

#JURALCO

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

Juralco Edgetec Matador® Series II Balustrade System

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® 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® Series II 2205 Duplex Stainless Steel. Showing Front Side with Screw Cover



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Juralco Edgetec Matador® Series II Balustrade System

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

The Edgetec Matador® 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
А	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 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 to be completed in accordance with the requirements of our authorised installer certification.
- 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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masterspec partner Section 4855JG

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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® 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® 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[®] Matador[®] 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® 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 $^{\circledR}$ 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 Series II Mini Post Balustrade System must conform to the specifications as listed in the Juralco Edgetec Matador® 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[®] Series II Mini Post Balustrade System must only be installed in accordance with the Juralco Edgetec Matador[®] Series II Mini Post Balustrade System manual
- Any deviation from that specified in the Juralco Edgetec Matador® Series II Mini Post Balustrade System manual must only be in accordance with the site specific PS1 with site specific calculations and drawings listing the non standard details

 - The Juralco Edgetec Matador 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.

<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.

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.

Juralco Edgetec Matador® Series II Balustrade System - Typical Layouts

Matador® Series II Mini Post + Interlinking Rail

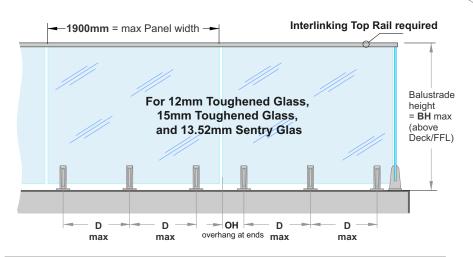
Glass must have a minimum strength of 100MPa. All edges polished

Occupancy types A, A Other, C3, B & E

- 12mm Toughened Glass
- 13.52mm Sentry Glass
- 15mm Toughened Glass

Refer page "Allowable Heights" for differing wind zones.

See individual typical fixing page for construction options.



Exceeds the wind loading for all Wind Zones up to and Including Extra High Wind Zone as set out in NZS 3604:2011

Refer to the Interlinking Rail pages for conformance to NZS 4223.3.2016.

Matador® Series II Mini Post + Stiffener Brackets

Glass must have a minimum strength of 100MPa. All edges polished

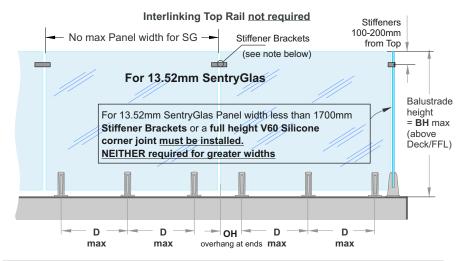
Occupancy types A, A Other, C3, B & E

13.52mm SentryGlas

Max height without stiffener brackets 1050mm

Refer page "Allowable Heights" for differing wind zones.

See individual typical fixing page for construction options.



Exceeds the wind loading for all Wind Zones up to and Including Extra High Wind Zone as set out in NZS 3604:2011

Refer to the Stiffener Bracket pages for conformance to NZS 4223.3.2016.

Matador® Series II Mini Post **Pool Fencing only**

Glass must have a minimum strength of 100MPa. All edges polished

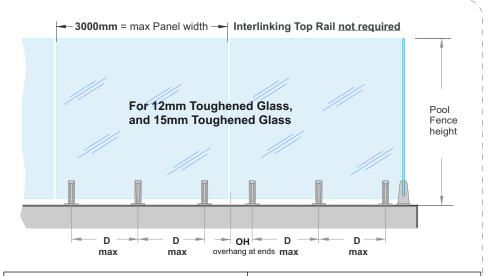
POOL FENCING ONLY

Applies to Swimming Pools as of Jan 2017, complies with the Building Code clause F9 and section 162C of the Building Act.

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

Refer page "Allowable Heights" for differing wind zones.

See individual typical fixing page for construction options.



12mm Toughened - Up to and including Very High Wind Zone. 15mm Toughened - Up to and including Extra High Wind Zone.

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Juralco Edgetec Matador® Series II Balustrade System - Typical Layouts

Matador® Series II Mini Post + Stiffener Brackets, Face Fix

Glass must have a minimum strength of 100MPa. All edges polished

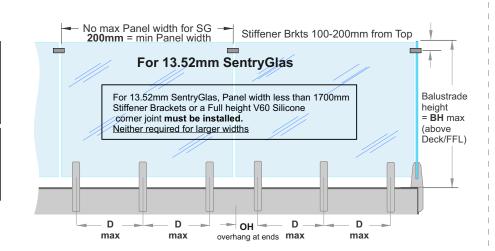
Occupancy types A, A Other, C3, B & E

13.52mm SentryGlas

Max height without stiffener brackets 1050mm

Refer page "Allowable Heights" for differing wind zones.

See individual typical fixing page for construction options.



Matador® Series II Mini Post + Interlinking Rail, Face Fix

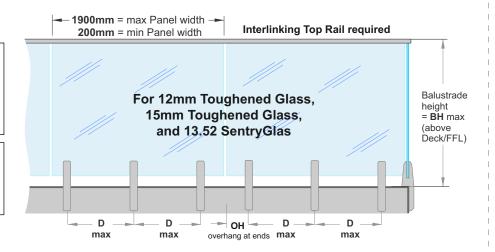
Glass must have a minimum strength of 100MPa. All edges polished

Occupancy types A, A Other, C3, B & E

- 12mm Toughened Glass
- 13.52mm Sentry Glass
- 15mm Toughened Glass

Refer page "Allowable Heights" for differing wind zones.

See individual typical fixing page for construction options.



