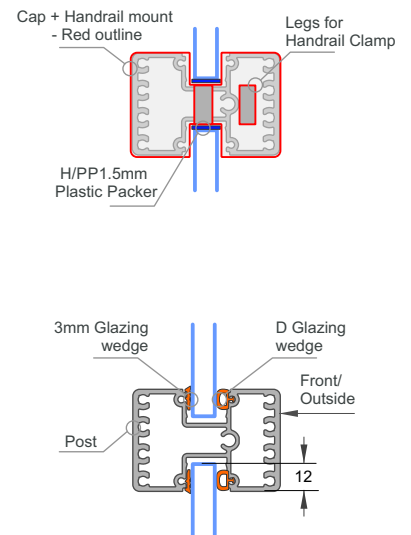


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets

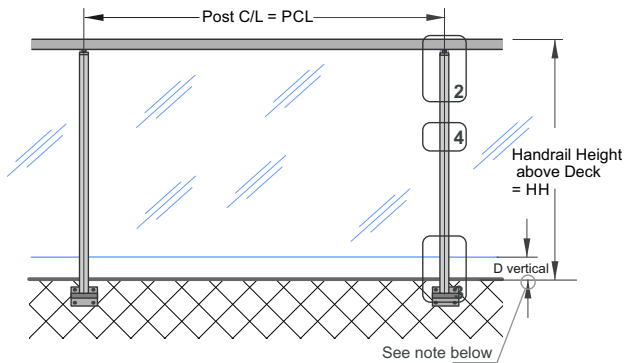


Top fix EDGE post JEB/212
Semiframeless
10mm Toughened Glass

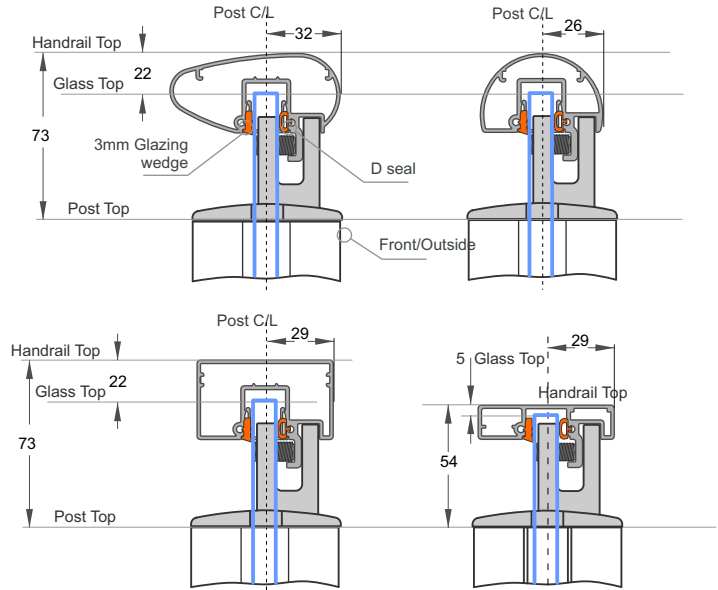
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-54-12
- c - 10mm Glass height
= HH - 104
- d - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

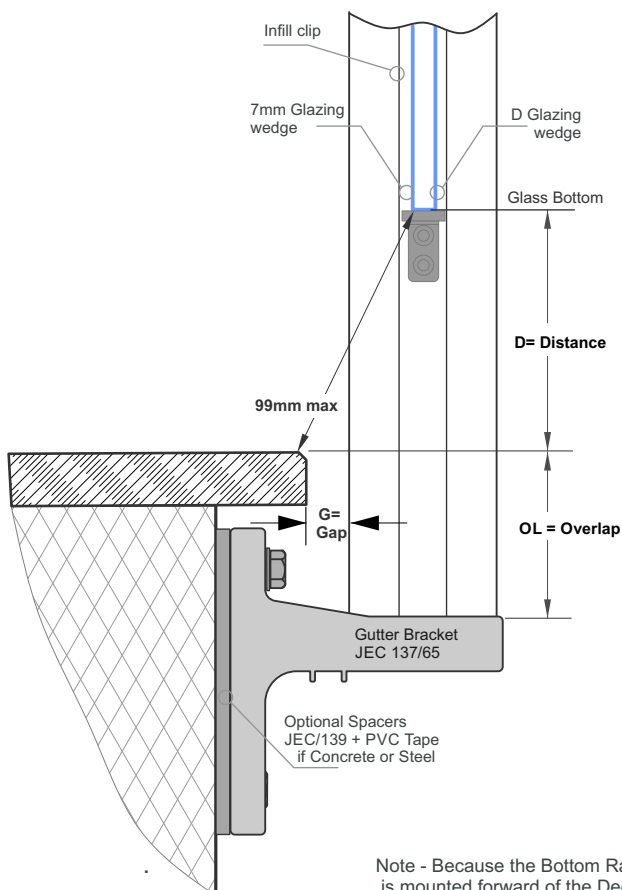


2 - Handrail - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets

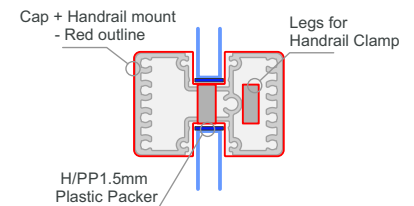
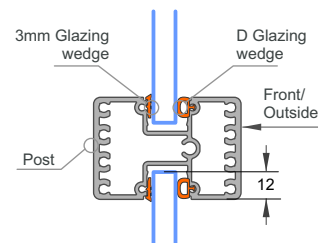


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm, D = 91mm
G Gap = 20mm, D = 86mm
G Gap = 30mm, D = 80mm
G Gap = 40mm, D = 72mm
G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



Top fix EDGE post JEB/212
Semiframeless
10mm Toughened Glass

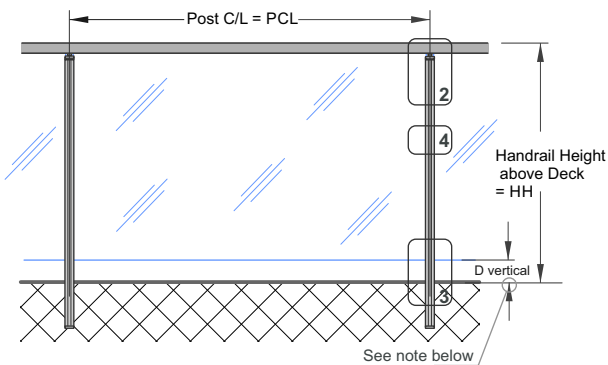
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-54+ OL
- c - 10mm Glass height
= HH-5-D
- d - 10mm Glass width
= PCL- 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

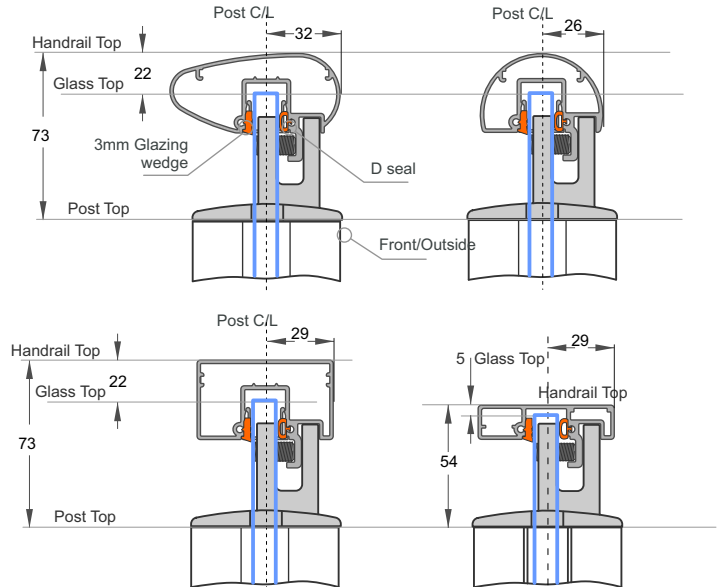
Juralco EDGE® Balustrade System - Design Details

10mm Toughened Glass - Semi Frameless + Handrail. Face Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

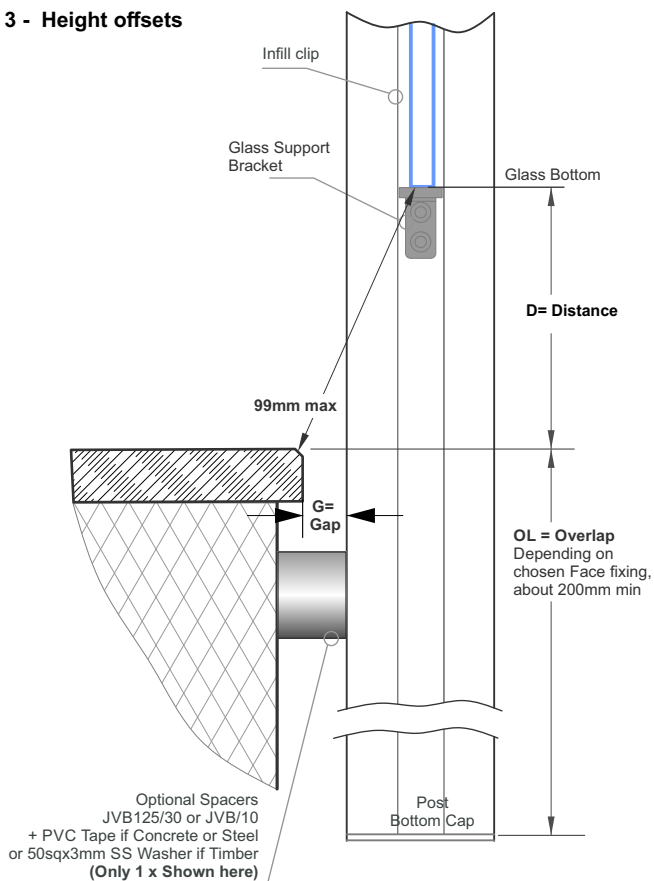


2 - Handrail - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 91mm

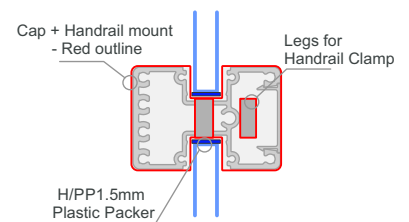
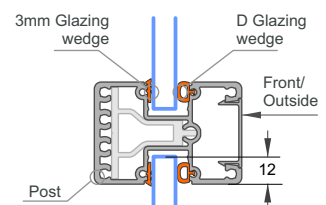
G Gap = 20mm, D = 86mm

G Gap = 30mm, D = 80mm

G Gap = 40mm, D = 72mm

G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



Face fix EDGE post JEB/214
Semiframeless
10mm Toughened Glass

5 - Cutting, nominal

a - Hand Rail = Use maximum lengths

b - Post, Cut to
= HH-54+OL

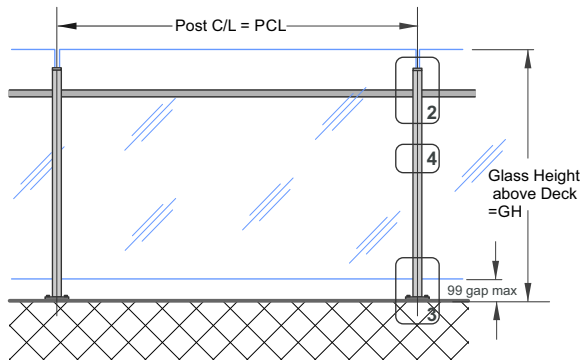
c - 10mm Glass height
= HH-5-D

d - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

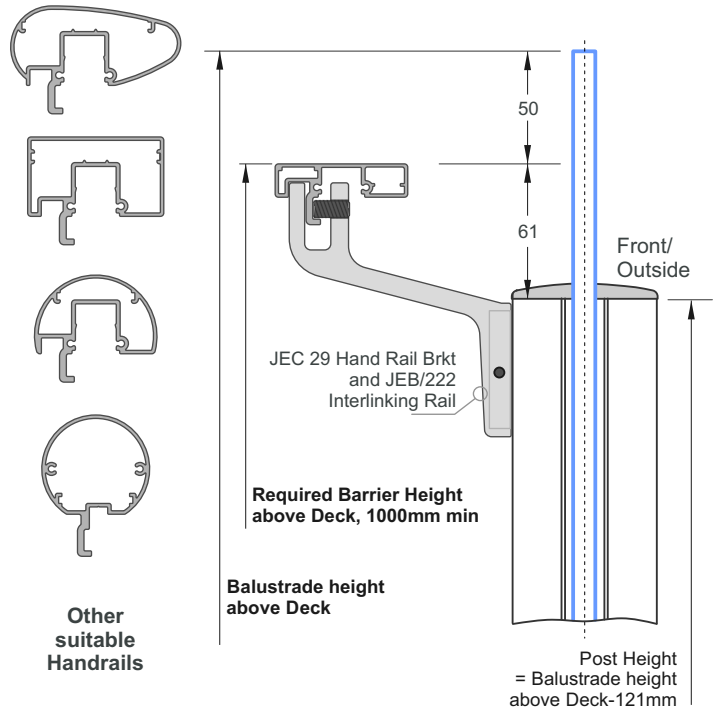
10mm Toughened Glass - Semi Frameless + JEC 29 Bracket mounted on Post + Handrail. Top Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



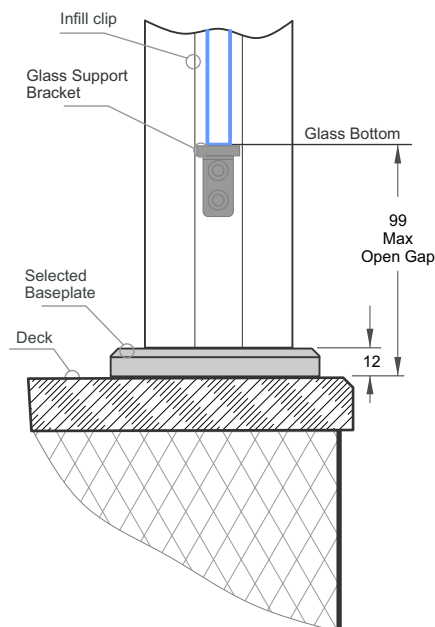
A Corner Post is not suitable available for this configuration

2 -Glass Top - Offsets

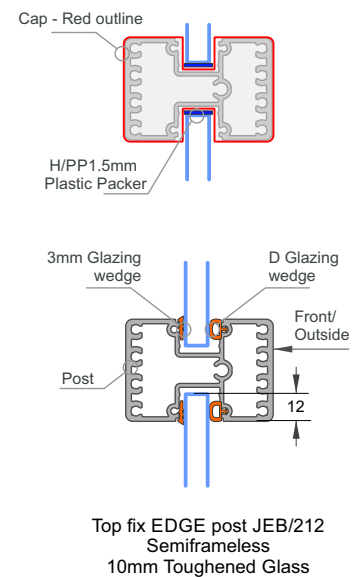


Important Note: All Glass Engagements 10mm min

3 - Height offsets



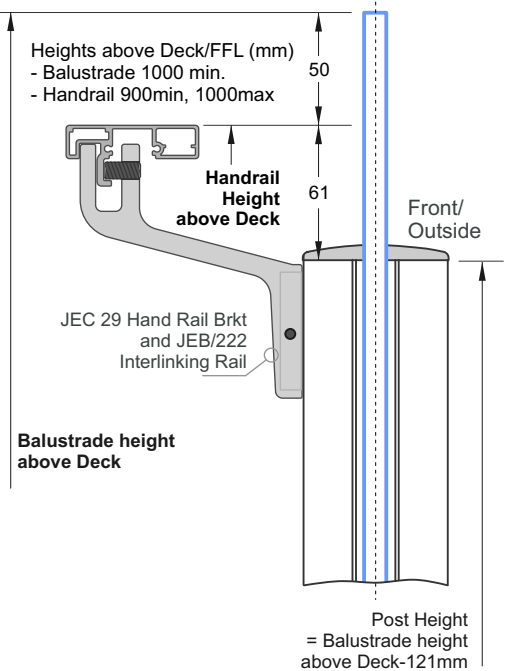
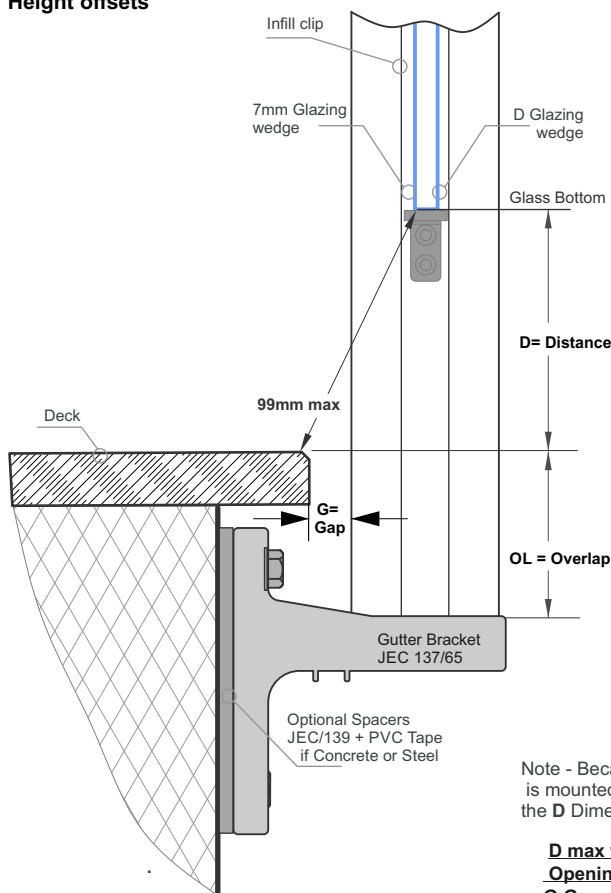
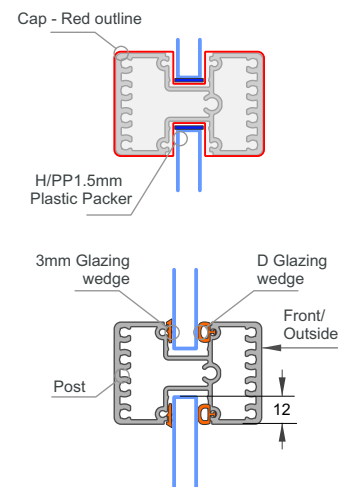
4 - Glass, Width Offsets



5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= 840 min
- c - 10mm Glass height
= GH - 99
- d - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

10mm Toughened Glass - Semi Frameless + JEC 29 Bracket mounted on Post + Handrail. Gutter Brkt Face Fix

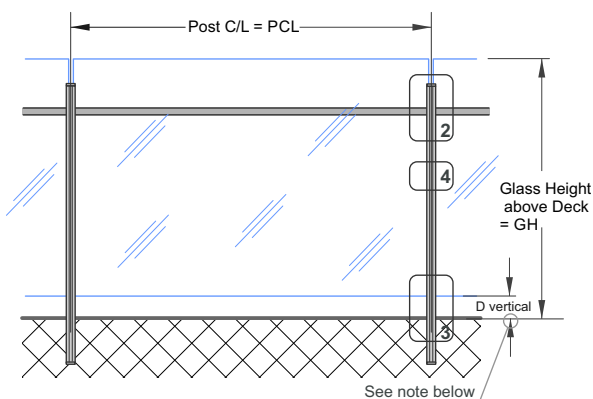


- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= 850 + OL
- c - 10mm Glass height
= GH-D
- d - 10mm Glass width
= PCL- 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

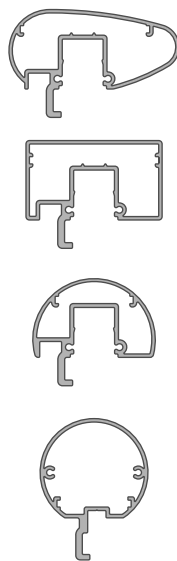
Juralco EDGE® Balustrade System - Design Details

10mm Toughened Glass - Semi Frameless + JEC 29 Bracket mounted on Post + Handrail. Face Fix

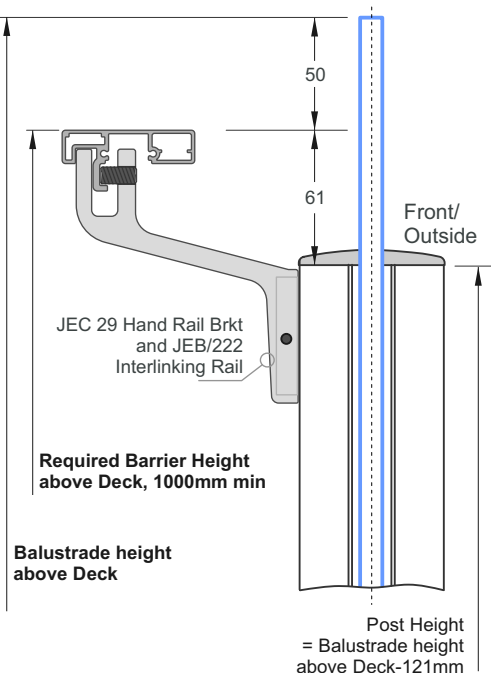
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 -Glass Top - Offsets

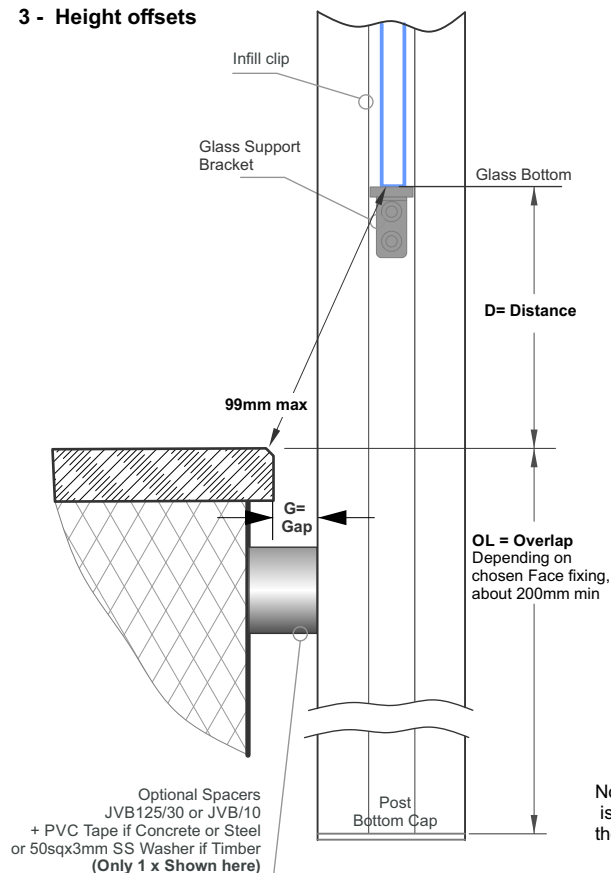


Other suitable Handrails



Important Note: All Glass Engagements 10mm min

3 - Height offsets



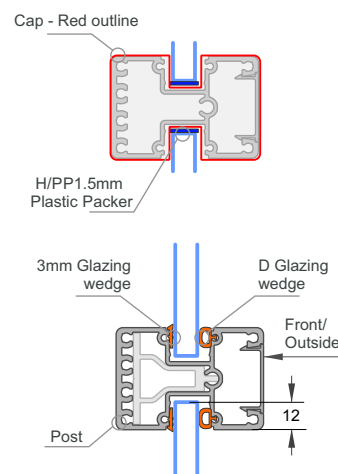
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 91mm
G Gap = 20mm, D = 86mm
G Gap = 30mm, D = 80mm
G Gap = 40mm, D = 72mm
G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



Face fix EDGE post JEB/214
Semiframeless
10mm Toughened Glass

5 - Cutting, nominal

a - Hand Rail = Use maximum lengths
b - Post, Cut to
= 850 + OL

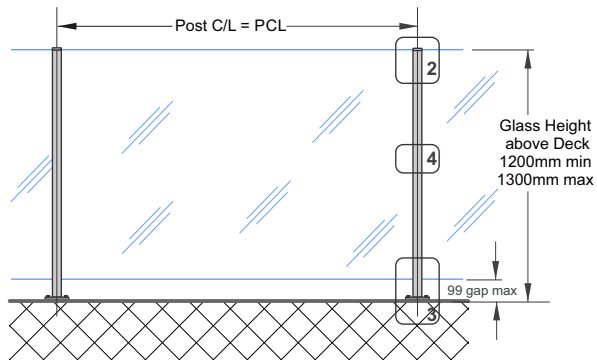
c - 10mm Glass height
= GH-D

d - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

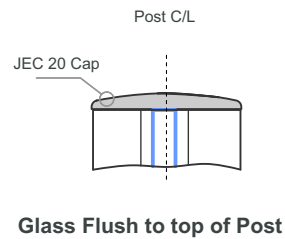
10mm Toughened Glass - Semi Frameless - No Handrail. SWIMMING POOLS ONLY. 1200mm Min Height

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



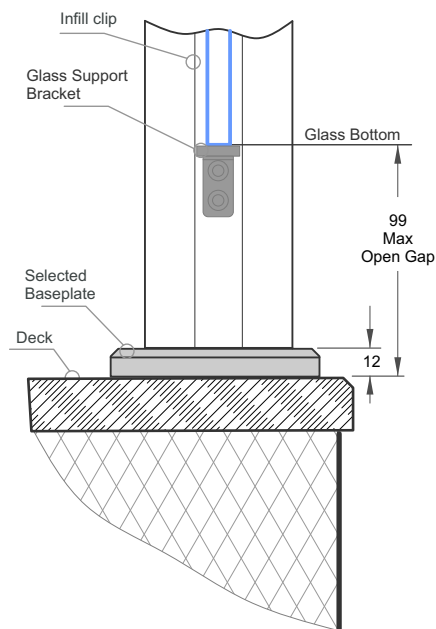
Applies to Swimming Pools as of Jan 2017
Complies with the Building Code Clause F9
and section 162C of the Building Act.
Applies to Pool Fences not protecting
a fall of 1.0m or more

2 -Glass Top

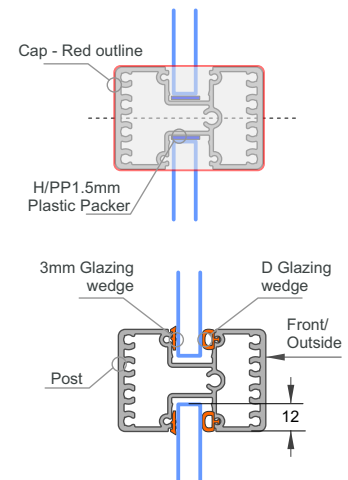


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets



Top fix EDGE post JEB/212
Semiframeless
10mm Toughened Glass

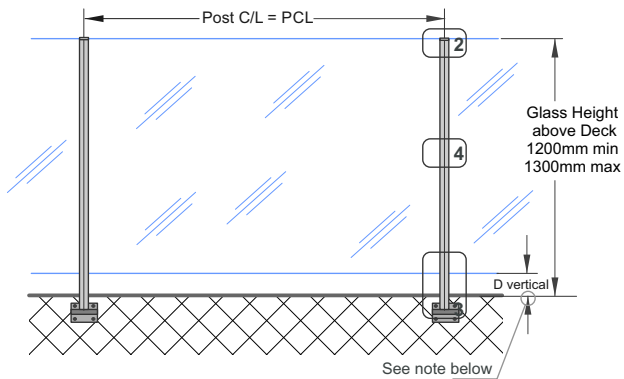
5 - Cutting, nominal

- a - Post, Cut to
= 1200-12
- b - 10mm Glass height
= 1100
- c - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

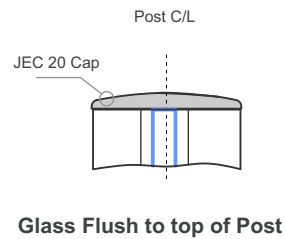
10mm Toughened Glass - Semi Frameless - No Handrail. **SWIMMING POOLS ONLY. 1200mm Min Height**

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



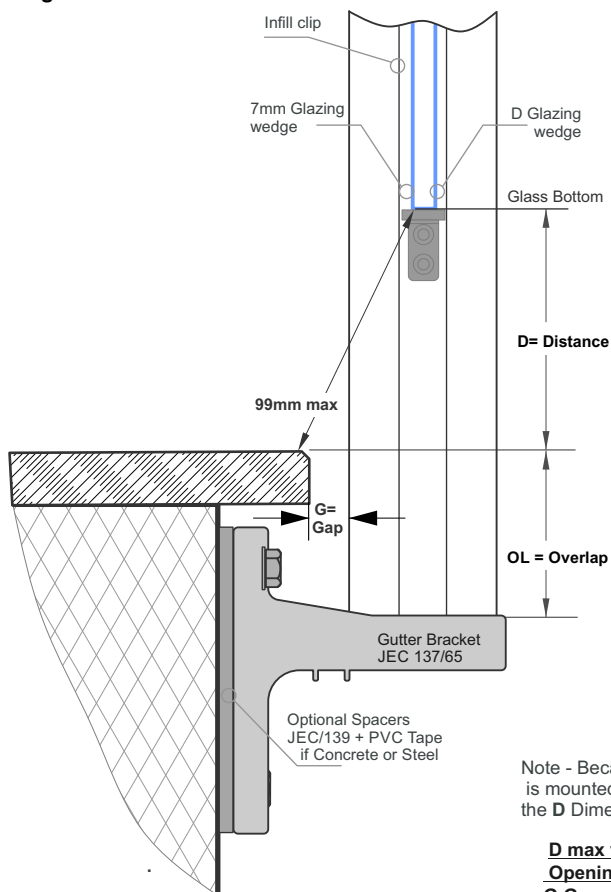
Applies to Swimming Pools as of Jan 2017
Complies with the Building Code Clause F9
and section 162C of the Building Act.
Applies to Pool Fences not protecting
a fall of 1.0m or more

2 -Glass Top - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets

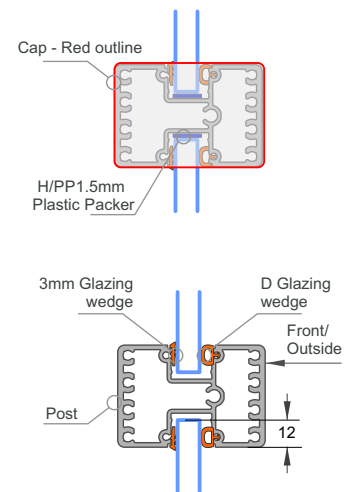


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm, D = 91mm
G Gap = 20mm, D = 86mm
G Gap = 30mm, D = 80mm
G Gap = 40mm, D = 72mm
G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



