

JURALCO JURALCO EDGETEC® MINI POST BALUSTRADE and POOL FENCING SYSTEMS

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 Mini Post Balustrade System has 3 x Mounting options, Top, Face and Gutter Bracket and is designed to use12mm Frameless Toughened Glass. The system is extremely versatile and can be custom made in a range of configurations and powder-coat colours to meet most modern architectural requirements.



Juralco Edgetec Mini Post Framless Balustrade Face Fix to Timber Deck



Juralco Edgetec Mini Post Framless Balustrade Top Fix to Tiled Concrete Deck. Pool



Juralco Edgetec Mini Post showing the Interlinking Top Rail and the use of a Top Mounted Edge Post and Brackets back to the structure

Juralco Edgetec Mini Post Framless Balustrade Face Fix to Timber Deck

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

Mini Post Balustrade is for Domestic and Residential Occupancy types A, A Other and C3 only Occupancy Types as per AS/NZ 1170.1.2002. <u>Not suitable for Commercial C3</u> applications

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.	12mm Toughened Glass,
A Other, C3	Areas without obstacles for moving people and not susceptible to over crowding	Stairs, landings, external balconies, edges of roofs etc.	13.52mm SentryGlas

Note 1	All for 12mm Toughened Glass and 13.52mm SentryGlas, Frameless. 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 Frameless Glass balustrades using Toughened Glass must have an Interlinking Rail to conform to NZS 4223.3.2016. Not necessary for Swimming Pool Fencing
Note 4	Juralco Edgetec [®] Mini Post Balustrade New Zealand Patent #618520

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Juralco Aluminium Building Products Ltd (JABP) Specifications for Juralco Edgetec® Mini Post Balustrade System

1.Scope

 This specification details the documents the Juralco Mini Post 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 finishing.

2. NZBC Compliance

- The Juralco Mini Post Balustrade System has been reviewed by Lautrec Technology Group Ltd, Engineers to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS1170 : 2002 occupancy A, A Other and C3, NZS 3604 for Low, Medium, High, Very High and Extra High Wind Zones
- 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 Mini Post Balustrade System must conform to AS/NZS2208.
- Complies with NZS4223.3.2016
- Separation of dissimilar materials (as relates to B2 compliance) have been reviewed.

For other combinations refer to NZS3604:2011 Section 2.3.3 Separation and Section 4 Durability

3. Manufacturer's Documents

- The Juralco Mini Post 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 Mini Post 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 Mini Post Balustrade System must conform to the specifications as listed in the Juralco Mini Post 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
- Dulux Duralloy[®] powder coating systems are suitable for properties greater than 100m from high tide level AAMA 2603 performance. Residential buildings, 3 levels max. Warranty 10 yrs
- Dulux Duralloy Plus[®] powder coating systems are suitable for properties greater than 10m from high tide level. AAMA 2603 performance. Residential and Light commercial buildings, 3 levels max Warranty 15 yrs
- Dulux Duratec® powder coating systems are suitable for properties greater than 10m from high tide level
 - AAMA2603 and 2604 performance. All Residential and Commercial buildings. Warranty 25 yrs

6. Installation and Fixing

- The Juralco Mini Post Balustrade System must only be installed in accordance with the Juralco Mini Post Balustrade System manual
- Any deviation from that specified in the Juralco Mini Post manual must only be in accordance with the site specific PS1 with site specific calculations and drawings listing the non standard details
- The Juralco Mini Post 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.

<u>Powdercoat Systems</u> 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.

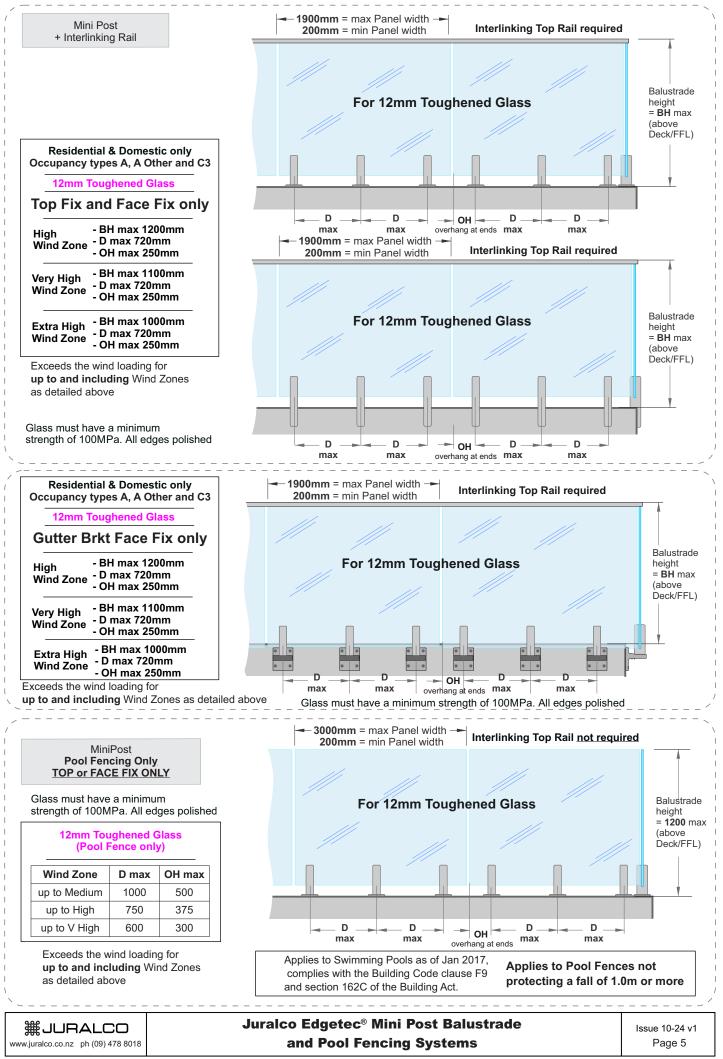
Attachment to structures A PVC Tape or similar material spacer must be used to separate powder coated aluminium items from all concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating, leading to corrosion.

<u>Swimming Pools</u> 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.

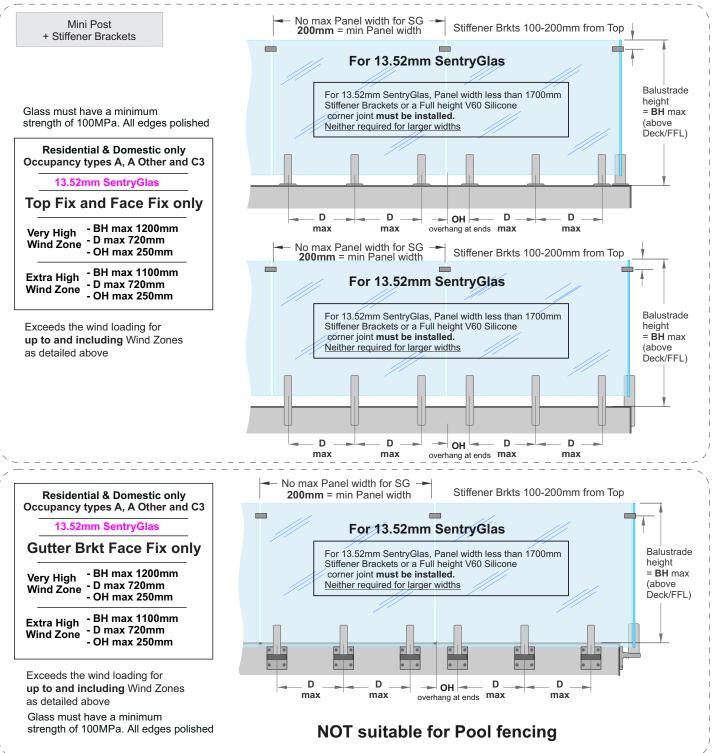
<u>Care</u> The Dulux powder coating warranty period is conditional upon the surface being maintained

in accordance with the Dulux 'Care and Maintenance Instructions'. Download from Dulux or refer to the back page of this manual.

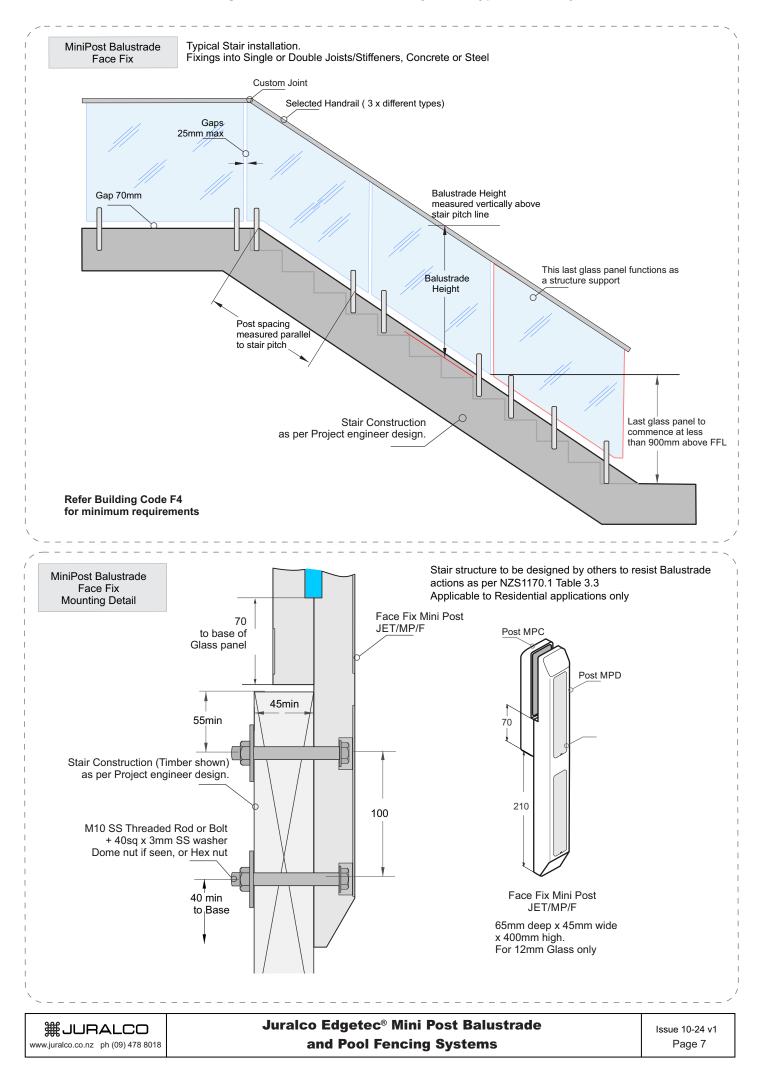
Juralco Edgetec[®] Mini Post Balustrade System - Typical Layouts



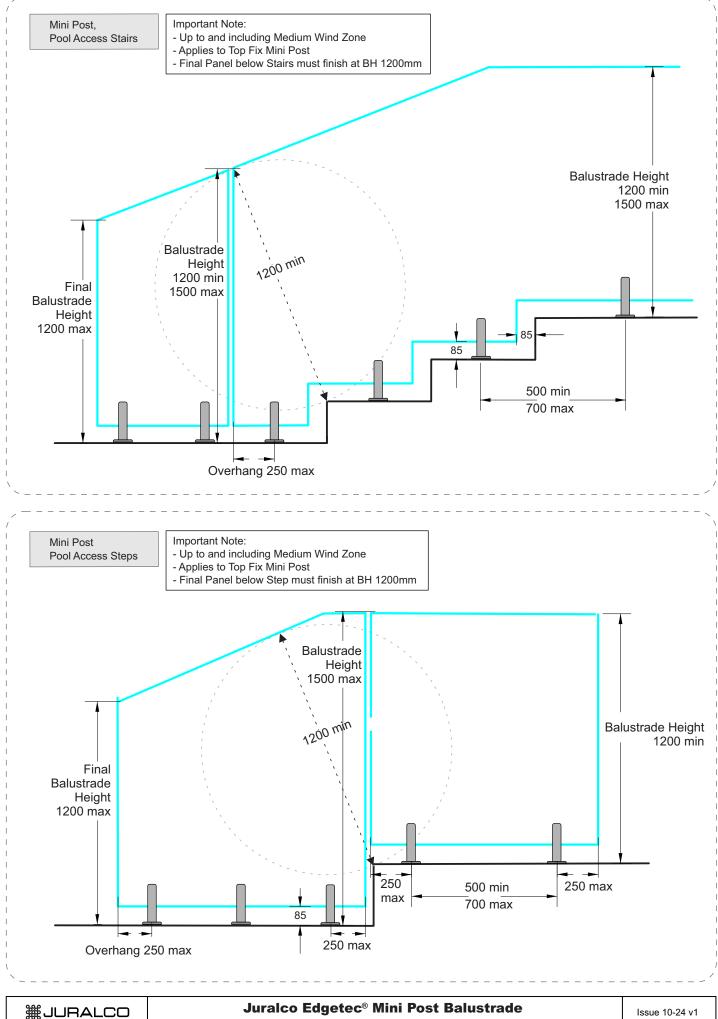
Juralco Edgetec[®] Mini Post Balustrade System - Typical Layouts



