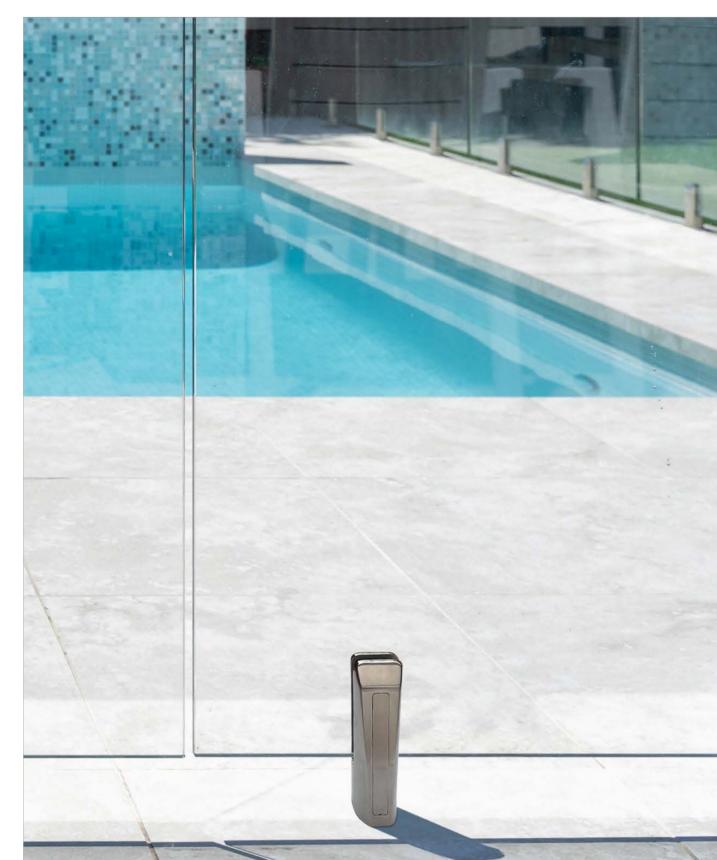
# JURALCO JURALCO EDGETEC MATADOR® SERIES II MINI POST BALUSTRADE and POOL FENCING SYSTEMS



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, Lourve Roofs, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors.

The Juralco Matador<sup>®</sup> Series II Mini Post balustrade is a top or face mounted frameless glass system using 2205 Duplex Stainless Steel posts capable of clamping 13.52 Sentry Glass and 12 - 15mm Toughened Glass.

The system is well suited to a wide range of applications, including pool fencing and has a unique, premium design utilizing hidden fixings with a high range of adjustability. Standard Finishes are Polished Stainless Steel (PSS) or Satin Stainless Steel (SSS), or Dulux Duralloy Plus Power-coat (SCC).





Edgetec Matador<sup>®</sup> Series II 2205 Duplex Stainless Steel. Showing Front Side with Screw Cover



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

### The Edgetec Matador<sup>®</sup> Series II Post Balustrade System is for Occupancy types A, A Other, C3, B and E 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.			
A Other, C3	Areas without obstacles for moving people and not susceptible to over crowding	Stairs, landings, external balconies, edges of roofs etc.	12mm Toughened Glass, 15mm Toughened Glass, and 13.52mm SentryGlas		
B, E	Offices and work areas not included elsewhere including storage areas.	Light access stairs and gangways not more than 600mm wide Fixed platforms, walkways, stairways and ladders for access Areas not susceptible to overcrowding in office and institutional buildings; also industrial and storage building.			
Note 1	All for 12mm, or 15mm Toughened G Glass must have a minimum strengt	Blass and 13.52mm SentryGlas, Frameless. h of 100MPa. All edges polished			
Note 2	Juralco Balustrade Systems building code compliance documentation requires all balustrade installations to be completed in accordance with the requirements of our authorised installer certification.				
Note 3	Note 3 All Frameless balustrades using 12mm, or 15mm Toughened Glass must have an Interlinking Rail to conform to NZS 4223.3.2016. Not necessary for Swimming Pool Fencing and 13.52mm SentryGlas.				

Note 4 Includes New Zealand Patent #618520, and New Zealand Patent Application #816340.

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# Juralco Edgetec Matador® Series II Mini Post Balustrade System

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

#### 1.Scope

- This specification details the documents the Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, and requirements in relation to fixing and surface finishing.

#### 2. NZBC Compliance

- The Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and NZS 1170 : 2002 occupancy A, B, E, A Other and C3, NZS 3604 for Low, Medium, High, Very High Wind Zones and up to Extra High Wind Zone max wind pressure 2.5KPa.
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 Hazardous material and F4 Safety from falling, F9 Restricting access to Residential Pools, all from the Building Code.
- Verification Method B1 / VM1, B2/AS1, F4 / AS, F9/AS1 All glass used in the Juralco Edgetec<sup>®</sup> Matador<sup>®</sup> Series II Mini Post Balustrade System must conform to AS/NZS 2208. Complies with NZS 4223.3.2016
- Separation of dissimilar materials (as relates to B2 compliance) has been reviewed. For other combinations refer to NZS 3604:2011 Section 2.3.3 Separation and Section 4 Durability

#### 3. Manufacturer's Documents

- The Juralco Edgetec Matador<sup>®</sup> Series II 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 Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System
- Aluminium extrusions, components and hardware unless specified are manufactured to 6060 T5 specifications
- Stainless Steel components, hardware, fixings all components SS 316 or Duplex 2205 grades.
   Glass all glass used in the Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System must conform to the specifications as listed in the Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System 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 Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System must only be installed in accordance with the Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System manual
   Any deviation from that specified in the Juralco Edgetec Matador<sup>®</sup> Series II Mini Post Balustrade System manual
- accordance with the site specific PS1 with site specific calculations and drawings listing the non standard details The Juralco Edgetec Matador<sup>®</sup> Series II 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.

Powdercoat Systems The new standard Dulux powder coating system used by Juralco is Duralloy Plus<sup>®</sup>. Also Duralloy<sup>®</sup> and Duratec<sup>®</sup>. 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.

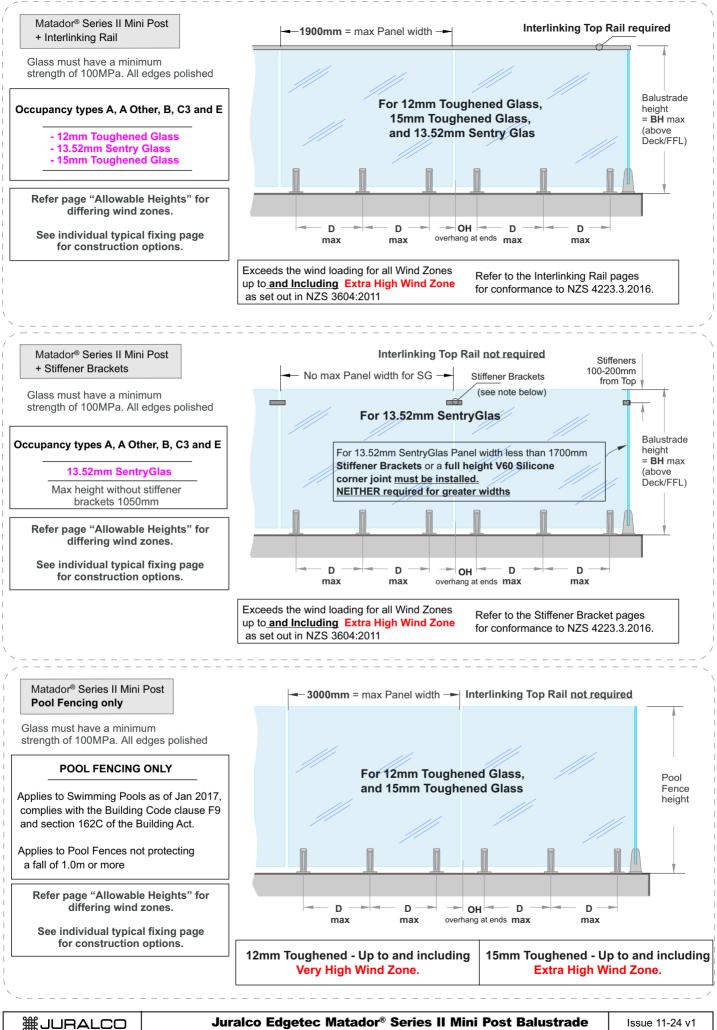
Swimming Pools The chlorinated water in swimming pools can cause the deterioration of powder coated surfaces, leading to corrosion of the underlying surface. It is recommended that Powder coated surfaces be 1200mm min from a pool.

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.

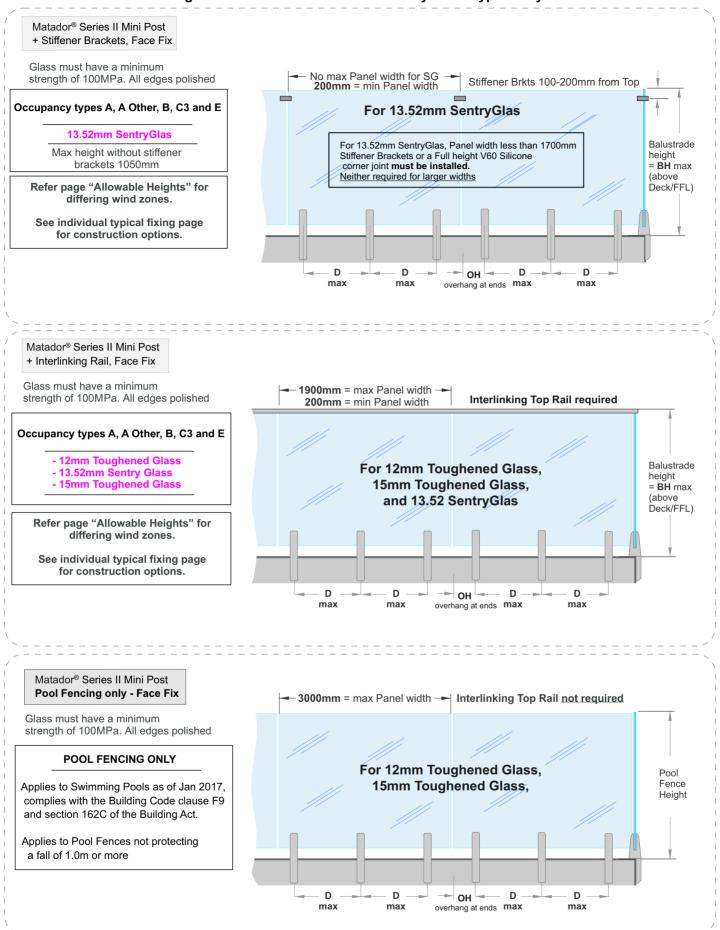
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# Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System - Typical Layouts