Top fix EDGE post JEB/212
Semiframeless
10mm Toughened Glass

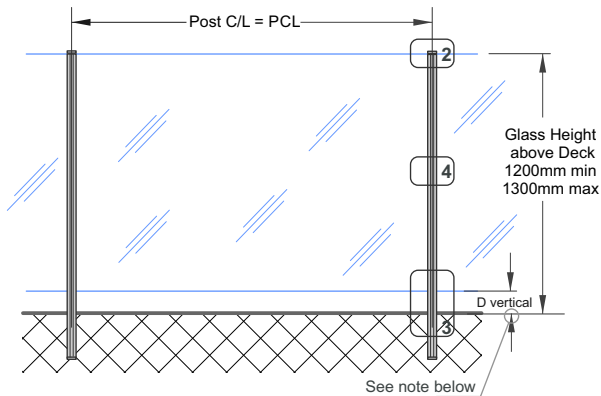
5 - Cutting, nominal

- a - Post, Cut to
= 1200 + OL
- b - 10mm Glass height
= 1200 - D
- c - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

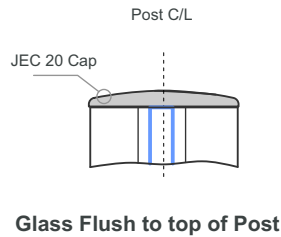
10mm Toughened Glass - Semi Frameless - No Handrail. **SWIMMING POOLS ONLY. 1200mm Min Height**

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



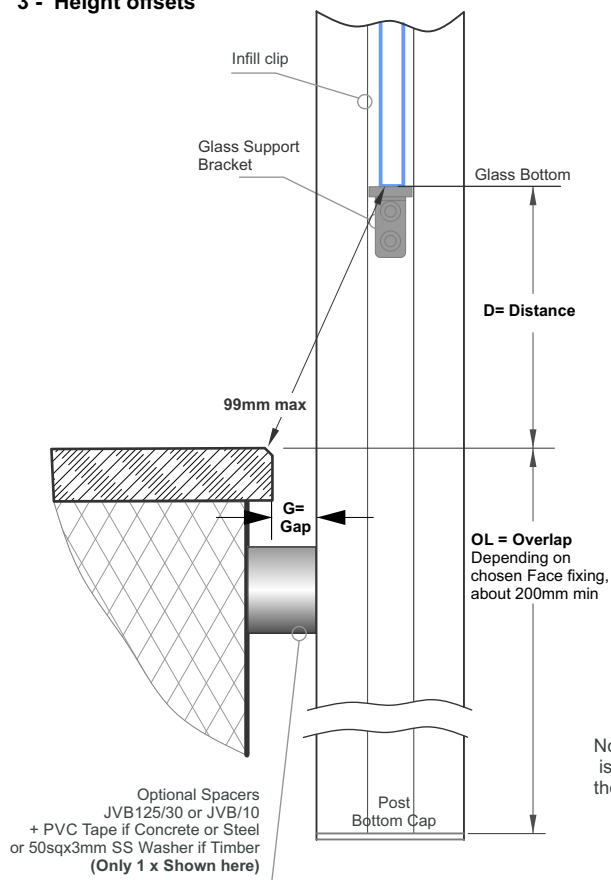
Applies to Swimming Pools as of Jan 2017
Complies with the Building Code Clause F9
and section 162C of the Building Act.
Applies to Pool Fences not protecting
a fall of 1.0m or more

2 -Glass Top - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets



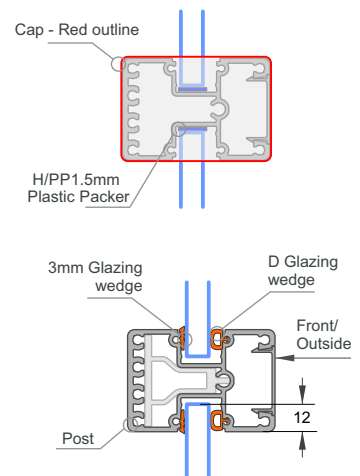
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 91mm
G Gap = 20mm, D = 86mm
G Gap = 30mm, D = 80mm
G Gap = 40mm, D = 72mm
G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



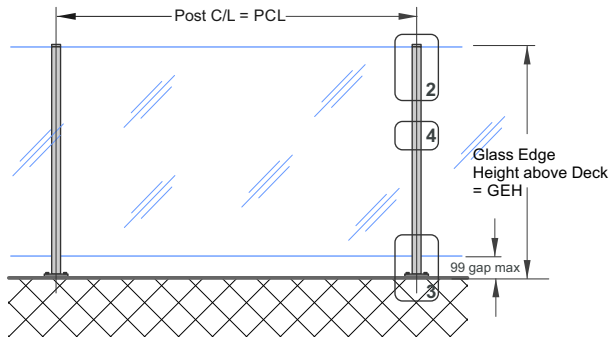
Face fix EDGE post JEB/214
Semiframeless
10mm Toughened Glass

5 - Cutting, nominal

a - Post, Cut to
= 1200 + OL
b - 10mm Glass height
= 1200 - D
c - 10mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

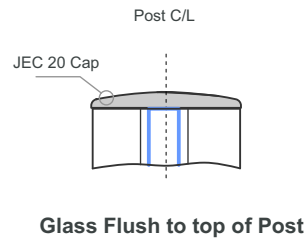
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

Top Protection Cap JET 212 between Posts highly recommended



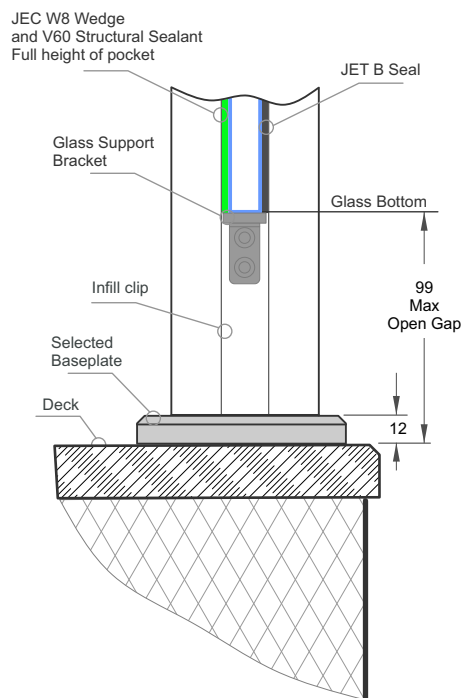
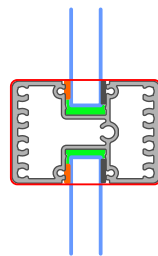
A Corner Post is available
Inline - Semi Frameless. Top Mount only
with 110mm sq JEC 222 Baseplate

2 -Glass Top - Offsets

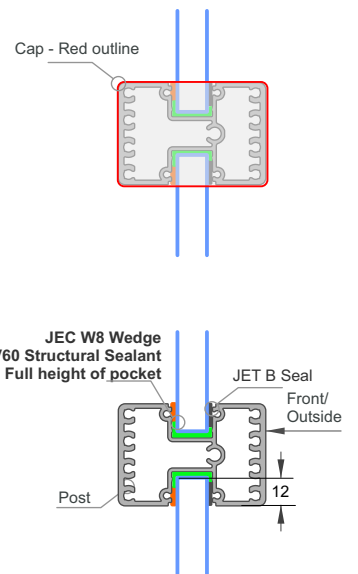


Important Note: All Glass Engagements 10mm min

3 - Height offsets



4 - Glass, Width Offsets



Top fix EDGE post JEB/212
Semiframeless
13.2mm Laminated Toughened Glass

5 - Cutting, nominal

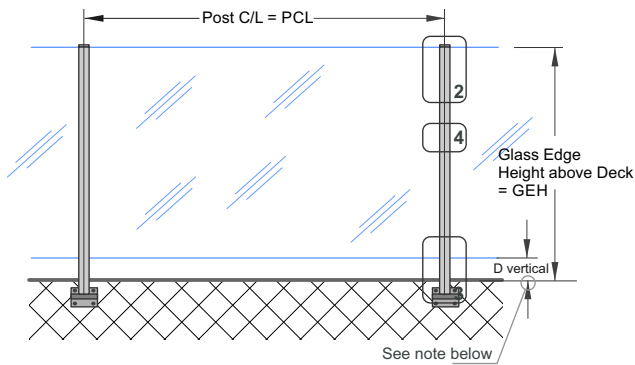
- a - Post, Cut to
= GEH - 12
- b - 13.2mm Glass height
= GEH - 99
- c - 13.2mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

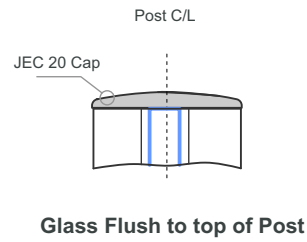
13.2mm Toughened Laminated Glass - Semi Frameless. Gutter Brkt Face Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

Top Protection Cap JET 212 between Posts highly recommended

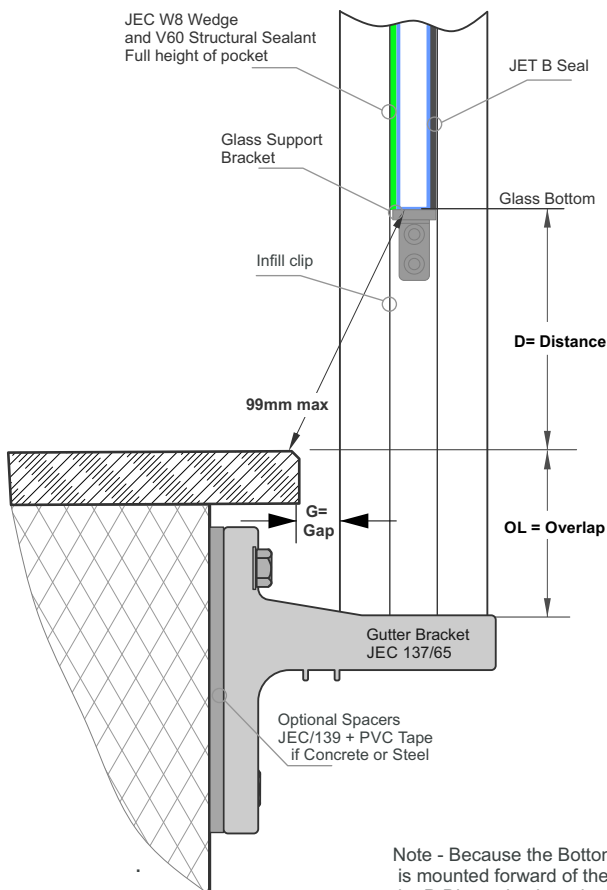


2 -Glass Top - Offsets



Important Note: All Glass Engagements 10mm min

3 - Height offsets



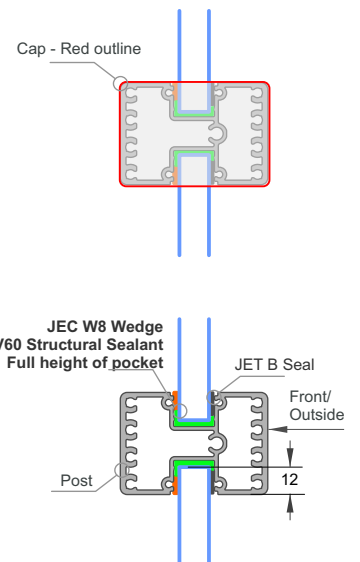
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 91mm
G Gap = 20mm, D = 86mm
G Gap = 30mm, D = 80mm
G Gap = 40mm, D = 72mm
G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets



Top fix EDGE post JEB/212
Semiframeless
13.2mm Laminated Toughened Glass

5 - Cutting, nominal

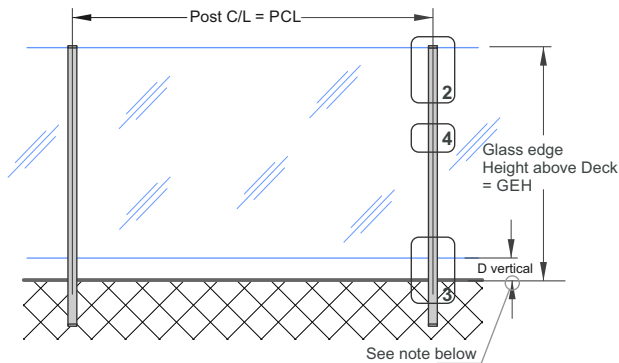
- a - Post, Cut to
= GEH + OL
- b - 13.2mm Glass height
= GEH - D
- c - 13.2mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

Juralco EDGE® Balustrade System - Design Details

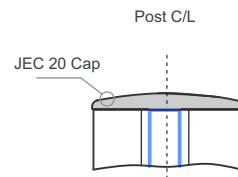
13.2mm Toughened Laminated Glass - Semi Frameless. Face Fix

1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.

Top Protection Cap JET 212 between Posts highly recommended



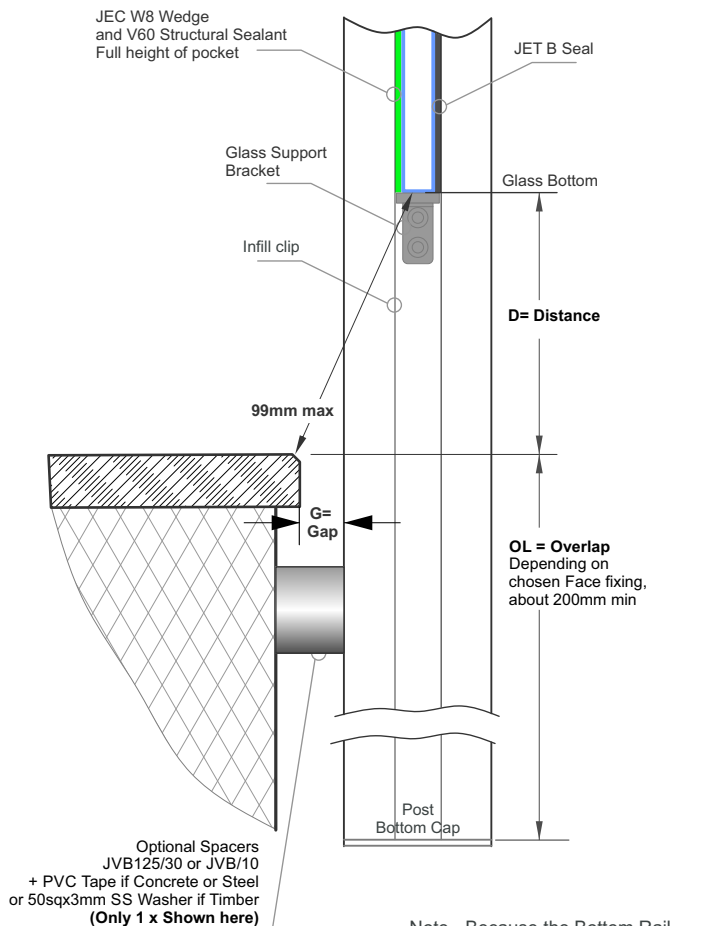
2 - Glass Top - Offsets



Glass Flush to top of Post

Important Note: All Glass Engagements 10mm min

3 - Height offsets



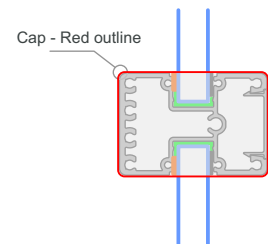
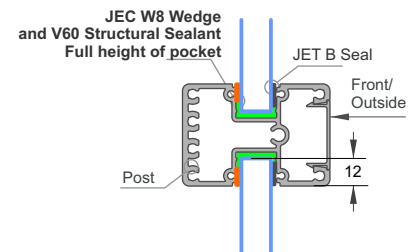
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

- G Gap = 10mm, D = 91mm
- G Gap = 20mm, D = 86mm
- G Gap = 30mm, D = 80mm
- G Gap = 40mm, D = 72mm
- G Gap = 50mm max, D = 61mm

4 - Glass, Width Offsets

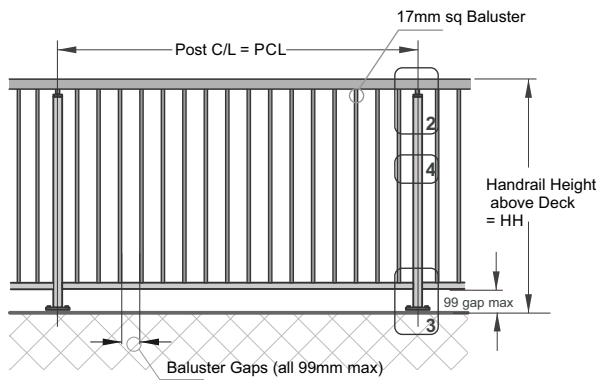


Face fix EDGE post JEB/214
Semiframeless
13.2mm Laminated Toughened Glass

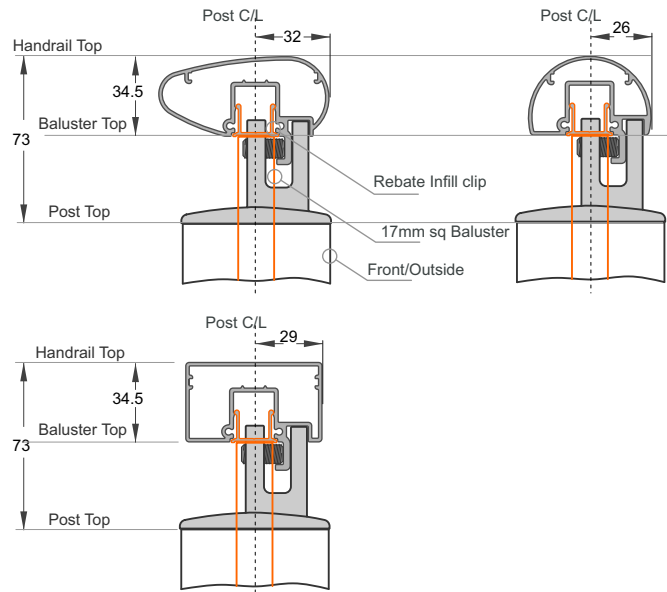
5 - Cutting, nominal

- a - Post, Cut to
= GEH + OL
- b - 13.2mm Glass height
= GEH-D
- c - 13.2mm Glass width
= PCL - 2x12 = PCL - 24
or tight distance between posts
at deck level + 24mm

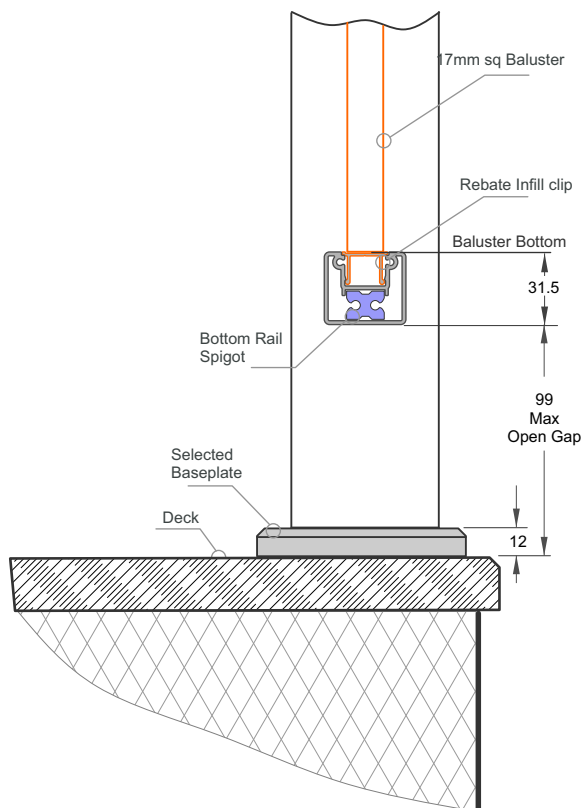
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



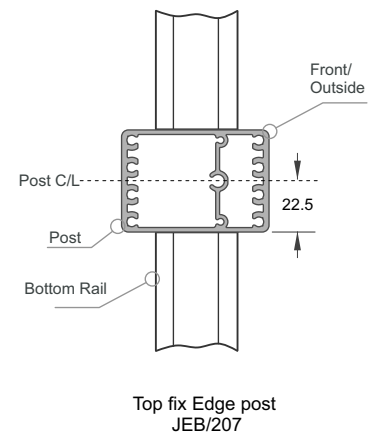
2 - Handrail - Offsets



3 - Height offsets



4 - Width Offsets

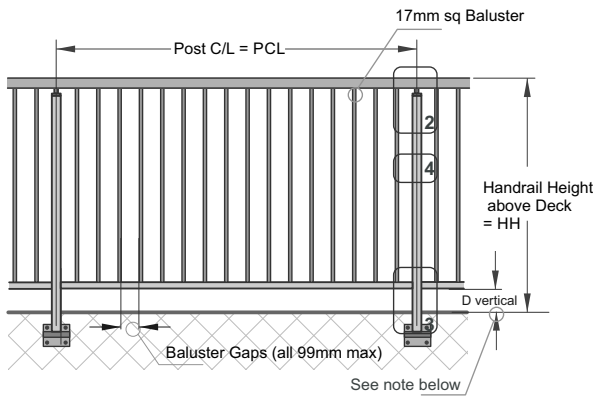


5 - Cutting, nominal

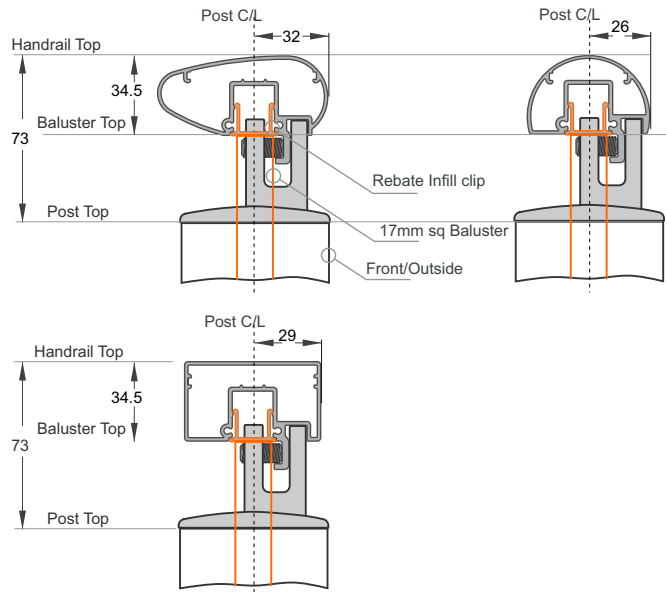
- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 17mm sq Baluster, Cut to
= $HH - 34.5 - 31.5 - 99 = HH - 165$

17mm Baluster - Full Height. Handrail + Bottom Rail. Gutter Brkt Face Fix

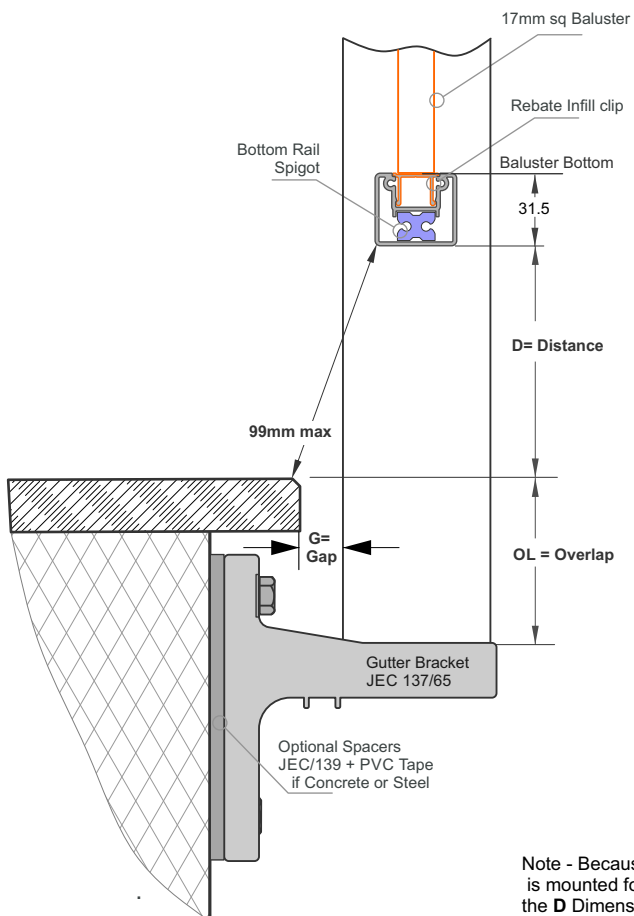
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets

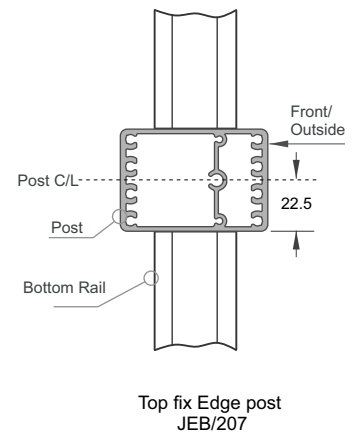


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm,	D = 96mm
G Gap = 20mm,	D = 92mm
G Gap = 30mm,	D = 88mm
G Gap = 40mm,	D = 82mm
G Gap = 50mm max,	D = 75mm

4 - Width Offsets

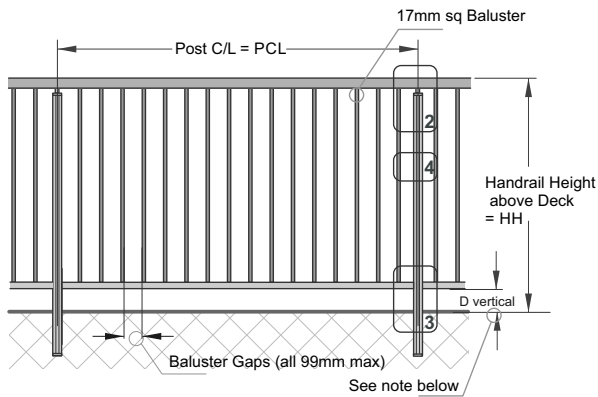


Top fix Edge post
JEB/207

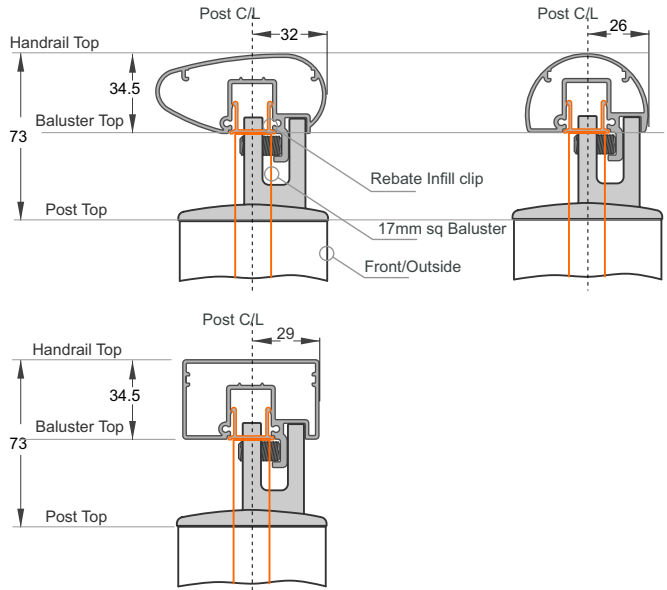
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 17mm sq Baluster, Cut to
= HH-34.5-31.5-D = HH - 66 - D

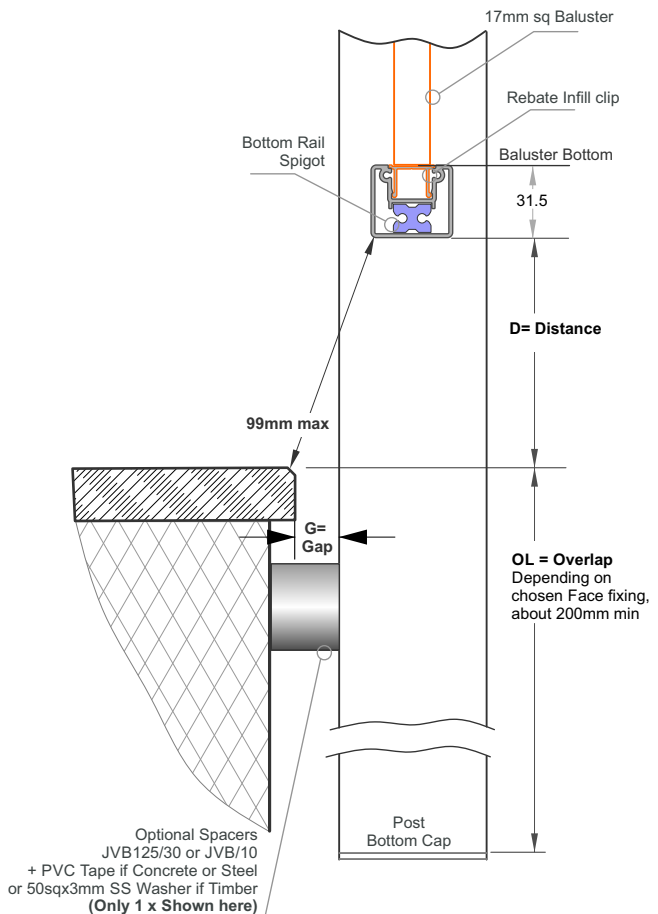
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm

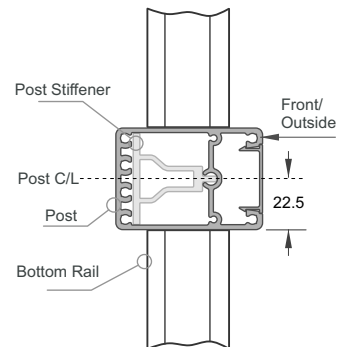
G Gap = 20mm, D = 92mm

G Gap = 30mm, D = 88mm

G Gap = 40mm, D = 82mm

G Gap = 50mm max, D = 75mm

4 - Width Offsets



Face fix Edge post
JEB/208

5 - Cutting, nominal

a - Hand Rail = Use maximum lengths

b - Post, Cut to

= HH-73+OL

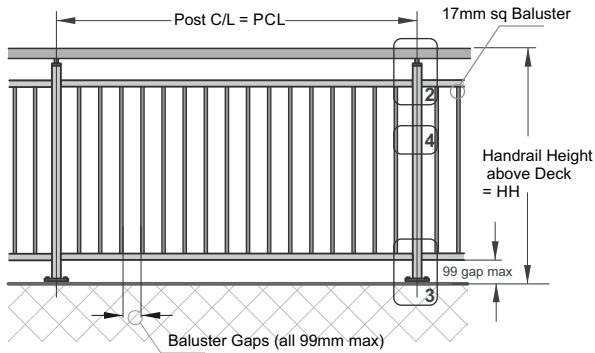
c - Bottom Rail, Cut to

= PCL-2x22.5 = PCL - 45

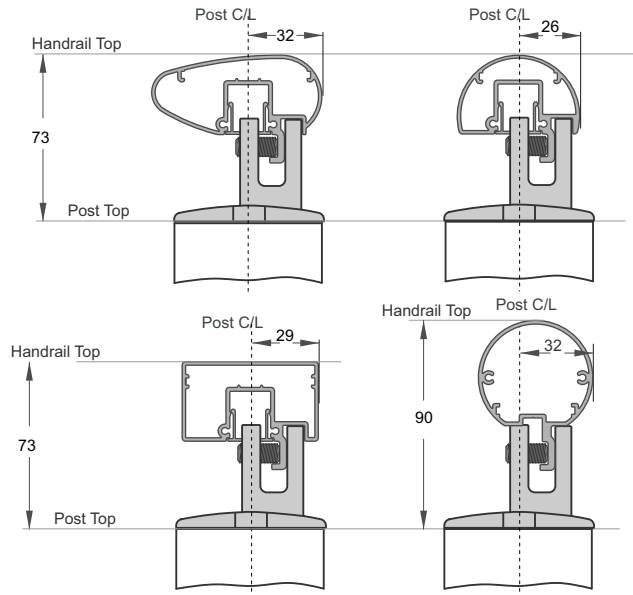
d - 17mm sq Baluster, Cut to

= HH-34.5-31.5-D = HH - 66 - D

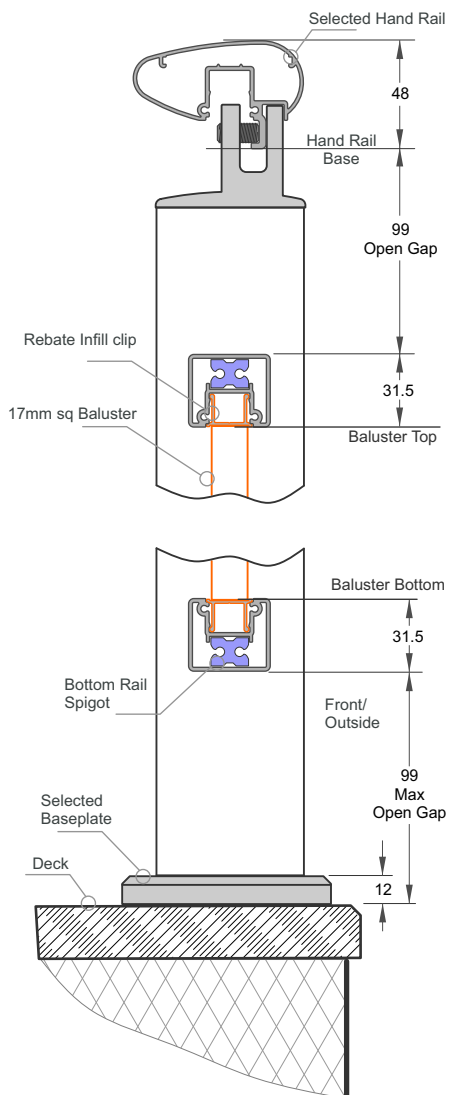
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



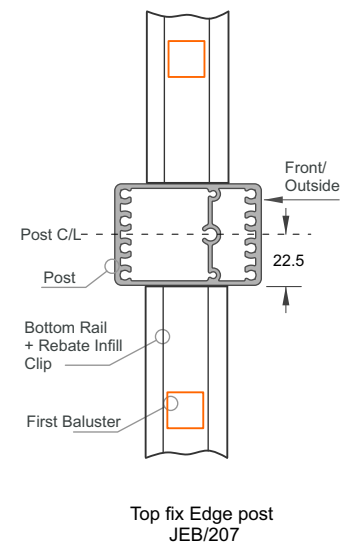
2 - Handrail - Offsets



3 - Height offsets



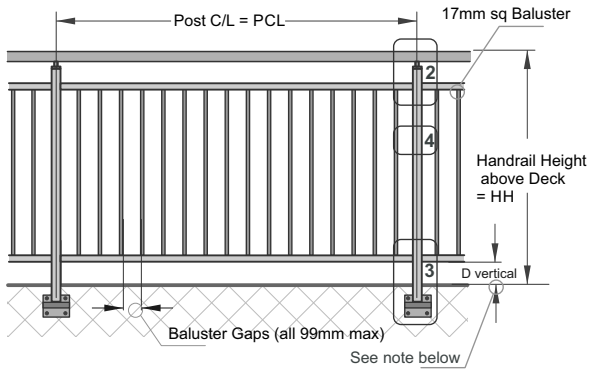
4 - Width Offsets



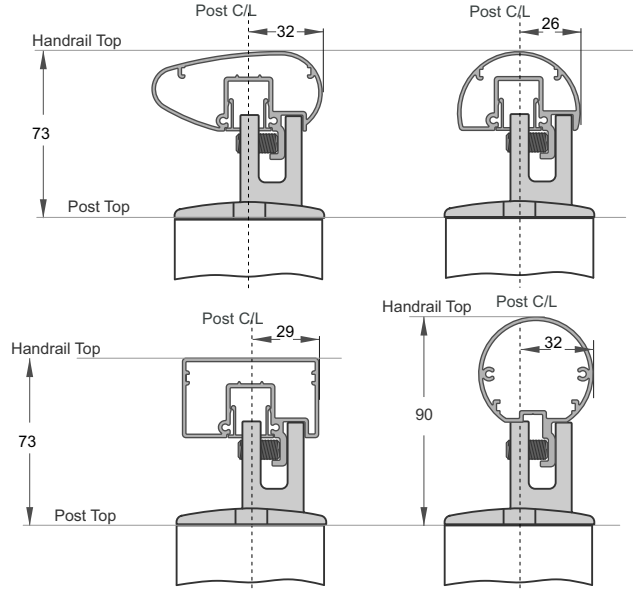
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - Bottom Rail, Cut to
= $PCL - 2 \times 22.5 = PCL - 45$
- d - 17mm sq Baluster, Cut to
= $HH - 48 - 99 \times 2 - 31.5 \times 2 = HH - 309$

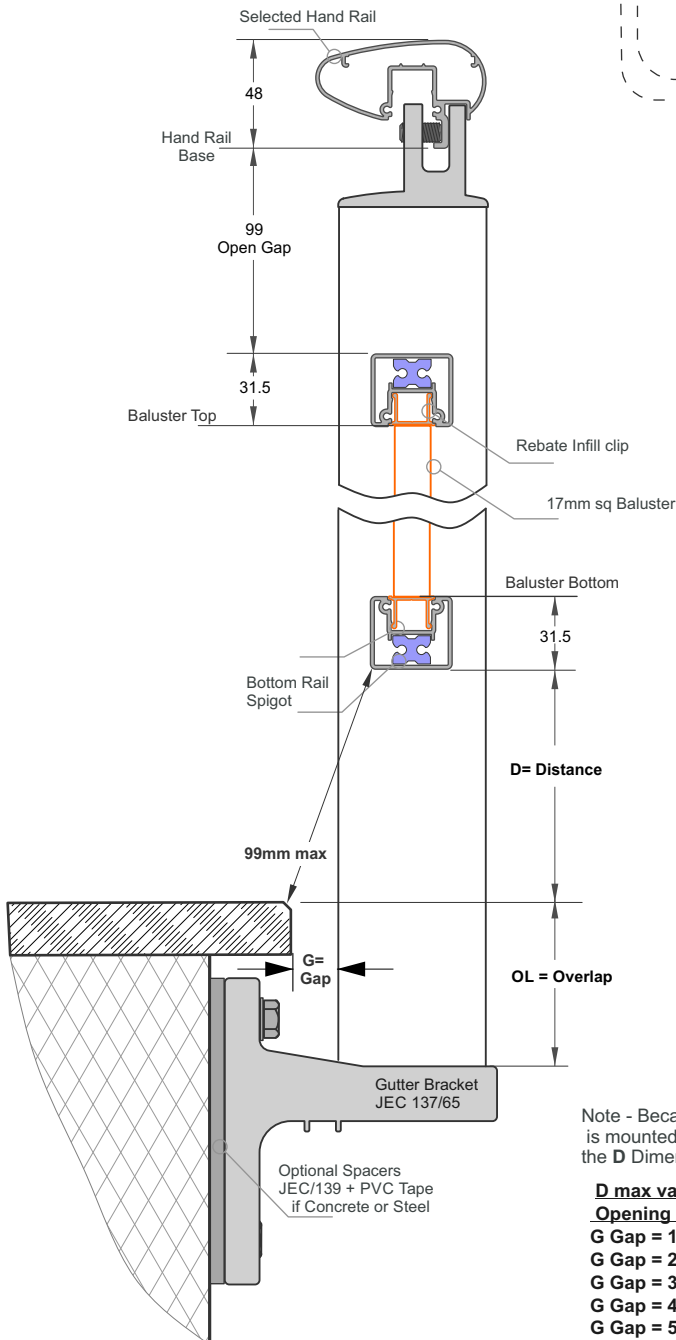
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



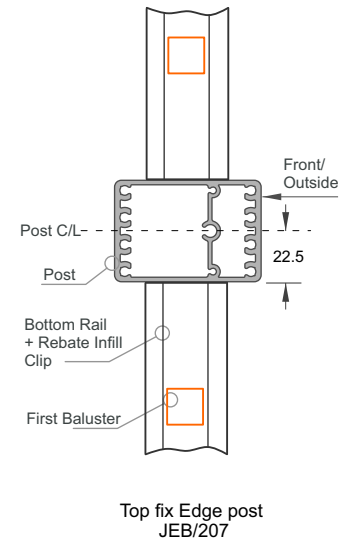
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

- G Gap = 10mm, D = 96mm
- G Gap = 20mm, D = 92mm
- G Gap = 30mm, D = 88mm
- G Gap = 40mm, D = 82mm
- G Gap = 50mm max, D = 75mm

4 - Width Offsets



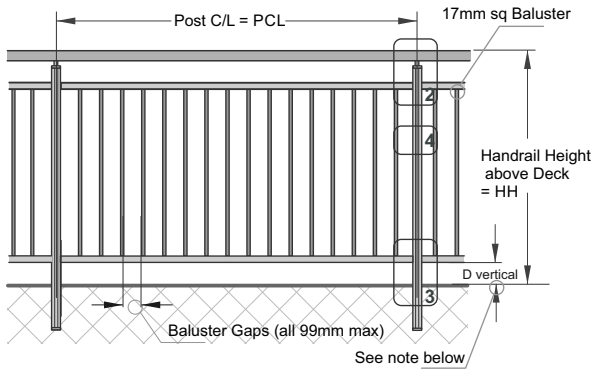
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to = $HH - 73 + OL$
- c - Bottom Rail, Cut to = $PCL - 2 \times 22.5 = PCL - 45$
- d - 17mm sq Baluster, Cut to = $HH - 48 - 99 - 31.5 \times 2 - D = HH - 210 - D$

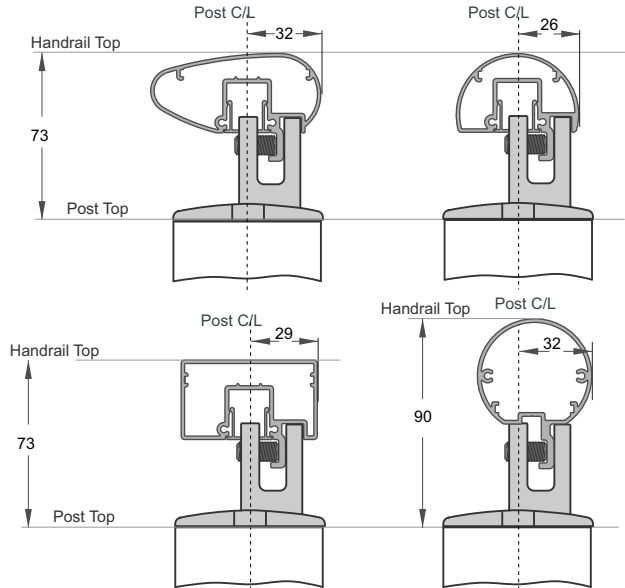
Juralco EDGE® Balustrade System - Design Details

17mm Baluster - Split Rail. Handrail + Top and Bottom Rail. Face Fix

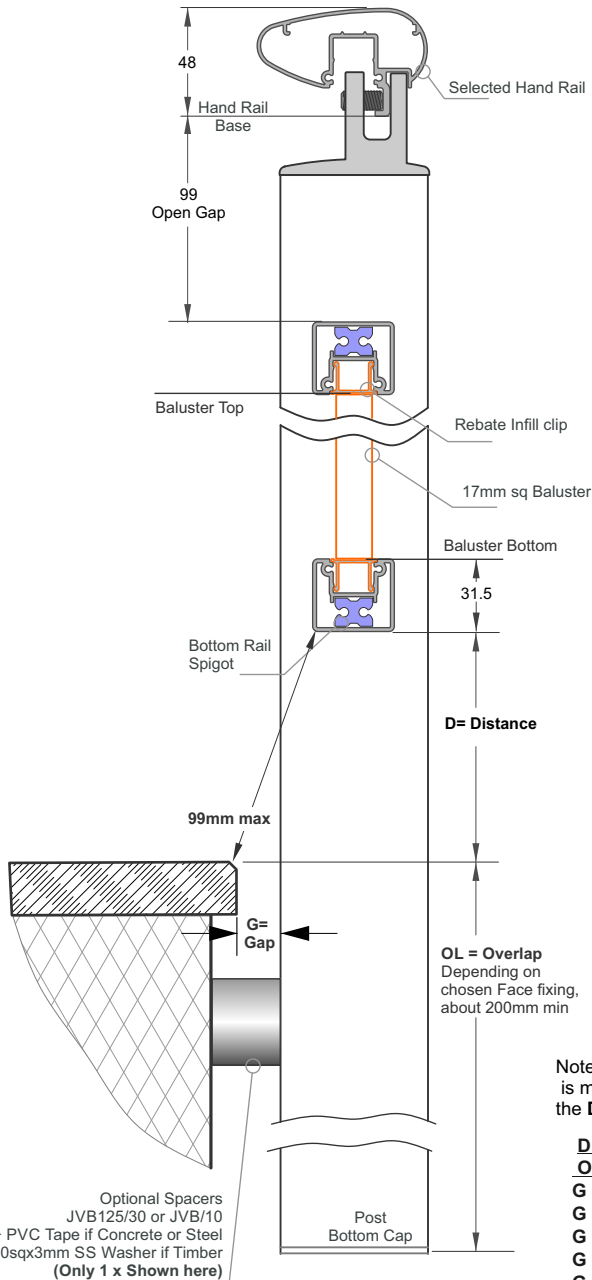
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm

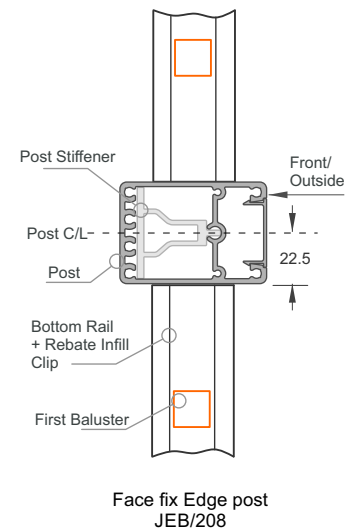
G Gap = 20mm, D = 92mm

G Gap = 30mm, D = 88mm

G Gap = 40mm, D = 82mm

G Gap = 50mm max, D = 75mm

4 - Width Offsets



5 - Cutting, nominal

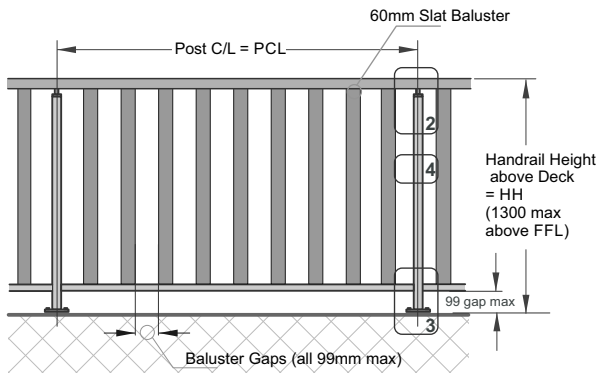
a - Hand Rail = Use maximum lengths

b - Post, Cut to
= HH-73+OL

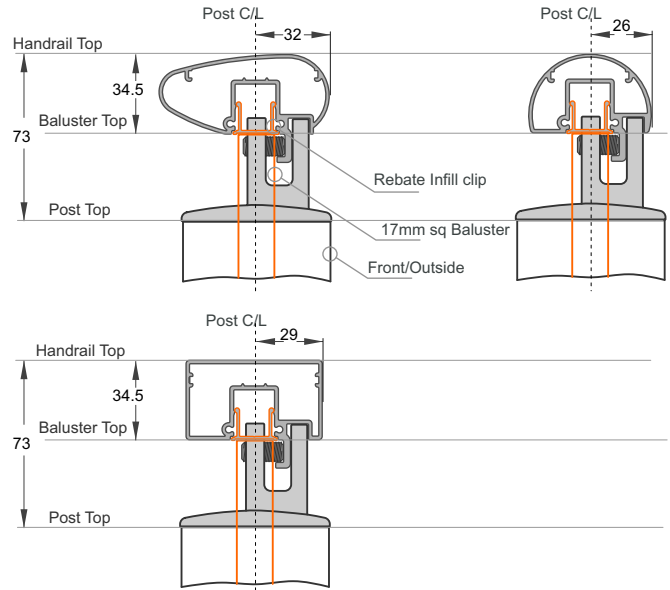
c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45

d - 17mm sq Baluster, Cut to
= HH-48-99-31.5x2 - D = HH - 210 - D

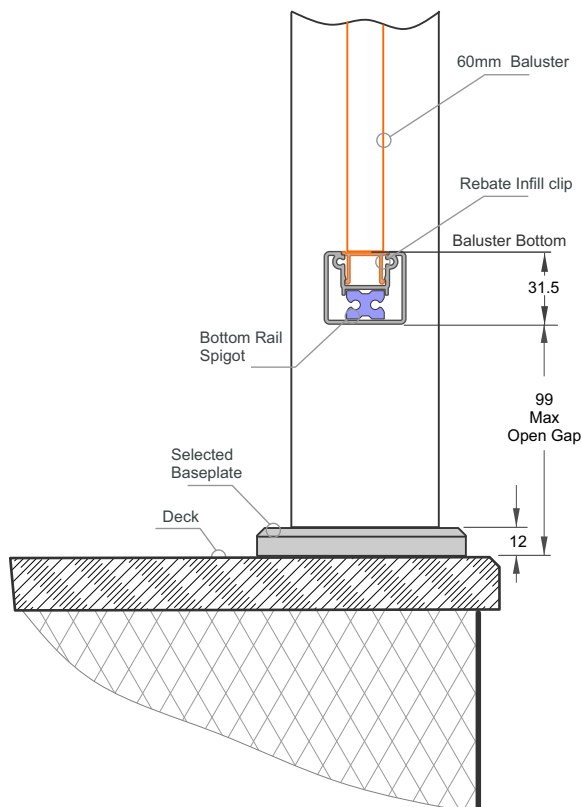
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



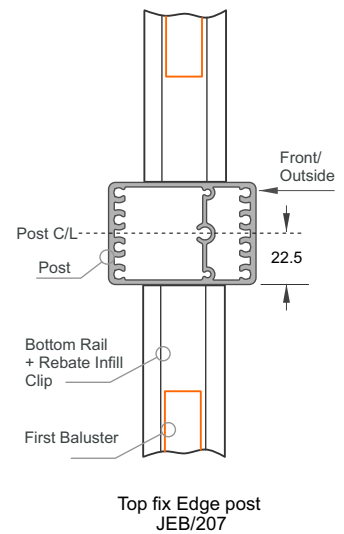
2 - Handrail - Offsets



3 - Height offsets



4 - Width Offsets



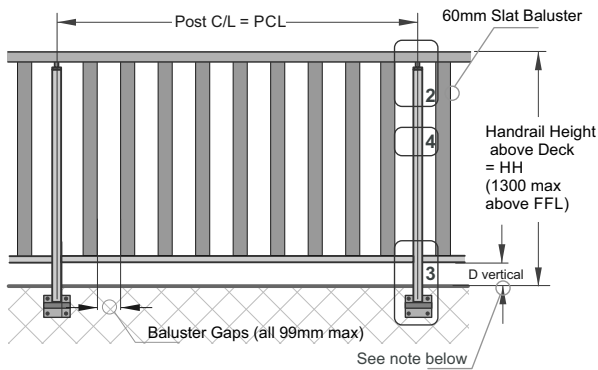
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73-12 = HH - 85
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 60mm Slat Baluster, Cut to
= HH-34.5-31.5-99 = HH - 165

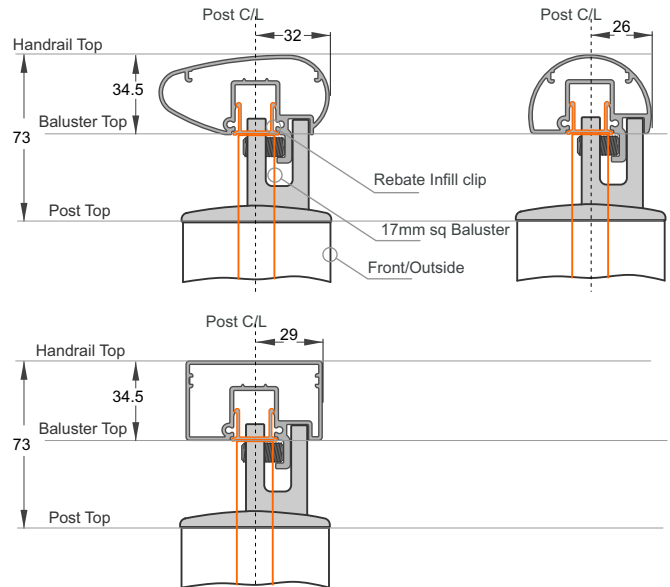
Juralco EDGE® Balustrade System - Design Details

60mm Slat - Full Height. Handrail + Bottom Rail. Gutter Brkt Face Fix

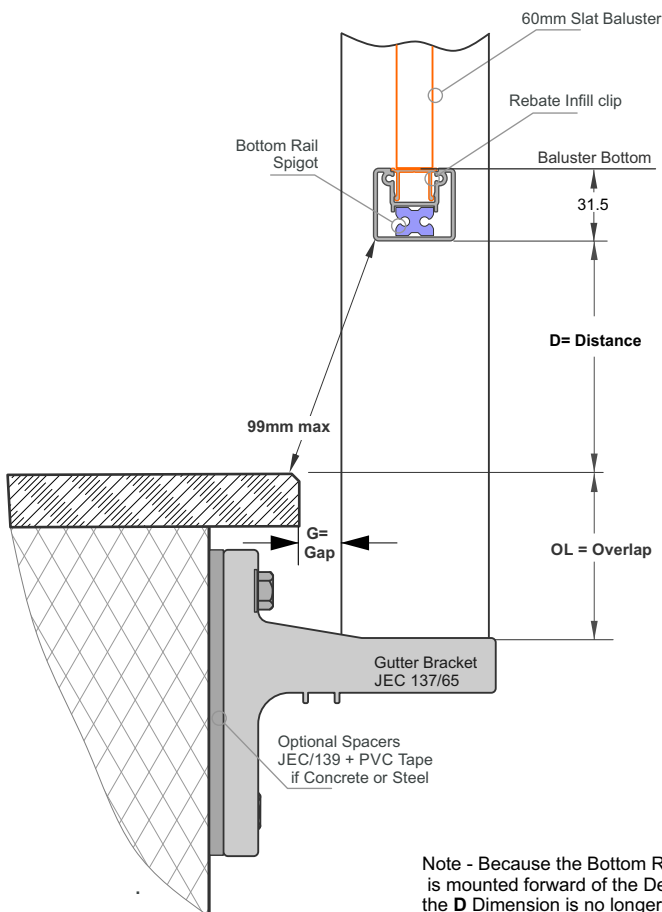
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets

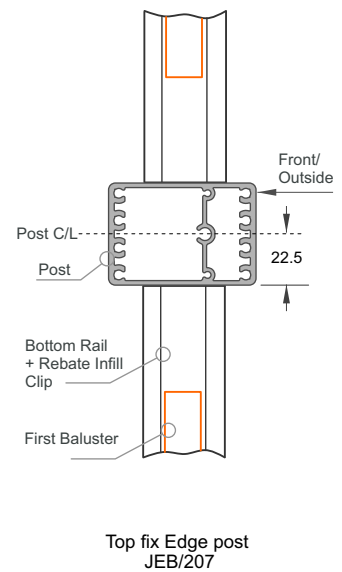


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm, D = 96mm
G Gap = 20mm, D = 92mm
G Gap = 30mm, D = 88mm
G Gap = 40mm, D = 82mm
G Gap = 50mm max, D = 75mm

4 - Width Offsets



Top fix Edge post
JEB/207

5 - Cutting, nominal

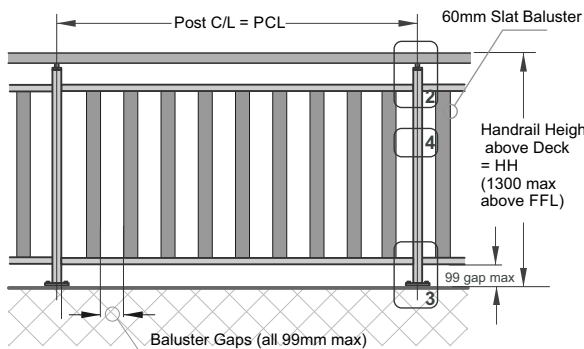
- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 60mm Slat Baluster, Cut to
= HH-34.5-31.5-D-OL = HH-66-D-OL

60mm Slat - Full Height. Handrail + Bottom Rail. Face Fix

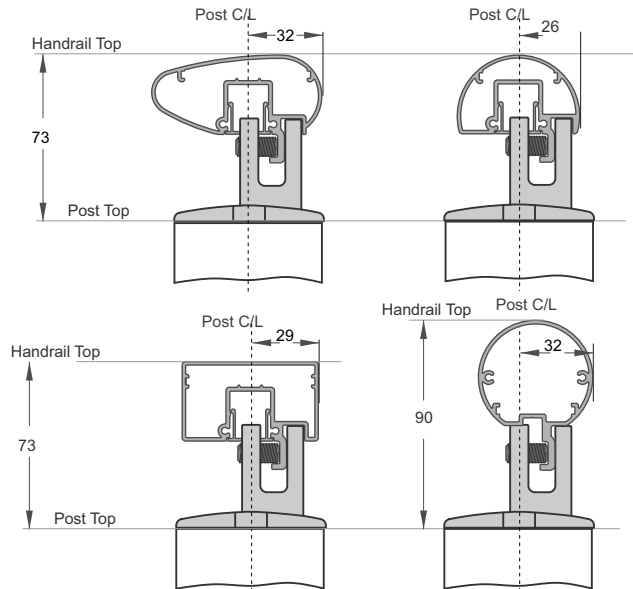
Juralco EDGE® Balustrade System - Design Details

60mm Slat - Split Rail. Handrail + Top and Bottom Rail. Top Fix

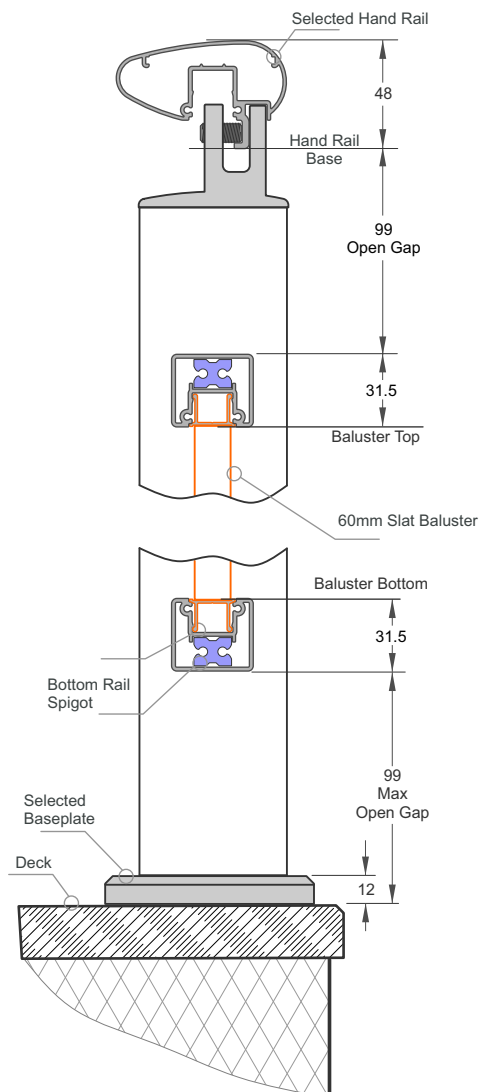
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



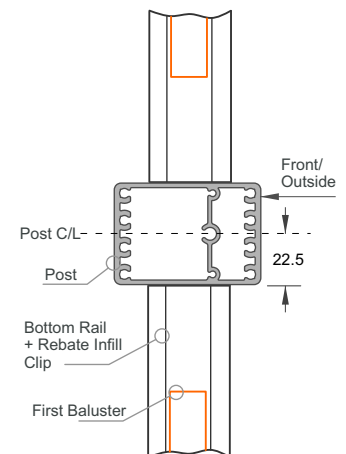
2 - Handrail - Offsets



3 - Height offsets



4 - Width Offsets



Top fix Edge post
JEB/207

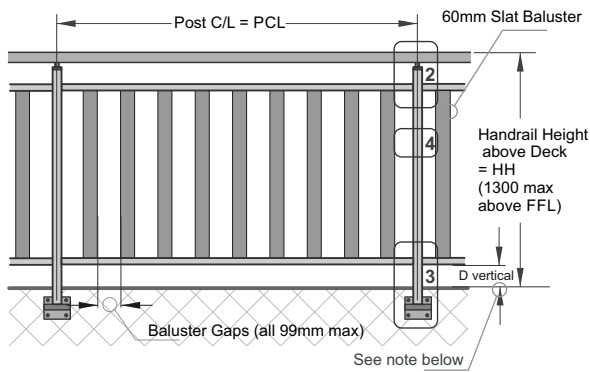
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH-73-12 = HH - 85$
- c - Bottom Rail, Cut to
= $PCL-2 \times 22.5 = PCL - 45$
- d - 60mm Slat Baluster, Cut to
= $HH-48-99 \times 2-31.5 \times 2 = HH - 309$

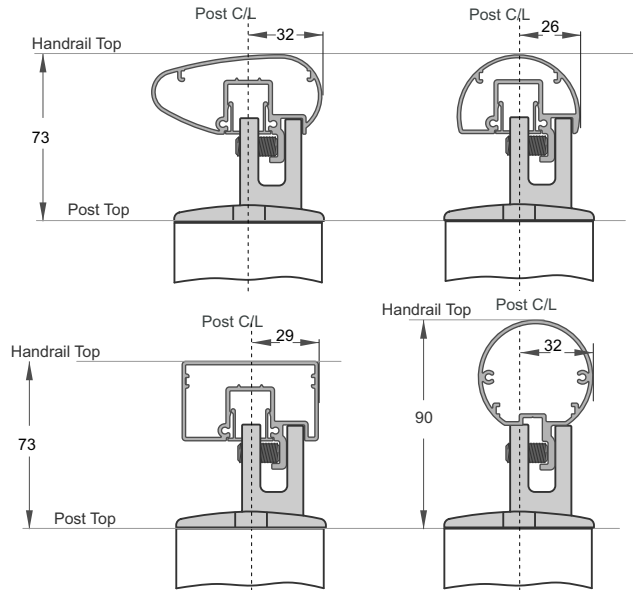
Juralco EDGE® Balustrade System - Design Details