Juralco Edgetec® Mini Post Balustrade System - Typical Stair Layout



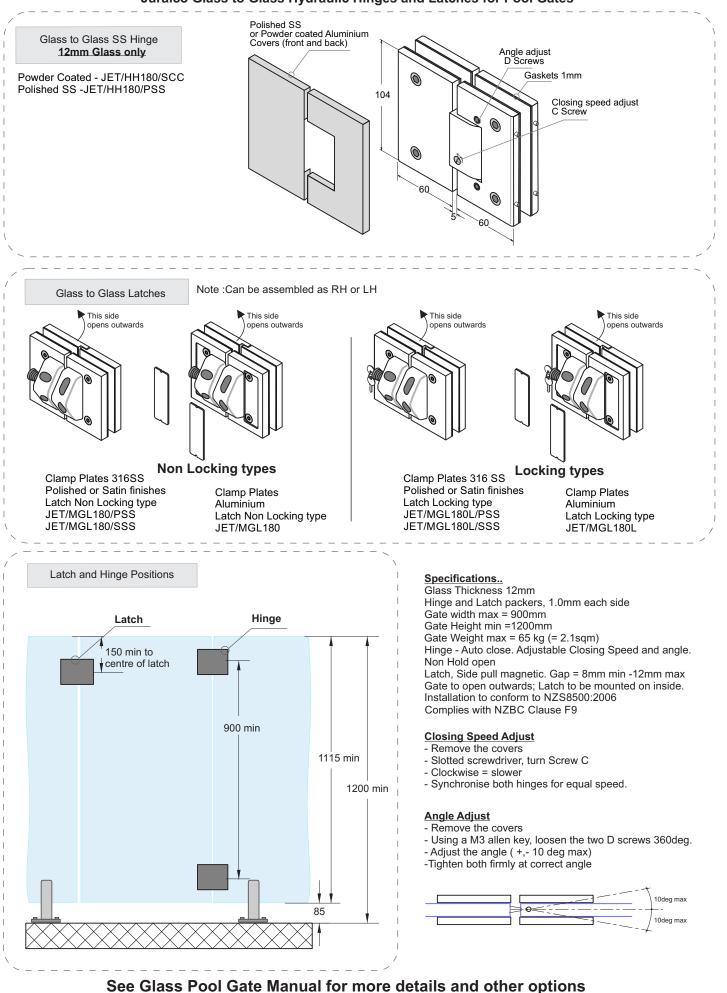
Juralco Edgetec® Mini Post Balustrade System - Typical Stair Layout leading to a Pool

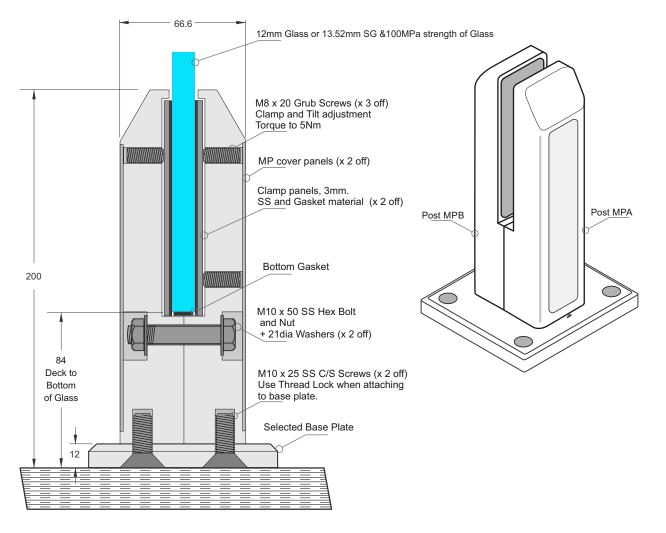


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and Pool Fencing Systems

Juralco Edgetec[®] Mini Post Balustrade System Juralco Glass to Glass Hydraulic Hinges and Latches for Pool Gates



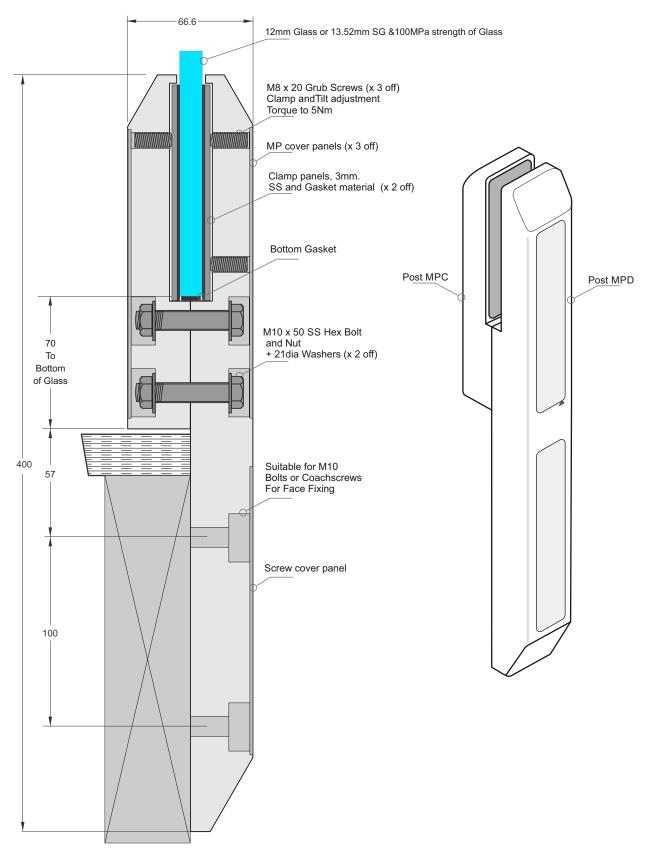


Elevation showing the Main Features For a Top Fix Bracket

Notes:

- 1 Clamp panels, 3mm SS and Gasket material . Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrew first, then two top screws. Do not over tighten, max torque 5Nm.
- $\ensuremath{\mathsf{3}}$ MP Cover Panels. Held in place with JMF/X02 Double sided tape
- 4 Use top grub screw for vertical alignment of the glass panel.
- 5 Ensure that the glass panel is not in contact with any of the Mini post
- 6 For height adjustment pack the bottom of the glass with additional bottom gaskets as required.

Juralco Edgetec® Mini Post Balustrade System - Face Fix

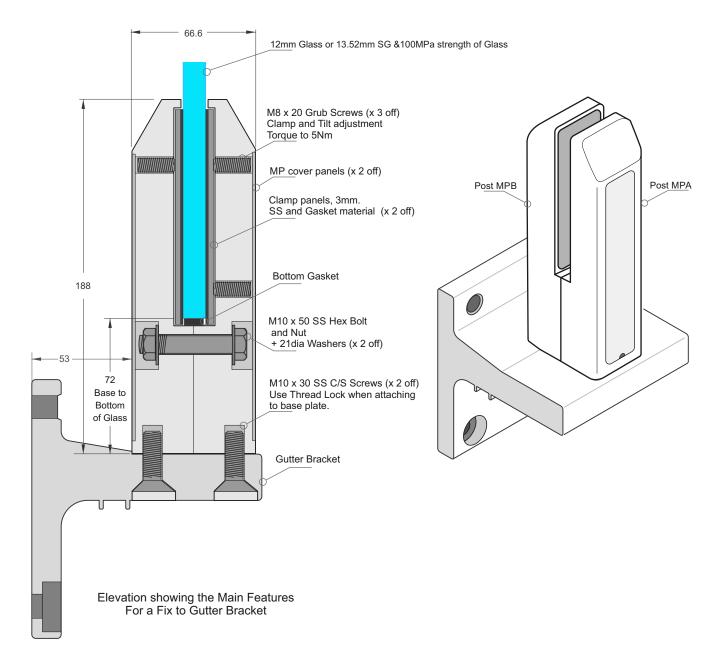


Elevation showing the Main Features For a Face Fix Bracket

Notes:

- 1 Clamp panels, 3mm SS and Gasket material . Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrew first, then two top screws. Do not over tighten, max torque 5Nm.
 - 3 MP Cover Panels. Held in place with JMF/X02 Double sided tape
 - 4 Use top grub screw for vertical alignment of the glass panel.
 - 5 Ensure that the glass panel is not in contact with any of the Mini post
 - 6 For height adjustment pack the bottom of the glass with additional bottom gaskets as required.

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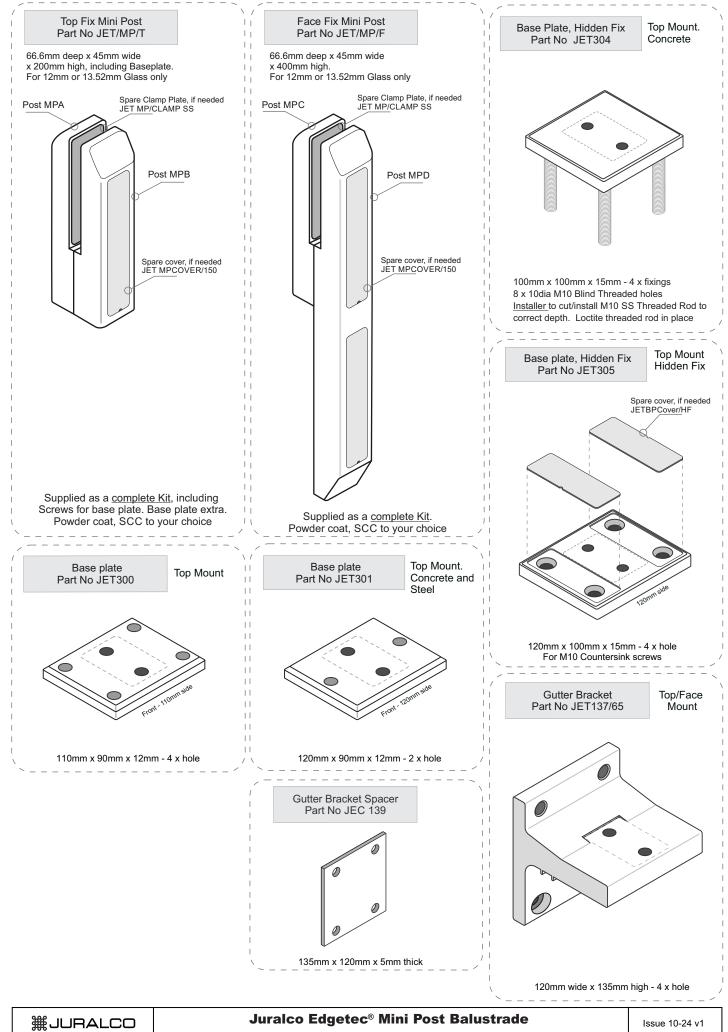


Notes:

- 1 Clamp panels, 3mm SS and Gasket material . Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrew first, then two top screws. Do not over tighten, max torque 5Nm.
- 3 MP Cover Panels. Held in place with JMF/X02 Double sided tape
- 4 Use top grub screw for vertical alignment of the glass panel.
- 5 Ensure that the glass panel is not in contact with any of the Mini post
- 6 For height adjustment pack the bottom of the glass with additional bottom gaskets as required.