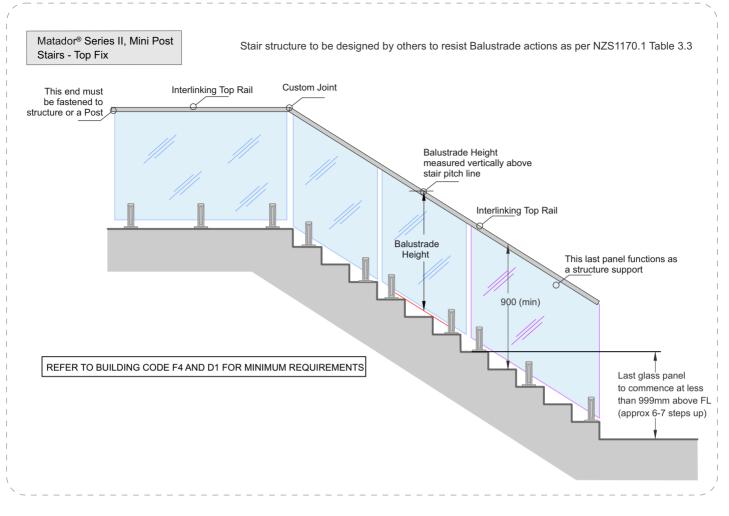


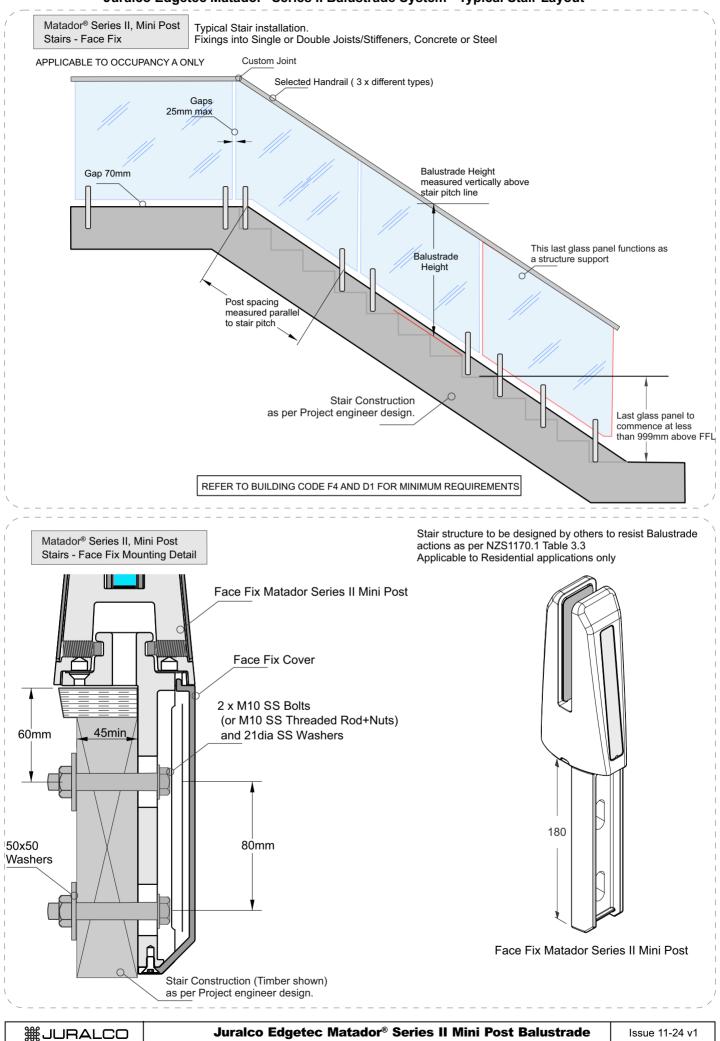
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# Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System - Typical Layouts



# Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System - Typical Stair Layout



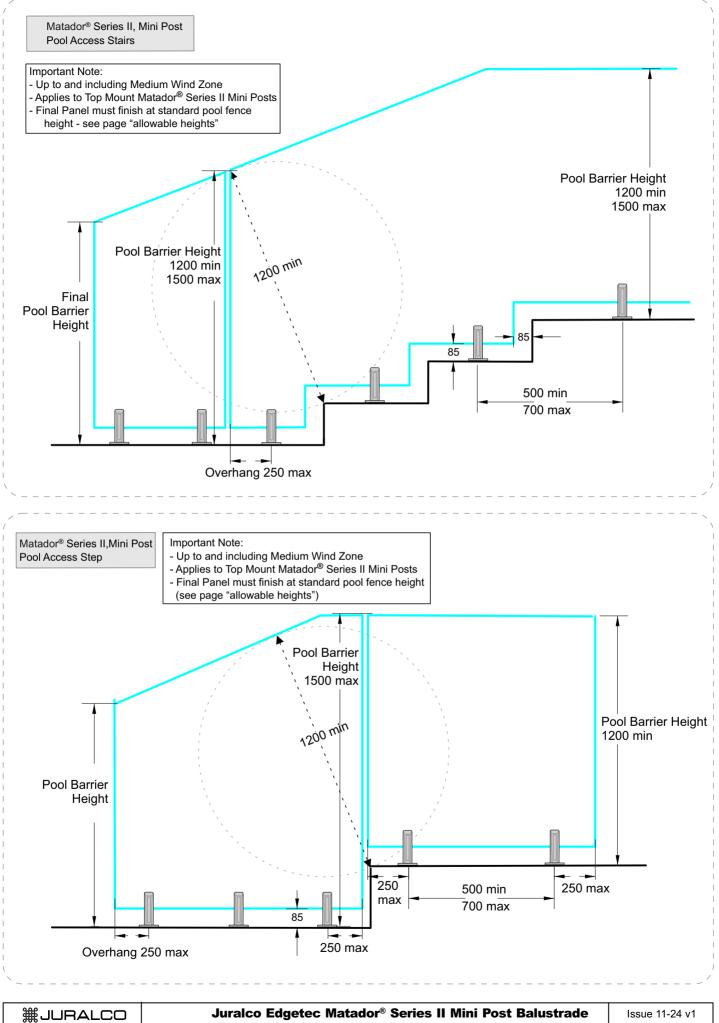


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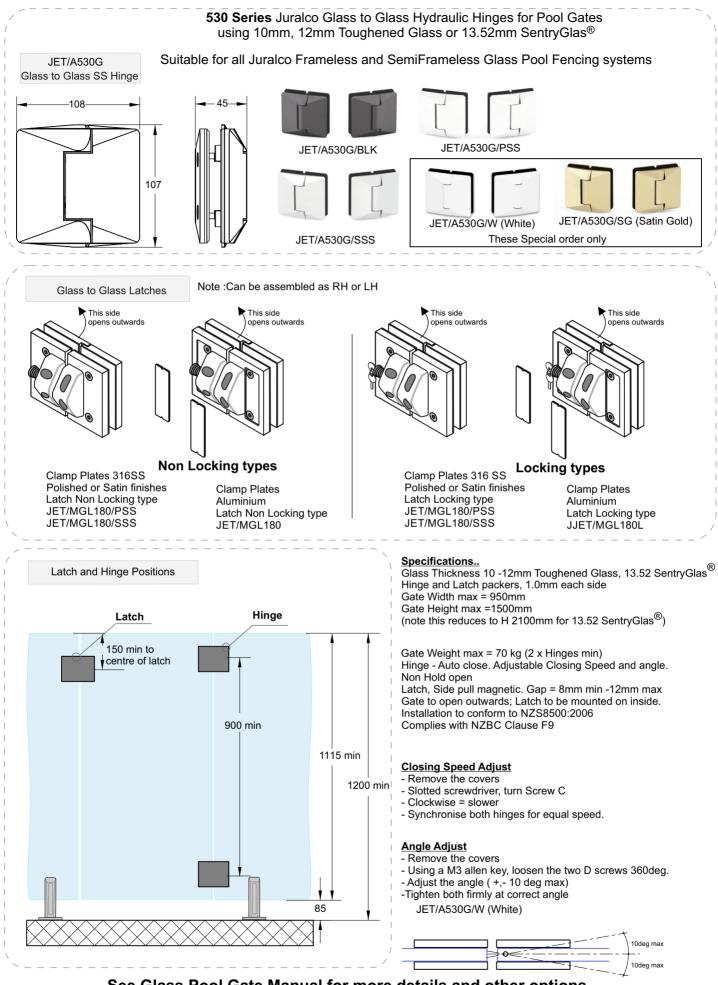
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# Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System - Typical Stair Layout leading to a Pool



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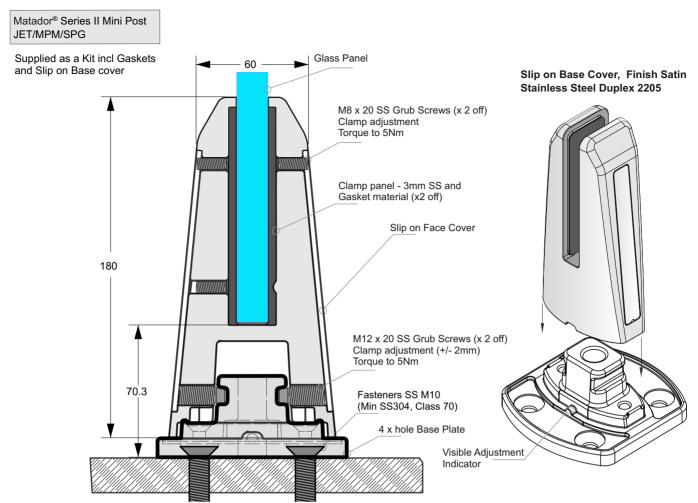
### Juralco Edgetec® Glass Pool Gate - Atlantic and Malibu Systems



See Glass Pool Gate Manual for more details and other options

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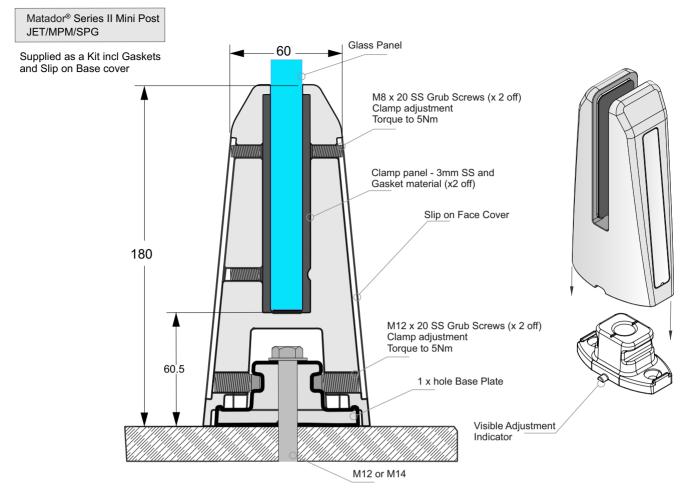
### Juralco Edgetec Matador® Series II Balustrade System - Top Fix to Base plate



Notes:

- 1 Clamp panels, 3mm SS and Gasket material. Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrews first, then two top screws. Do not over tighten, max torque 5Nm (Lateral Spigot Adjustment +/- 2mm)
- 3 Matador Cover Panels. Held in place with JMF/X02 Double sided tape
- 4 Use top grub screws for vertical alignment of the glass panel.
- 5 Ensure that the glass panel is not in contact with any of the Matador Spigot
- 6a For height adjustment pack the bottom of the glass with additional bottom gaskets
- 6b For alternative adjustment use the M8 grub screws in the base plate to adjust the height then fill with drypack grout. Use a drypack grout which complies NZS 4210:2001 and sets to min 40MPa.