60mm Slat - Split Rail. Handrail + Top and Bottom Rail. Gutter Brkt Face Fix

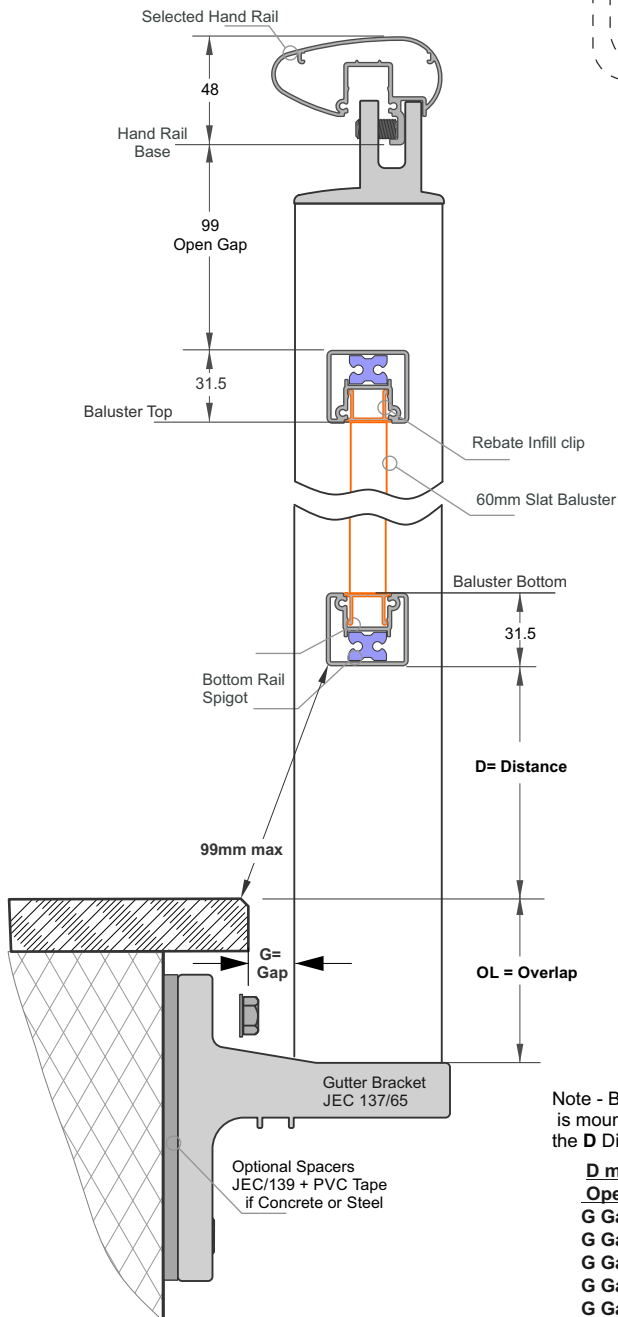
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm

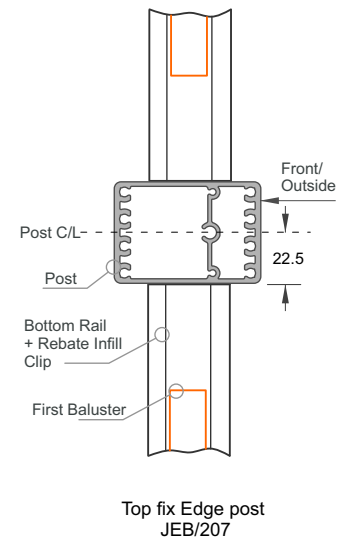
G Gap = 20mm, D = 92mm

G Gap = 30mm, D = 88mm

G Gap = 40mm, D = 82mm

G Gap = 50mm, max D = 75mm

4 - Width Offsets



5 - Cutting, nominal

a - Hand Rail = Use maximum lengths

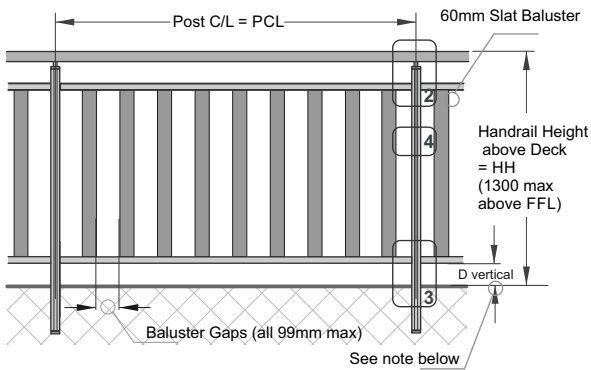
b - Post, Cut to
= HH-73+OL

c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45

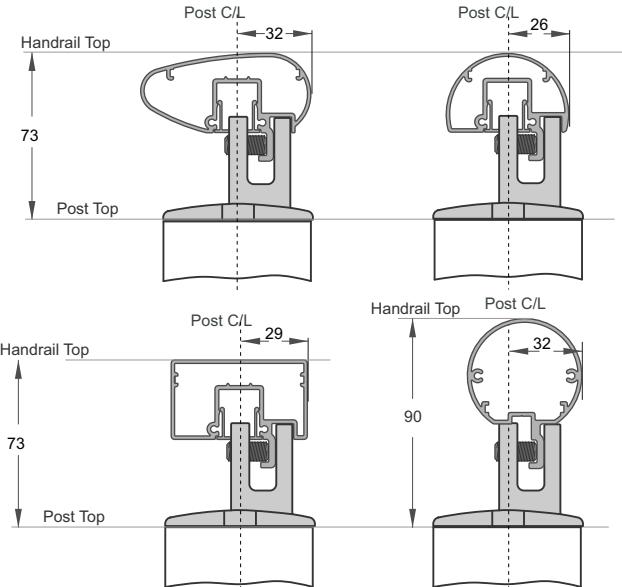
d - 60mm Slat Baluster, Cut to
= HH-48-99-31.5x2-D = HH - 210 - D

60mm Slat - Split Rail. Handrail + Top and Bottom Rail. Face Fix

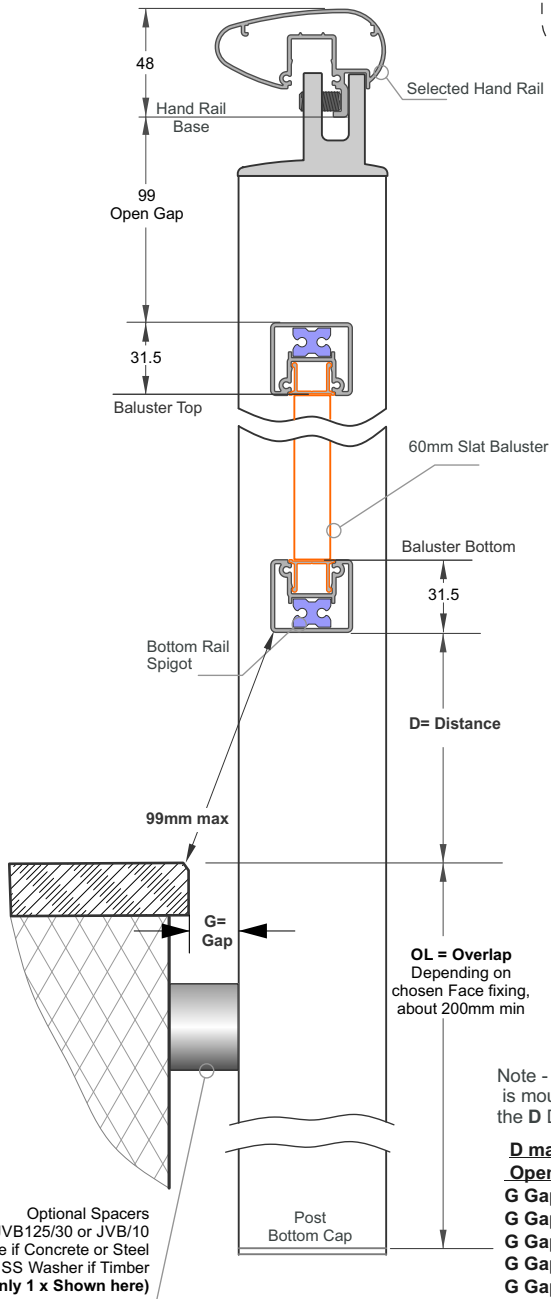
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



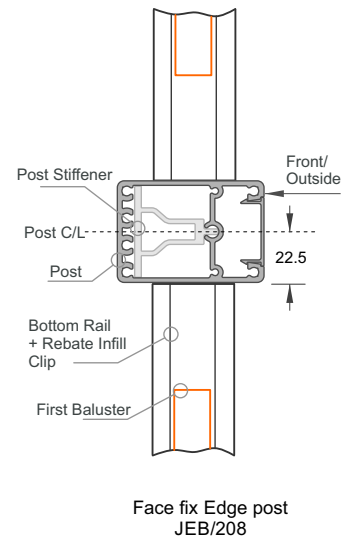
3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck
 G Gap = 10mm, D = 96mm
 G Gap = 20mm, D = 92mm
 G Gap = 30mm, D = 88mm
 G Gap = 40mm, D = 82mm
 G Gap = 50mm max, D = 75mm

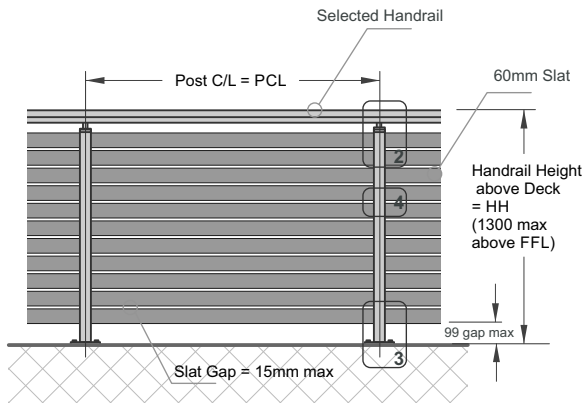
4 - Width Offsets



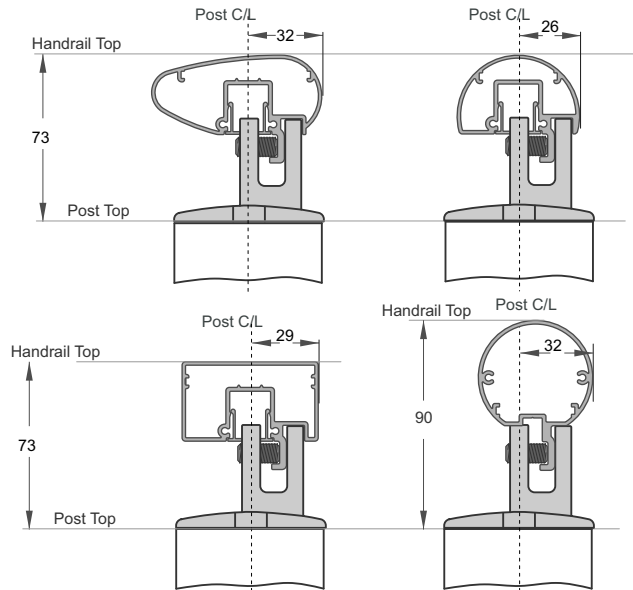
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - Bottom Rail, Cut to
= PCL-2x22.5 = PCL - 45
- d - 60mm Slat Baluster, Cut to
= HH-48-99-31.5x2- D = HH - 210 - D

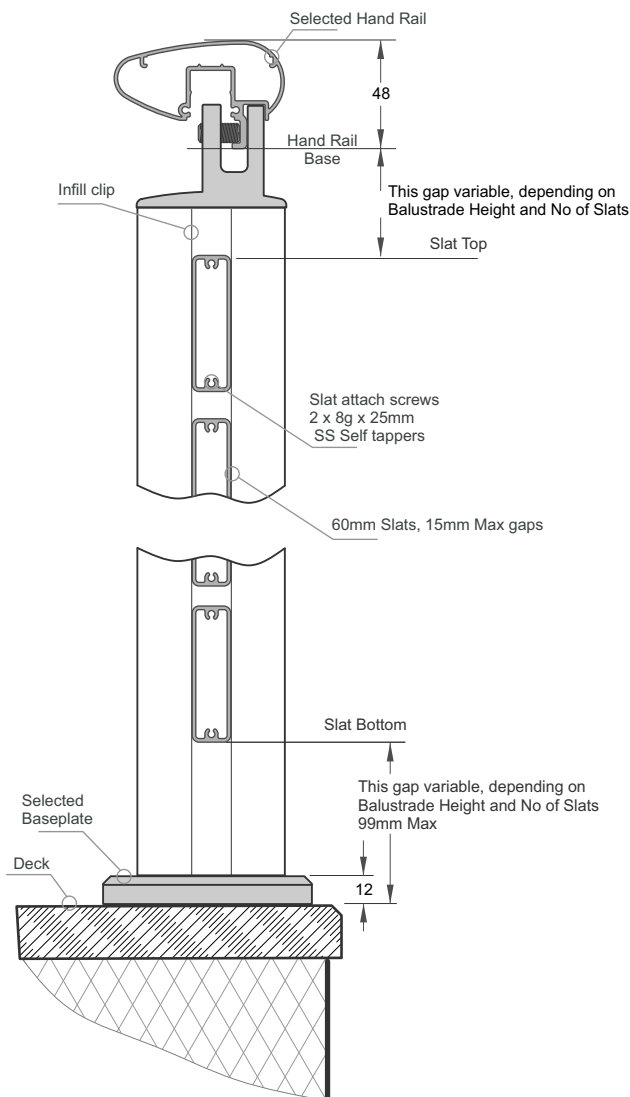
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



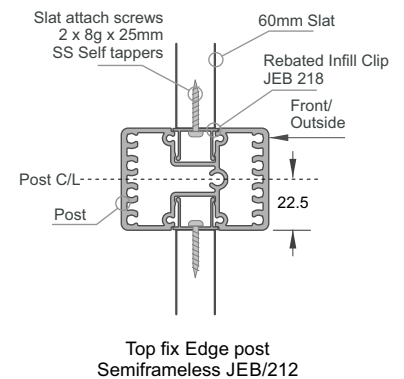
2 - Handrail - Offsets



3 - Height offsets



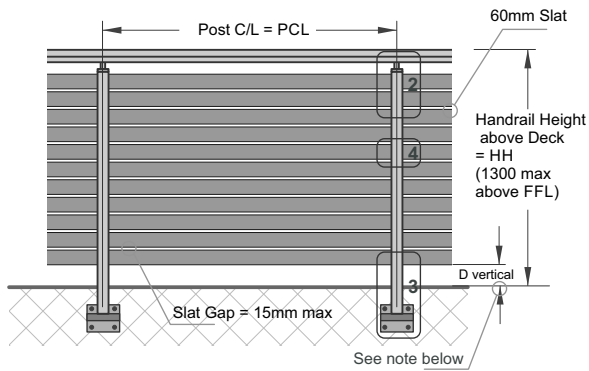
4 - Width Offsets



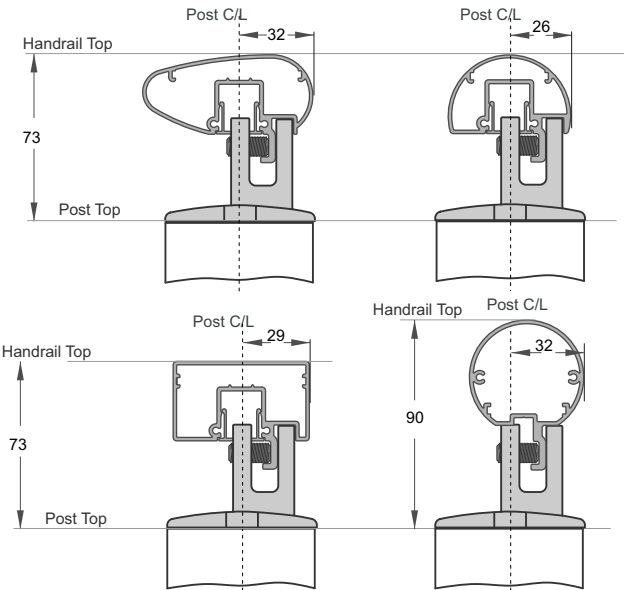
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= $HH - 73 - 12 = HH - 85$
- c - 60mm Slat Cut to
= $PCL - 45$

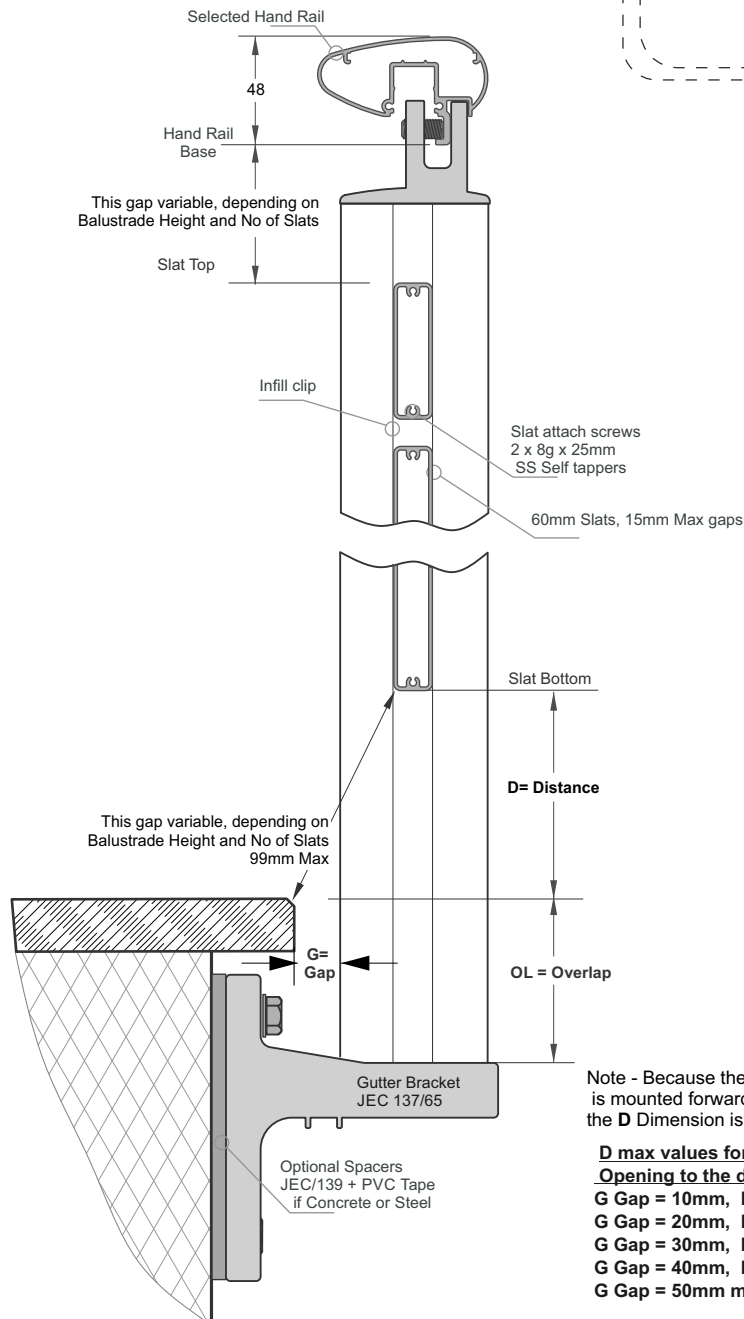
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



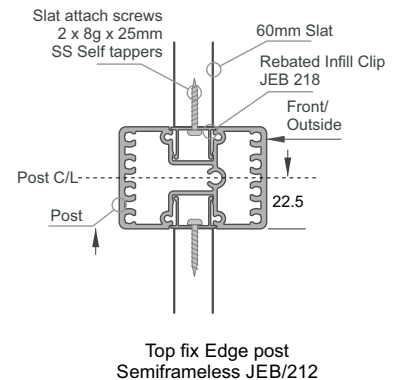
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

- G Gap = 10mm, D = 96mm
- G Gap = 20mm, D = 92mm
- G Gap = 30mm, D = 88mm
- G Gap = 40mm, D = 82mm
- G Gap = 50mm max, D = 75mm

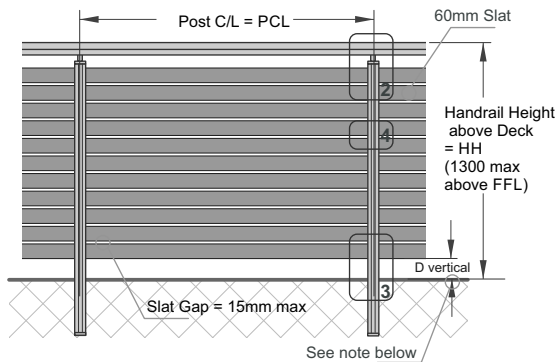
4 - Width Offsets



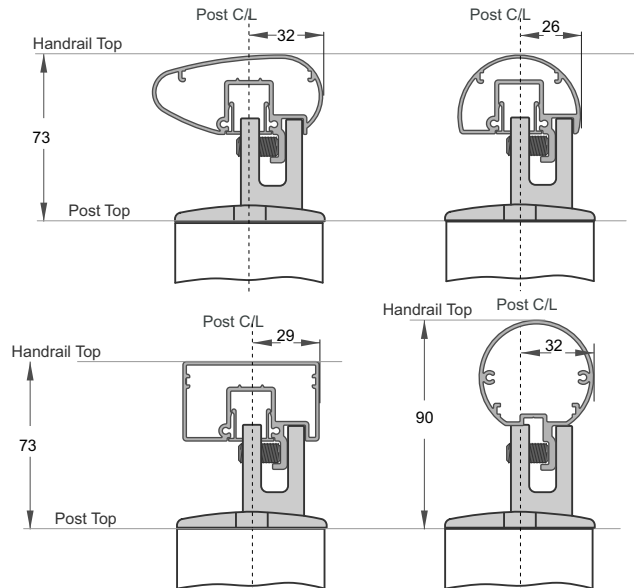
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to = HH-73+OL
- c - 60mm Slat Cut to = PCL - 45

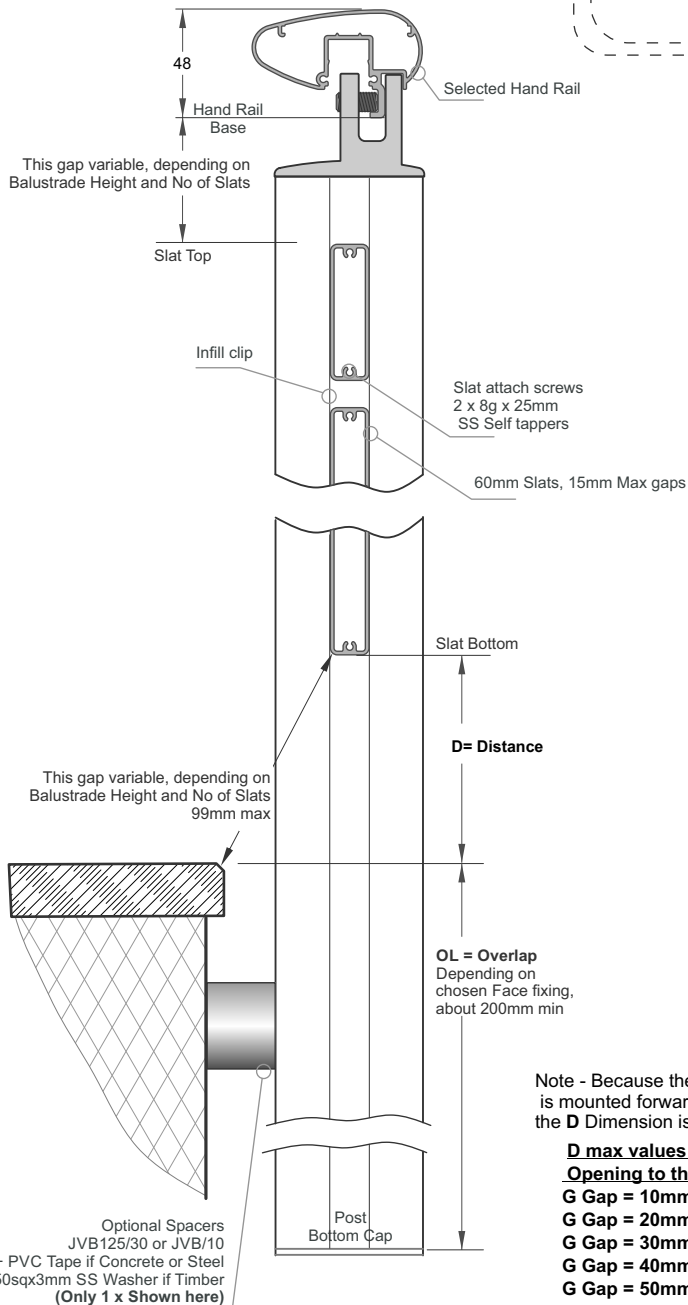
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



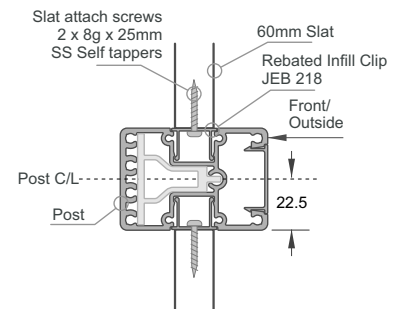
Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm
G Gap = 20mm, D = 92mm
G Gap = 30mm, D = 88mm
G Gap = 40mm, D = 82mm
G Gap = 50mm max, D = 75mm

4 - Width Offsets

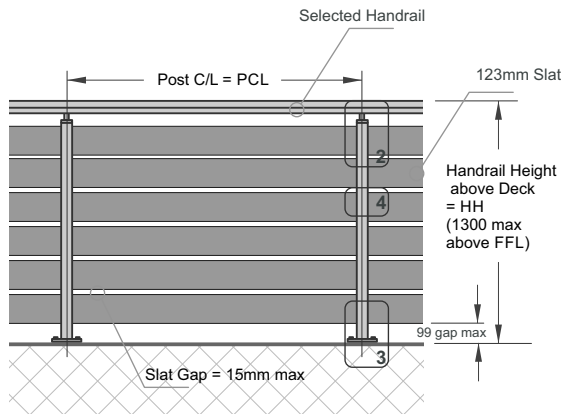


Face fix Edge post Semiframeless JEB/214

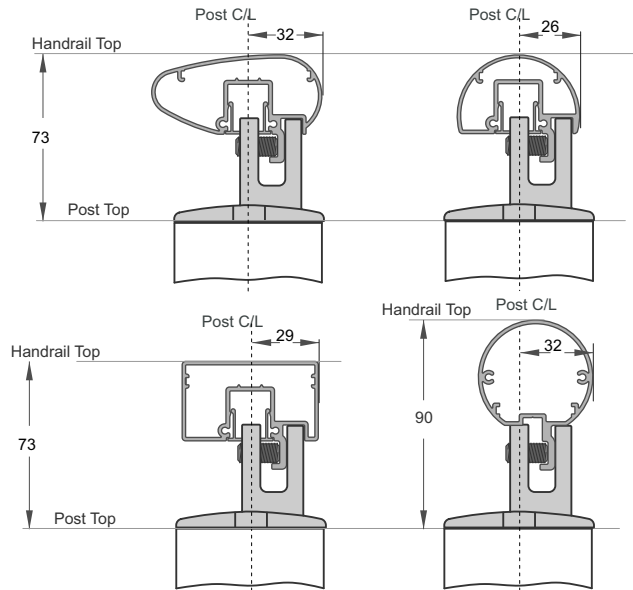
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to = $HH - 73 + OL$
- c - 60mm Slat Cut to = $PCL - 45$

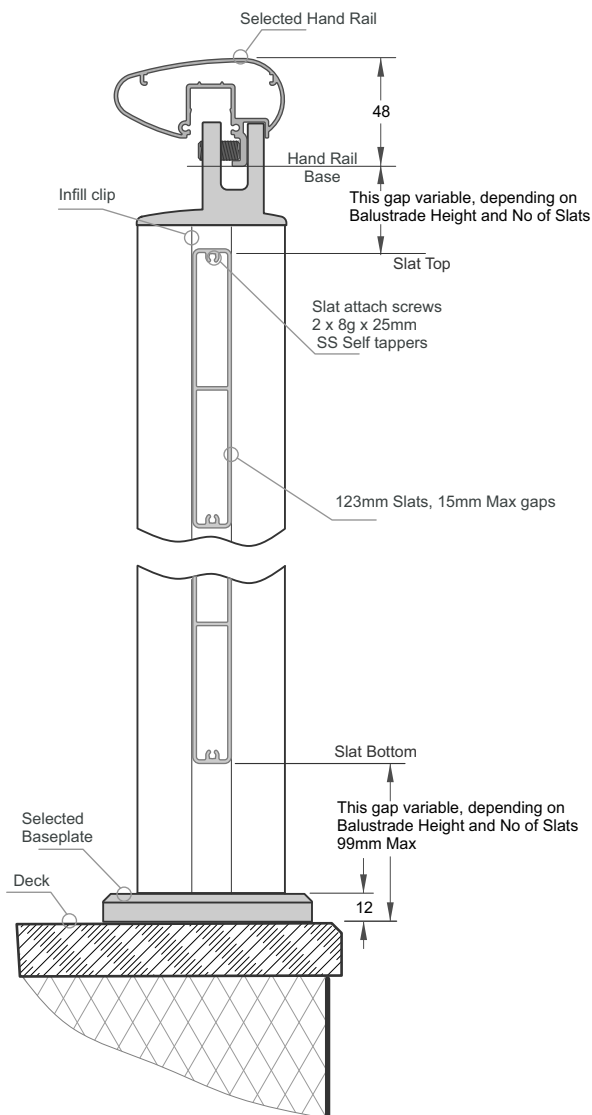
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



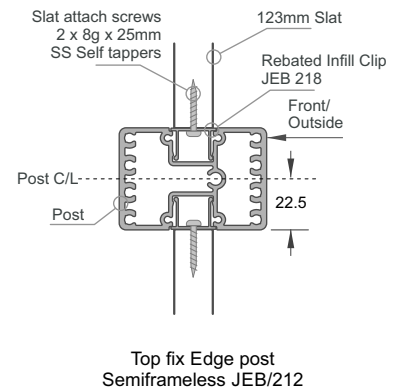
2 - Handrail - Offsets



3 - Height offsets



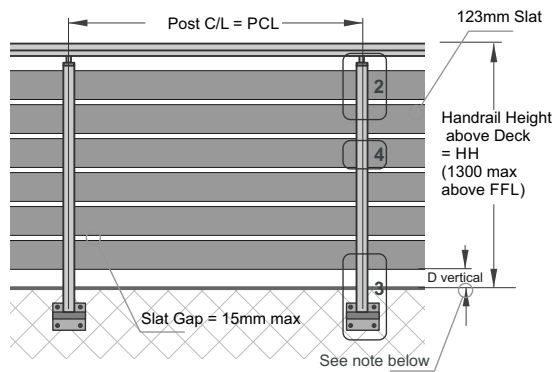
4 - Width Offsets



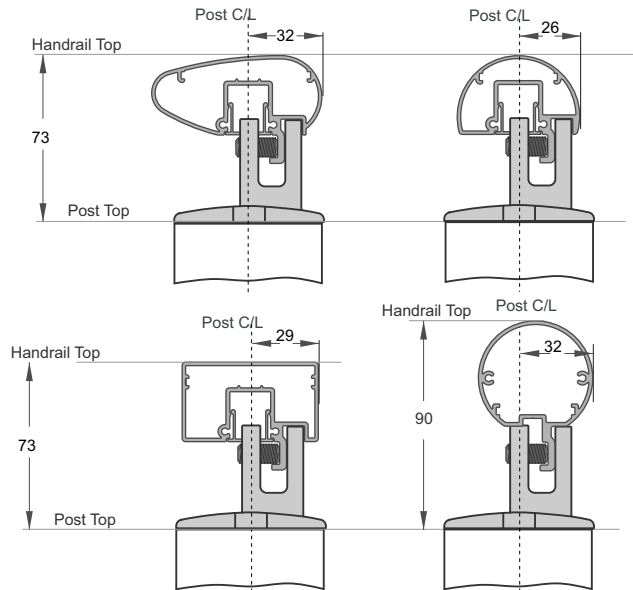
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73-12 = HH - 85
- c - 123mm Slat Cut to
= PCL - 45