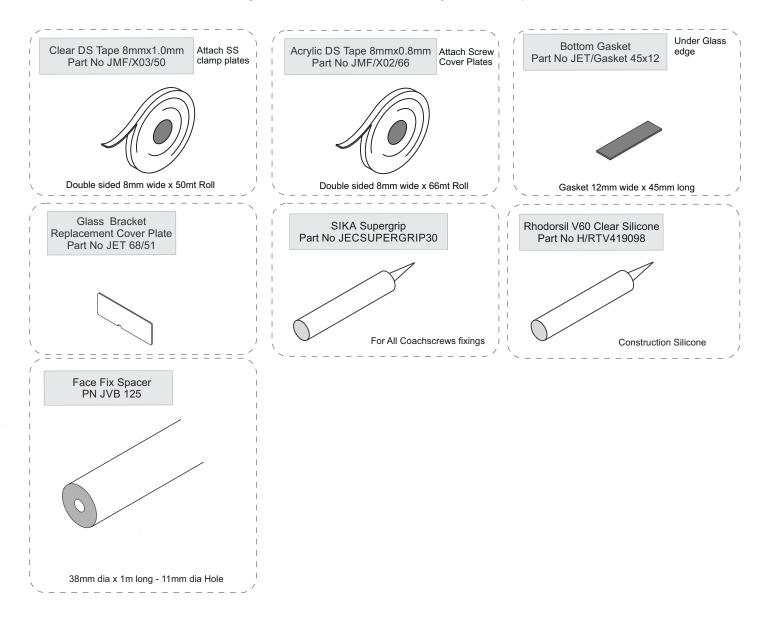
Juralco Edgetec® Mini Post Balustrade System - Components



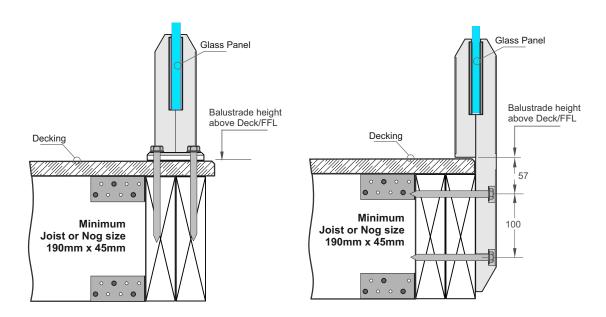
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and Pool Fencing Systems

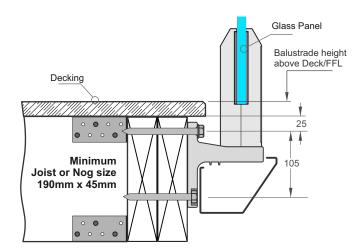
Juralco Edgetec[®] Mini Post Balustrade System - Components



Approved Timber Construction Options, fixing into Double Joists M10 SS Coachscrews, Bolts or Threaded Rod Refer individual construction pages for further details



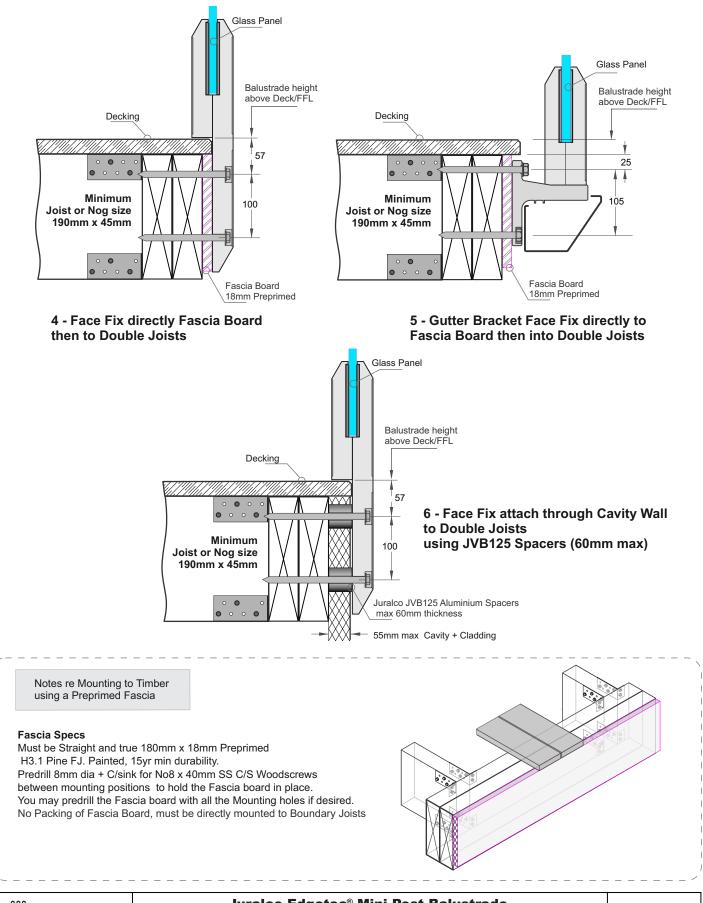
- 1 Top Fix to Double Joists
- 2 Face Fix directly to Double Joists



3 - Gutter Bracket Face Fix directly to Double Joists

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Approved Timber Construction Options, fixing into Double Joists M10 SS Coachscrews, Bolts or Threaded Rod Refer individual construction pages for further details. Fascia Board details below



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Typical TOP Fix to Timber - JET 300, 110mm x 90mm, 4 hole Base Plate - M10 SS Coachscrews

Wind Zones (up to and including) Residential A, A Other and C3 only							
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)			
High	12 T	1200					
Very High	12 T	1100					
veryrngn	13.52SG	1200	720	250			
Extra High	13.52SG	1100					
Extra High	12T	1000					

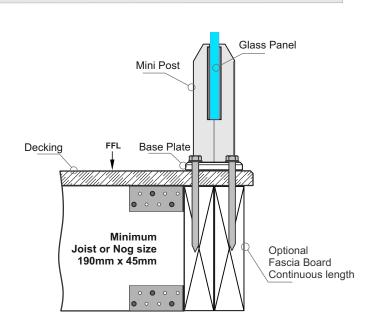
Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

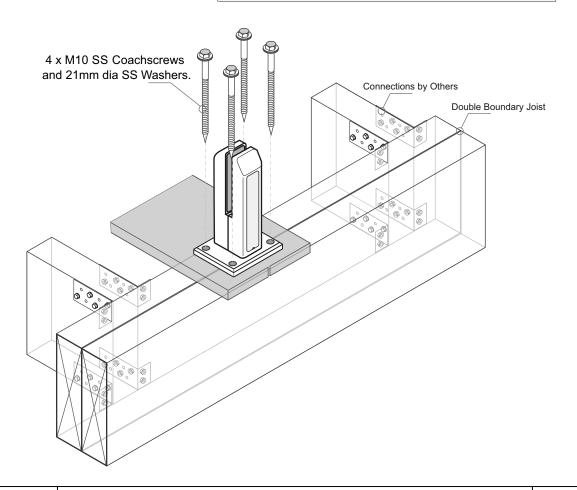
1 - General Notes: - Glass thickness mm

- Glass thickness mm - Glass type T= Toughened, SG =SentryGlas
- 2 All measurements mm
- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Timber SG8 minimum strength
- 3 Coachscrews 100mm min engagement into joists. Drill 6mm holes
- 4 Bond all coachscrews with SIKA Supergrip30 to full depth
- 5 Substructure shown indicatively only
- 6 All Fixings must be Stainless steel





Typical TOP Fix to Timber - JET 305, 120mm x 100mm, 4 hole Base Plate - M10 SS C/S Coachscrews

Wind Zones (up to and including) Residential A, A Other and C3 only							
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)			
High	12 T	1200					
Very High	12 T	1100					

	High	12 T	1200		
ſ	Very High	12 T	1100		
	very riigii	13.52SG	1200	720	250
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

			,	
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

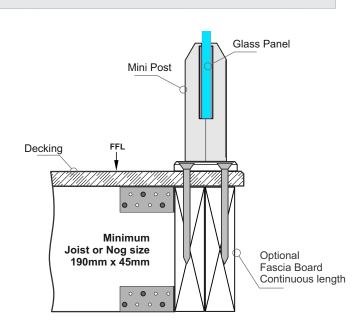
1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

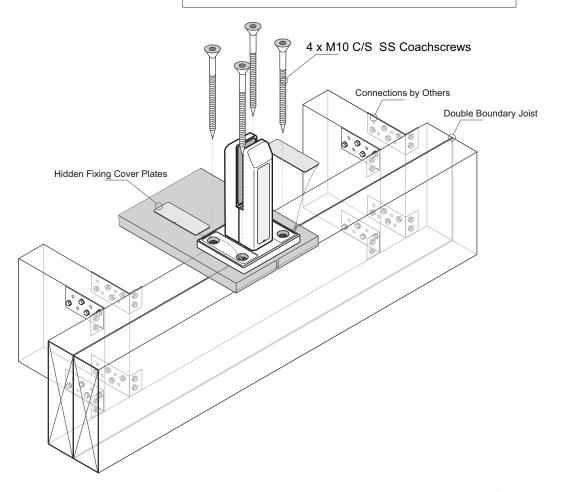
3 - Balustrade Height, above Deck/FFL

4 - Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Timber SG8 minimum strength
- 3 Coachscrews 100mm min engagement into joists. Drill 6mm holes
- 4 Bond all coachscrews with SIKA Supergrip30 to full depth
- 5 Substructure shown indicatively only
- 6 All Fixings must be Stainless steel





Typical TOP Fix to Timber on Steel - JET 300, 110mm x 90mm, 4 hole Base Plate - M10 SS Bolts

Wind Zones (up to and including) Residential A, A Other and C3 only							
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)			
High	12 T	1200					
High		. ,	(max)	(max)			

	High	12 T	1200		
Voru	Very High	12 T	1100		
	very riigii	13.52SG	1200	720	250
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

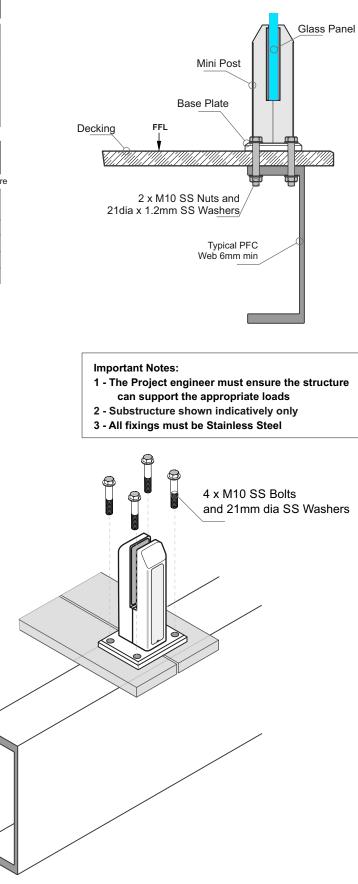
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

3 - Balustrade Height, above Deck/FFL
4 - Refer to Elevations for Max Panel widths





Typical TOP Fix direct to Steel - JET 301, 120mm x 90mm, 2 hole Base Plate - M10 SS Bolts

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhan (max)	
High	12 T	1200			

a

High	12 T 1200			
Very High	12 T	1100		
very riigii	13.52SG	1200	720	250
Extra High	13.52SG	1100		
Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

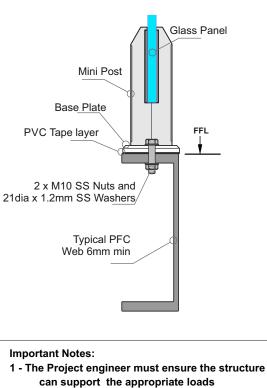
	1 0			
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

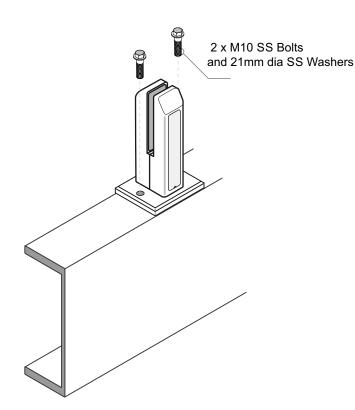
- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

3 - Balustrade Height, above Deck/FFL
4 - Refer to Elevations for Max Panel widths



- 2 There must be a PVC Tape layer between the **Baseplate and Steel**
- 3 Substructure shown indicatively only
- 4 All fixings must be Stainless Steel





Typical TOP Fix to Concrete Path - JET300, 110mm x 90mm, 4 hole Base Plate - M10 SS Studs

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass	Balustrade	Clamp	Glass	
	Thickness,	Height	Spacing	Overhang	
	Type	(max)	(max)	(max)	

		Type	(max)	(max)	(max)
	High	12 T	1200	-	
	Very High	12 T	1100		
		13.52SG	1200	720	250
	Extra High	13.52SG	1100	-	
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
Pool Fen	ce applies	to Top ar	nd Face F	ix only	
Medium	12 T	1200	1000	500	
High	12 T	1200	750	375	
Very High	12 T	1200	600	300	

General Notes:
 Glass thickness mm

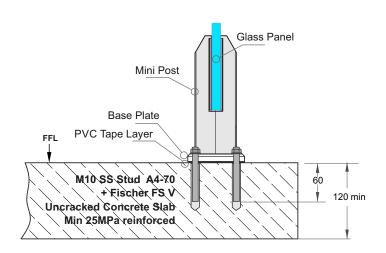
- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