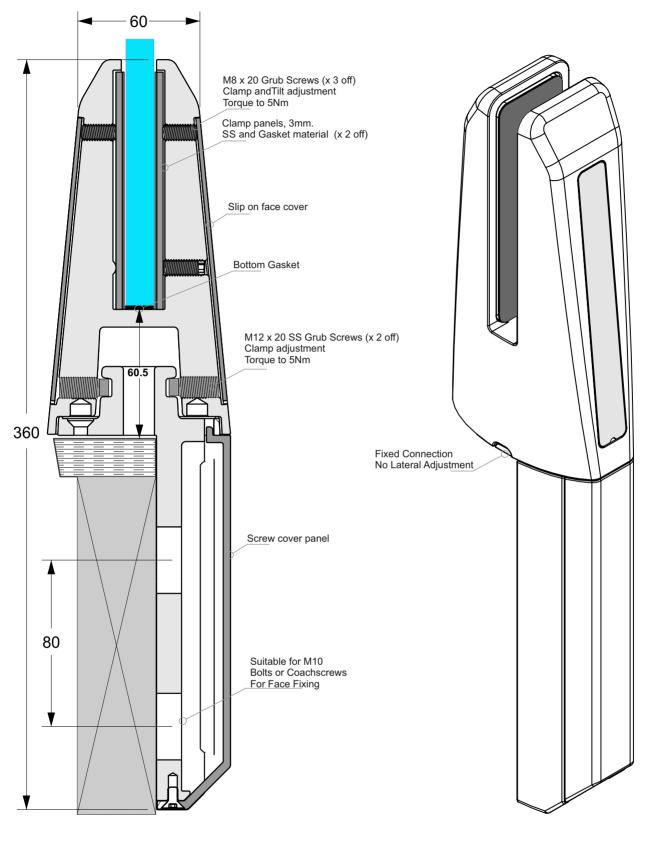
### Juralco Edgetec Matador® Series II Balustrade System - Top Fix to Base plate



#### Notes:

- 1 Clamp panels, 3mm SS and Gasket material. Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrews first, then two top screws. Do not over tighten, max torque 5Nm (Lateral Spigot Adjustment +/- 2mm)
- 3 Matador Cover Panels. Held in place with JMF/X02 Double sided tape
- 4 Use top grub screws for vertical alignment of the glass panel.
- 5 Ensure that the glass panel is not in contact with any of the Matador Spigot
- 6a For height adjustment pack the bottom of the glass with additional bottom gaskets
- 6b For alternative adjustment use the M8 grub screws in the base plate to adjust the height then fill with drypack grout.
  - Use a drypack grout which complies NZS 4210:2001 and sets to min 40MPa.

### Juralco Edgetec Matador® Series II 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. (No Lateral Spigot Adjustment)

- 3 Matador 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 Matador Spigot

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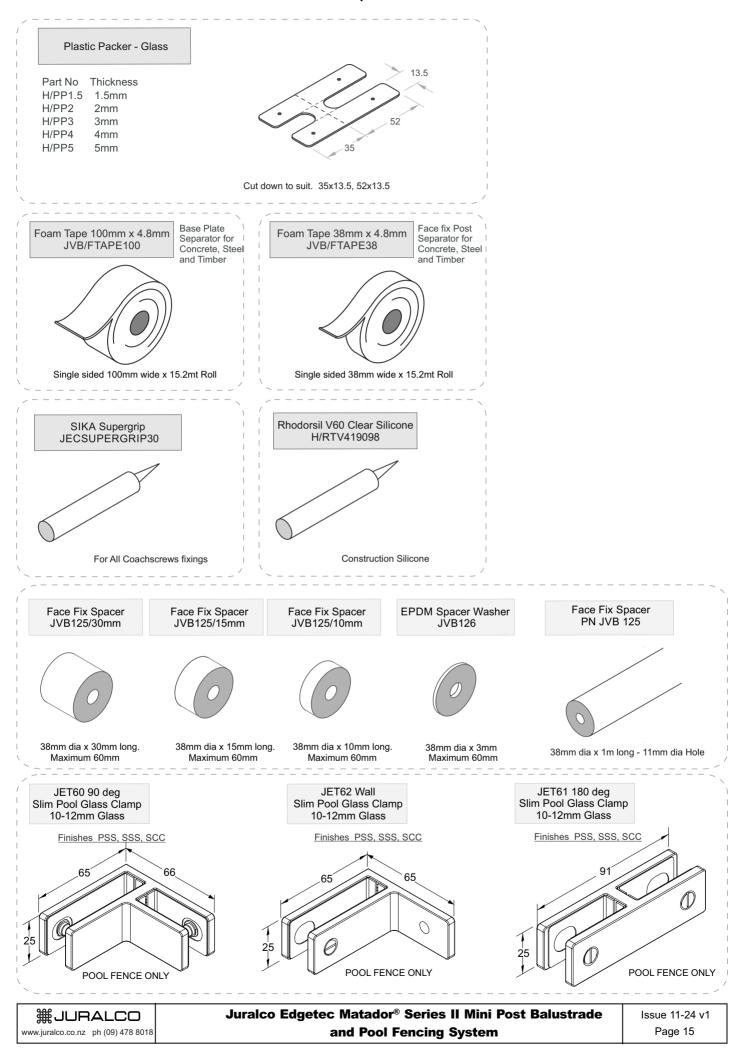
# Juralco Edgetec Matador® Series II Balustrade System - Components



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### Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System Components



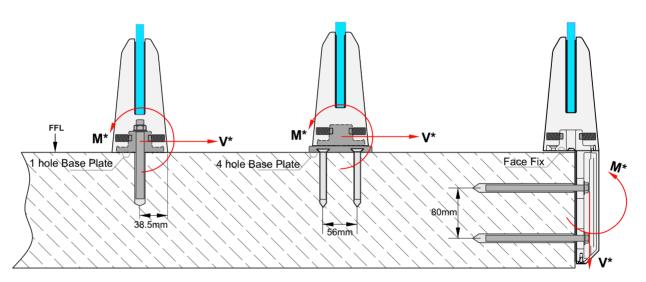
# Juralco Edgetec Matador<sup>®</sup> Series II Balustrade System Dimension Tables and Design Loads

### **Dimension Table - Balustrade Occupancy**

	Extra High Wind Zones (up to and including) A, A Other and C3, B and E only										
Glass Thickness,	Wind Zone	Balustrade Height	Post Glass M <sup>*</sup> Spacing Overhang	1 001 01000		M* (ki	Nm/m)	V*(kN)	Importan SLS Wir		ULS Wind
Туре	(up to)	(max)	(max)	(max)	Тор	Face	. ,	NZ1,2,3	Nz4	(kPa)	
	High	1200	720	720 250	1.1	1.2	1.3	1.2	1.3	1.6	
12T, 13.52SG	Very High	1100			1.0	1.1	1.5	1.5	1.7	2.0	
10.0200	Extra High	1000			0.9	1.1	1.7	1.9	2.0	2.5	
	High	1300			1.1	1.2	1.4	1.2	1.3	1.6	
15T	I5T Very High 1250	igh 1250		1.2	1.3	1.7	1.5	1.7	2.0		
	Extra High	1200			1.3	1.5	2.0	1.9	2.0	2.5	

#### **Dimension Table - Pool Fence**

	Wind Zones (up to and including)									
	Pool Fence only									
			Applies to F	Pool Fences no	ot prote	cting a f	fall of 1.0m or m	ore		
			Pool	Fence applie	s to To	op and	Face Fix only			
Glass Thickness,	Wind Zone	e Fence Post Height Spacing		Glass M* (kNm Overhang		Nm/m)	V*(kN)	Importance level 2 SLS Wind (kPa)		ULS Wind (kPa)
Туре	(up to)	(max)	(max)	(max)	Тор	Face		NZ1,2,3	Nz4	(кга)
12T,	High	1200	1000	500	1.1	1.3	1.8	1.2	1.3	1.6
13.52SG	Very High	1200	750	375	1.1	1.3	1.8	1.5	1.7	2.0
	High	1300	1000	500	1.3	1.5	2.0	1.2	1.3	1.6
15T	Very High	1300	750	375	1.3	1.5	2.0	1.5	1.7	2.0
	Extra High	1300	600	300	1.3	1.5	2.0	1.9	2.0	2.5



Glass Type						
Glass Thickness (mm)	Interlayer Thickness & Type	Minimum Panel Width (mm)	Maximum Panel Width (mm)			
12T	-	200	1900			
13.52SG	6/1.52/6	1700 with Stiffeners or 200 without Stiffeners	See manufacturers limits			
15T	-	200	1900			

- Matador Series II is always installed on or above Finished Floor Level

- The Project Engineer must ensure the structure can support the appropriate loads

- Design loads can be used for Project Engineer to verify non standard fixing method and support structures.