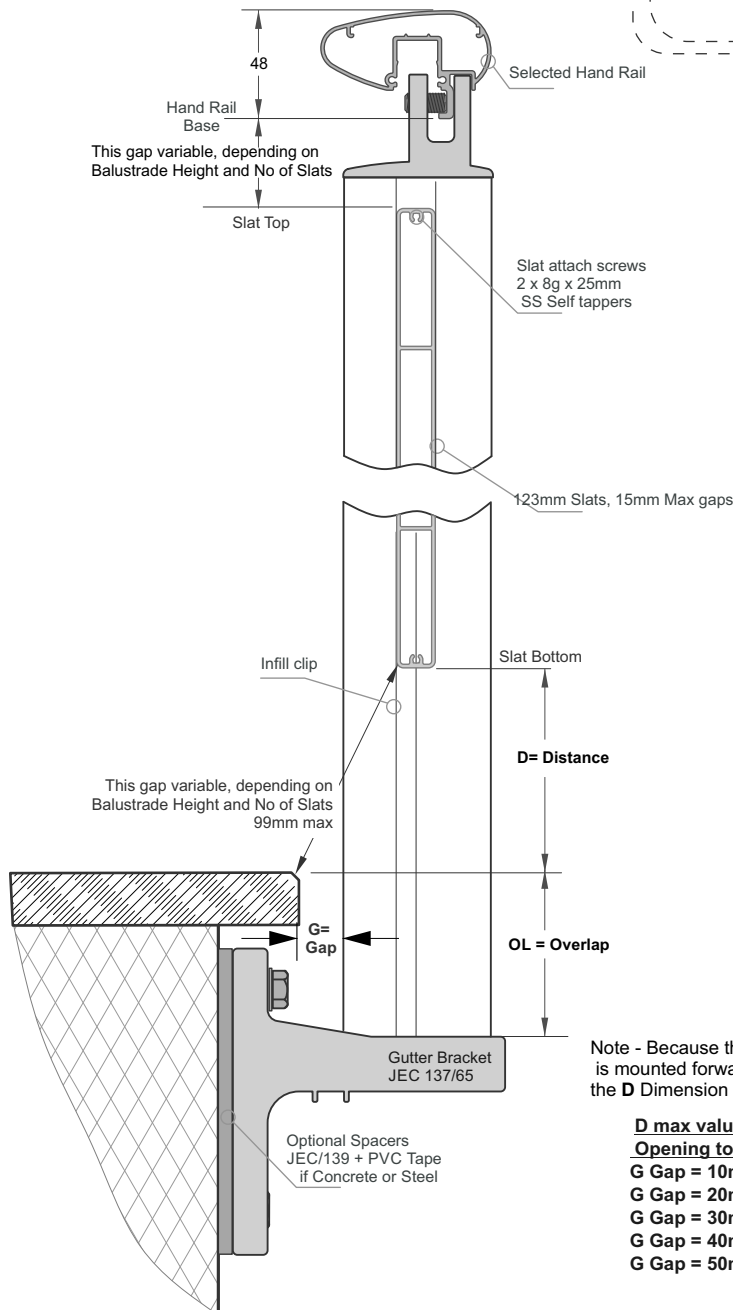
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets



Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm

Opening to the deck

G Gap = 10mm, D = 96mm

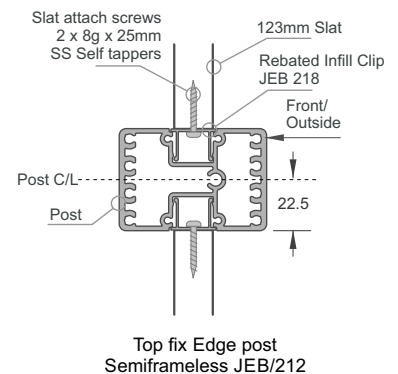
G Gap = 20mm, D = 92mm

G Gap = 30mm, D = 88mm

G Gap = 40mm, D = 82mm

G Gap = 50mm max, D = 75mm

4 - Width Offsets



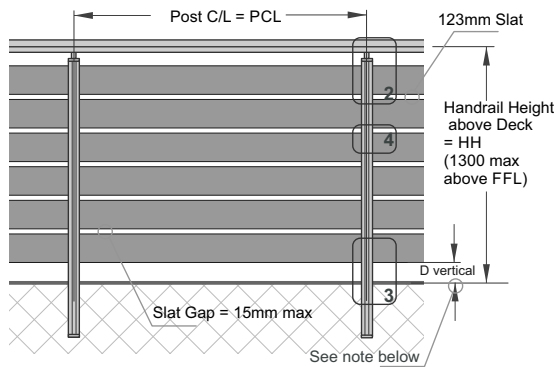
5 - Cutting, nominal

a - Hand Rail = Use maximum lengths

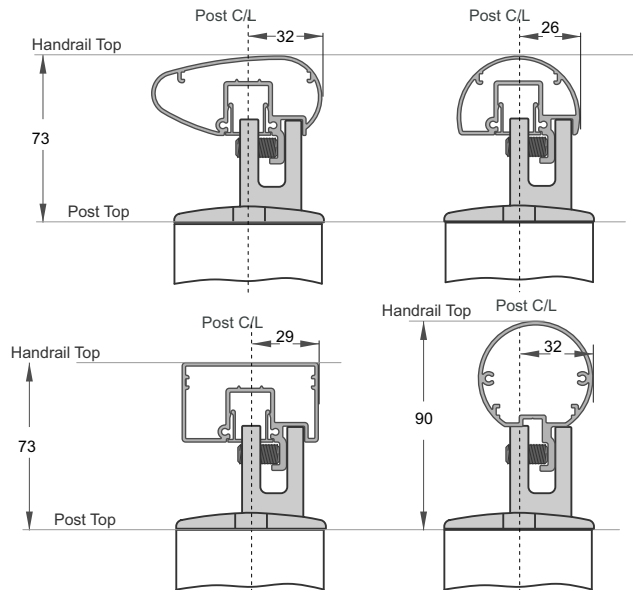
b - Post, Cut to
= HH-73+OL

c - 60mm Slat Cut to
= PCL - 45

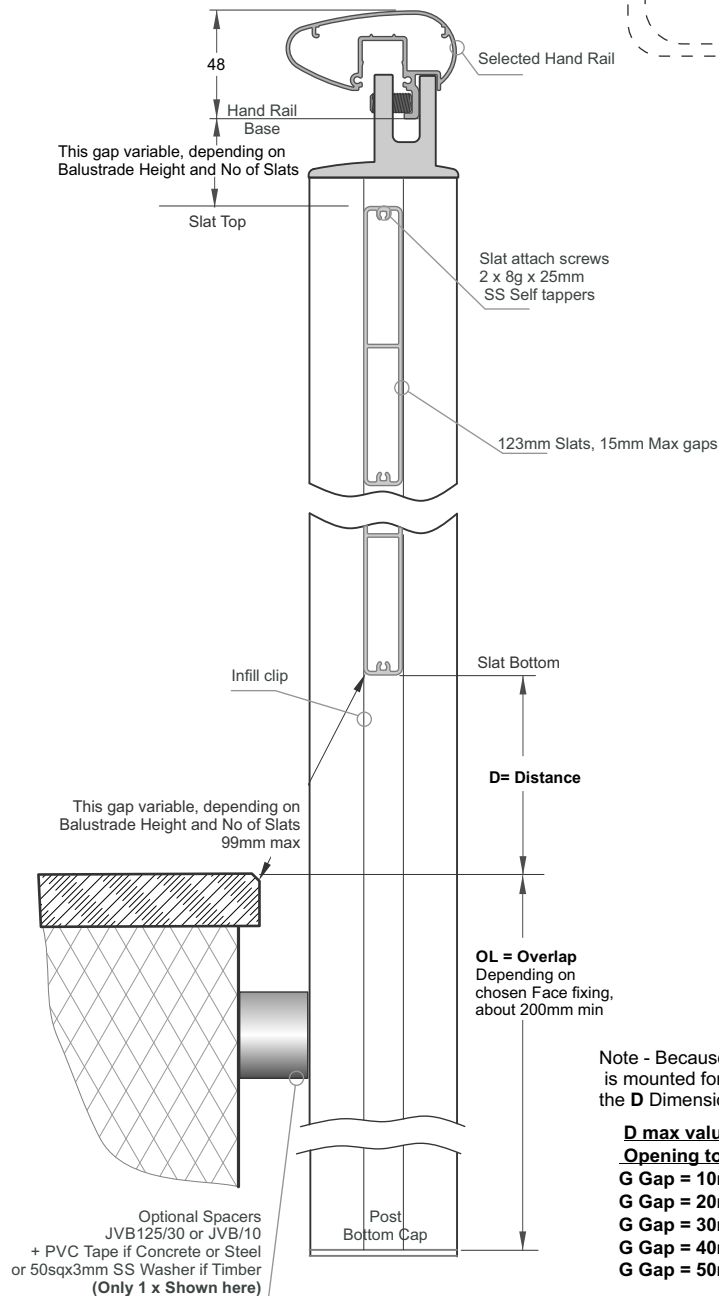
1 - Refer Post Mounting type and installation Wind zone. Then choose Balustrade Height and max Post spacing.



2 - Handrail - Offsets



3 - Height offsets

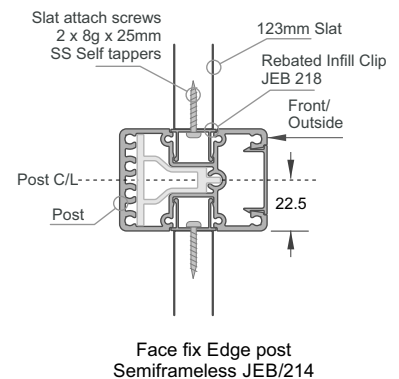


Note - Because the Bottom Rail is mounted forward of the Deck Edge the D Dimension is no longer 99mm.

D max values for a 99mm Opening to the deck

G Gap = 10mm	D = 96mm
G Gap = 20mm	D = 92mm
G Gap = 30mm	D = 88mm
G Gap = 40mm	D = 82mm
G Gap = 50mm max	D = 75mm

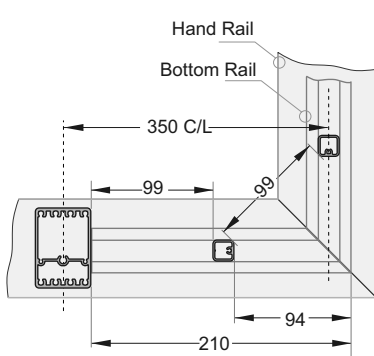
4 - Width Offsets



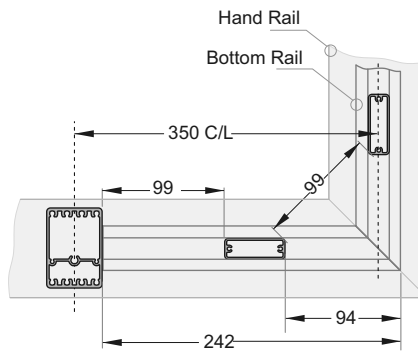
5 - Cutting, nominal

- a - Hand Rail = Use maximum lengths
- b - Post, Cut to
= HH-73+OL
- c - 60mm Slat Cut to
= PCL - 45

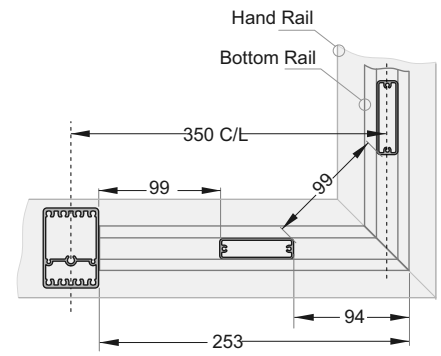
These Set out constraints apply to all 17mm sq Balusters, 49mm and 60mm Slats



17mm sq Balusters
215mm C/L max

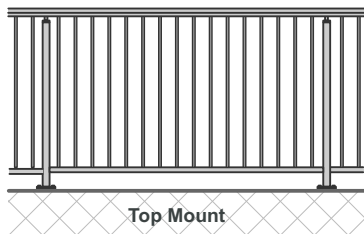


49mm Slats
247mm C/L max

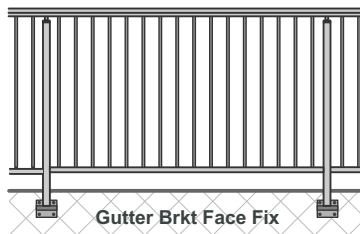


60mm Slats
258mm C/L max

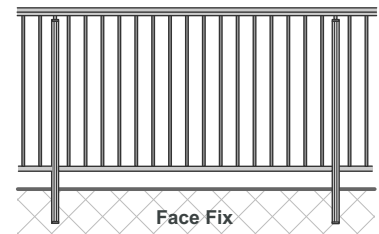
17mm Baluster - Full Height. Handrail + Bottom Rail. Top Mount, Gutter Brkt Face Fix or Face Fix



Top Mount

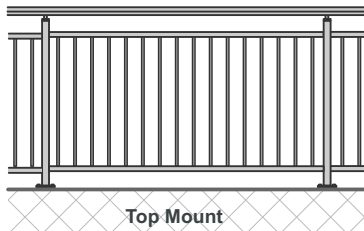


Gutter Brkt Face Fix

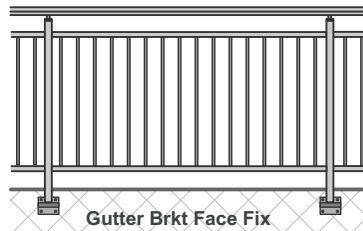


Face Fix

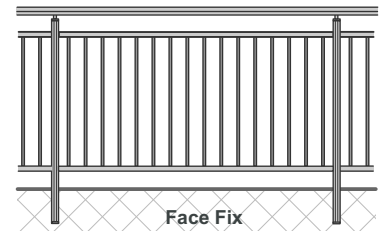
17mm Baluster - Split Rail. Handrail + Top and Bottom Rail. Top Mount, Gutter Brkt Face Fix or Face Fix



Top Mount

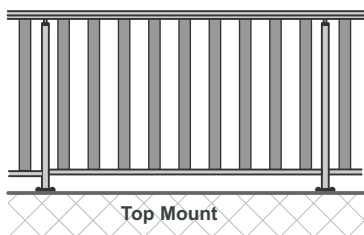


Gutter Brkt Face Fix

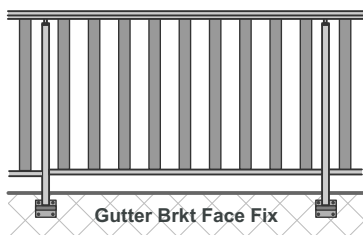


Face Fix

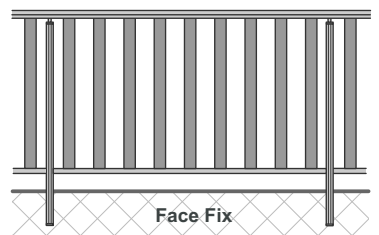
49mm or 60mm Slat - Full Height. Handrail + Bottom Rail. Top Mount, Gutter Brkt Face Fix or Face Fix



Top Mount

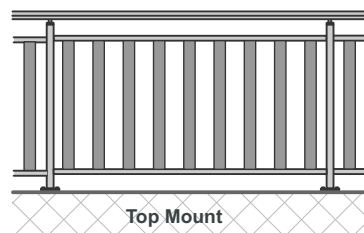


Gutter Brkt Face Fix

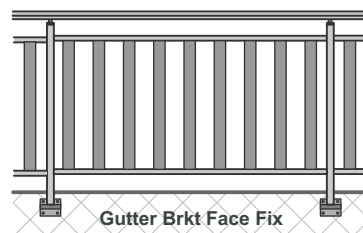


Face Fix

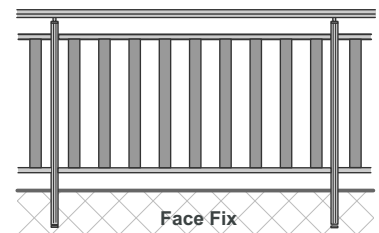
49mm or 60mm Slat - Split Rail. Handrail + Top and Bottom Rail. Top Mount, Gutter Brkt Face Fix or Face Fix



Top Mount



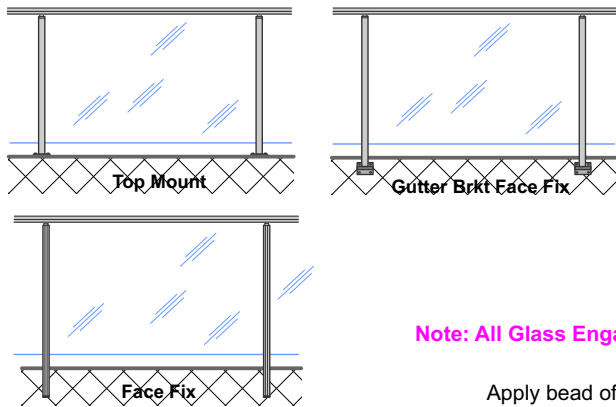
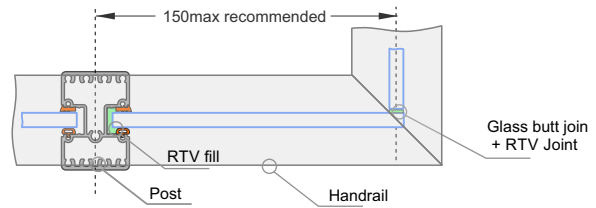
Gutter Brkt Face Fix



Face Fix

Juralco EDGE® Balustrade System - Design Details

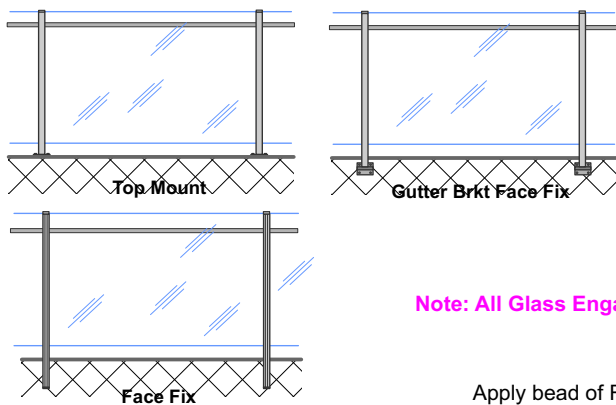
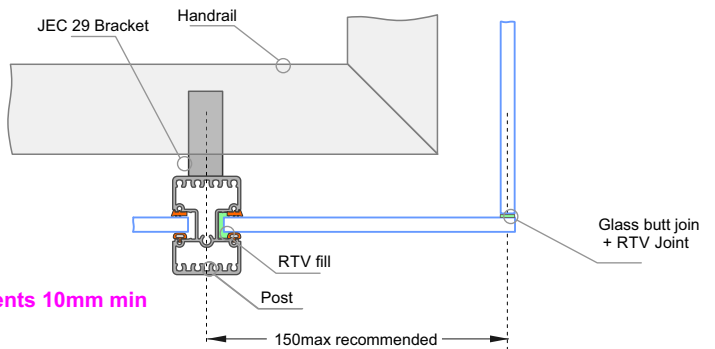
10mm Glass, Inline - Semi Frameless. Hand Rail (Corner Post available for Top Mount)



Note: All Glass Engagements 10mm min

Apply bead of RTV silicon the the inside face of Post Pocket for full height of glass panel

10mm Glass, Inline - Semi Frameless. Hand Rail + JEC 29 Bracket (Corner Post not applicable to Top Mount, this configuration)

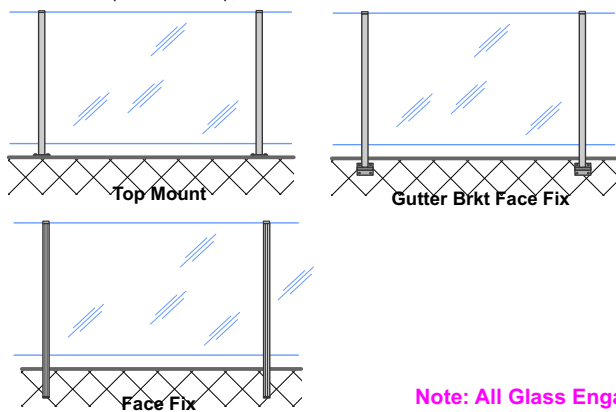
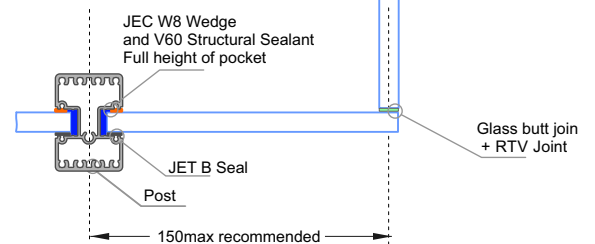


Note: All Glass Engagements 10mm min

Apply bead of RTV silicon the the inside face of Post Pocket for full height of glass panel

13.2mm Laminated Glass, Inline - Semi Frameless.

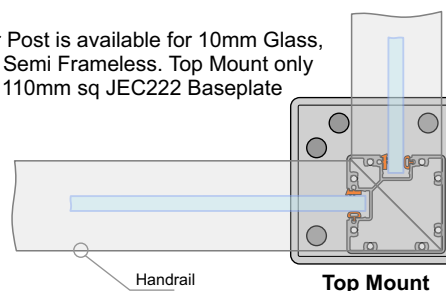
Top Protection Cap, between Posts recommended



Note: All Glass Engagements 10mm min

10mm Glass, Inline - Semi Frameless. Corner Post - Handrail or Interlinking Rail Top Mount only

A Corner Post is available for 10mm Glass,
Inline - Semi Frameless. Top Mount only
with 110mm sq JEC222 Baseplate

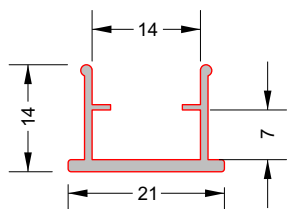


JURALCO

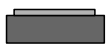
www.juralco.co.nz ph (09) 478 8018

Juralco EDGE® Balustrade Systems

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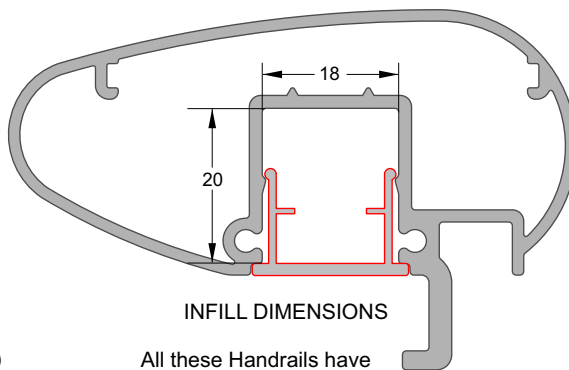
EDGE LED OPAL DIFFUSER
Part No JEC44/3/Opal



LED STRIP
C/w DS tape
(Size to suit)

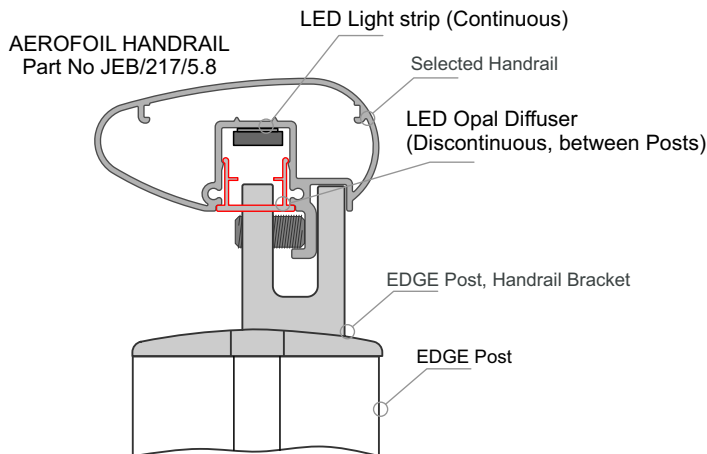
LED Opal Diffuser
(Discontinuous, between Posts)

LED Light strip (Continuous)

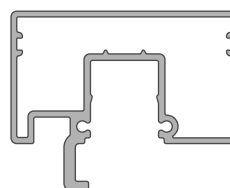


INFILL DIMENSIONS

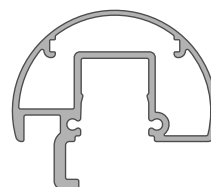
All these Handrails have the same Infill dimensions



Typical Handrail with LED Installed



RECTANGULAR HANDRAIL
Part No JEB/216/5.8

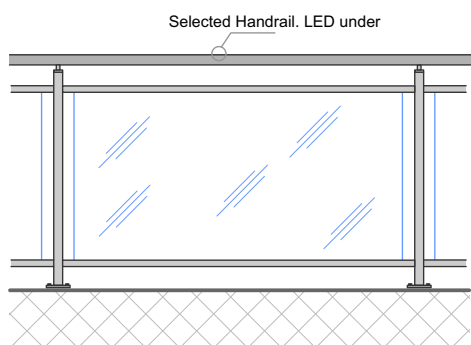


ROUND HANDRAIL
Part No JEB/209/5.8

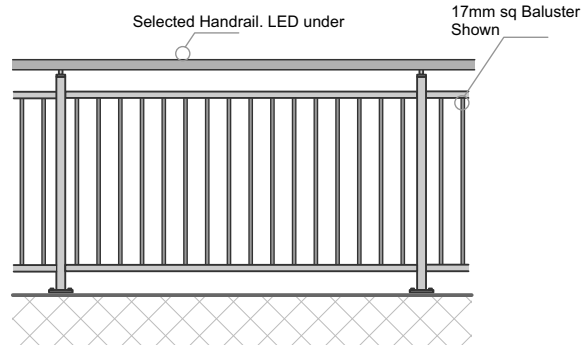
Other Suitable Handrails

EDGE Balustrade LED Lighting Options

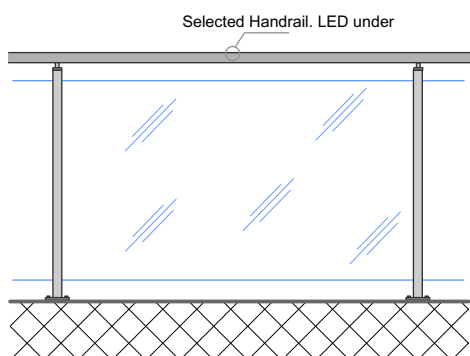
6mm Toughened Glass - Full Height. Handrail + Split Rails.



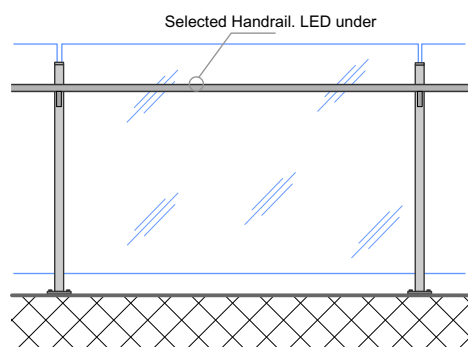
Baluster - Split Rail. Handrail + Top and Bottom Rail.



13.2mm Laminated Toughened Glass - Semi Frameless.

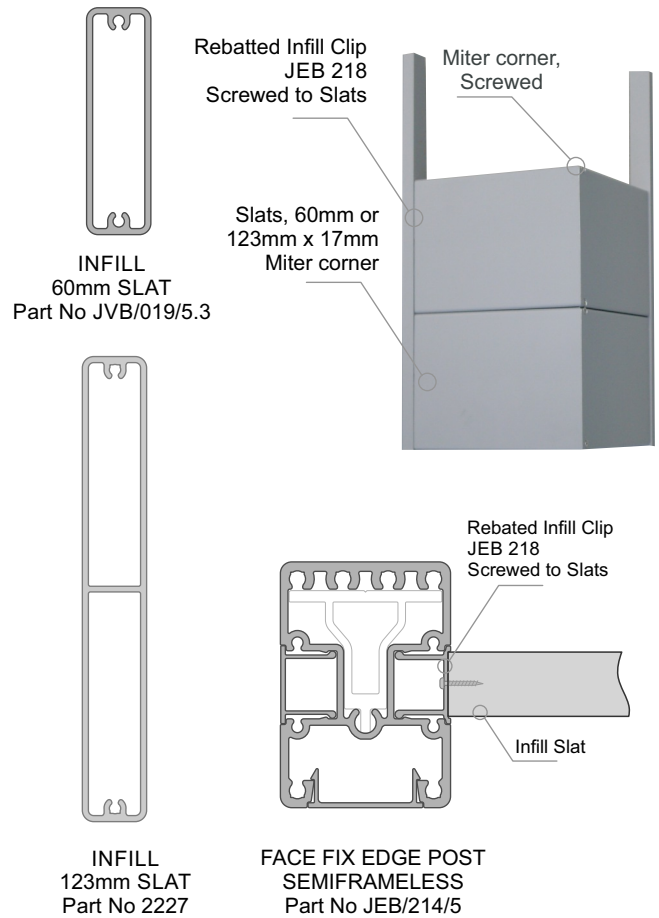
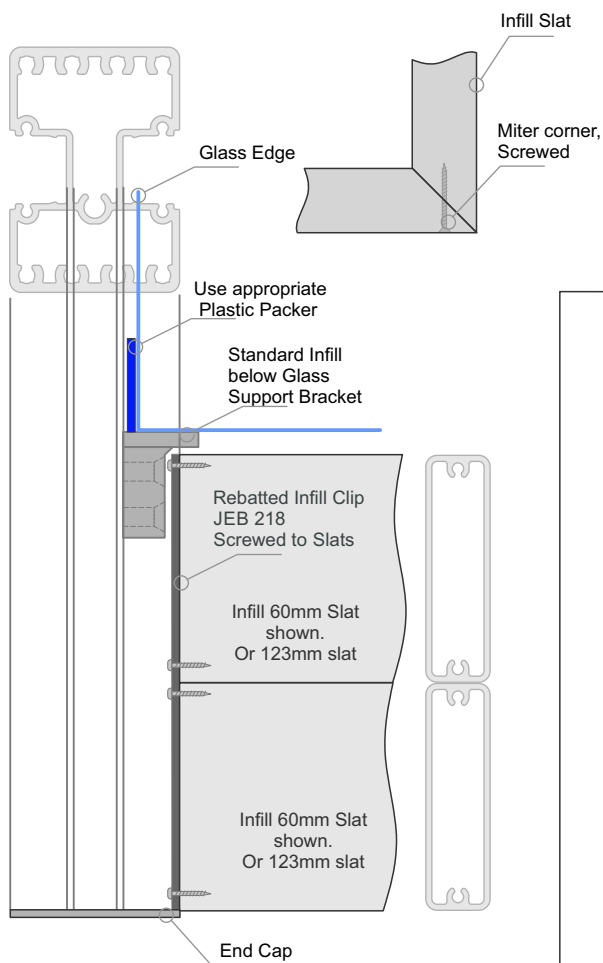


10mm Toughened Glass - Semi Frameless + JEC 29 Bracket mounted on Post + Handrail.