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



Important Notes: 1 - The Project engineer must ensure the structure can support the appropriate loads 2 - All fixings must engage the structural slab 3 - A PVC Tape layer must be installed between the **Baseplate and Concrete** 4 - Edge distance can be reduced to 75mm provided the Anchors are outside the Concrete slab cover and do not damage any reinforcement 5 - Substructure shown indicatively only 6 - All fixings must be Stainless Steel 4 x M10 SS Studs A4-70 + Fischer FIS V and 21dia x 1.2mm SS Washers **Concrete Slab** Min 25MPa, reinforced 100 min 100min



Typical TOP Fix to Concrete - JET 301, 120mm x 90mm, 2 hole Base Plate - M12 SS Studs

Wind Zones (up to and including) Residential A, A Other and C3 only				
	Glass	Balustrade	Clamp	Glass

	Wind Zone	Thickness, Type	Height (max)	Spacing (max)	Overhang (max)
	High	12 T	1200		
	Very High	12 T	1100		
		13.52SG	1200	720	250
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fence applies to Top and Face Fix of				ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

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- Glass type T= Toughened, SG =SentryGlas

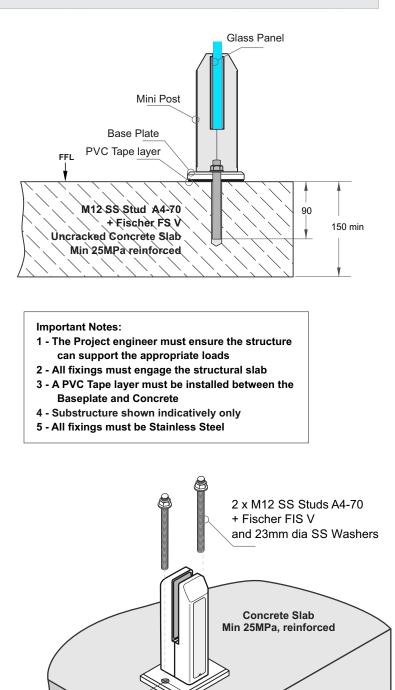
2 - All measurements mm

- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



Installation details Fischer FIS V

	Thread diameter	M 12
	Drill hole diameter	= 14 mm
	Drill hole depth	= 100 mm
	Anchorage depth	= 90 mm
	Drilling method	Hammer drilling
	Drill hole cleaning	4 times blowing, 4 times brushing, 4 times blowing
	No borehole cleaning of using a hollow drill	required in case
\	<	/

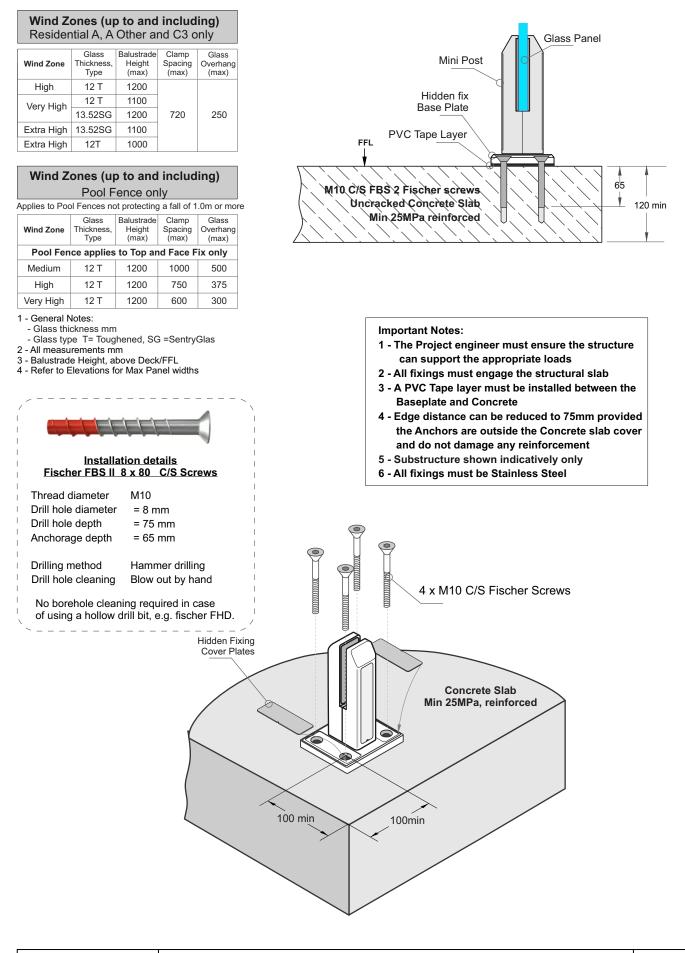


100min



120 min

Typical TOP Fix to Concrete - JET 305, 120mm x 100mm, 4 hole Base Plate - M10 SS C/S Screws



Typical HIDDEN TOP Fix to Concrete - JET 304, 100mm x 100mm Base Plate, 4 x M10 SS Hidden Studs

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	

	High	12 T	1200		
	Very High	12 T	1100	720	250
		13.52SG	1200		
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

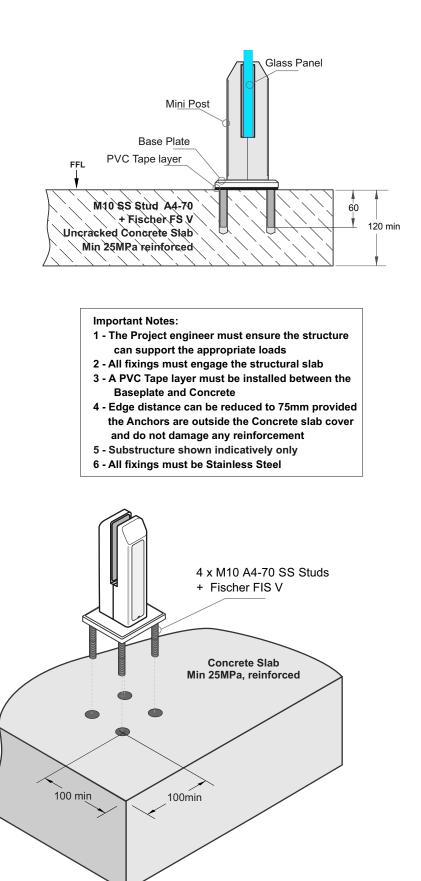
- Glass type T= Toughened, SG =SentryGlas
- 2 All measurements mm
- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



Installation details Fischer FIS V 300T

Thread diameter	M10			
Drill hole diameter	= 12 mm			
Drill hole depth	= 70 mm			
Anchorage depth	= 60 mm			
Drilling method Drill hole cleaning	Hammer drilling 4 times blowing, 4 times brushing, 4 times blowing			
No borehole cleaning required in case				

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



Typical FACE Fix Post to Timber - M10 SS Coachscrews

Wind Zones (up to and including) Residential A, A Other and C3 only						
Wind Zone	Glass	Balustrade	Clamp	Glass		
	Thickness,	Height	Spacing	Overhang		
	Type	(max)	(max)	(max)		

		Type	(max)	(max)	(max)
	High	12 T	1200		
	Very High	12 T	1100		
		13.52SG	1200	720	250
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

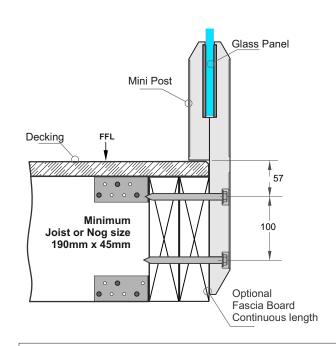
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
Pool Fen	ce applies	to Top ar	nd Face F	ix only	
Medium	12 T	1200	1000	500	
High	12 T	1200	750	375	
Very High	12 T	1200	600	300	

1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

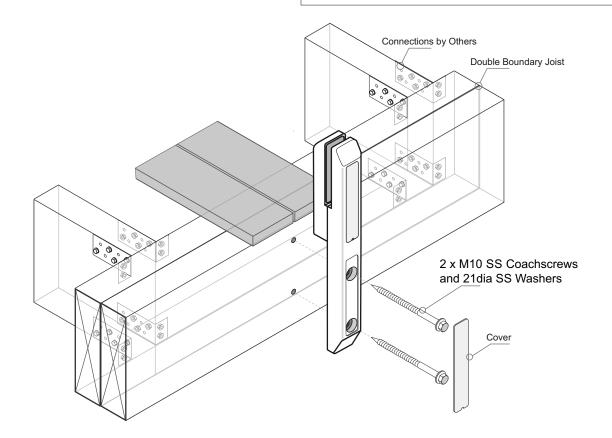
2 - All measurements mm

3 - Balustrade Height, above Deck/FFL
4 - Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Timber SG8 minimum strength
- 3 Coachscrews 90mm min engagement into joists. **Drill 6mm holes**
- 4 Bond all coachscrews with SIKA Supergrip30 to full depth
- 5 Substructure shown indicatively only
- 6 All Fixings must be Stainless steel



#JURALCO	Juralco Edgetec [®] Mini Post Balustrade	lssue 10-24 v1
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Typical FACE Fix Post to Timber - M10 SS Bolts or M10 SS Threaded Rod

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
	10 -	4000			

		••	. ,	. ,	. ,
	High	12 T	1200		
	Very High	12 T	1100	720	250
		13.52SG	1200		
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

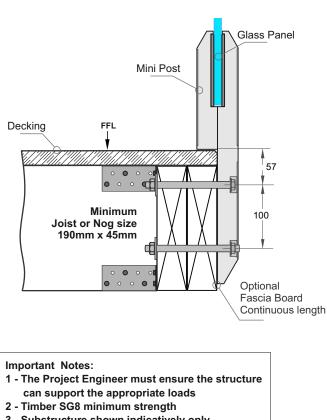
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

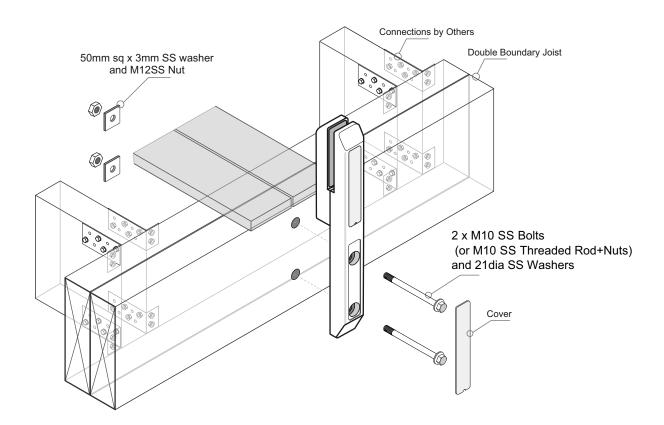
- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

3 - Balustrade Height, above Deck/FFL
4 - Refer to Elevations for Max Panel widths



- 3 Substructure shown indicatively only
- 4 All Fixings must be Stainless steel



#JURALCO	Juralco Edgetec [®] Mini Post Balustrade	Issue 10-24 v1
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Juralco Edgetec[®] Mini Post Balustrade System - Typical Fixing <u>Complies with NZS3604:2011</u> - Double Boundary Joists

Typical FACE Fix Post Through a Cavity - M10 SS Coachscrews and Spacers

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhan (max)	
High	12 T	1200			

	High	12 T	1200		
	Very High	12 T	1100	720	250
		13.52SG	1200		
	Extra High	13.52SG	1100		
ĺ	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)		
Pool Fence applies to Top and Face Fix only						
Medium	12 T	1200	1000	500		
High	12 T	1200	750	375		
Very High	12 T	1200	600	300		

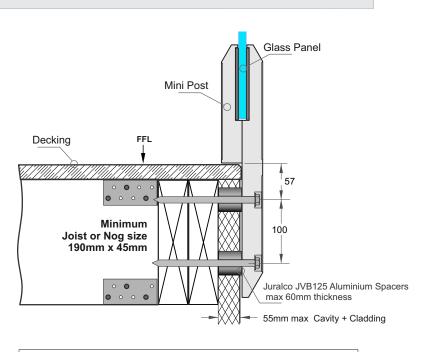
1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