- Maximum 30mm deck/spacers (top fix and 60mm of JVB125 spacers (Face Fix)

- 1-Hole Base Plate (JET/MPM/BP1) to Triple Joist is only suitable for Pool Fence using the 12T, 13.52SG Pool Dimension

- For 13.52 SG Stiffener Brackets or Handrail must be used when above 1050mm BH or width is below 1700mm for barrier protecting a fall - not required for Pool Fence ONLY

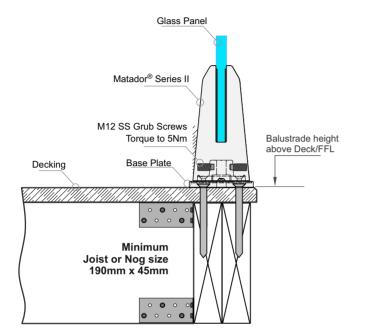
- Maximum 10mm tolerance allowed to Barrier Height

- Minimum Glass strength 100MPa, all edges polished

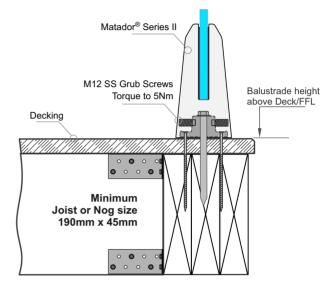
- See "Interlinking Rail Manual" for maximum interlinking spans

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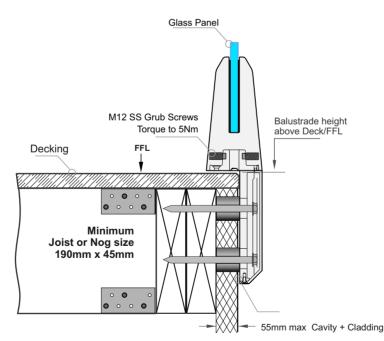
# Approved Timber Construction Options, fixing into Double Joists SS Coachscrews, Bolts or Threaded Rod Refer individual construction pages for further details



1 - Top Fix to Double Joist - 4 x M10 SS Coachscrew, 4 hole base plate



2 - Top Fix to Double Joist - 1 x M12 SS Coachscrew, 1 hole base plate



3 - Face Fix attach through Cavity Wall to Double Joists using JVB125 Spacers (60mm max)

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# Typical Fix to Timber - JET/MPM/T5, 105mm x 105mm, 4 hole Base Plate - M10 C/S SS Coachscrews

Extra High Wind Zones (up to and including) A, A Other and C3 only				
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)
	High	1200		
12T, 13.52SG	Very High	1100		
1010200	Extra High	1000	720	250
15T	High	1300	120	250
	Very High	1250		
	Extra High	1200		

### Wind Zones (up to and including) Pool Fence only

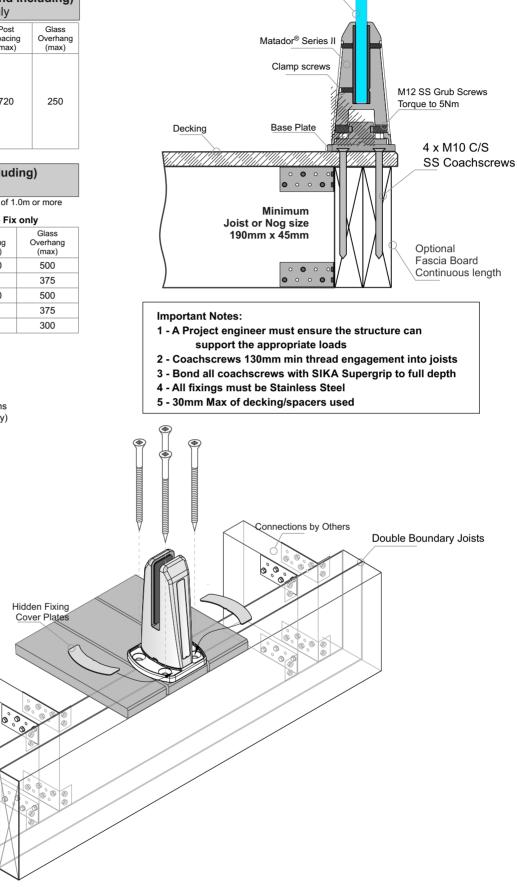
Applies to Pool Fences not protecting a fall of 1.0m or more

#### Pool Fence applies to Top and Face Fix only

Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG	High	1200	1000	500
	Very High	1200	750	375
15T	High	1300	1000	500
	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- Glass type T= Toughened, SG = SentryGlas
- 2 All measurements mm
- 3 Refer to Elevations for Min/Max Panel widths
- and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



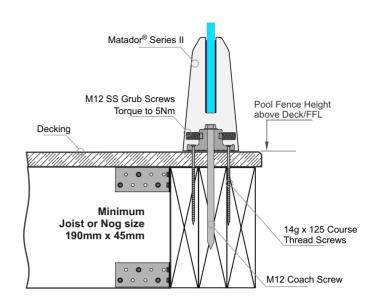
Glass Panel

# Typical Fix to Timber - JET/MPM/T1, 77mm x 40mm, 1 hole Base Plate - M12 SS Coachscrews

Wind Zones (up to and including) Pool Fence only				
Applies to Pool Fences not protecting a fall of 1.0m or more Pool Fence applies to Top and Face Fix only				
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG	Medium	1200	1000	500
	High	1200	750	375
	Very High	1200	600	300

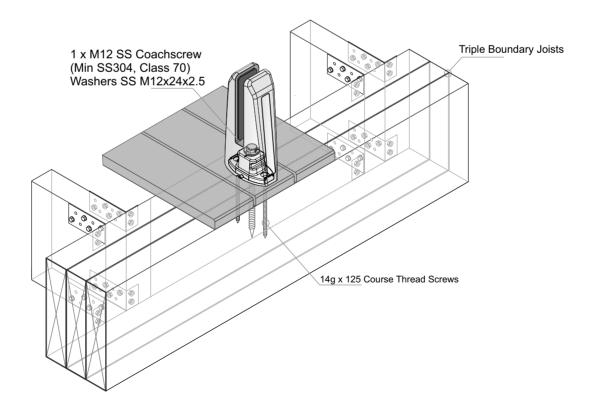
#### General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- SG = SentryGlas
- 2 All measurements mm
- 3 Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



#### Important Notes:

- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Coachscrews 130mm min thread engagement into joists
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 All fixings must be Stainless Steel
- 5- 30mm Max of decking/spacers used
- 6- Not Suitable as a Balustrade



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# Typical TOP Fix to Timber on Steel - JET/MPM/T1, 77mm x 40mm, 1hole Base Plate - M12 SS Bolts

Extra High Wind Zones (up to and including) A, A Other and C3 only				
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)
	High	1200		
12T, 13.52SG	Very High	1100		
13.3200	Extra High	1000	720	250
15T	High	1300	120	250
	Very High	1250		
	Extra High	1200		

# Wind Zones (up to and including) Pool Fence only

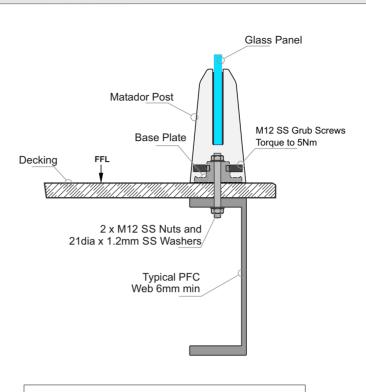
Applies to Pool Fences not protecting a fall of 1.0m or more

#### Pool Fence applies to Top and Face Fix only

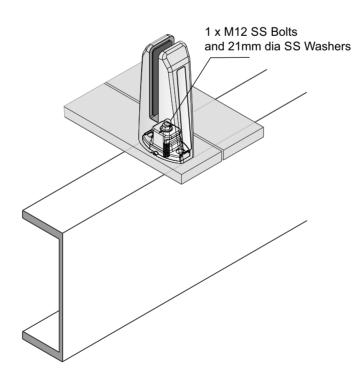
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG	High	1200	1000	500
	Very High	1200	750	375
15T	High	1300	1000	500
	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- SG = SentryGlas
- 2 All measurements mm
- Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



- Important 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 30mm Max of decking/spacers used



# Typical TOP Fix direct to Steel - JET/MPM/T1, 77mm x 40mm, 1 hole Base Plate - M10 SS Bolts

Extra High Wind Zones (up to and including) A, A Other and C3 only				
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)
	High	1200		
12T, 13.52SG	Very High	1100		
10.0200	Extra High	1000	720	250
15T	High	1300	120	250
	Very High	1250		
	Extra High	1200		

Wind Zones (up to and including)			
Pool Fence only			

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

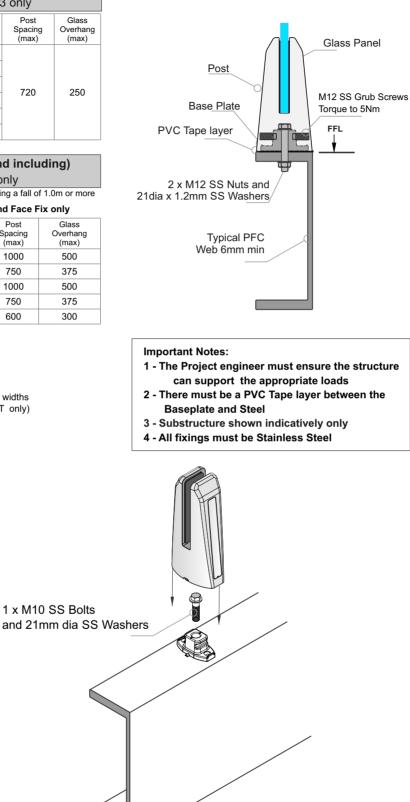
PO	Pool Fence applies to Top and Face Fix only				
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)	
12T, 13.52SG	High	1200	1000	500	
	Very High	1200	750	375	
	High	1300	1000	500	
15T	Very High	1300	750	375	
	Extra High	1300	600	300	

General Notes:

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

2 - All measurements mm

3 - Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



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### Typical Fix to Concrete - JET/MPM/T1, 77mm x 40mm, 1 hole Base Plate - M12 SS Studs

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

### Wind Zones (up to and including) Pool Fence only

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

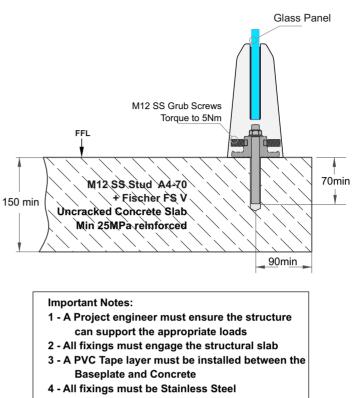
#### Pool Fence applies to Top and Face Fix only

Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG	Medium	1200	1000	500
	High	1200	750	375
	Very High	1200	600	300

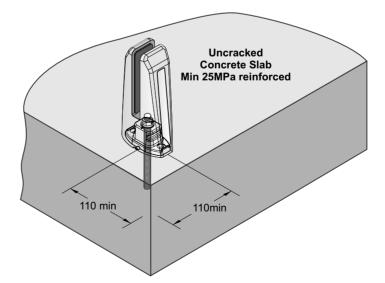
General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- SG = SentryGlas
- 2 All measurements mm
- 3 Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)

		Fischer EM Plus 390 S
	Thread diameter Drill hole diameter Drill hole depth Anchorage depth	M12 = 14 mm = 80 mm = 70 mm
	Drilling method Drill hole cleaning	Hammer drilling 4 times blowing, 4 times brushing, 4 times blowing
   \		ng required in case rill bit, e.g. fischer FHD.