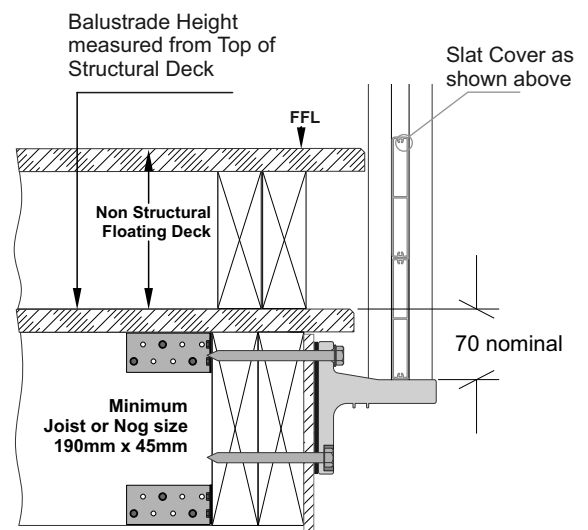


IMPORTANT NOTE: The Balustrade Height is measured from the Top of the Structural Deck, not the Top of the Floating Deck



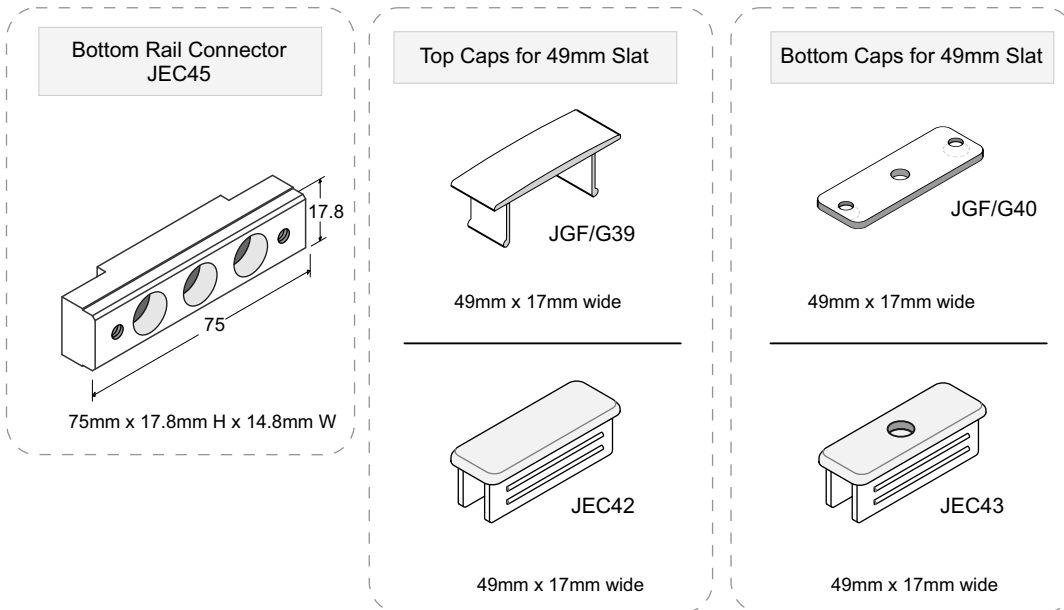
**Basic Floating EDGE Cover Layout
+ Glass Panel Above**

Basic Floating EDGE Cover Layout

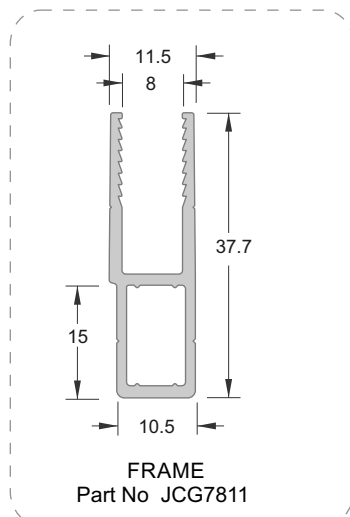
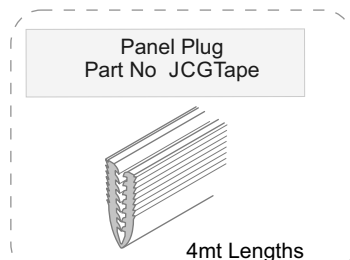
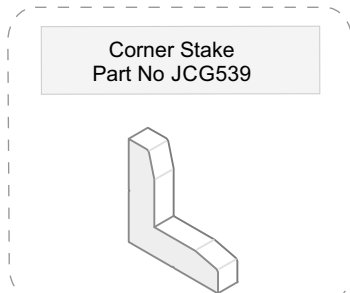


**Basic Floating Deck Layout
Applies to Face fix or Gutter Bracket**

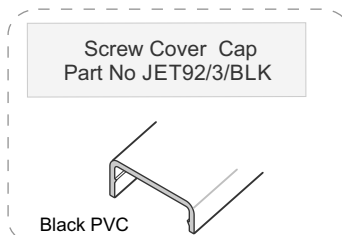
Stecca Balustrade System - Components



**Lamerra™ Balustrade System - Components
For ALL, Panel Insert System**

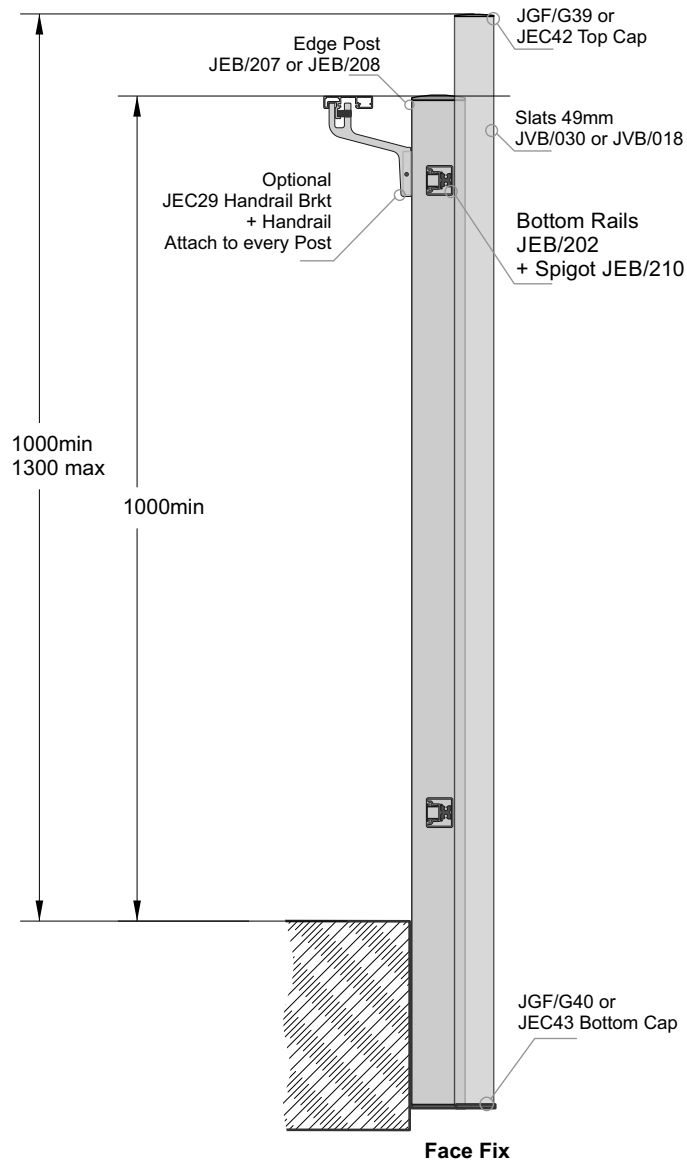
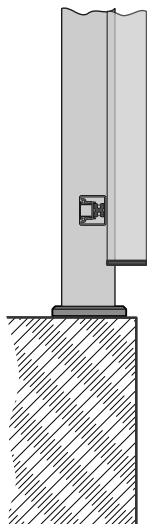
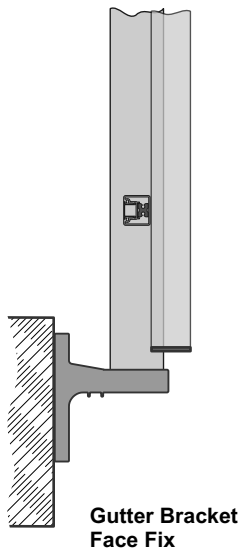


**For Panel Face Fix
Screwed Panel System**

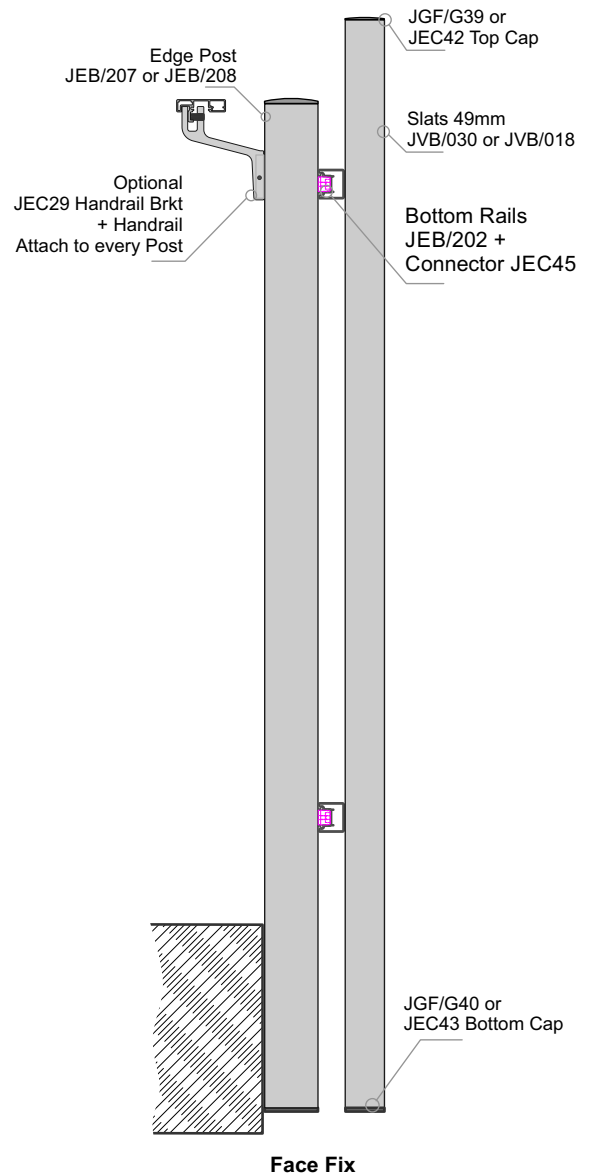
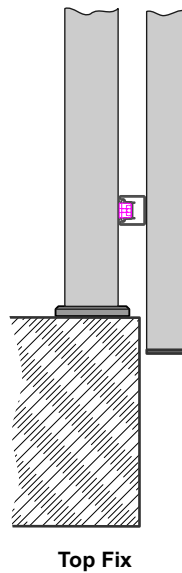
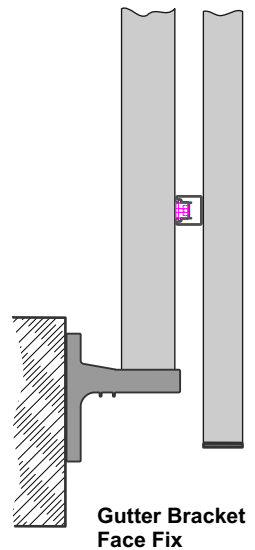


FRAME
Part No JCG7811

**STECCA
Bottom Rails - In Line Mount**

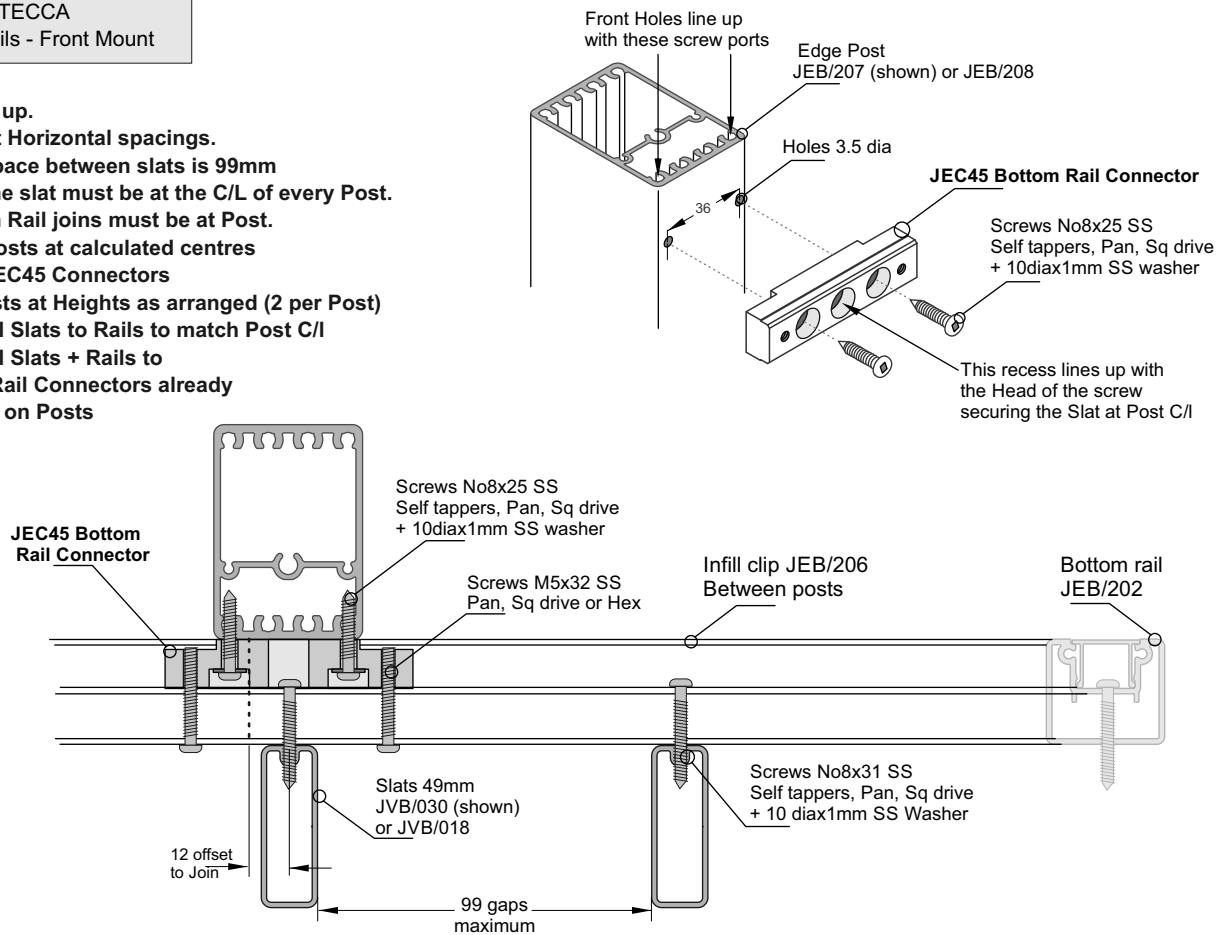


**STECCA
Bottom Rails - Front Mount**



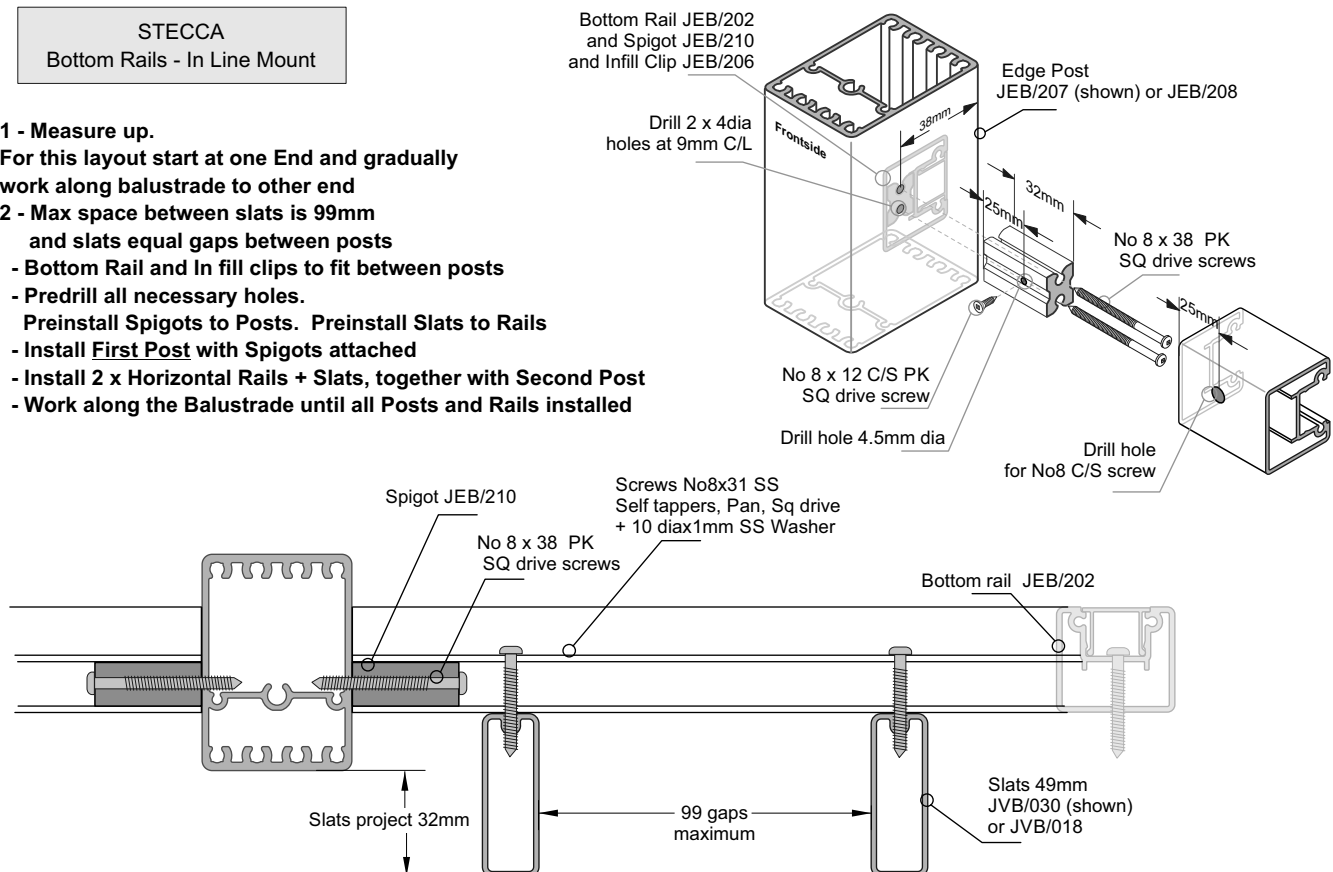
**STECCA
Bottom Rails - Front Mount**

- 1 - Measure up.
 - For Post Horizontal spacings.
Max space between slats is 99mm
and one slat must be at the C/L of every Post.
 - Bottom Rail joins must be at Post.
- 2 - Attach Posts at calculated centres
- 3 - Attach JEC45 Connectors
to Posts at Heights as arranged (2 per Post)
- 4 - Attach all Slats to Rails to match Post C/I
- 5 - Attach all Slats + Rails to
Bottom Rail Connectors already
mounted on Posts

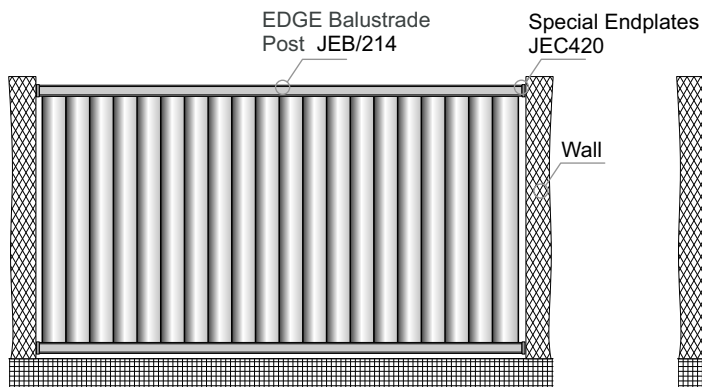


**STECCA
Bottom Rails - In Line Mount**

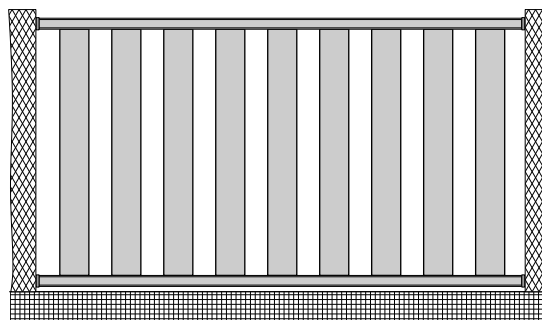
- 1 - Measure up.
- For this layout start at one End and gradually
work along balustrade to other end
- 2 - Max space between slats is 99mm
and slats equal gaps between posts
- Bottom Rail and In fill clips to fit between posts
- Predrill all necessary holes.
- Preinstall Spigots to Posts. Preinstall Slats to Rails
- Install First Post with Spigots attached
- Install 2 x Horizontal Rails + Slats, together with Second Post
- Work along the Balustrade until all Posts and Rails installed



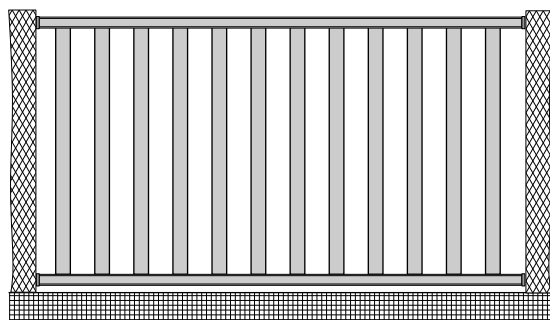
**Juralco EDGE® Balustrade System
Vertical Louvre/Slat/Glass Configurations
For Fixing between Walls or Structural Posts**



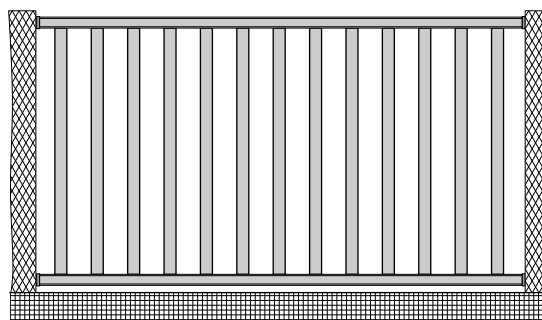
Louvre 120mm JGF/2231 Overlapped



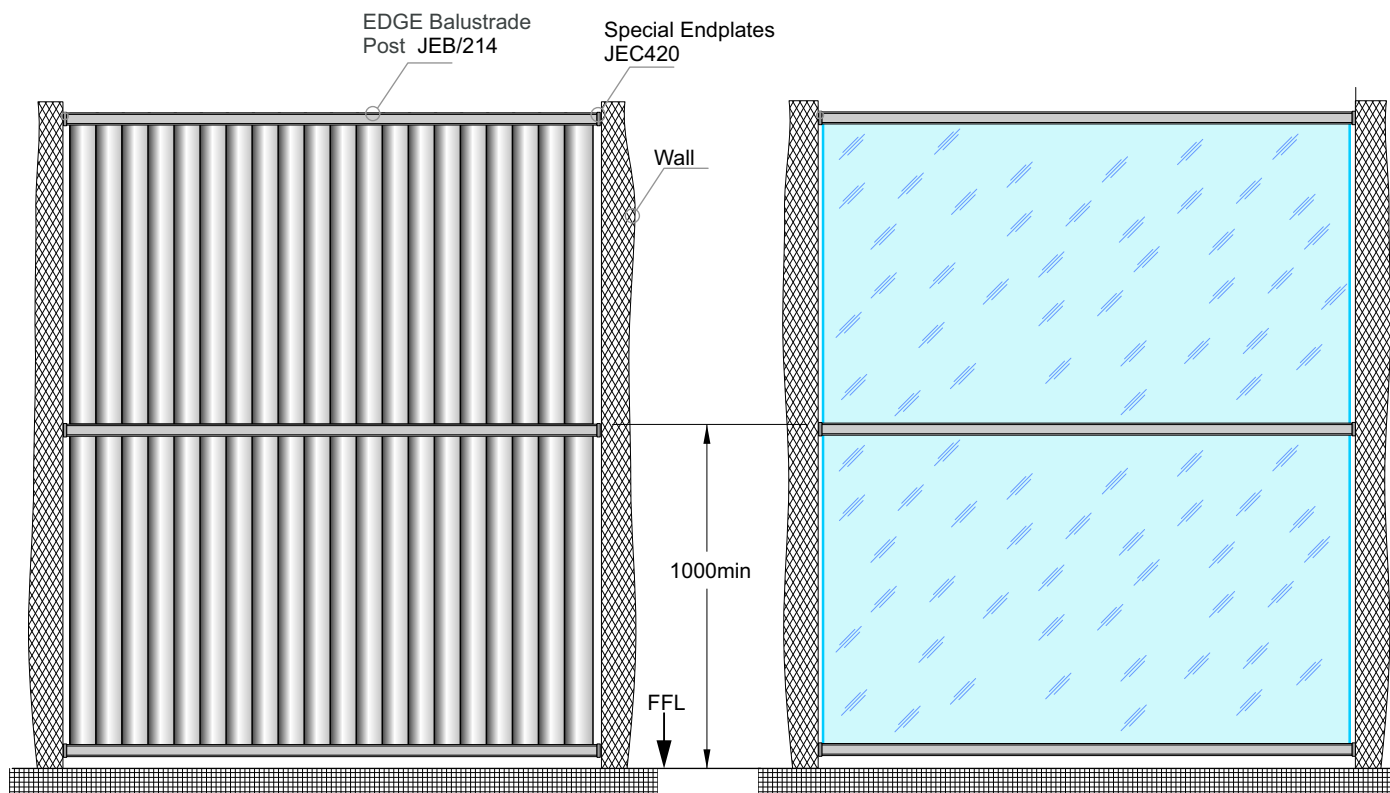
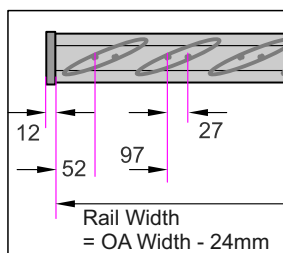
Infill Slat 123mm JGF/2227. Gaps 99mm max



Infill Slat 60mm JVB/019 Gaps 99mm max



Infill Slat 49mm JVB/018 Gaps 99mm max



Louvre 120mm JGF/2231
Overlapped
Width 2000mm max.
Height 2400mm max

**Max Widths for different
Wind Zones**

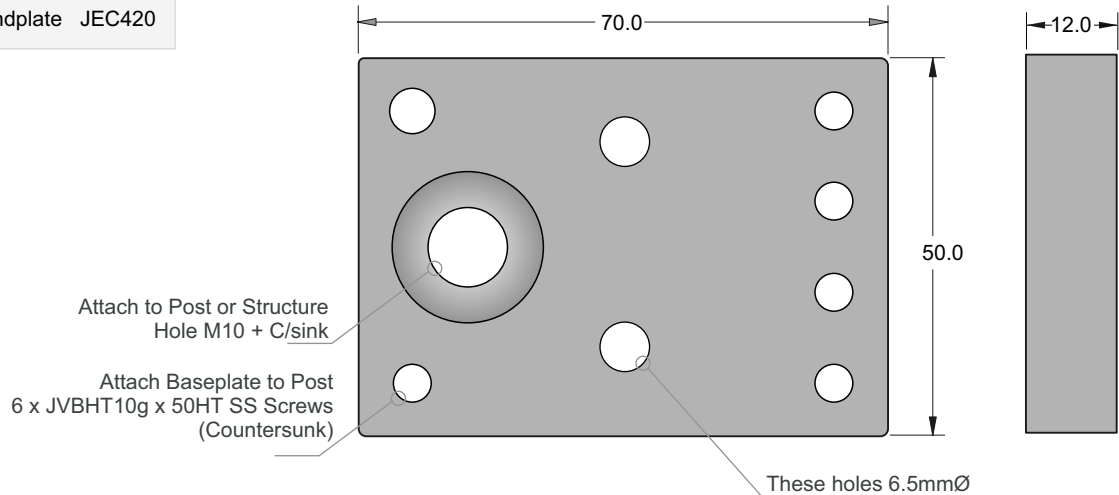
Up to and including Medium WZ	2000mm
Up to and including High WZ	1700mm
Up to and including Very High WZ	1500mm
Up to and including Extra High WZ	1400mm

10mm Toughened Glass
Width 2000mm max.
Height 2400mm max
Refer Wind Zone limitations

Note: Glass Engagements 10mm min

Juralco EDGE® Vertical Louvre/Slat/Glass Configurations
Fixing between Walls or Structural Posts.
Special Endplate JEC420

Special Endplate JEC420



Important Installation Notes:

- 1 - Attaching to Timber.** 4 total (ie 2 x ea ends) M10 x 100 SS C/s Socket drive Coachscrews central in a 90mm stud
Sika Supergrip to full depth. + 2 x 12g x 50mm SS Woodscrews
- 2 - Attaching to Steel.** 2 x M10 x 40 C/s SS Socket drive Machine Screws and Nut+ 2 x M6 SS Bolts
- 3 - Attaching to Concrete.** 2 x M10 Fischer FIS V Fasteners + M10 x 40 C/s SS Socket drive Machine Screw
+ 2 x M6 Fischer FIS V Fasteners + M6 x 30 SS Socket drive Machine Screws

Note: Fixing Options assume End Plates fixed directly to supporting structure

NZBC Compliance

- The Juralco Edge Vertical Louvre, Slat and Glass System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170 : 2002. Occupancy A, B, E, C3,
- NZS 3604 Up to and including Low, Medium, High, Very High Wind Zones. Up to a max Design Wind Speed of 50m/sec but not exceeding a Design Wind Pressure of 1.5kPa
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability and F4 Safety from falling of the Building Code
- Verification Method B1 / VM1, B2/AS1, F4 / As1, F2 Hazardous Building Materials
- Gaps all less than 100mm.