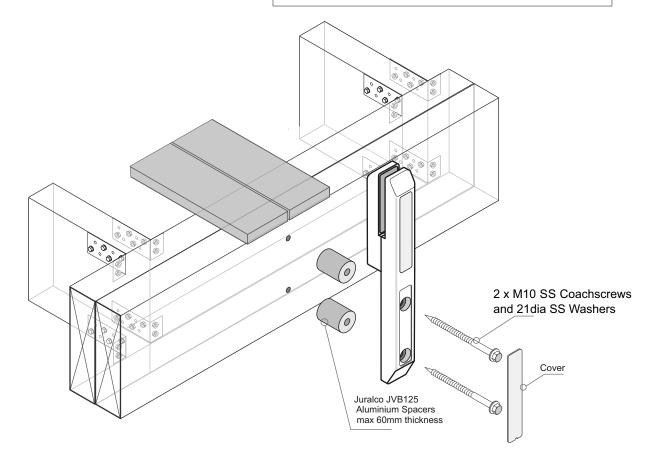
3 - Balustrade Height, above Deck/FFL

4 - Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Timber SG8 minimum strength
- 3 Coachscrews 90mm min engagement into joists. Drill 6mm holes
- 4 Bond all coachscrews with SIKA Supergrip30 to full depth
- 5 Substructure shown indicatively only
- 6 All Fixings must be Stainless steel



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Typical FACE Fix to Steel, Wooden Packers - M10 SS Bolts

	ones (up ntial A, A				
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	Glass Panel
High	12 T	1200			
Very High	12 T 13.52SG	1100 1200	720	250	Mini Post
Extra High	13.52SG	1100	1		T L
Extra High	12T	1000	-		
Wind Z	ones (up	o to and	l includ	ling)	
	Pool F	ence or	nly		57
Applies to Poo	I Fences no	-	-	1.0m or mor	
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	Typical PFC
Pool Fen	ce applies	to Top a	nd Face F	ix only	Web 6mm min
Medium	12 T	1200	1000	500	
High	12 T	1200	750	375	
Very High	12 T	1200	600	300	
I - General N - Glass thio - Glass typ 2 - All measu 3 - Balustrado 4 - Refer to E	ckness mm e T= Toug rements m e Height, al	hened, S0 m bove Decl	k/FFL		Continuous Wooden Packers MSG8 min MSG8 min Continuous length
			110 SS Ni dia SS W		can support the appropriate loads 2 - Timber SG8 minimum strength 3 - A PVC Layer must be installed between the MiniPost and Steel Flange 4 - Substructure shown indicatively only. 5 - All fixings must be Stainless Steel
					2 x M10 SS Bolts and 21mm dia SS Washers

Typical FACE Fix to Steel - M10 SS Bolts

Wind Zones (up to and including)
Residential A, A Other and C3 only

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
High	12 T	1200		
Very High	12 T	1100		
very riigii	13.52SG	1200	720	250
Extra High	13.52SG	1100		
Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

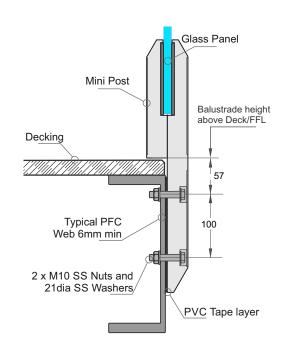
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)				
Pool Fen	Pool Fence applies to Top and Face Fix only							
Medium	12 T	1200	1000	500				
High	12 T	1200	750	375				
Very High	12 T	1200	600	300				

1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

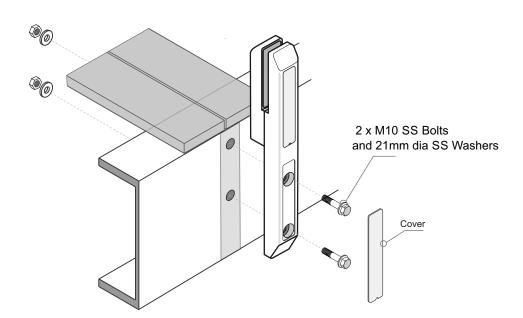
2 - All measurements mm

3 - Balustrade Height, above Deck/FFL
4 - Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project engineer must ensure the structure can support the appropriate loads
- 2 A PVC Layer must be installed between the MiniPost and Steel
- 3 Substructure shown indicatively only.
- 4 All fixings must be Stainless Steel





Wind Zones (up to and including)
Residential A, A Other and C3 only

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
High	12 T	1200			
Very High	12 T	1100			
very riigii	13.52SG	1200	720	250	
Extra High	13.52SG	1100			
Extra High	12T	1000			

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes: - Glass thickness mm

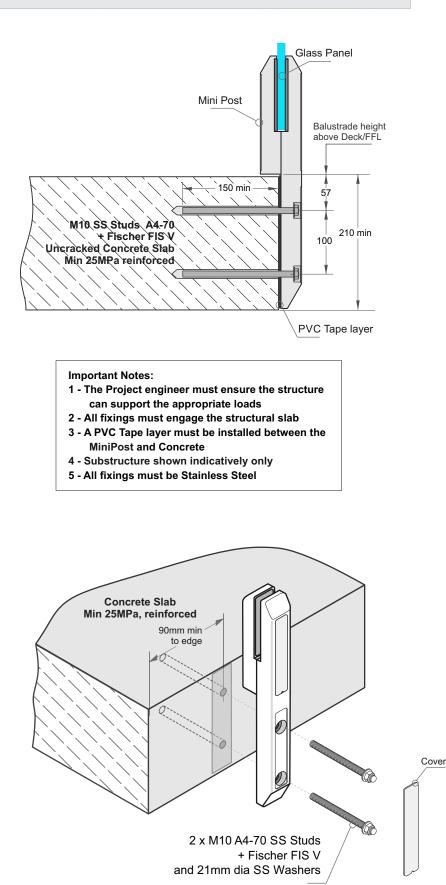
- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



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



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Typical GUTTER BRKT FACE Fix to Timber - JET 137/65, Gutter Bracket - M10 SS Coachscrews

Wind Zones (up to and including) Residential A, A Other and C3 only								
Wind Zone	Glass	Balustrade	Clamp	Glass				
	Thickness,	Height	Spacing	Overhan				
	Type	(max)	(max)	(max)				

		Type	(max)	(max)	(max)
	High	12 T	1200		
	Very High	12 T	1100	720	250
		13.52SG	1200		
	Extra High	13.52SG	1100		
	Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

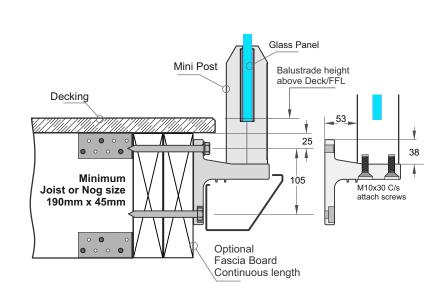
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fen	ce applies	to Top ar	nd Face F	ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes:

- Glass thickness mm - Glass type T= Toughened, SG =SentryGlas

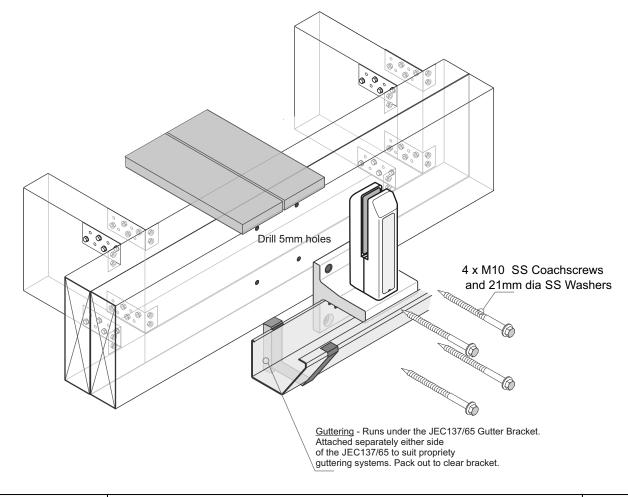
2 - All measurements mm

- 3 Balustrade Height, above Deck/FFL
- 4 Refer to Elevations for Max Panel widths



Important Notes:

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





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

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
High	12 T	1200			
Very High	12 T	1100			
very riigii	13.52SG	1200	720	250	
Extra High	13.52SG	1100			
Extra High	12T	1000			

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

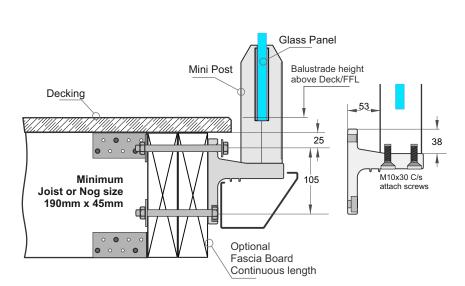
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fence applies to Top and Face Fix or				ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes:

- Glass thickness mm - Glass type T= Toughened, SG =SentryGlas
- 2 All measurements mm

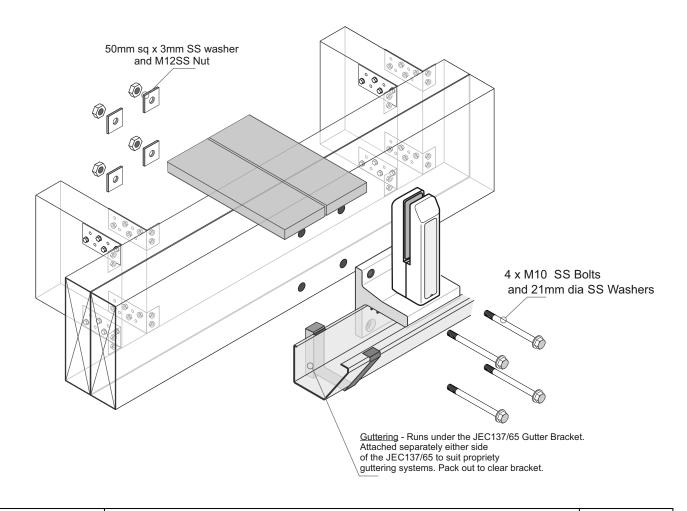
3 - Balustrade Height, above Deck/FFL

4 - Refer to Elevations for Max Panel widths



Important Notes:

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





Typical GUTTER BRKT FACE Fix to Steel - JET 137/65, Gutter Bracket - M10 SS Bolts

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
High	12 T	1200			
	Thickness, Type	Height (max)	Spacing	Overha	

High	12 T	1200	720	250
Very High	12 T	1100		
	13.52SG	1200		
Extra High	13.52SG	1100		
Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
Pool Fen	ce applies	to Top ar	nd Face F	ix only	
Medium	12 T	1200	1000	500	
High	12 T	1200	750	375	
Very High	12 T	1200	600	300	

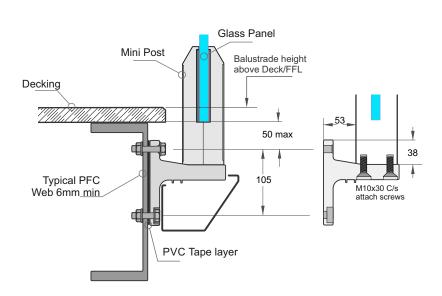
1 - General Notes: - Glass thickness mm

- Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

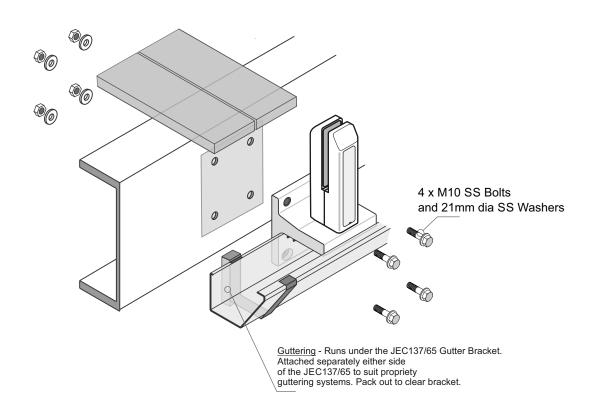
3 - Balustrade Height, above Deck/FFL

4 - Refer to Elevations for Max Panel widths



Important Notes:

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



Typical GUTTER BRKT FACE Fix to Steel, Wooden Packers - JET 137/65, Gutter Bracket - M10 SS Bolts

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
High	12 T	1200			
Very High	12 T	1100			
	13.52SG	1200	720	250	
Extra High	13.52SG	1100			
Extra High	12T	1000			

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more

Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)
Pool Fence applies to Top and Face F				ix only
Medium	12 T	1200	1000	500
High	12 T	1200	750	375
Very High	12 T	1200	600	300