5 - 30mm Max of decking/spacers used



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# Typical TOP Fix to Concrete - JET/MPM/T5 - 105mm x 105mm, 4 hole Base Plate - M10 C/S Concrete Screws

Glass Thickness,		ther and	p to and in C3 only	iciuaing)	
Type	Wind Zone (up to)	Balustrac Height (max)	Spacing	Glass Overhang (max)	
1390	High	1200	(max)	(max)	Matador Post
12T,	Very High	1100			
13.52SG					M12 SS Grub Screws
	Extra High	1000	720	250	Torque to 5Nm
	High	1300			FFL PVC Tape Layer Base Plate
15T	Very High	1250			
	Extra High	1200			
W	ind Zones	(up to a	nd includi	ng)	0 C/S FBS 4 Fischer screws
	Poo	ol Fence	only		Uncracked Concrete Slab Min 25MPa reinforced
Applie	s to Pool Fence	es not protec	ting a fall of 1.0	)m or more	
Pool Fer	nce applies to	Top and F	ace Fix only		
Glass	Wind Zone	Fence	Post	Glass	
Thickness,	(up to)	Height	Spacing	Overhang	
Туре		(max)	(max)	(max)	
12T, 13.52SG	High	1200	1000	500	
13.3236	Very High	1200	750	375	
	High	1300	1000	500	
15T	Very High	1300	750	375	Important Notes:
	Extra High	1300	600	300	1 - The Project engineer must ensure the structure can support the appropriate loads
SG = Sent - All measur - Refer to E and the u	e T= Toughene	/in/Max Pa linking Rail			<ul> <li>2 - All fixings must engage the structural slab</li> <li>3 - A PVC Tape layer must be installed between the Baseplate and Concrete</li> <li>4 - Substructure shown indicatively only</li> <li>5 - All fixings must be Stainless Steel</li> <li>6- 30mm Max decking/spacers used</li> </ul>
		111			
Thread d	e diameter e depth		<u>Screws</u>		
Thread d Drill hole Drill hole Anchorag Drilling n Drill hole No bore	er FBS II 8 : diameter diameter depth ge depth nethod	x 80 C/S = M10 = 8 mm = 90 mm = 52 mm Hammer Blow out g required	s Screws drilling by hand d in case		Hidden Fixing Cover Plates
Thread d Drill hole Drill hole Anchorag Drilling n Drill hole No bore	er FBS II 8 : diameter e diameter e depth ge depth nethod e cleaning ehole cleanin	x 80 C/S = M10 = 8 mm = 90 mm = 52 mm Hammer Blow out g required	s Screws drilling by hand d in case		Hidden Fixing

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# Juralco Edgetec<sup>®</sup> Mini Post Balustrade System - Typical Fixing <u>Complies with NZS3604:2011</u> - Double Boundary Joists

### Typical FACE Fix Post to Timber - JET/MPM/F2 - M10 SS Coachscrews

Extra High Wind Zones (up to and including) A, A Other and C3 only					
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)	
	High	1200			
12T, 13.52SG	Very High	1100		050	
	Extra High	1000	720		
	High	1300	120	250	
15T	Very High	1250			
	Extra High	1200			

### Wind Zones (up to and including) Pool Fence only

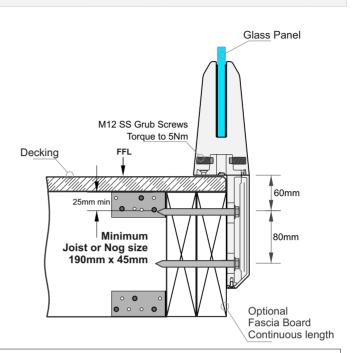
Applies to Pool Fences not protecting a fall of 1.0m or more

#### Pool Fence applies to Top and Face Fix only

Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

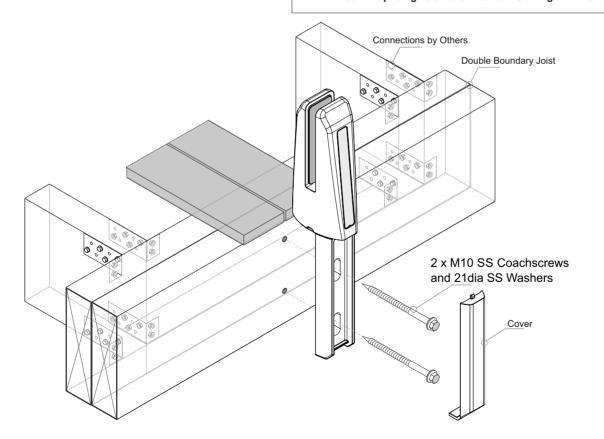
General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- Glass type T= Toughened, SG = SentryGlas
- 2 All measurements mm
- Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



#### 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
- 7 Max 60mm spacing back to structure including JVB125 Spacers



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### Typical FACE Fix Post to Timber - JET/MPM/F2 - M10 SS Bolts or M10 SS Threaded Rod

Extra High Wind Zones (up to and including) A, A Other and C3 only					
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)	
	High	1200			
12T, 13.52SG	Very High	1100			
	Extra High	1000	720	250	
	High	1300	120	250	
15T	Very High	1250			
	Extra High	1200			

## Wind Zones (up to and including) Pool Fence only

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

#### Pool Fence applies to Top and Face Fix only

	the second			,
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

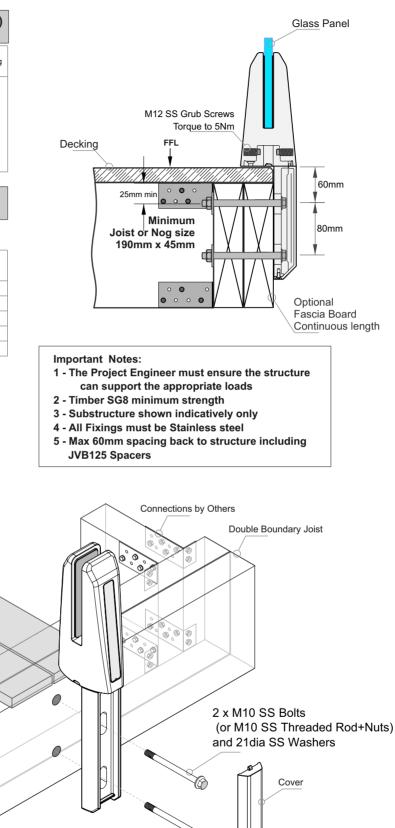
50mm sq x 3mm SS washer and M12SS Nut

General Notes:

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

2 - All measurements mm

 Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



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### Typical FACE Fix Post Through a Cavity - JET/MPM/F2 - M10 SS Coachscrews and Spacers

Extra High Wind Zones (up to and including) A, A Other and C3 only					
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)	
	High	1200			
12T, 13.52SG	Very High	1100	720	250	
	Extra High	1000			
	High	1300	720	250	
15T	Very High	1250			
	Extra High	1200			

### Wind Zones (up to and including) Pool Fence only

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

#### Pool Fence applies to Top and Face Fix only

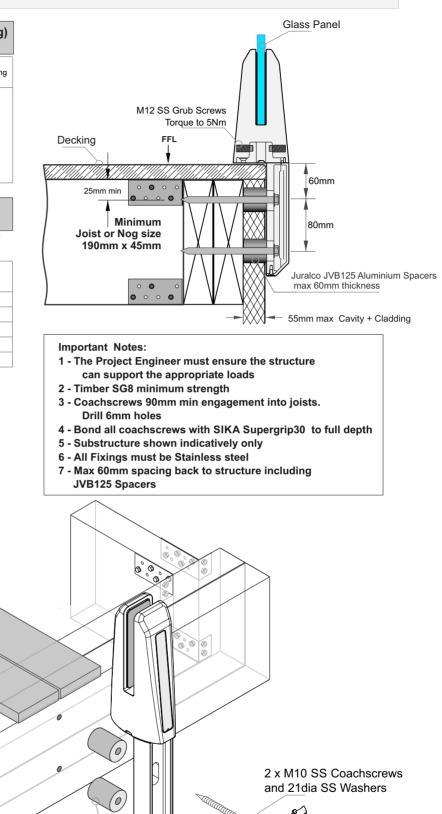
Glass Thickness, TypeWind Zone (up to)Fence Height (max)Post Spacing (max)Glass Overhang (max)12T, 13.52SGHigh12001000500Very High1200750375High1300100050015TVery High1300750375					,
13.52SG         Very High         1200         750         375           High         1300         1000         500	Thickness,		Height	Spacing	Overhang
High 1300 1000 500	12T,	High	1200	1000	500
	13.52SG	Very High	1200	750	375
15T Very High 1300 750 375		High	1300	1000	500
	15T	Very High	1300	750	375
Extra High 1300 600 300		Extra High	1300	600	300

General Notes:

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

2 - All measurements mm

 Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



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Cover

Juralco JVB125 Aluminium Spacers max 60mm thickness

### Typical FACE Fix to Steel, Wooden Packers - JET/MPM/F2 - M10 SS Bolts

Extra High Wind Zones (up to and including) A, A Other and C3 only					
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)	
	High	1200			
12T, 13.52SG	Very High	1100			
	Extra High	1000	720	250	
	High	1300	120	250	
15T	Very High	1250			
	Extra High	1200			