Alternative Fixings, if required

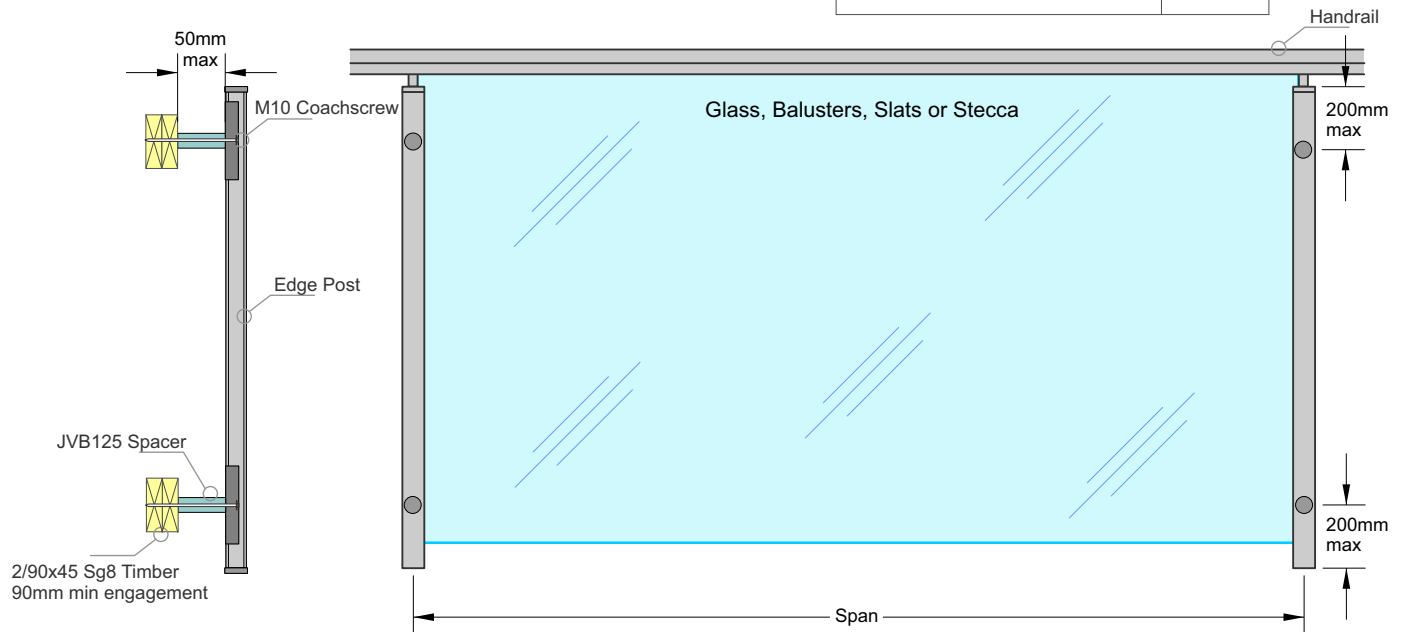
- The Specific Engineering Design should be able to resist $G = 0.5\text{kN}$ Vertical Load. and $W_u = 2.44\text{kN}$ Face load

Juralco EDGE® Balustrade System

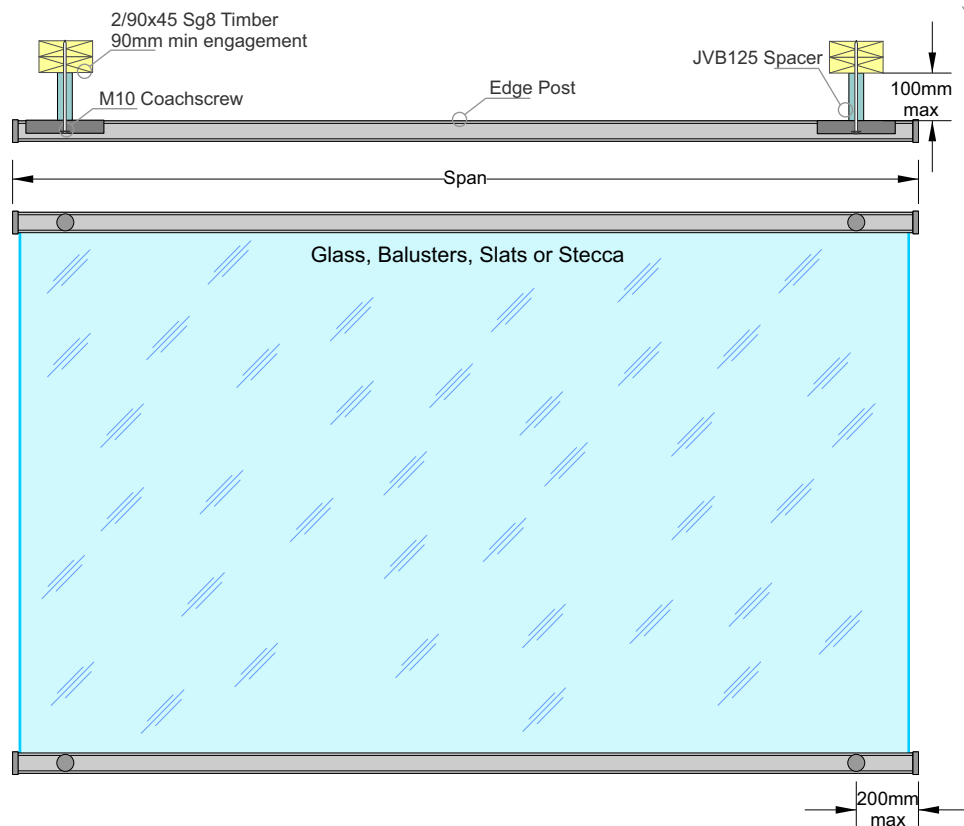
Juliet Balcony or Side Mounted Post Scenario using JVB125 Spacers

Set up 1

Max Widths for Different Wind Zones	
Up to and including Very High WZ	1400mm
Up to and including Extra High WZ	1300mm



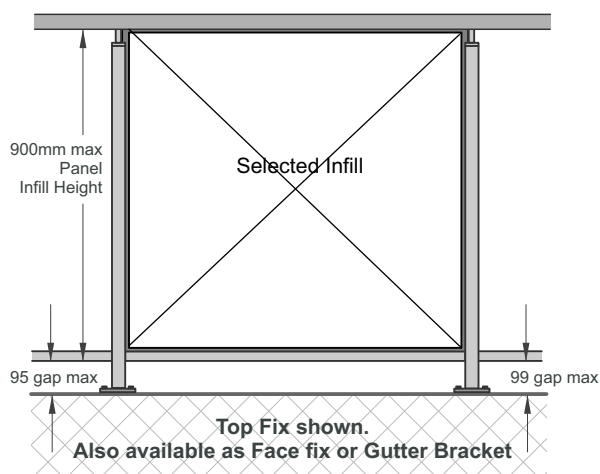
Set up 2 - Horizontal Post Connection



Max Widths for Different Wind Zones

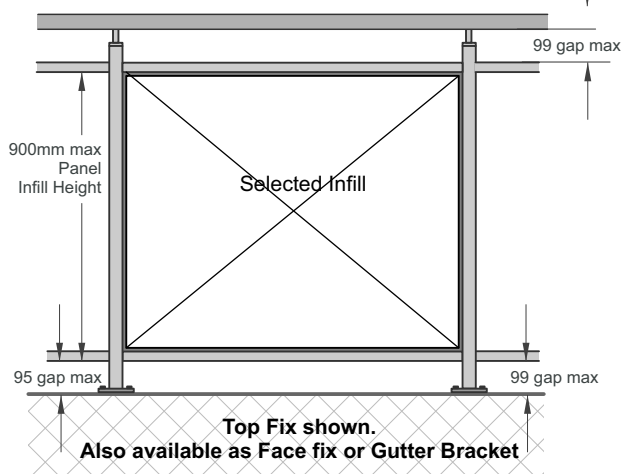
Up to and including Medium WZ	2000mm
Up to and including High WZ	1700mm
Up to and including Very High WZ	1500mm
Up to and including Extra High WZ	1400mm

**Juralco EDGE® Balustrade System
LAMERRA™ Balustrade**
Height, Width, Wind Zones all as per EDGE® Balustrade



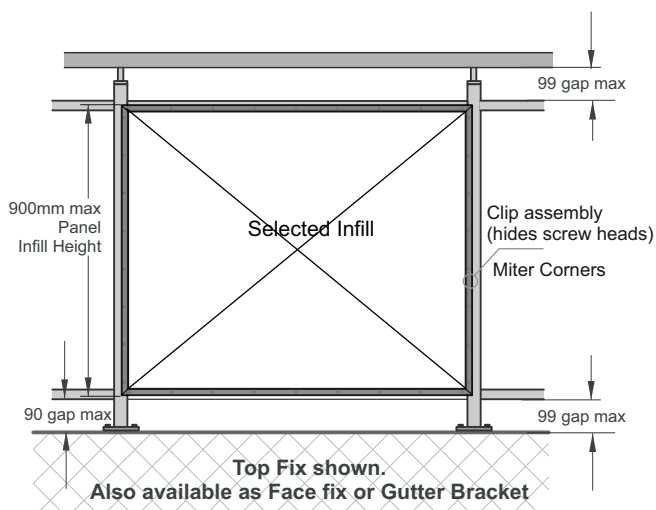
Option 1

- **Metal Panel Inset**, fully recessed into all 4 x sides
- Posts. Edge Framless
- Bottom Rail at base, Handrail at Top
- Bottom Rail, normal C/L mount
- Note the Smaller bottom gap for Face fix



Option 2

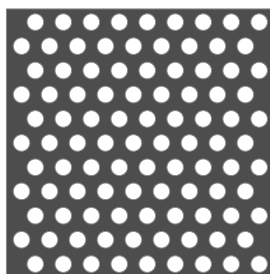
- **Metal Panel Inset**, fully recessed into all 4 x sides
- Posts. Edge (hidden fixing)
- Bottom Rail at Top and Base
- Bottom and Top Rail, normal C/L mount
- Note the Smaller bottom gap for Face fix
- Can use Round Handrail+Mini clip



Option 3

- **Metal Panel, Screw Face Fixed** all 4 x sides
- Posts. Edge (Face fix- exposed Fixings)
- Bottom Rail at Top and Base, Front mounted
- Note the Smaller bottom gap for Face fix
- Can use Round Handrail+Mini clip
- Clip assembly to hide Screw heads

**Clearguard
Perforated Panel Specs**



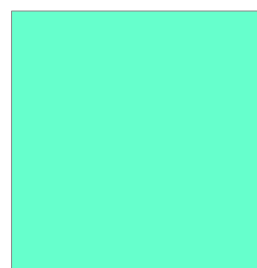
Specifications:
Combined Security and Insect Screen.
Rigid perforated sheet 2.0mm, Hardened
Open area 32%. Sizes 2000, 2400mm
x 750, 900, 1200mm Wide
Finish, Black Powdercoat, SCC

Sheet perforations, Full size

Aluminium Sheet Ordering Codes

JCG/ALA/2.0/BLK	750mm x 2000mm
JCG/ALA/2.4/BLK	750mm x 2400mm
JCG/ALC/2.0/BLK	900mm x 2000mm
JCG/ALC/2.40/BLK	900mm x 2400mm
JCG/ALD/2.0/BLK	1200mm x 2000mm
JCG/ALD/2.40/BLK	1200mm x 2400mm
JCG/ALD/2.4	2400mm x 1200mm

**Plain Panel Specs
Rigid Sheet**



Aluminium Sheet Ordering Codes

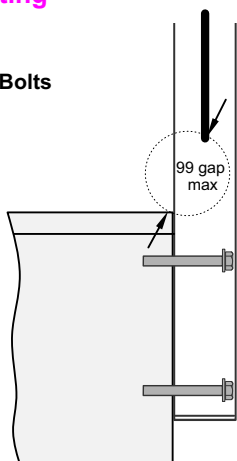
JAS/101440 Can be BLK or SCC	1200 x 2400 x 2.5mm 5052 H34
---------------------------------	---------------------------------

Specifications:
Combined Security and Insect Screen.
Rigid perforated sheet 2.0mm, Hardened
Open area 32%
Size 2400mm x 1200 Only
Finish, Black or any Powdercoat Colour

ALL for Metal Panel Inset
All for Face Hidden mounting

Typical FACE Fix Post JEB/214
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

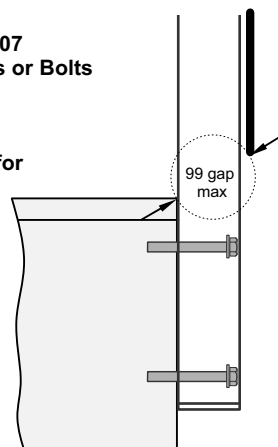
(see individual EDGE pages for
full mounting details)



ALL for Metal Panel Face Fix
All for Face Exposed mounting

Typical FACE Fix Post JEB/207
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

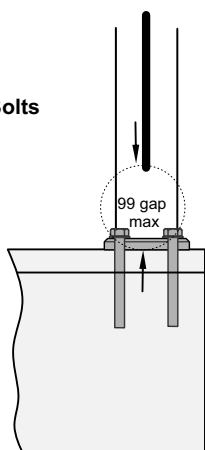
(see individual EDGE pages for
full mounting details)



ALL for Metal Panel Inset
For Top mounting

Typical Top Fix Post JEB/212
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

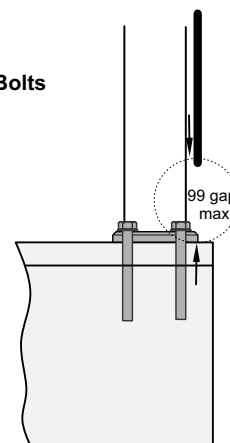
(see individual EDGE pages for
full mounting details)



ALL for Metal Panel Face Fix
For Top mounting

Typical Top Fix Post JEB/207
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

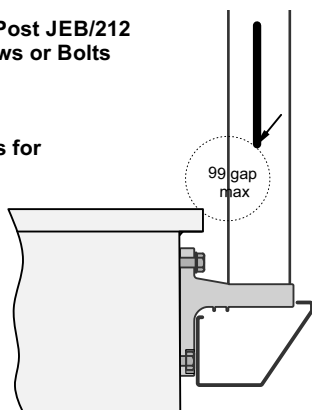
(see individual EDGE pages for
full mounting details)



ALL for Metal Panel Inset
For Gutter Bracket mounting

Typical Gutter Bracket Fix Post JEB/212
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

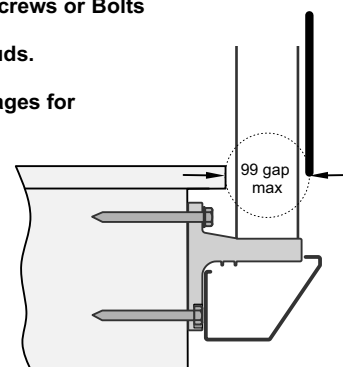
(see individual EDGE pages for
full mounting details)



ALL for Metal Panel Face Fix
For Gutter Bracket mounting

Typical Gutter Bracket Fix Post JEB/207
to Timber with Coachscrews or Bolts
or to Steel with Bolts
or to Concrete with Studs.

(see individual EDGE pages for
full mounting details)



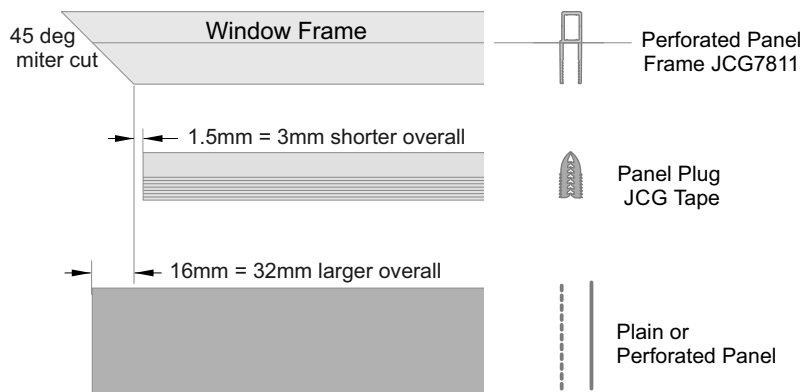
①

Cutting the Metal Sheet

After measuring Post C/L spacings and Height, then making appropriate deductions

Cutting

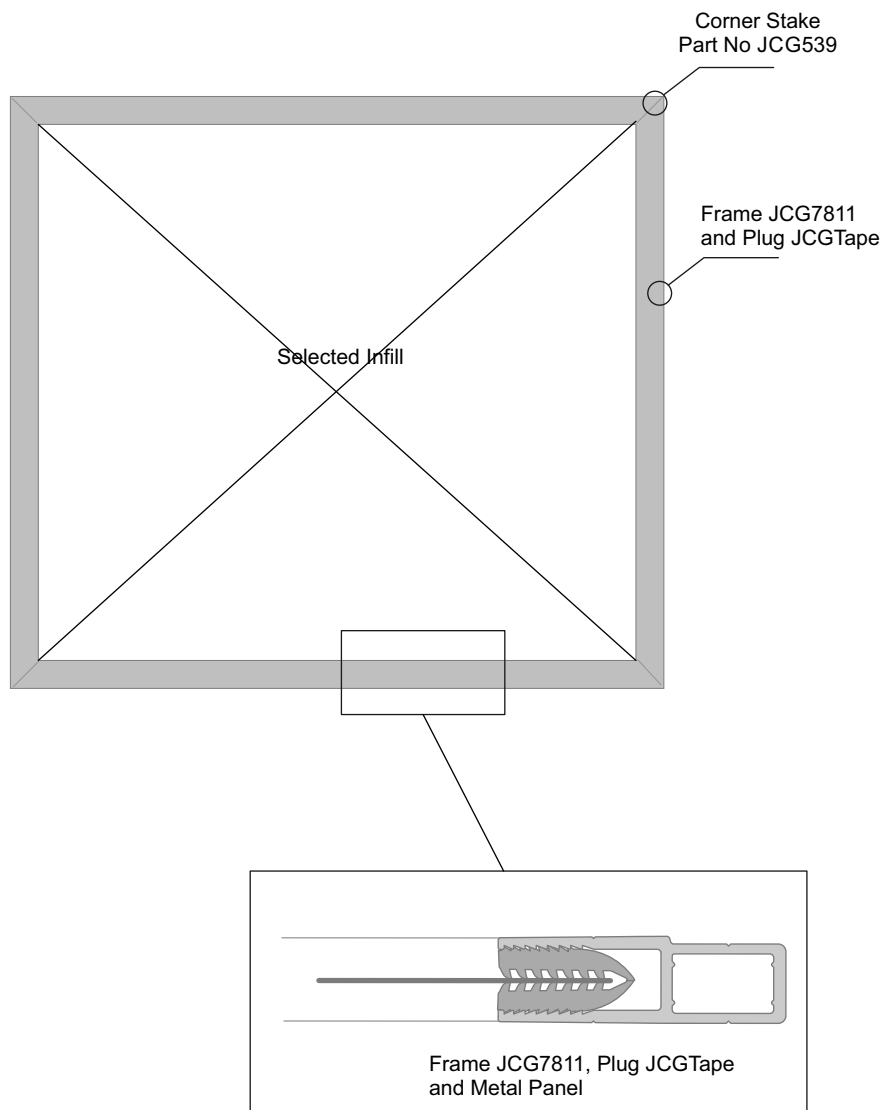
- 1- Cut Frame to measurements at exact 45 deg miters.
- 2 - Cut PVC plugs to length, straight cuts.
- 3 - Cut mid rails (optional), straight cuts.
- 4 - Cut metal sheet, square on all four sides.
- 5 - After cutting the offsets should be as drawn.



Note: IT IS VERY IMPORTANT THAT THE SHEET IS CUT EXACTLY SQUARE AND STRAIGHT

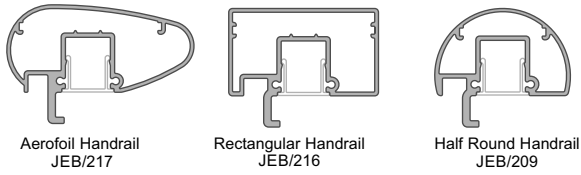
②

Assemble Frame around Metal Panel

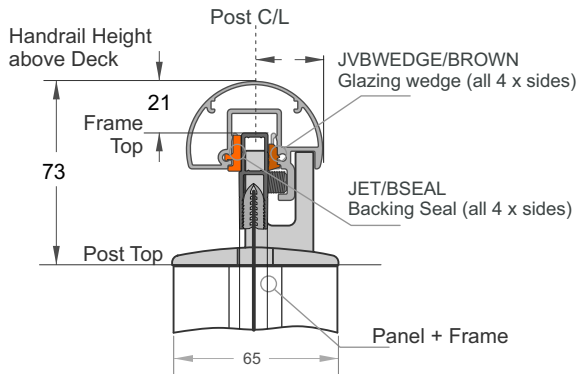


**Option 1
Panel + Frame, Heights**

For Top fix, Face Fix
or Gutter Bracket.
Hidden Fixings

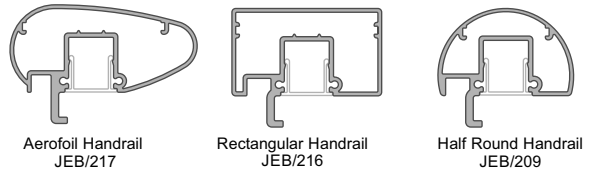
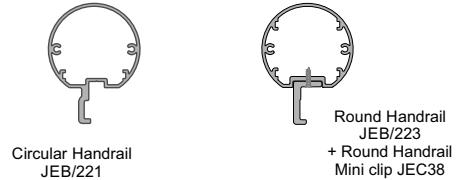


Available Handrails, for Panel Inset into Handrail

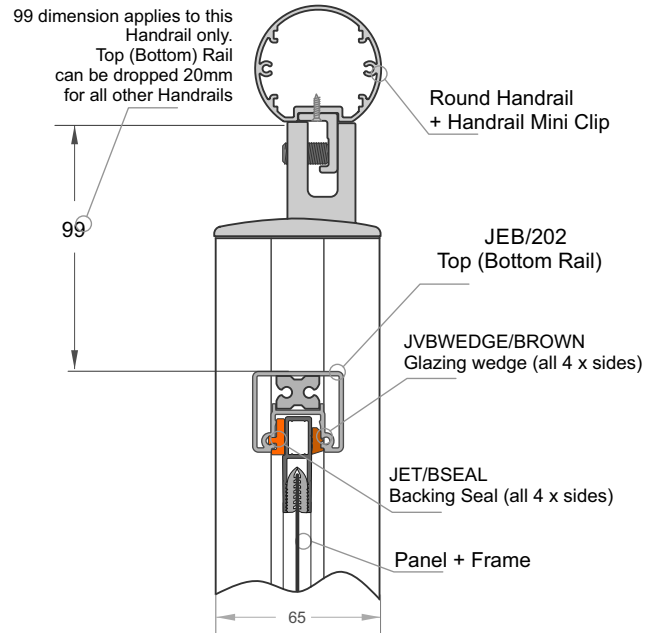


**Option 2
Panel + Frame, Heights**

For Top fix, Face Fix
or Gutter Bracket.
Hidden Fixings

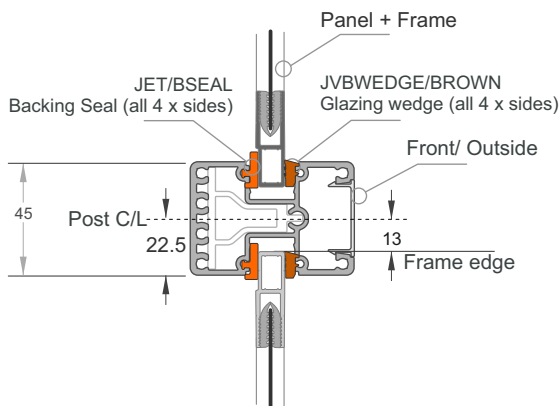


All Handrail types available for this configuration



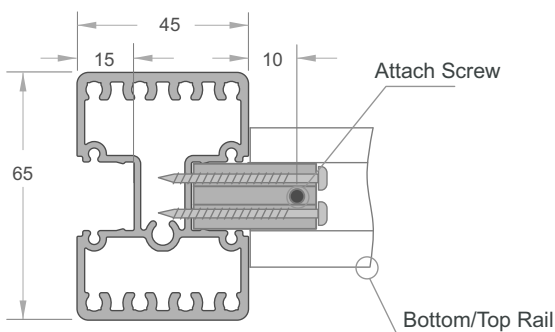
**Options 1 & 2
Panel + Frame, Widths**

For Top fix, Face Fix
or Gutter Bracket.
Hidden Fixings

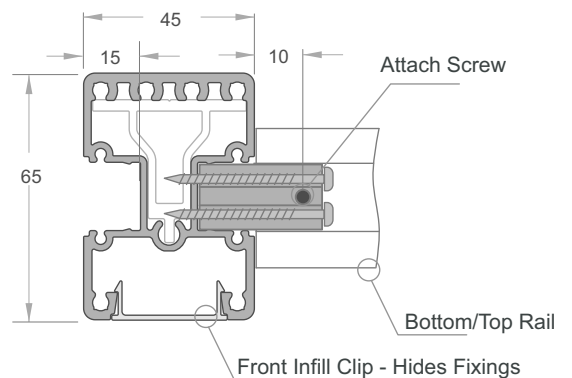


Rail Attach to Post

This Panel Fixing style
allows for Hidden Fixings



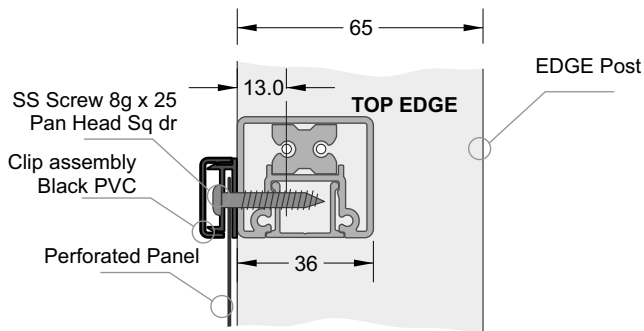
EDGE POST. 45mm x 65mm JEB/212
**To be used for Panel Inset
as mounted Top Fix only**



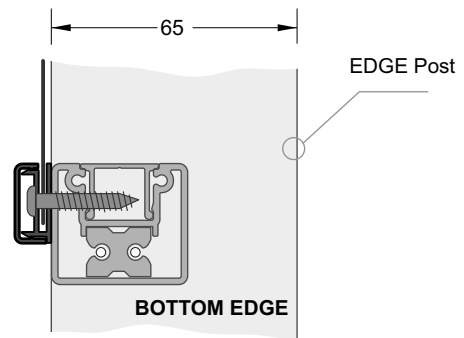
EDGE POST 45mm x 65mm JEB/214
**To be used for Panel Inset
as mounted Face Fix only**

**Option 3
Panel + Clips, Dimensions**

Only For Face Fix, Exposed Fixings
All Handrail types available for this configuration

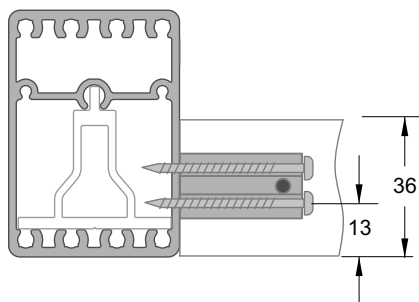


Top Rail
Front faces flush

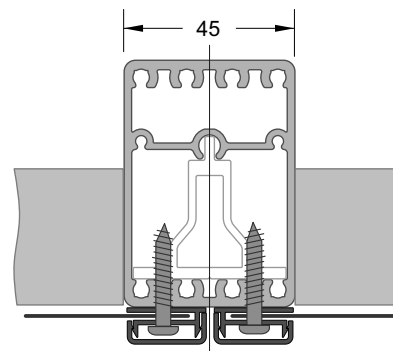


Bottom Rail
Front faces flush

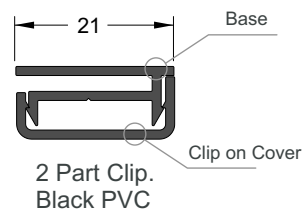
EDGE POST 45mm x 65mm JEB/207
**To be used for Panel Face Fixed either
Top or Face Fix (exposed Fastenings)**