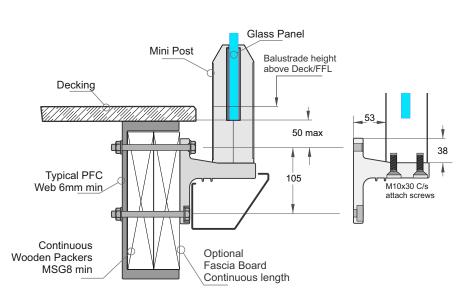
1 - General Notes: - Glass thickness mm

Glass type T= Toughened, SG =SentryGlas

2 - All measurements mm

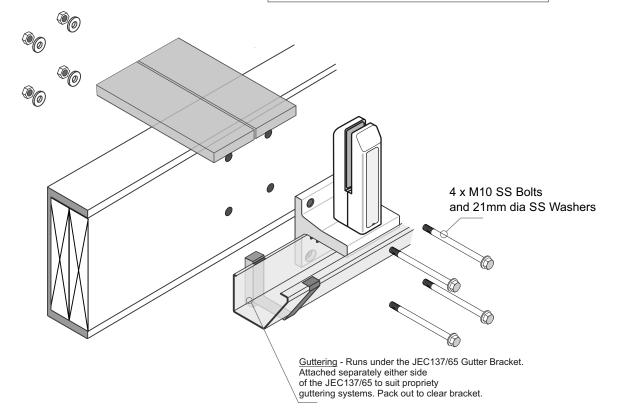
3 - Balustrade Height, above Deck/FFL

4 - Refer to Elevations for Max Panel widths



Important Notes:

- 1 The Project engineer must ensure the structure can support the appropriate loads
- 2- Timber SG8 minimum strength
- 3 Substructure shown indicatively only
- 4 All fixings must be Stainless Steel



Typical GUTTER BRKT FACE Fix to to Concrete - JET 137/65, Gutter Bracket - M10 SS Studs

Wind Zones (up to and including) Residential A, A Other and C3 only					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhan (max)	
High	12 T	1200			

High	12 T	1200		
Very High	12 T	1100		
	13.52SG	1200	720	250
Extra High	13.52SG	1100		
Extra High	12T	1000		

Wind Zones (up to and including) Pool Fence only

Applies to Pool Fences not protecting a fall of 1.0m or more					
Wind Zone	Glass Thickness, Type	Balustrade Height (max)	Clamp Spacing (max)	Glass Overhang (max)	
Pool Fence applies to Top and Face Fix only					
Medium	12 T	1200	1000	500	

High	12 T	1200	750	375
Very High	12 T	1200	600	300

1 - General Notes:

- Glass thickness mm - Glass type T= Toughened, SG =SentryGlas
- Glass type T= Toughened, ? - All measurements mm

3 - Balustrade Height, above Deck/FFL

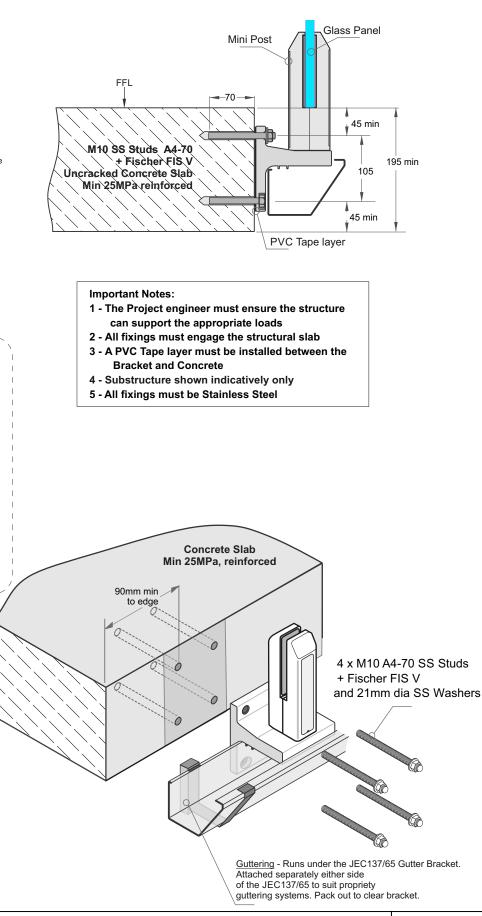
4 - Refer to Elevations for Max Panel widths



Installation details Fischer FIS V 300T

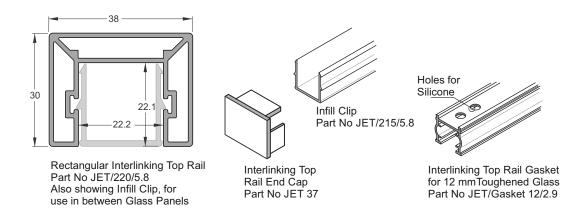
Thread diameter Drill hole diameter Drill hole depth Anchorage depth	M10 = 12 mm = 80 mm = 70 mm
Drilling method Drill hole cleaning	Hammer drilling 4 times blowing, 4 times brushing, 4 times blowing
No bouched a classical service of the second	

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





Juralco 38mm Rectangular Interlinking Top Rail



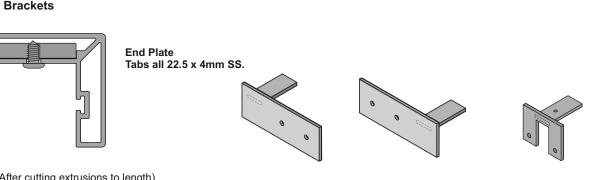
1 - 12mm Glass and Gasket

Application Notes:

- Cut short lengths of Gasket (50mm) and place say every 700mm.
- Cut/adjust Interlinking rail to correct dimensions, test in place.
- Remove all, install full cut lengths of Gasket to glass top edge
- Assemble Top Rail + Joiners and suitable End plates
- Place blobs of V60 silicone in every Gasket hole
- Then place Top Rail extrusion + Joiners and End plates in place clipping firmly to Gasket
- Tape all down, wait 24 hrs to fully bond. Clean up.

Note: Ends must be attached to structure or post, - Joins must have a suitable joiner plate

2 - End Plate Brackets



End Plates: (After cutting extrusions to length) - With End Plate in place, spot drill from below for position

- Drill out to SS tab to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive Screw, 2 per plate.
- End Plate must be securely attached to Post or structure.

Interlinking Top Rail Wall type End Plate SS. 120x45mm JET 40LH Interlinking Top Rail Wall type End Plate SS. 120x45mm JET 40RH

V60 Silicone Joining Top Rail,

Glass Panel

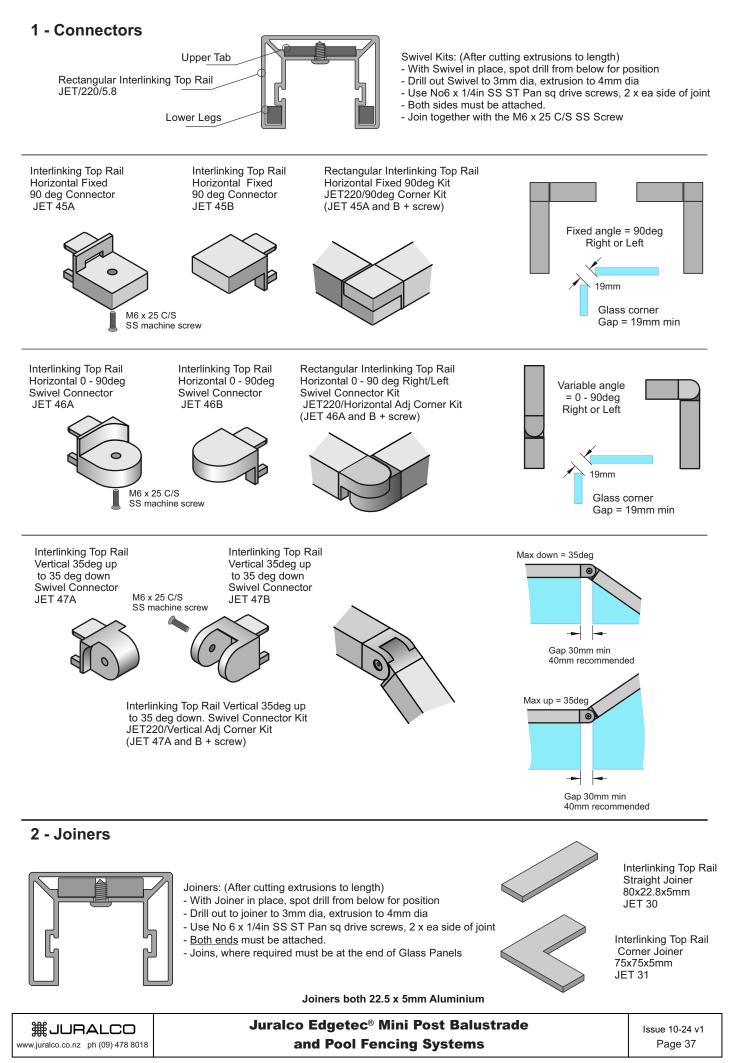
Wedge and Glass

Interlinking Top Rail Gasket

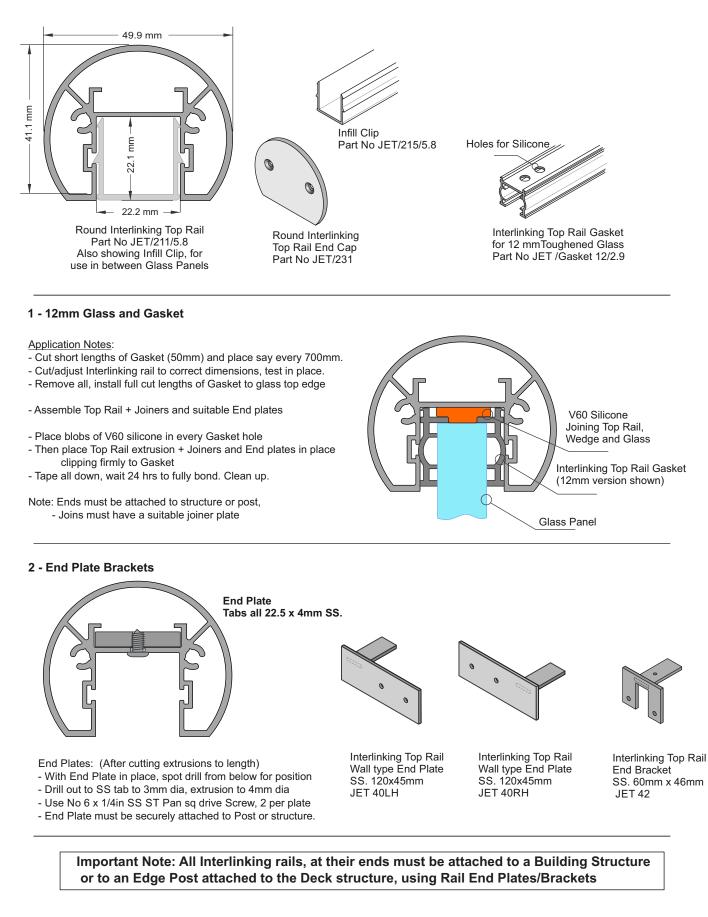
Interlinking Top Rail End Bracket SS. 60mm x 46mm JET 42

Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

Juralco 38mm Rectangular Interlinking Top Rail - Corner Connectors and Joiners

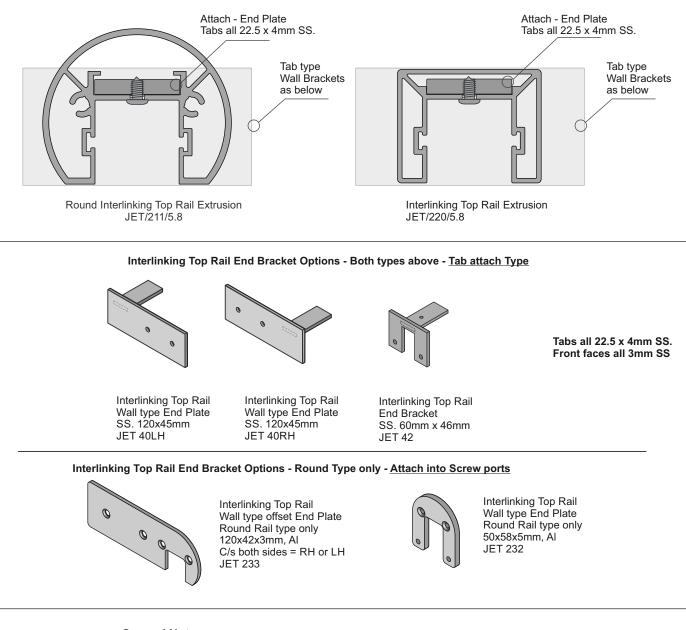


Juralco 50mm Round Interlinking Top Rail



Juralco 38mm Rectangular and 50mm Round Interlinking Top Rail - End Bracket Attachments

Applies to 38mm Rectangular and 50mm Round InterlinkingTop Rails only



General Notes:

- All fixings to be Stainless Steel - PVC Tape layer between Structure and Bracket - 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 2hr
- 30mm min distance to Horizontal Edge
- If Weatherboard use suitable predrilled Wedge
- Timber stud wall to be designed and detailed in accordance with NZS1720.1:2022 Timber Structures Part 1 - Design methods or NZS3604

Note : Fixing to Juralco EDGE Post

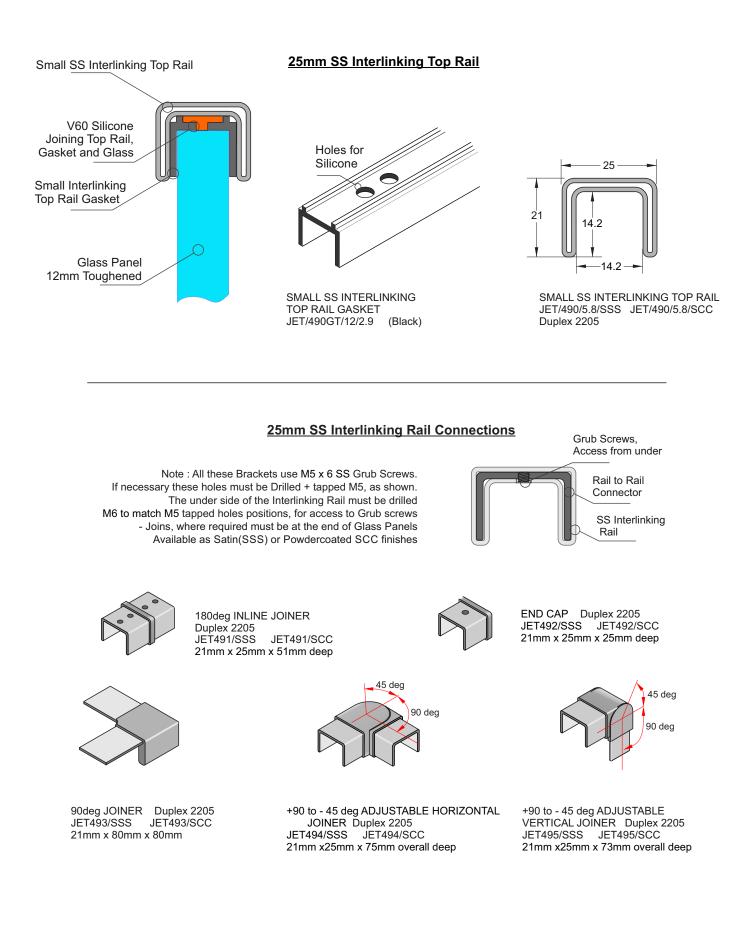
- use 2 off 8g x 25 SS PK Screws

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 NZS4230 or NZS4229

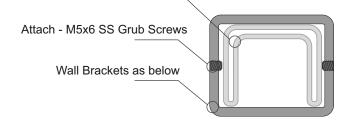
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

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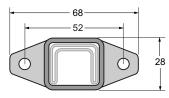


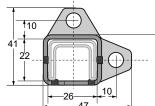
Juralco 25mm SS Interlinking Top Rail - End Brackets

25mm SS Interlinking Top Rail JET/490



Brackets for Fixing to Wall or End Post for 25mm SS Interlinking Rail

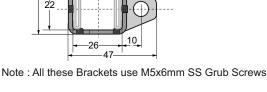




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WALL BRACKET Duplex 2205 JET496/SSS JET/496/SCC 68mm x 28mm x 30mm deep





WALL BRACKET - RH. Duplec 2205 JET497/RH/SSS JET497/RH/SCC 41mm x 47mm x 30mm deep



WALL BRACKET - LH Duplex 2205 JET497/LH/SSS JET497/RH/SCC 41mm x 47mm x 30mm deep

General Notes:

- All fixings to be Stainless Steel. - PVC Tape layer between Structure and Bracket - 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 2hr
- 30mm min distance to Horizontal Edge
- If Weatherboard use suitable predrilled Wedge
- Timber stud wall to be designed and detailed in accordance with NZS1720.1:2022 Timber Structures Part 1 - Design methods or NZS3604

Note : Fixing to Juralco EDGE Post

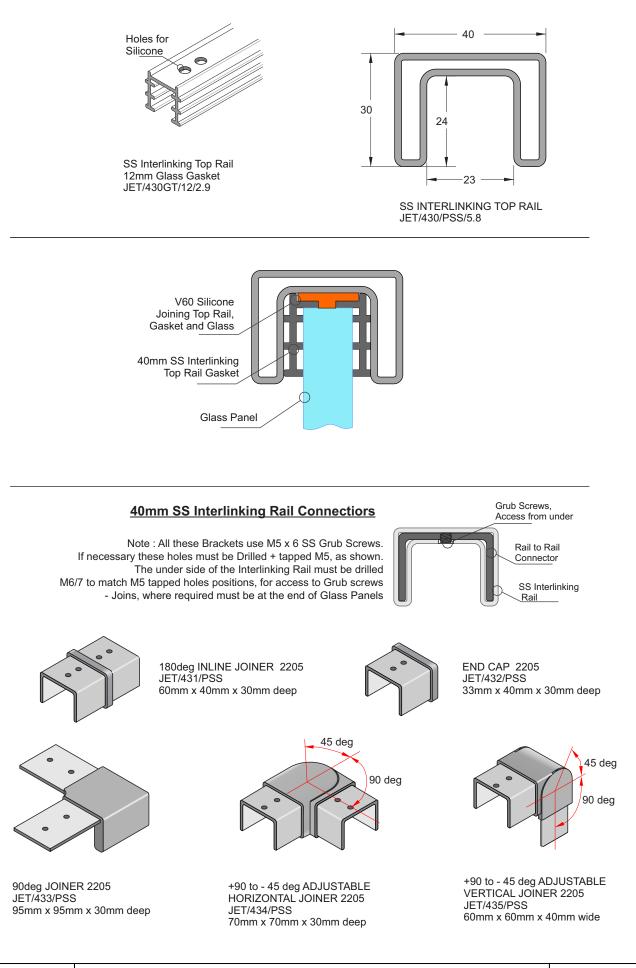
- use 2 off 8g x 25 SS PK Screws

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 NZS4230 or NZS4229

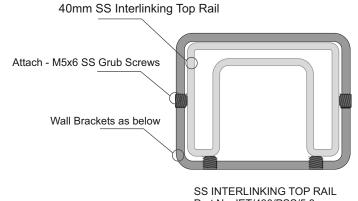
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

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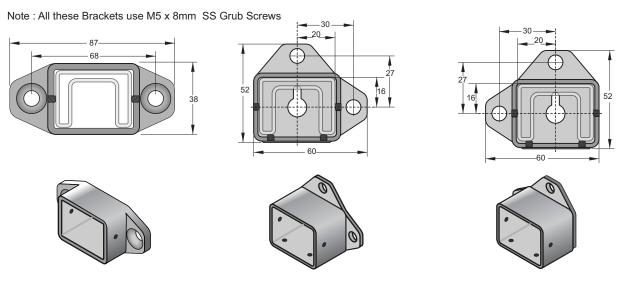
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Juralco 40mm SS Interlinking Top Rail - End Brackets



Part No JET/430/PSS/5.8

Brackets for Fixing to Wall or End Post for 40mm SS Interlinking Rail



WALL BRACKET 2 FIX 2205 Part No JET/436/PSS 87mm x 37mm x 25mm deep

WALL BRACKET 2 FIX - RH 2205 Part No JET/437/RH/PSS 52mm x 60mm x 33mm deep

WALL BRACKET 2 FIX - LH 2205 Part No JET/437/LH/PSS 52mm x 60mm x 33mm deep

General Notes:

- All fixings to be Stainless Steel - PVC Tape layer between Structure and Bracket - 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 2hr
- 30mm min distance to Horizontal Edge
- If Weatherboard use suitable predrilled Wedge
- Timber stud wall to be designed and detailed in accordance with NZS1720.1:2022 Timber Structures Part 1 - Design methods or NZS3604

Note : Fixing to Juralco EDGE Post

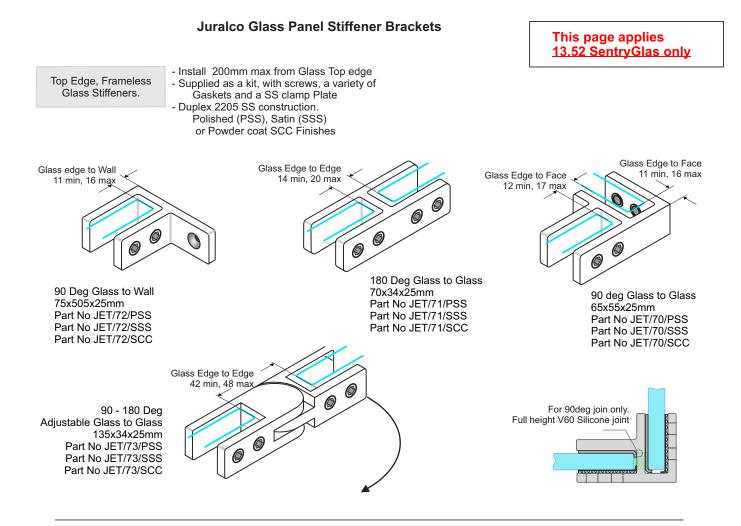
- use 2 off 8g x 25 SS PK Screws

Note : Fixing to Concrete Wall

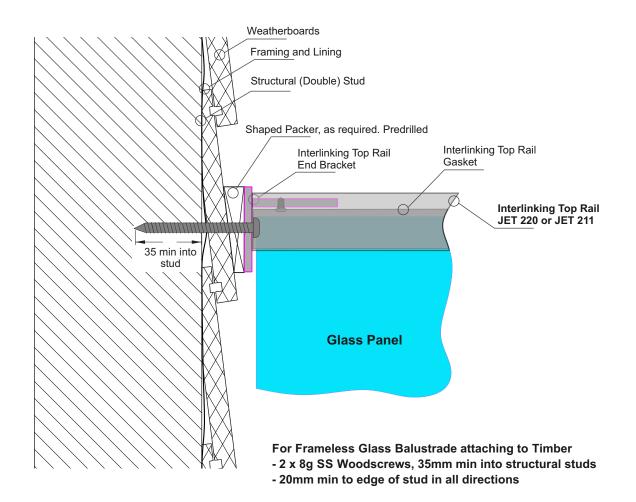
- use 2 off M6 x70 SS Screw Anchors
- Solid Concrete min 20Mpa
- Block wall Concrete filled/Reinforced
- 140mm min Wall thickness
- 70mm min distance to Horizontal Edge
- 100mm min distance to Vertical Edge
- Blockwork wall must be corefilled /reinforced and is to be designed and detailed in accordance with NZS4230 or NZS4229

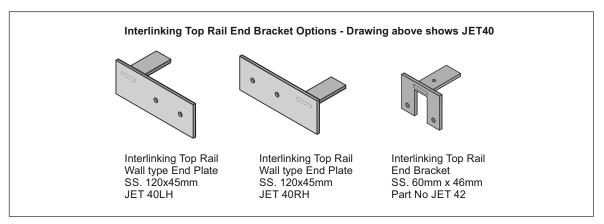
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

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Juralco Interlinking Top Rail End Bracket fixing to a Timber Wall

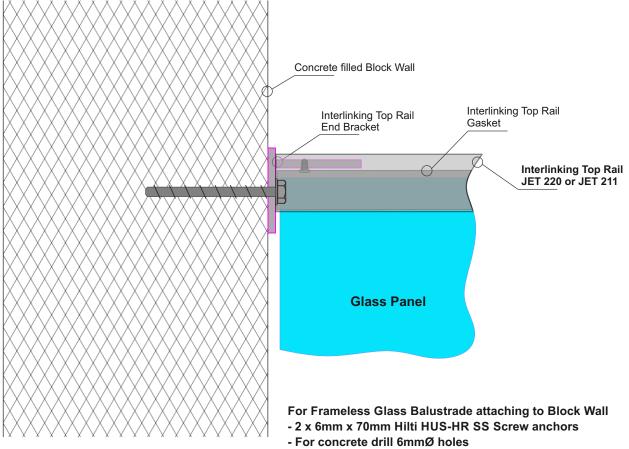




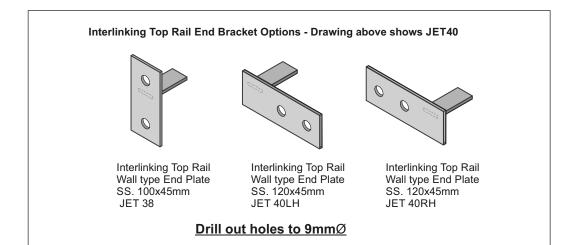
Notes:

- All fixings to be stainless steel
- Timber stud wall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load N* = 0.9kN, inwards, outwards or down.
 - Minimum Stud size = 90mm x 45mm
 - Minimum Timber grade = SG8
 - -Timber stud wall to be designed and detailed in accordance with NZS1720.1:2022 Timber Structures Part 1 - Design methods or NZS3604





- 70mm min to side edge of concrete, 100mm to top edge.