# Wind Zones (up to and including) Pool Fence only

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

#### Pool Fence applies to Top and Face Fix only

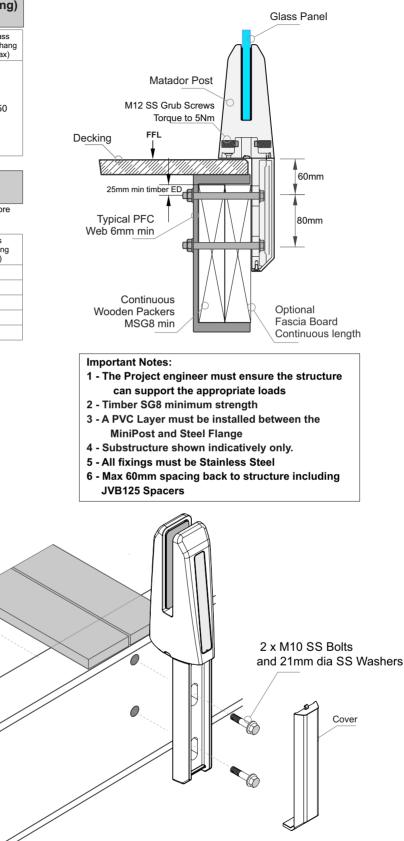
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

2 x M10 SS Nuts and 21dia SS Washers

6

General Notes:

- 1 Glass thickness, mm
- Glass type T= Toughened, SG = SentryGlas
- 2 All measurements mm
- Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



### Typical FACE Fix to Steel - JET/MPM/F2 - M10 SS Bolts

Extra High Wind Zones (up to and including) A, A Other and C3 only				
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG 15T	High	1200		
	Very High	1100		
	Extra High	1000	720	250
	High	1300	120	200
	Very High	1250		
	Extra High	1200		

# Wind Zones (up to and including) Pool Fence only

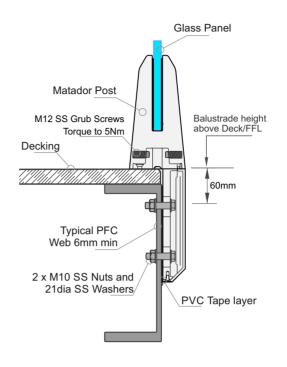
Applies to Pool Fences not protecting a fall of 1.0m or more

#### Pool Fence applies to Top and Face Fix only

Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG	High	1200	1000	500
	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

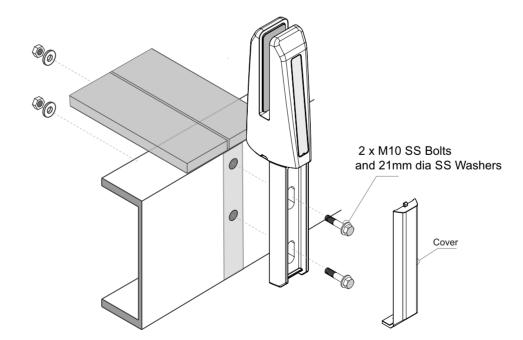
General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- SG = SentryGlas
- 2 All measurements mm
- Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



#### 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
- 5 Max 60mm spacing back to structure including JVB125 Spacers



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### Typical FACE Fix to Concrete - JET/MPM/F2 - M10 SS Studs

Extra High Wind Zones (up to and including) A, A Other and C3 only				
Glass Thickness, Type	Wind Zone (up to)	Balustrade Height (max)	Post Spacing (max)	Glass Overhang (max)
12T, 13.52SG 15T	High	1200		
	Very High	1100		
	Extra High	1000	720	050
	High	1300	720	250
	Very High	1250		
	Extra High	1200		

### Wind Zones (up to and including) Pool Fence only

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

#### Pool Fence applies to Top and Face Fix only

Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mm Glass type T= Toughened,
- SG = SentryGlas 2 - All measurements mm
- 3 Refer to Elevations for Min/Max Panel widths and the use of Top Interlinking Rails (T only) or Stiffener Brackets (SG only)



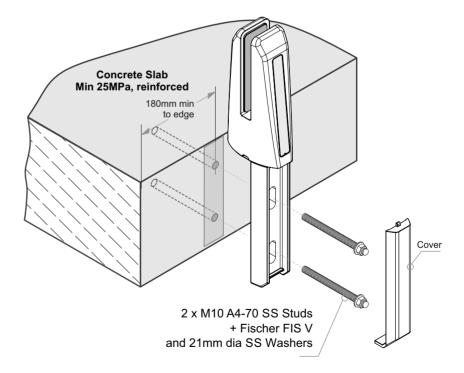
#### Installation details Fischer FIS V 300T

Thread diameter Drill hole diameter Drill hole depth	M10 = 12 mm = 130 mm	
•		
Anchorage depth	= 120 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.		

M12 SS Grub Screws Balustrade height Torque to 5Nm above Deck/FFL 120 min . 60mm M10 SS Studs A4-70 200mm + Fischer FIS V 80mm Uncracked Concrete Slab min Min 25MPa reinforced PVC Tape layer

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
- **MiniPost and Concrete**
- 4 Substructure shown indicatively only
- 5 All fixings must be Stainless Steel
- 6 Max 60mm spacing back to structure including **JVB125 Spacers**

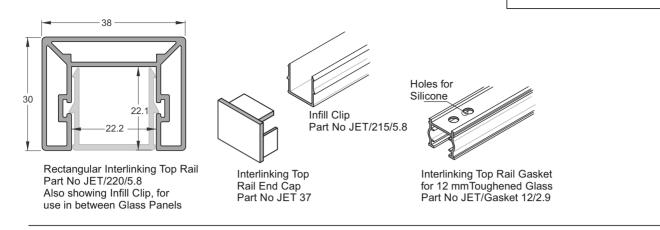


## Juralco 38mm Rectangular Interlinking Top Rail

Suitable for 12-15mm Glass

V60 Silicone Joining Top Rail.

Wedge and Glass

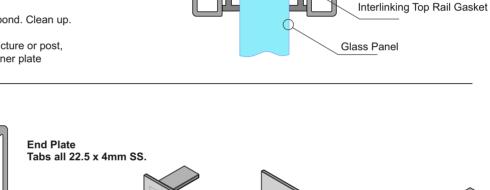


### 1 - 12mm Glass and Gasket

#### 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

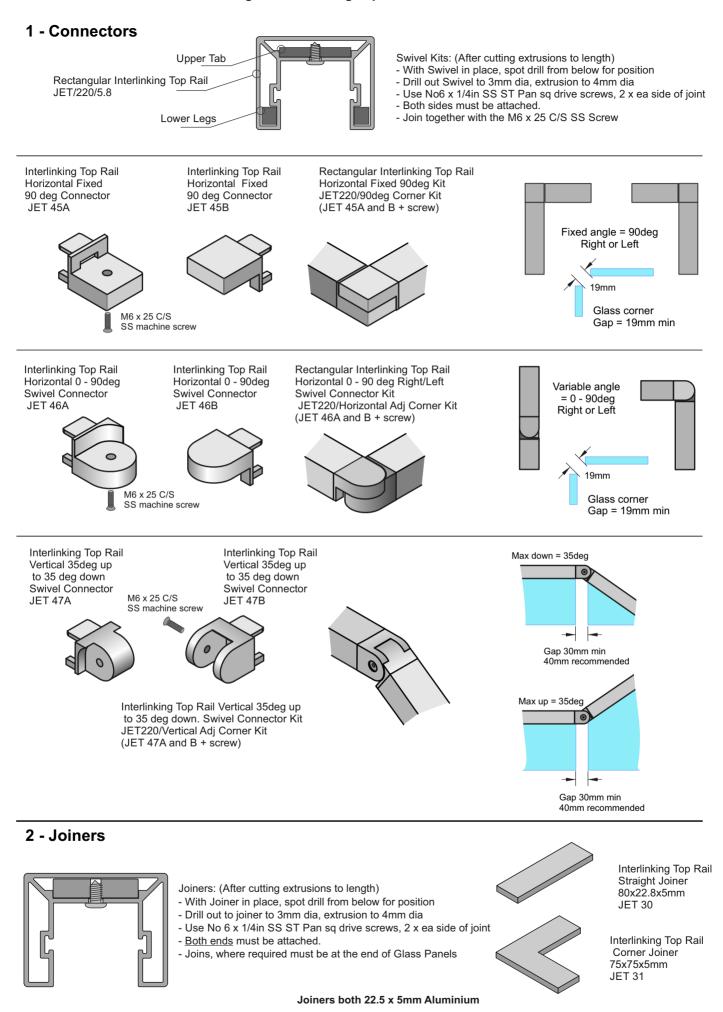


End Plates: (After cutting extrusions to length)

- 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 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