Bottom/Top Rail + Post
Front faces flush



Verticals Clips shown,
Horizontals not shown.
Miter Corners

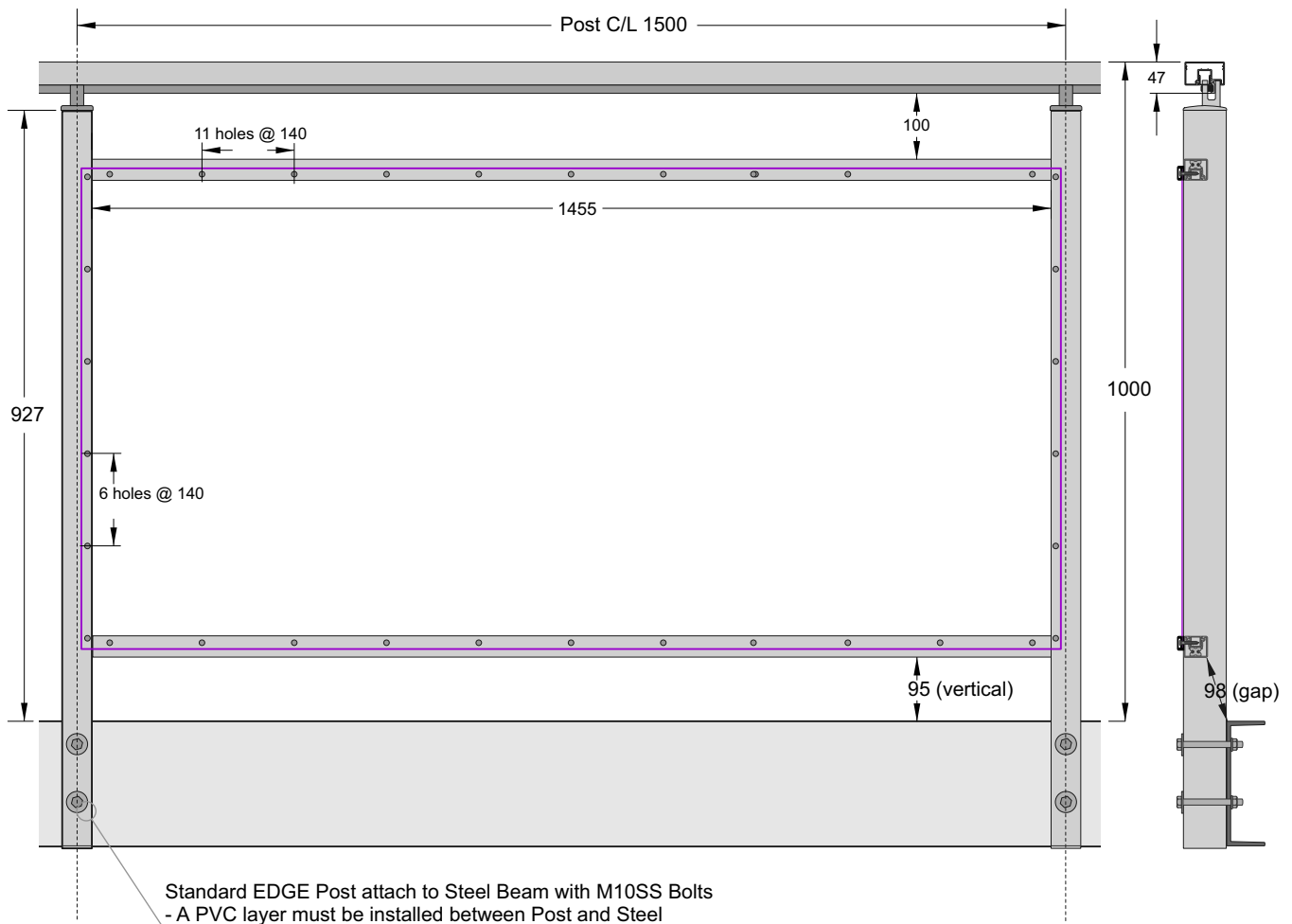


Juralco EDGE® LAMERRA™ Balustrade System

Metal Panel Face Fixed - Screw Fixing Details

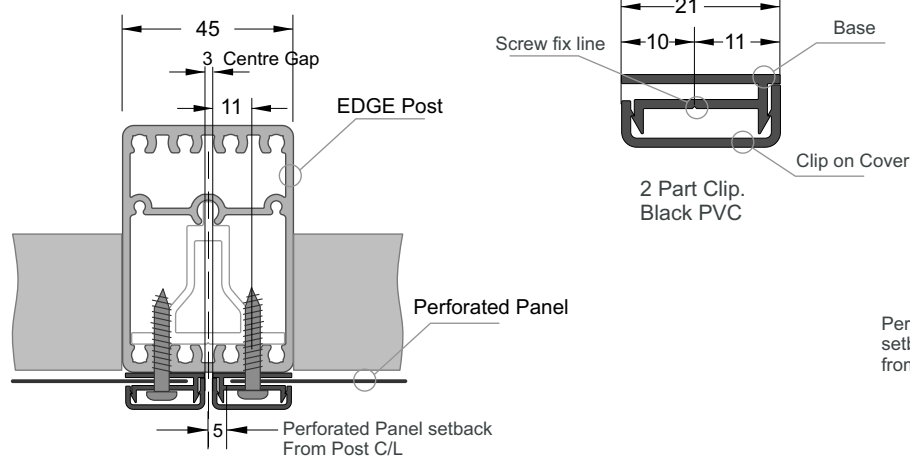
Typical Screw Layout Panel + Clips, Dimensions

Only For Face Fix, Exposed Fixings
All Handrail types available for this configuration



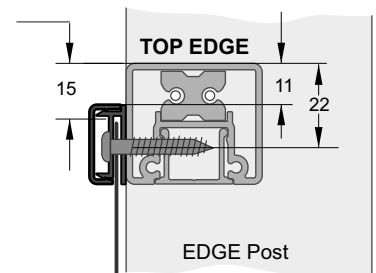
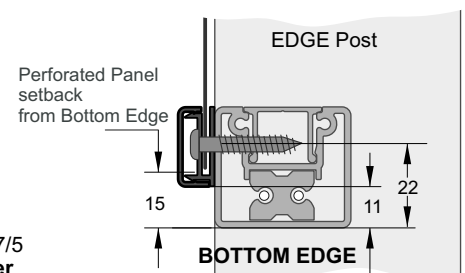
Typical Perforated Panel + Clips, Setbacks

Only For Face Fix, Exposed Fixings
All Handrail types available for this configuration



VERTICAL EDGES

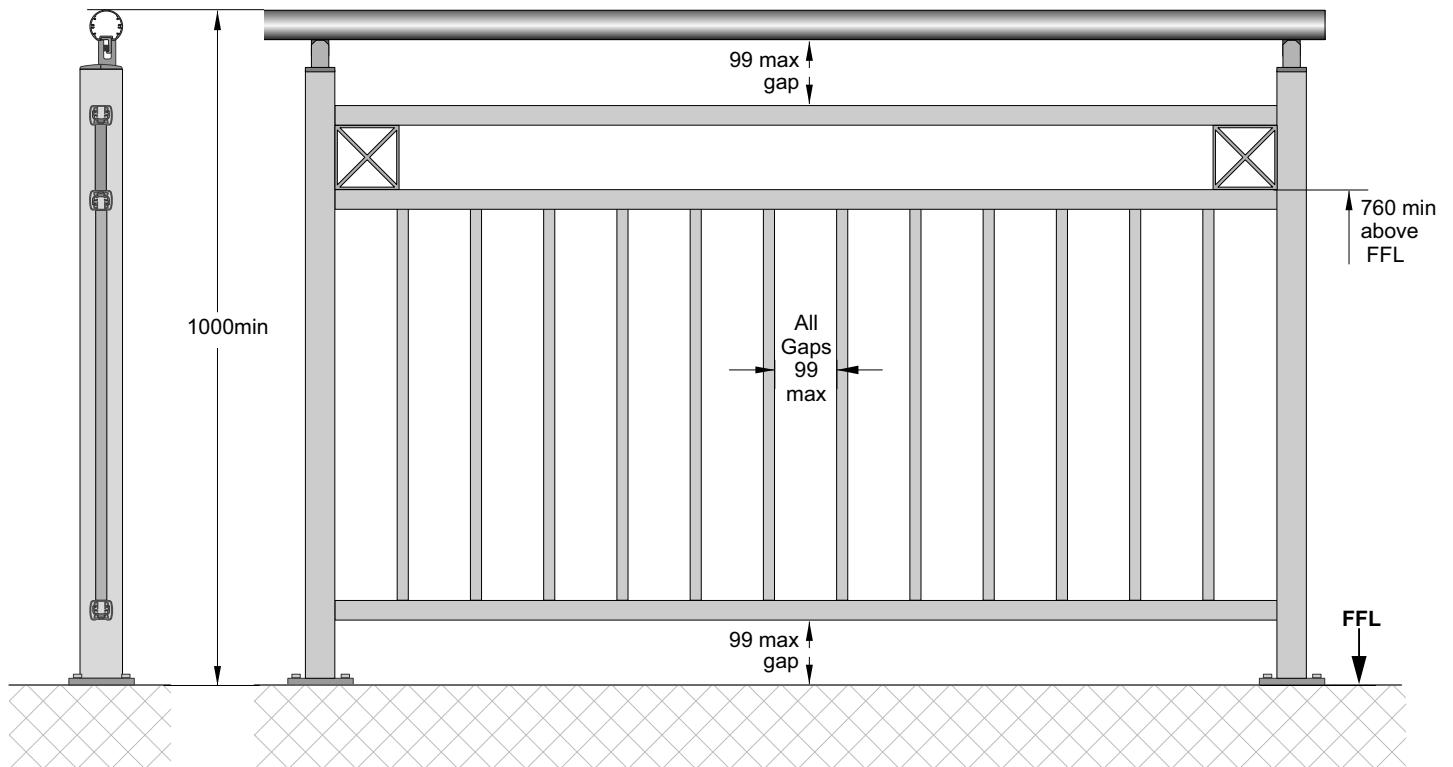
EDGE POST 45mm x 65mm JEB/207/5
To be used for Panel Face Fixed either
Top or Face Fix (exposed Fastenings)

Perforated Panel setback
from Top Edge

Juralco EDGE® Balustrade System

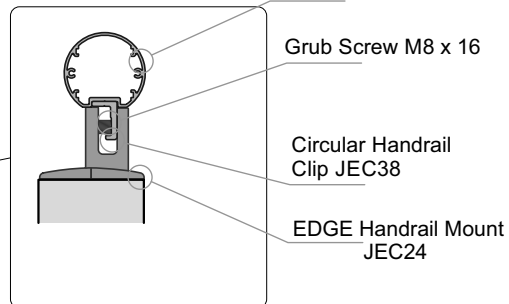
X Balustrade - Layout

17mm Baluster - Split Rail. Handrail + Top and Bottom Rail. Top Mount

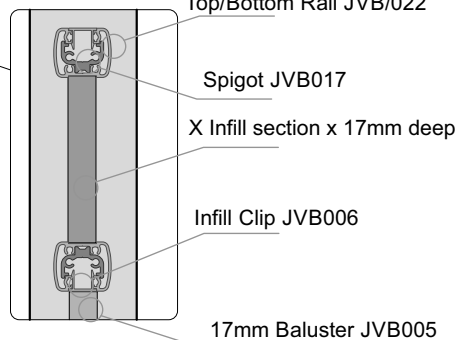


EDGE POST
JEB/207/5

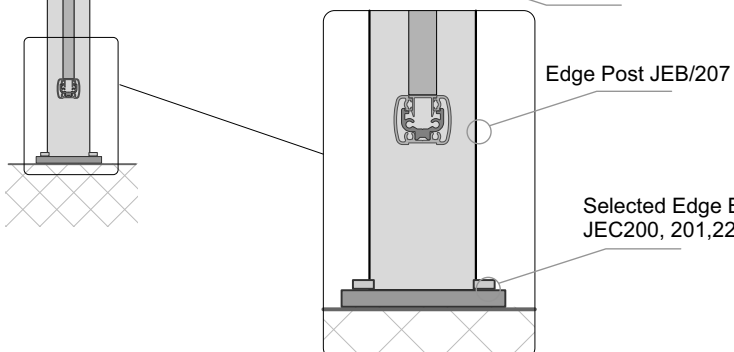
Circular Handrail JEB/223



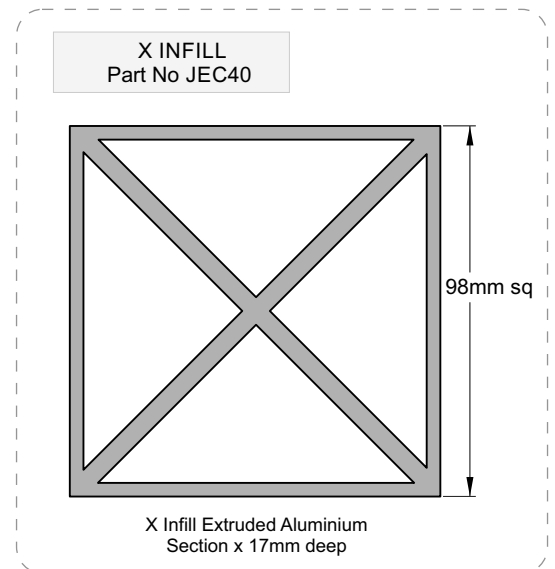
Top/Bottom Rail JVB/022



17mm Baluster JVB005



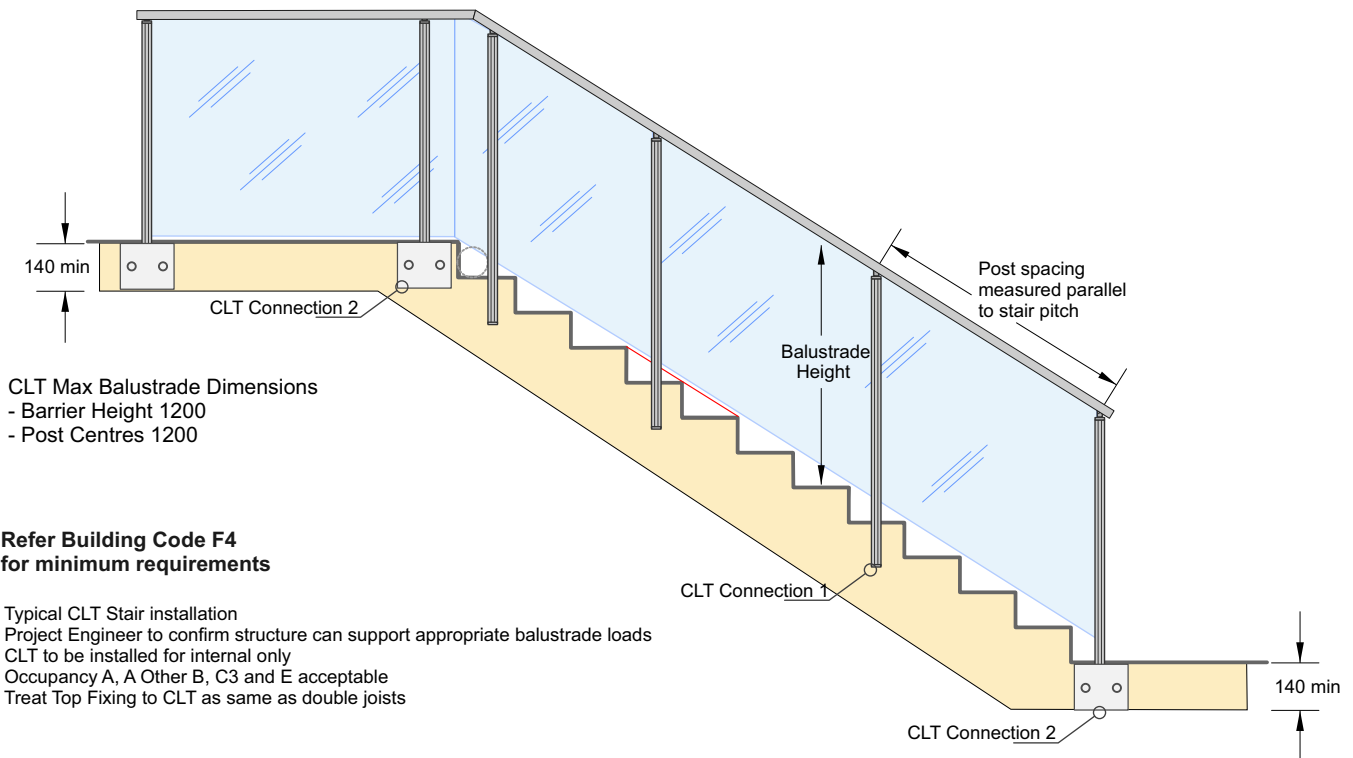
Selected Edge Base Plate
JEC200, 201,221 (depends on Substrate)



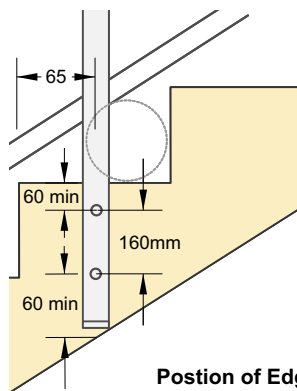
Juralco EDGE® Balustrade System Stair Setouts, CLT Construction

Please inform Juralco when CLT set up is being used

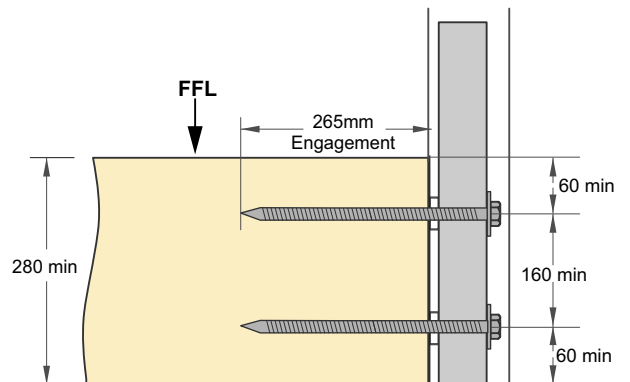
EDGE Balustrade
Face Fixed to CLT shown



CLT Connection 1 - Rothoblaas VGS9 + HUS8 Washer



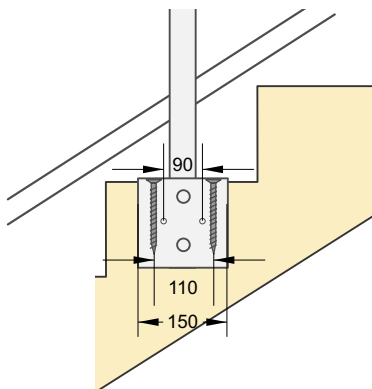
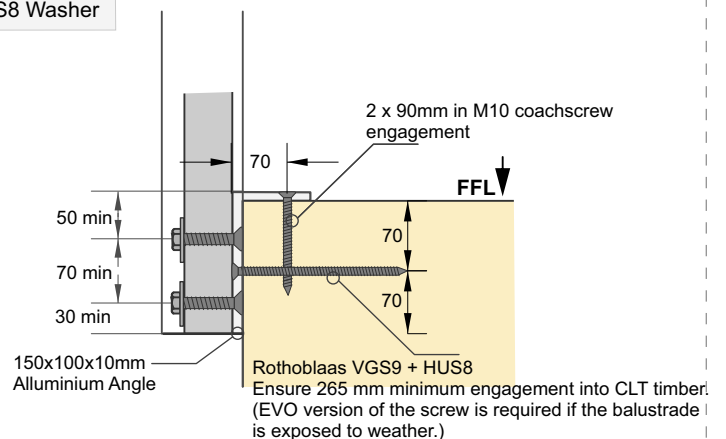
Position of Edge Post on CLT Stairs



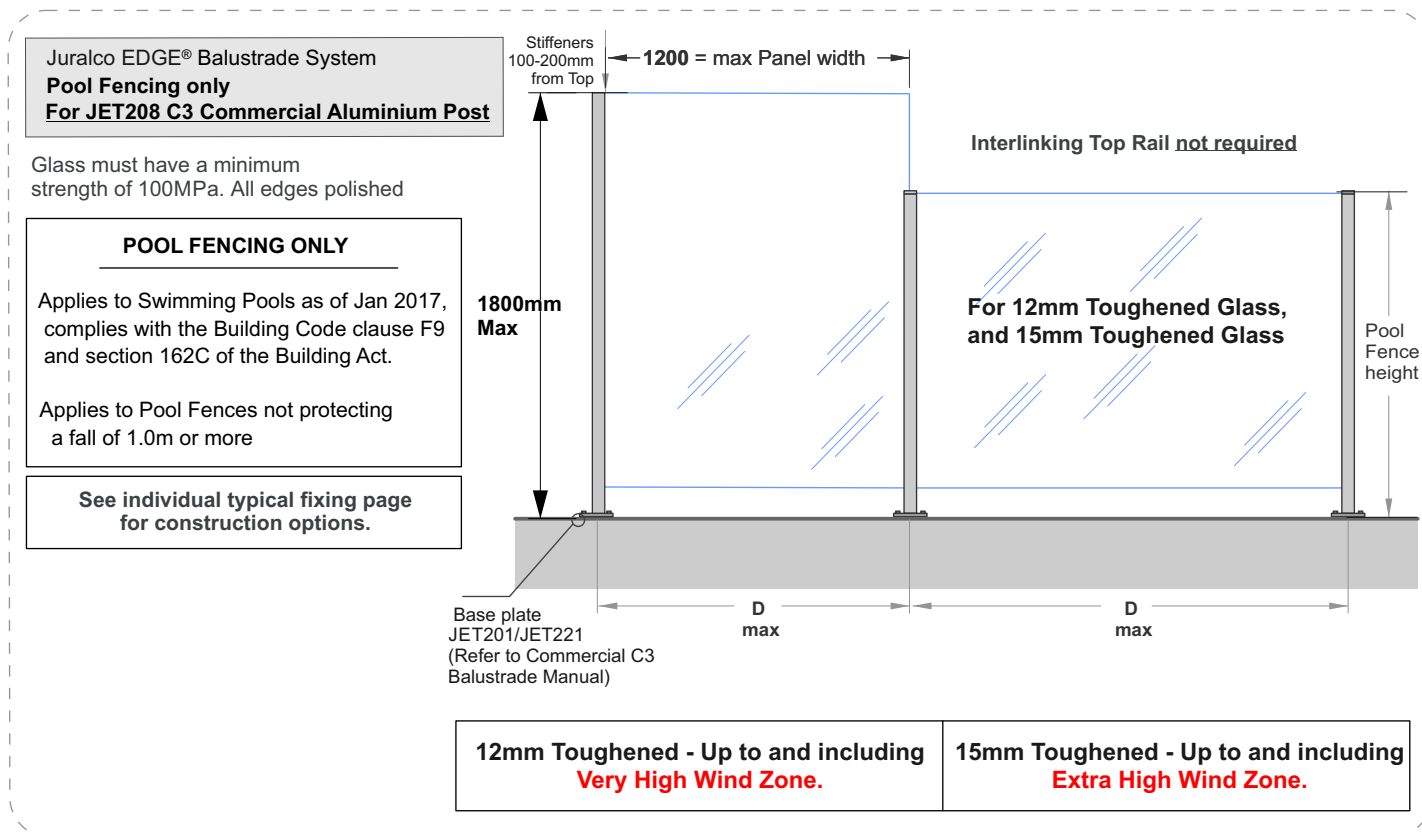
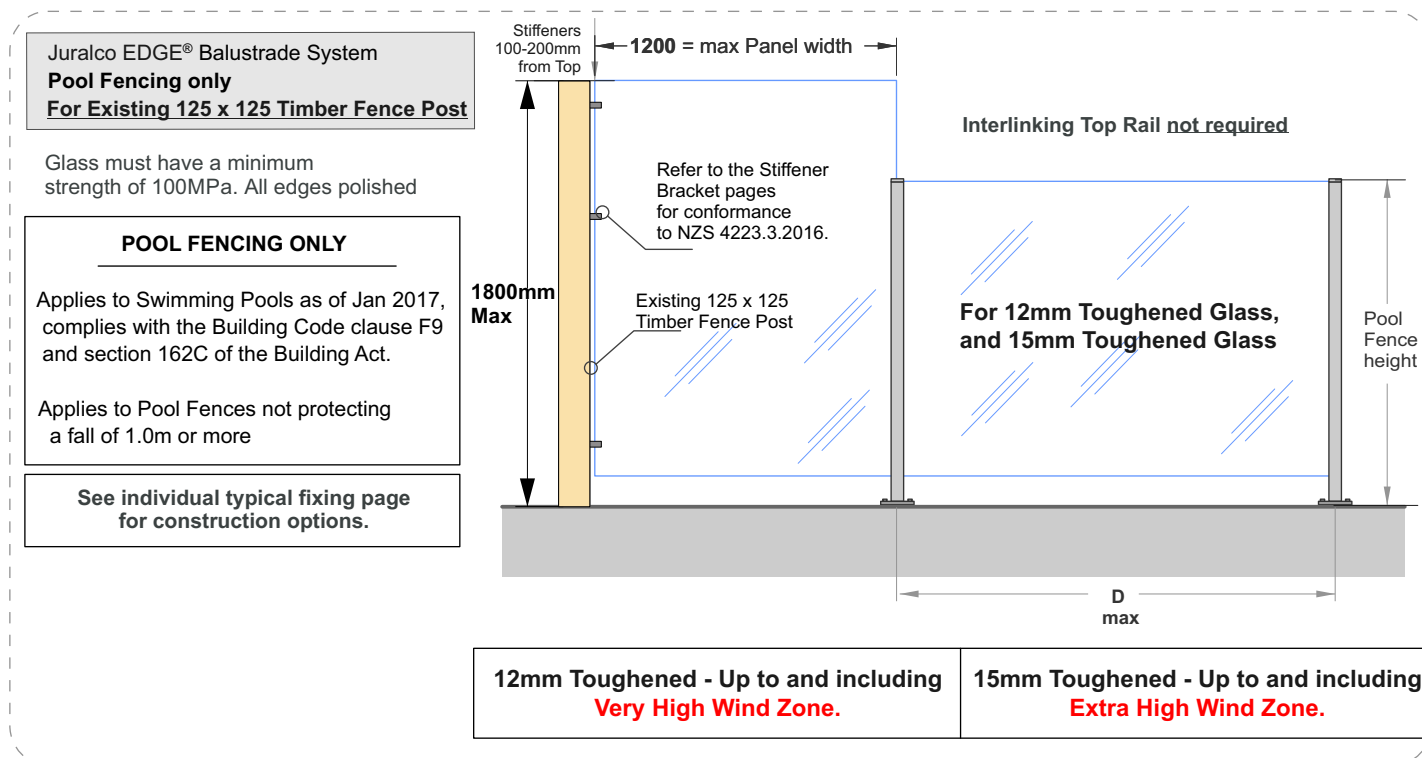
Fixing engagement into CLT Stairs

Rothoblaas VGS9 + HUS8
Ensure 265 mm minimum engagement into CLT timber.
(EVO version of the screw is required if the balustrade is exposed to weather.)

CLT Connection 2 - 2 x M10 Coachscrew & 2x Rothoblaas VGS + HUS8 Washer



Juralco EDGE® Balustrade System Boundary Detail



Juralco EDGE® Balustrade System

Powder Care and Maintenance

Powder Coating Installation Care

Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to 12 months to develop.

If paint splashes or sealants and mastics need to be removed then the following may be safely used:
Methylated Spirits, Ethyl Alcohol, Isopropanol or preferably a mild detergent in warm water.

Joinery Protection during Installation:

All the activity on a construction site means that your powder coated items may get knocked or scratched, splattered with mortar, plaster, textured coating or paint during the later stages of construction.

Please ensure that all powder coated articles are masked or covered at this time. It is far easier to prevent accidents than to try and correct them. Should your joinery receive mortar or paint splashes see that these are removed before cure and follow the instructions contained in this brochure.

Typical sticker used to warn other trades of the need to protect and mask off powder coated joinery (applies to anodised joinery also)

"IMPORTANT ALL TRADES"
This valuable aluminium joinery will suffer permanent damage from: plaster, mortar and paint splashes - Protect if splashes occur - Immediately wash down joinery with water or meths - Do not allow splashes to harden! ~ Do not use solvents! - Do not remove this label until final clean completed.

This photograph display damage that has occurred on site, post installation. The photo of the masked joinery displays clear signs of damage that could have occurred were it not masked. Please ensure that your joinery is protected right through the entire construction process.



Powder Coating Maintenance

External - Maintenance Program:

To extend the life of external powder coated articles and to comply with warranty requirements for powder coated aluminium joinery, a simple, regular maintenance program must be implemented.

The effects of ultra violet light, atmospheric pollution, dirt, grime and airborne salt deposits will all accumulate over time and must be removed or surface staining and weathering will occur, leading to an unsightly appearance.

For external coatings, cleaning should take place every six months. In areas where pollutants are more prevalent, such as beachfront houses and industrial or geothermal areas, then a cleaning program should be carried out on a more frequent basis ie. every one to three months.

Fences or Balustrades in close proximity to swimming pools must be washed down every six months, to clean off chlorine and salt deposits.

Cleaning your powder coating:

1. Carefully remove any loose surface deposits with a wet sponge.
2. Use a soft brush (non abrasive) and a mild household detergent (do not use solvents) in warm water, remove dust, salt and other deposits.
3. Rinse off with clean fresh water.

Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces
Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.
Dulux Dabsticks are ideally suited for the repair of small scratches.
Dabsticks may not be available in all colour card colours.

Repair of Weathered areas .
Dulux Gloss Up is a light to medium cutting cream ideally suited for gloss restoration and has been specifically designed for this purpose. Gloss Up contains no waxes or silicone and is a one step system.

Contact Dulux Powder Coatings , ph 0064 9 441 8244



Juralco EDGE® Balustrade System

Glass Care and Maintenance

Glass Cleaning and Maintenance

Architectural glass products must be properly cleaned during the construction period so visual and aesthetic clarity are maintained. Because glass can be permanently damaged if improperly cleaned, glass producers and fabricators recommend strict compliance with the following procedures.

First, determine whether the glass is clear, tinted or reflective. Surface damage is more noticeable on reflective glass compared with the other glass products. If the reflective coated surface is exposed, either on the exterior or interior, special care must be taken when cleaning, as scratches can result in coating removal and a visible change in light transmittance. Cleaning tinted and reflective glass in direct sunlight should be avoided. Cleaning should begin at the top of the building and continue to the lower levels.

Commence cleaning by soaking the glass surfaces with clean water and a soap solution to loosen dirt or debris. Then, using a mild, non-abrasive commercial window washing solution, uniformly apply the solution to the glass surfaces with a non-abrasive applicator and follow with a squeegee to remove all of the cleaning solution from the glass surface.

Ensure that no metal parts of the cleaning equipment touch the glass surface and that no abrasive particles are trapped between the glass and the cleaning materials. All water and cleaning solution residue should be dried from the window gaskets, sealants and frames.

Scratches and Metal Scrapers

Scratches can occur from hard pointed objects or poor handling, but most often occurs from the careless removal of foreign matter from the glass surface.

Mortar splatter and paint are common offenders and efforts to remove after hardening almost always lead to surface damage. It is essential that the foreign materials are removed before they harden. Better still, if construction work continues after glazing, that the glazed areas are protected by adhesive plastic films or suitable tarpaulins or covers.

One of the common mistakes made by non-glass trades people, including glass cleaning contractors, is the use of razor blades or other metal scrapers on a large portion of the glass surface. Using large blades to scrape a window clean carries considerable risk of causing damage to the glass.

The glass industry, fabricators, distributors and installers neither condones nor recommends any scraping of glass surfaces with metal blades or knives. Such scraping usually permanently damages or scratches the glass surfaces. When paint or other construction materials cannot be removed with normal cleaning procedures, a new 25mm razor blade may have to be used. The razor blade should be used on small spots only. Cleaning should be done in one direction only. Never scrape in a back and forth motion as this could trap particles under the blade that could scratch the glass.

Blades or scrapers can dislodge "pickup" on toughened glass. There are fine particles of glass that are fused on to the surface during toughening. Once dislodged they can scratch the glass.

Glass Cleaning, Do's and Don'ts

DO NOT..

- Do Not - Use Scrapers of any type or size on a Glass surface
- Do Not - Leave building dirt or residues to remain on Glass for a period of time.
- Do Not - Begin cleaning glass until you have identified the surface type.
- Do Not - Clean Glass surfaces in direct sunlight.
- Do Not - Allow dirty water or cleaning residues to remain on the Glass.
- Do Not - Begin cleaning before rinsing off a loose residues.
- Do Not - Use abrasive cleaning solutions, materials or solvents.
- Do Not - Allow metal parts of the cleaning equipment to come in contact with the Glass.
- Do Not - Trap abrasive particles between the cleaning material and the Glass.

DO...

- Clean glass promptly when dirt or building residues appear.
- Determine glass surface type.
- Exercise special care when cleaning coated surfaces.
- Avoid cleaning glass surfaces in direct sunlight.
- Start cleaning at the top of a building, then continue to lower levels.
- Soak the glass surface in a clean soapy solution before cleaning.
- Use a mild non abrasive commercial cleaner.
- Use a squeegee to remove all cleaning solution.
- Try your procedures on a small window and check.
- Caution other trades re the care and protection of the glass surfaces.

**Residues of surface grit may be present from the toughening production process.
These grit particles must not be dragged across the surface.
NEVER use Metal Scrapers**

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