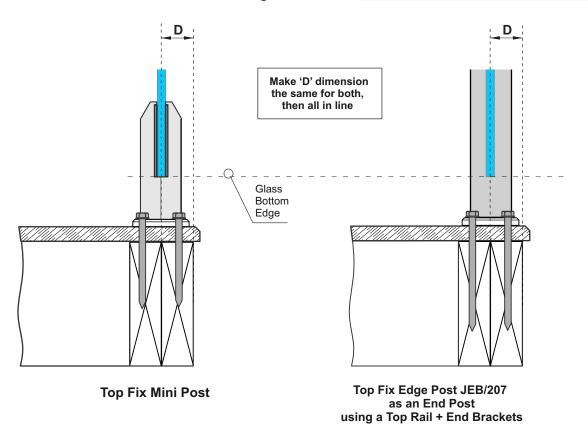
Notes:

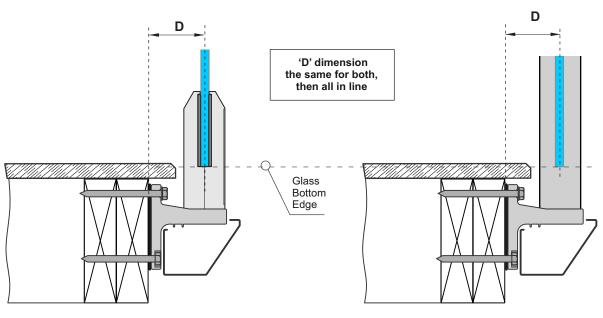
- All fixings to be stainless steel
- Blockwall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load N* = 0.9kN, inwards, outwards or down.
- Minimum blockwork thickness = 140mm
- Minimum core fill concrete strength = 17.5MPa
- Blockwork wall must be corefilled /reinforced and is to be designed and detailed in accordance with NZS4230 or NZS4229



Juralco MiniPost® Balustrade System Interlinking Top Rail <u>for attaching to a Edge balustrade End Post</u> where Wall fixing not suitable

Applies to InterlinkingTop Rails suitable for 12mm Toughened Glass





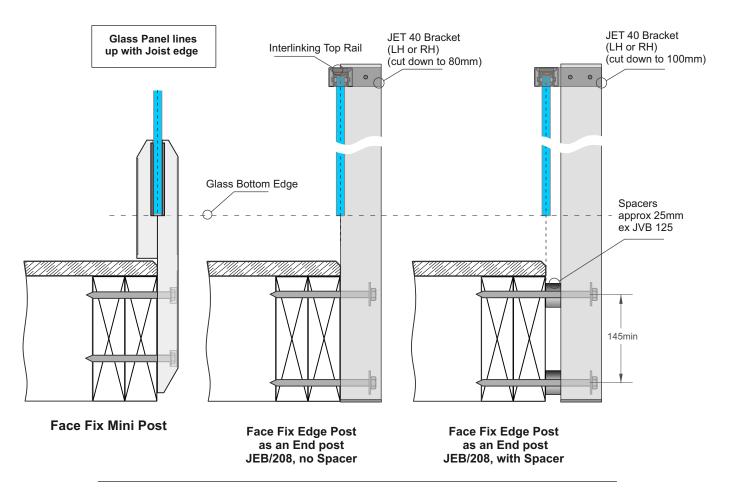
Gutter Bracket Fix Mini Post

Top (Gutter Brkt) Fix Edge Post JEB/207 as an End Post using a Top Rail + End Brackets

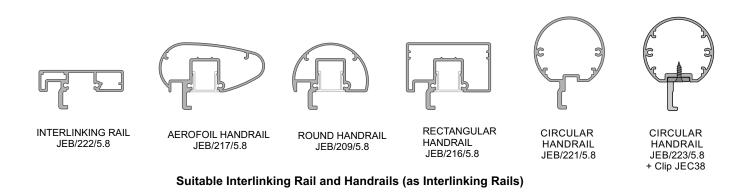


Juralco MiniPost® Balustrade System Interlinking Top Rail <u>for attaching to a Edge balustrade End Post</u> where Wall fixing not suitable

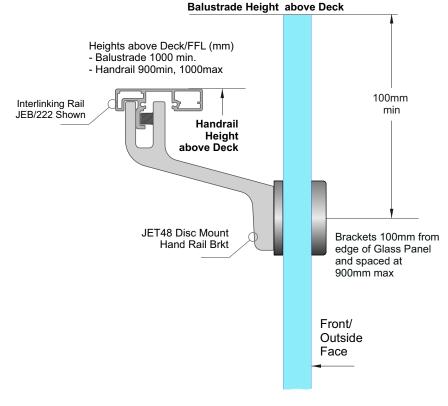
Applies to InterlinkingTop Rails suitable for 12mm Toughened Glass



Juralco Interlinking Rails



Interlinking or Handrails on Deck side.

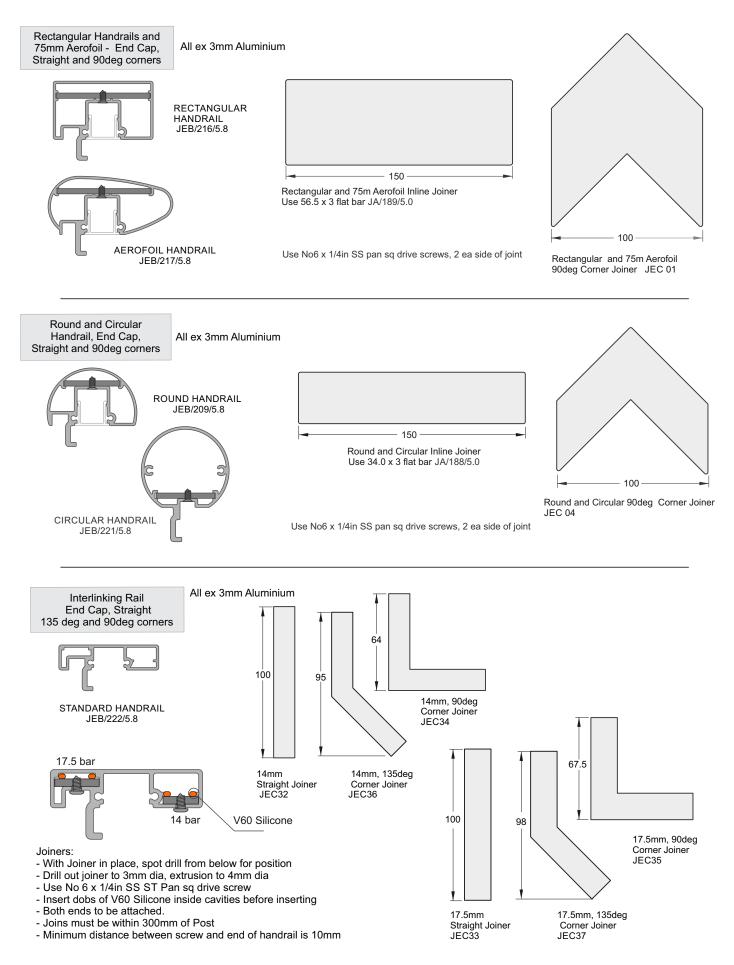


Frameless Glass Systems

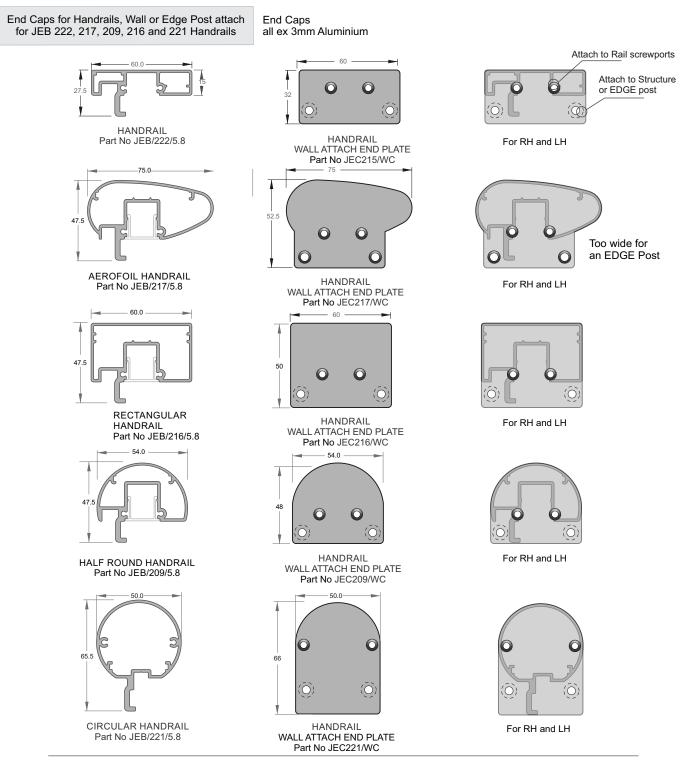
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets. Applies to Handrails used as Interlinking Rails

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Juralco Handrail Components - Joiners



Juralco Handrail End Plates for Attaching to a Structure or Edge Deck mounted Post



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 2hr

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- 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 Edgetec [®] Mini Post Balus	strade
and Pool Fencing Systems	;

Juralco Edgetec[®] Mini Post 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..

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- 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 squeege 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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Juralco Edgetec[®] Mini Post Balustrade System Powder Coating 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 I2 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 <u>masked or covered</u> 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 <u>simple, regular</u> 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 <u>must</u> be washed down every six months, to clean off chlorine and salt deposits.

Cleaning your powder coating:

Carefully remove any loose surface deposits with a wet sponge.
 Use a soft brush (non abrasive) and a mild household detergent (do not use solvents) in warm water, remove dust, salt and other deposits.
 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 Edgetec[®] Mini Post Balustrade System Stainless Steel Care and Maintenance

Care and Maintenance of Stainless Steel

Introduction

Stainless steels are selected for applications where their inherent corrosion resistance, strength and aesthetic appeal are required. However, dependent on the service conditions, stainless steels will stain and discolour due to surface deposits and so cannot be assumed to be completely maintenance-free. In order to achieve maximum corrosion resistance and aesthetic appeal, the surface of the stainless steel must be kept clean. Provided the grade of stainless steel and the surface finish are correctly selected, and cleaning schedules carried out on a regular basis, good performance and long service life will result.

For the correct selection of a Stainless Steel grade, with respect to Location, see Table below.

Factors affecting maintenance

Surface contamination and the formation of deposits on the surface of the stainless steel must be prevented. These deposits may be minute particles of iron or rust generated during construction. Industrial and even naturally occurring atmospheric conditions can produce deposits which can be equally corrosive, e.g. salt deposits from marine conditions.

Working environments can also provide aggressive conditions such as heat and humidity in swimming pool buildings. These conditions can result in surface discolouration of stainless steels and so maintenance on a more frequent basis may be required.

Modern processes use many cleaners, sterilizers and bleaches for hygienic purposes. Proprietary solutions, when used in accordance with makers' instructions, should be safe but if used incorrectly (e.g. warm or concentrated), may cause discolouration or corrosion on stainless steels. Strong acid solutions are sometimes used to clean masonry and tiling of buildings. These acids should never be used where contact with metals, including stainless steel, is possible. If this happens, the acid solution must be removed immediately, followed by dilution and rinsing with clean water.

Maintenance programme

With care taken during fabrication and installation, cleaning before 'hand-over' should not present any problems. More attention may be required if the installation period has been prolonged or hand-over delayed. Where surface contamination is suspected, immediate cleaning after site fixing should avoid problems later.

The frequency of cleaning is dependent on the application. This may vary from once to four times a year for external applications, Recommendations on cleaning frequencies in architectural applications are shown below.

Cleaning frequency

Reccommended Cleaning for various grades of Stainless Steel			
Location	304 Grade	316 Grade	
Surbarban or Rural	Clean at 6-12mth intervals or as necessary		
Industrial or Urban	Clean at 3-6mth intervals	Clean at 6-12mth intervals	
Coastal or Marine	Not recommended	Clean at 0-12mm mervals	

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