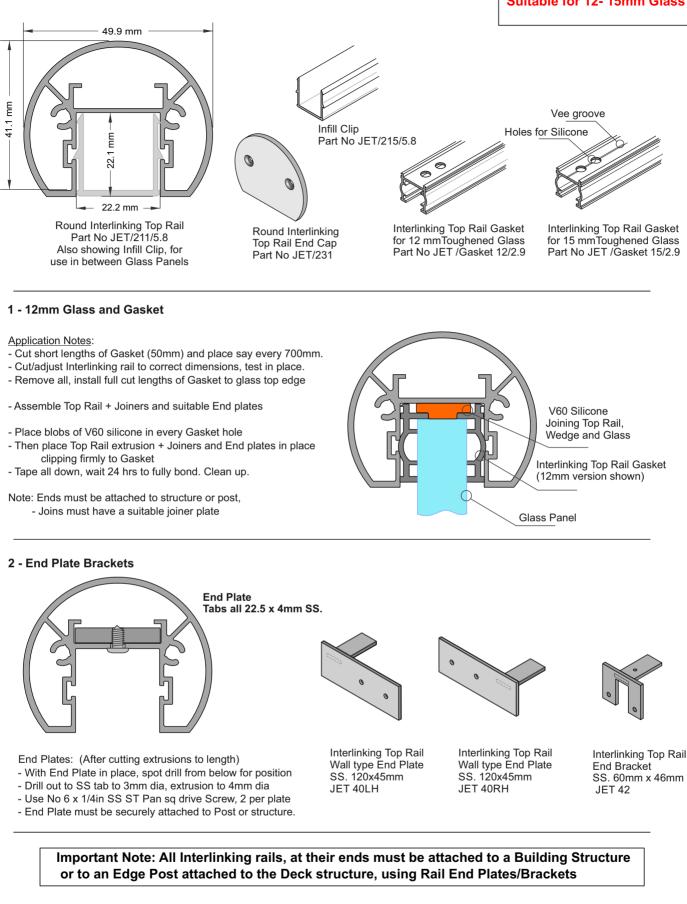


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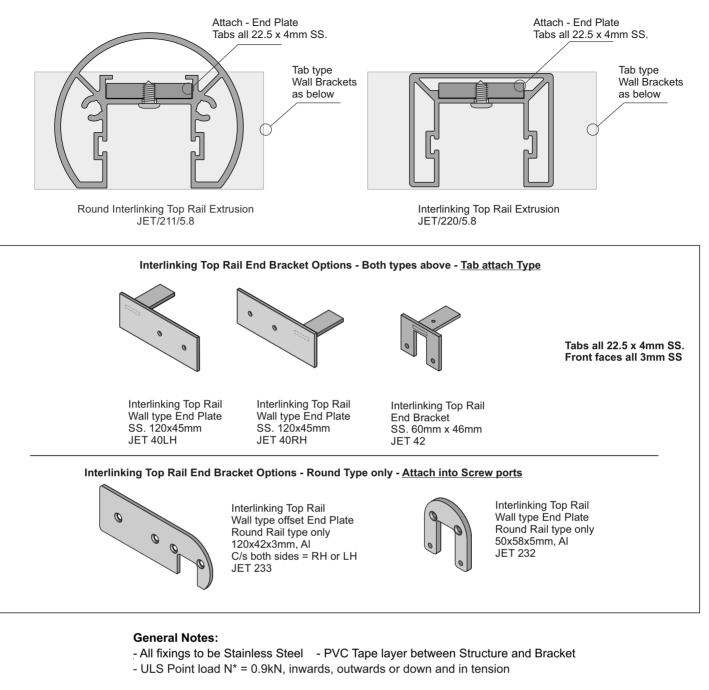
### Juralco 50mm Round Interlinking Top Rail

Suitable for 12- 15mm Glass



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

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



### 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 NZS 1720.1:2002 Tiimber Structures Part 1 - Design methods or NZS3604

Note : Fixing to Juralco EDGE Post

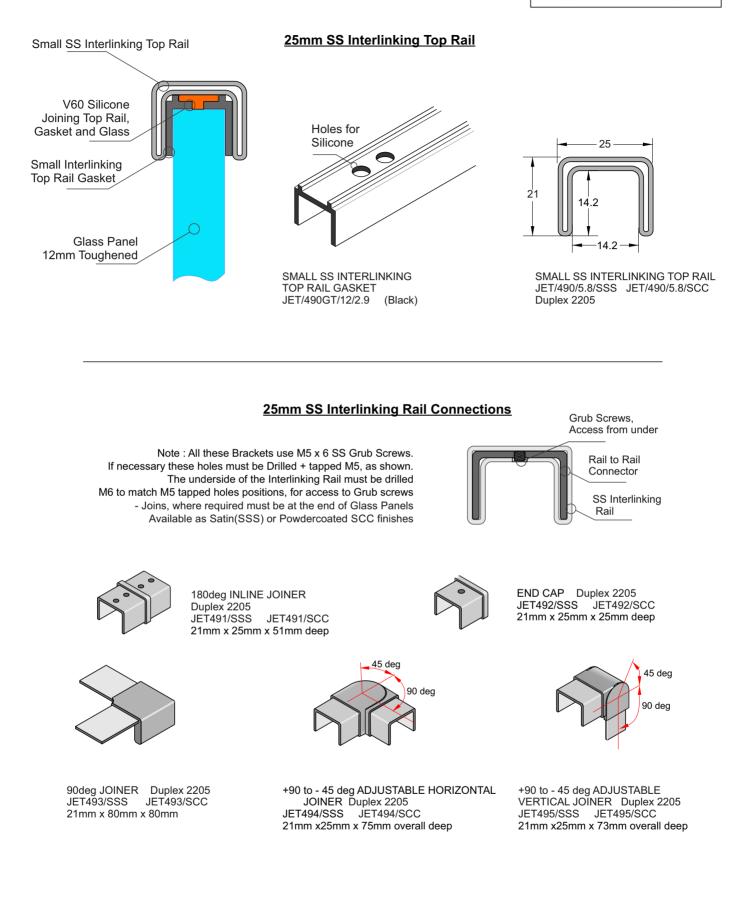
- use 2 off 8g x 25 SS PK Screws

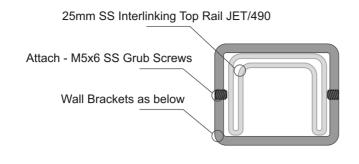
### Note : Fixing to Concrete Wall

- 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 NZ4230 or NZ4229

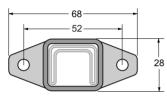
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

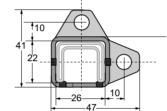
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# Brackets for Fixing to Wall or End Post for 25mm SS Interlinking Rail





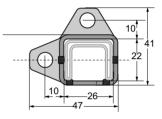
Note : All these Brackets use M5x6mm SS Grub Screws



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 NZS 1720.1:2002 Timber Structures Part 1 - Design methods or NZS3604

### Note : Fixing to Juralco EDGE Post

- use 2 off 8g x 25 SS PK Screws

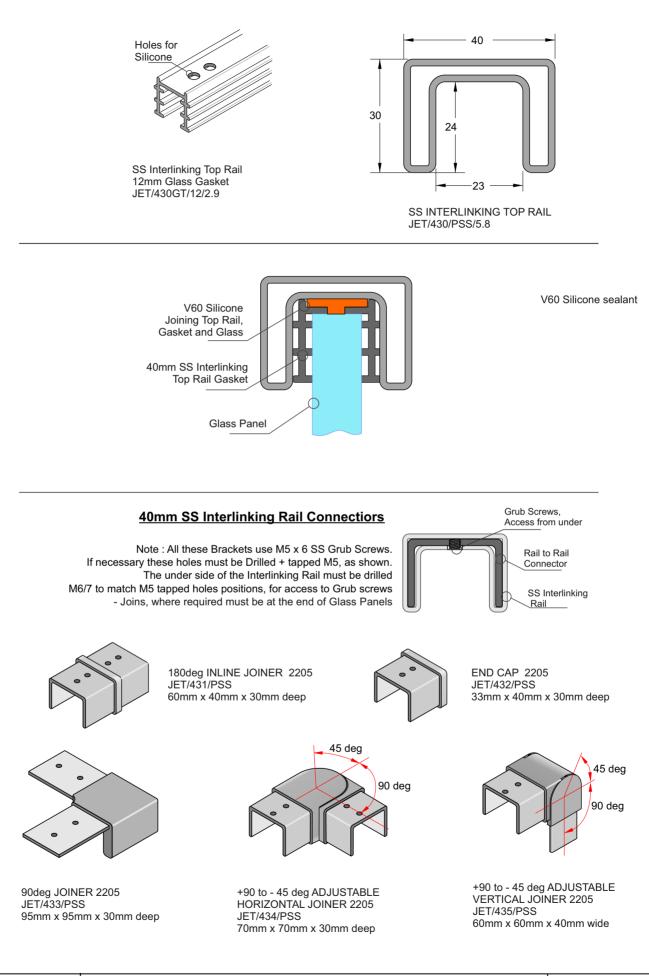
#### Note : Fixing to Concrete Wall

- 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 NZ4230 or NZ4229

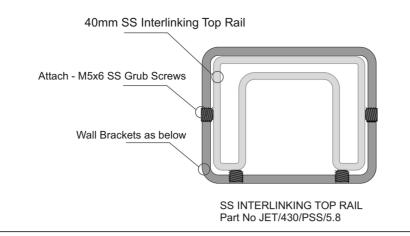
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

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Suitable for 12 - 15mm Glass

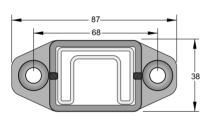


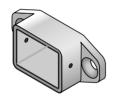
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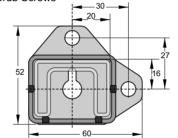
# Brackets for Fixing to Wall or End Post for 40mm SS Interlinking Rail

Note : All these Brackets use M5 x 8mm SS Grub Screws



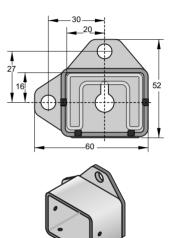


WALL BRACKET 2 FIX 2205 Part No JET/436/PSS 87mm x 37mm x 25mm deep





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 NZ3603 or NZ3604

### Note : Fixing to Juralco EDGE Post

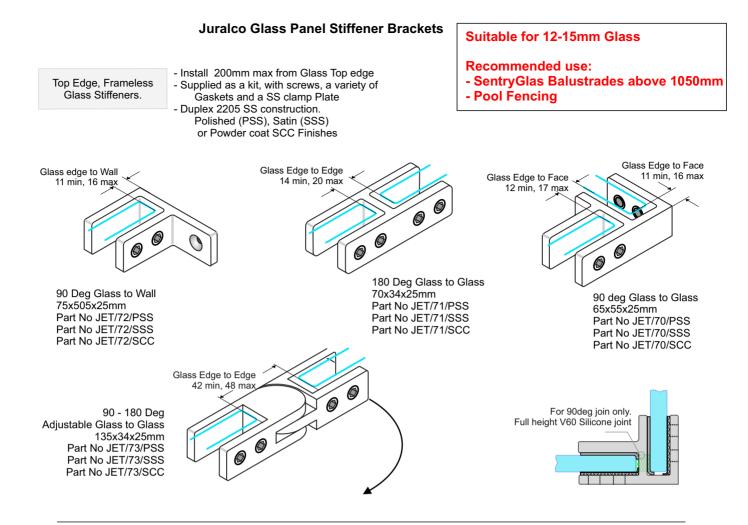
- use 2 off 8g x 25 SS PK Screws

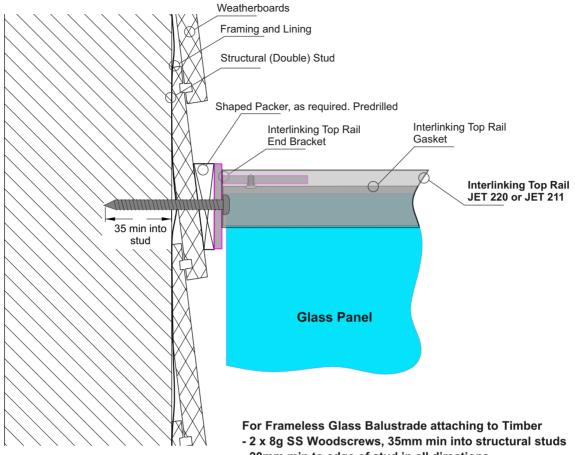
### Note : Fixing to Concrete Wall

- 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

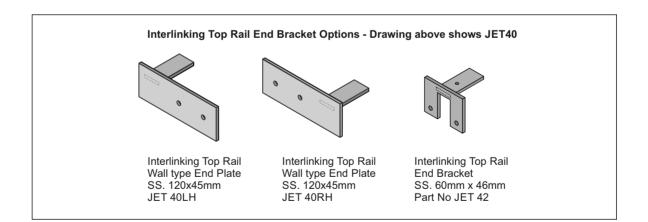
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets

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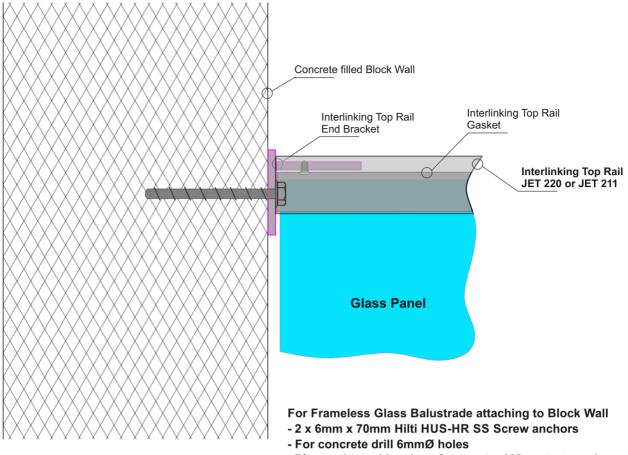




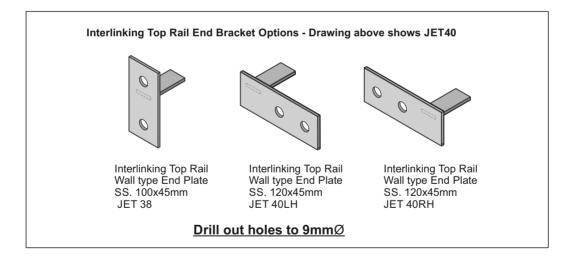


- Notes:
- All fixings to be stainless steel
- Timber stud wall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load N\* = 0.9kN, inwards, outwards or down.
- Minimum Stud size = 90mm x 45mm
- Minimum Timber grade = SgG8
- Timber stud wall to be designed and detailed in accordance with NZS 1720.1:2002 Timber Structures Part 1 - Design methods
- or NZS3604

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

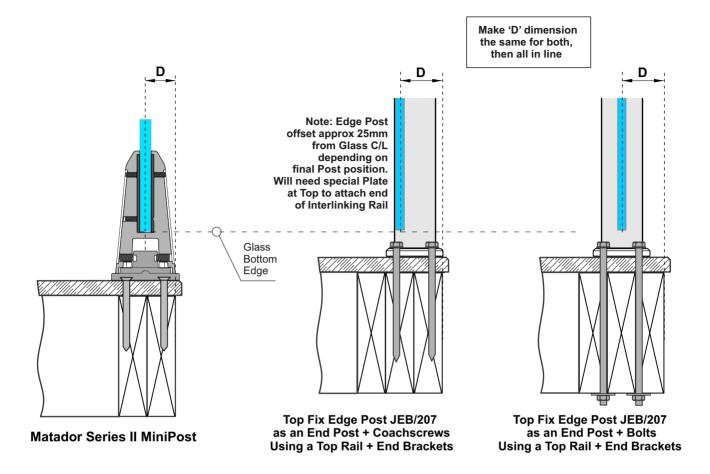


Notes:

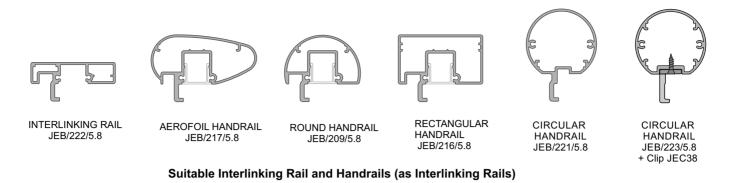
- All fixings to be stainless steel
- Blockwall to be designed by Project structural engineer
- for loads imposed by Balustrade.
- ULS Point load  $N^* = 0.9$ kN, inwards, outwards or down.
- Minimum blockwork thickness = 140mm
- Minimum core fill concrete strength = 17.5MPa
- Blockwork wall must be corefilled /reinforced and is to be designed and detailed in accordance with NZ4230 or NZ4229

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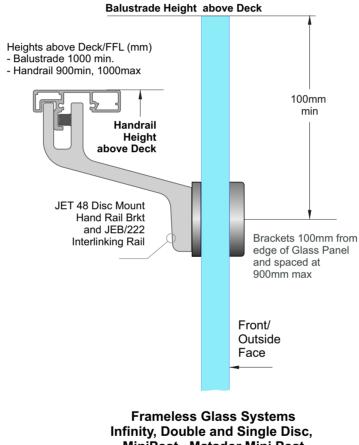
Applies to InterlinkingTop Rails suitable for 12mm Toughened Glass



# **Juralco Interlinking Rails**



# Interlinking or Handrails on Deck side.

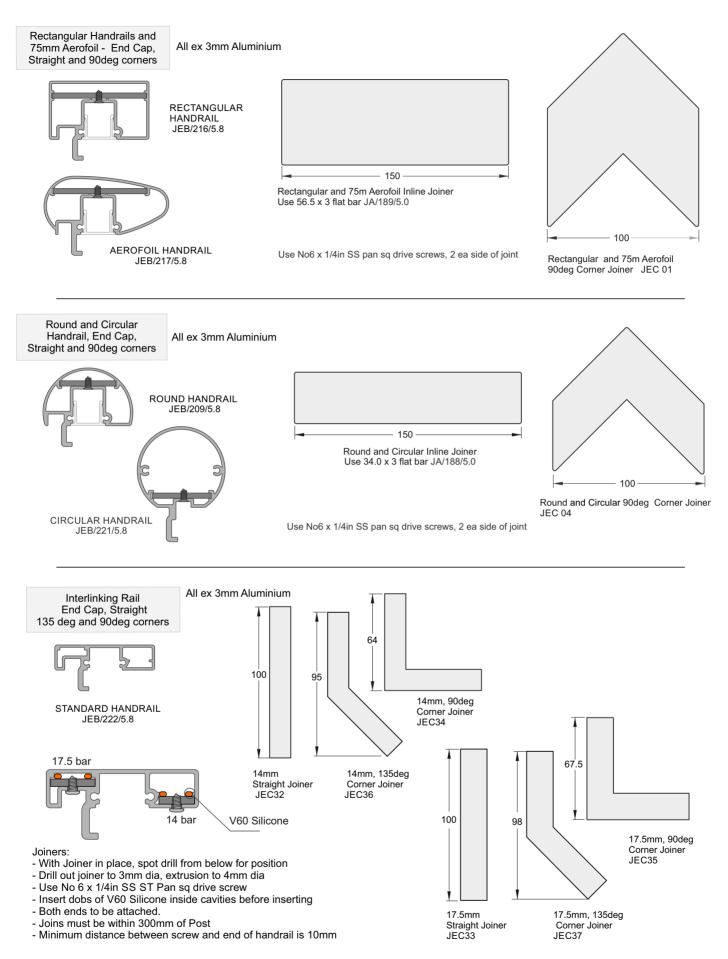


MiniPost, Matador Mini Post and JH Clamp

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

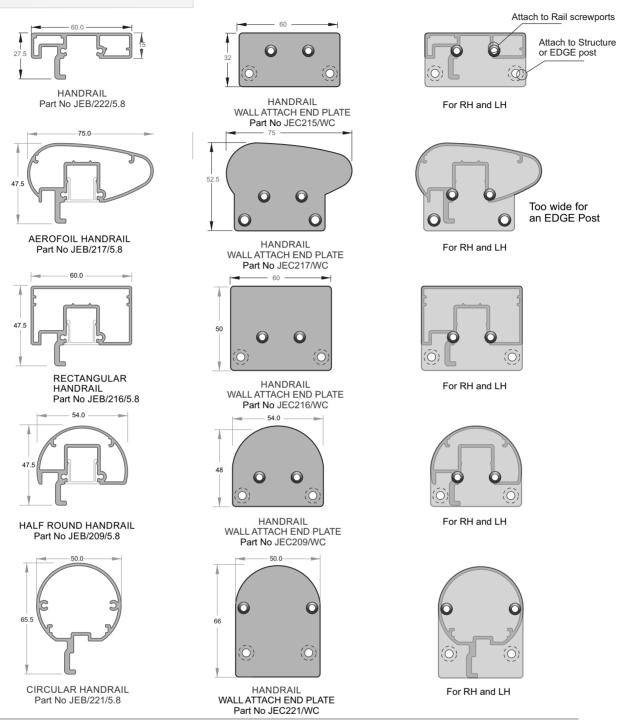
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### **Juralco Handrail Components - Joiners**



End Caps for Handrails, Wall or Edge Post attach for JEB 222, 217, 209, 216 and 221 Handrails

End Caps all ex 3mm Aluminium



**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
- 30mm min distance to Horizontal Edge
- If Weatherboard use suitable predrilled Wedge
- Timber stud wall to be designed and detailed in accordance with NZ3603 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 Matador<sup>®</sup> Series II 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 onto 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 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 Matador<sup>®</sup> Series II 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





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### Juralco Edgetec Matador<sup>®</sup> Series II 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.

### **Stainless Steel Cleaning After Installation**

During the installation process finger marks, particle transfers from tools and other building site contaminants may end up being left on the surface of the fittings. These contaminants will allow corrosive elements to stick to the outside of the product increasing the opportunity for brownish spots otherwise known as "tea staining" to occur on the surface.

We recommend after installation to wipe clean the Stainless Steel fittings with either warm soapy water or <u>as small amount of</u> <u>WD40 Multi Use Product</u> applied first to a rag. Take care when cleaning brushed stainless steel to always wipe in the direction of the grain and always remove any cleaning product residue from the glass before finishing up.

### 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 Duplex 2205 Grade		
Surbarban or Rural	Clean at 6-12mth intervals or as necessary		
Industrial or Urban	Clean at 3-6mth intervals Clean at 6-12mth interv		
Coastal or Marine	Not recommended		

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