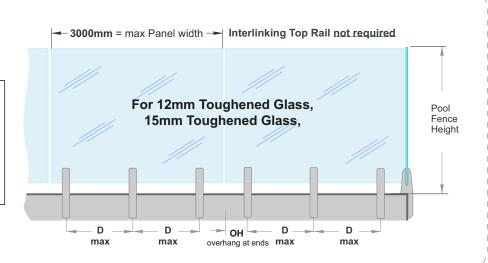
Matador® Series II Mini Post Pool Fencing only - Face Fix

Glass must have a minimum strength of 100MPa. All edges polished

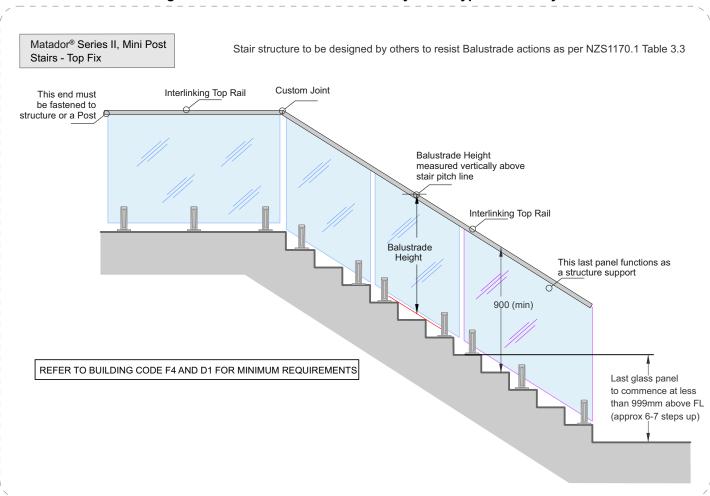
POOL FENCING ONLY

Applies to Swimming Pools as of Jan 2017, complies with the Building Code clause F9 and section 162C of the Building Act.

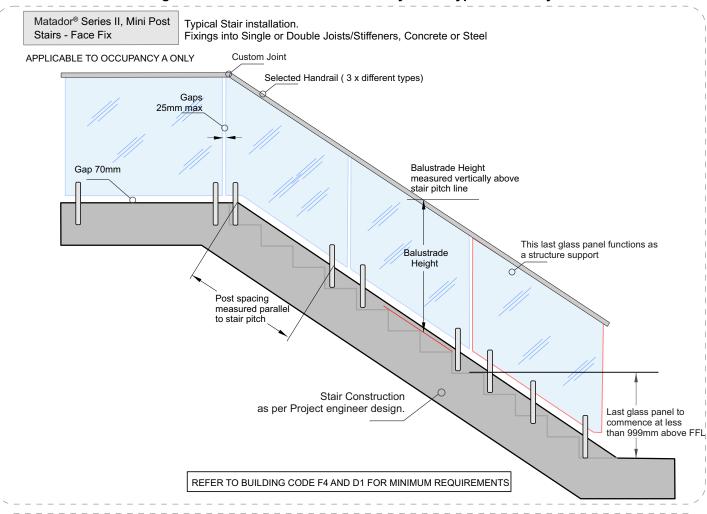
Applies to Pool Fences not protecting a fall of 1.0m or more

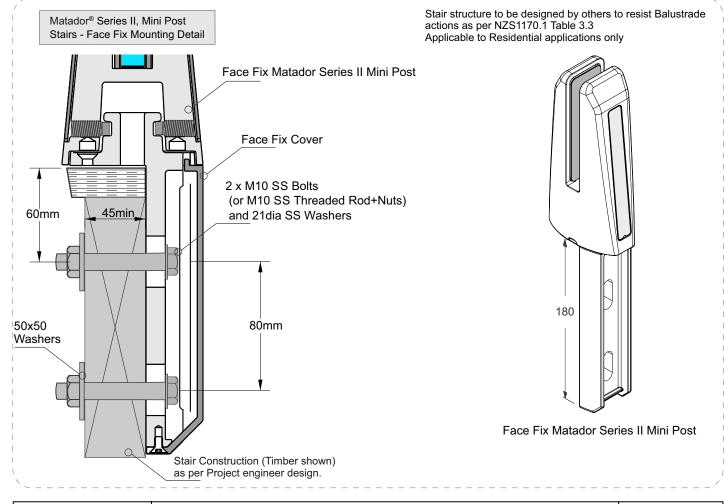


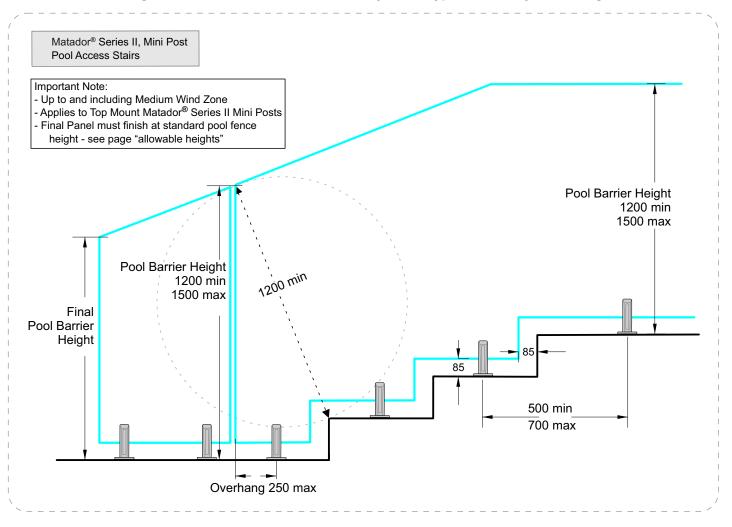
Juralco Edgetec Matador® Series II Balustrade System - Typical Stair Layout

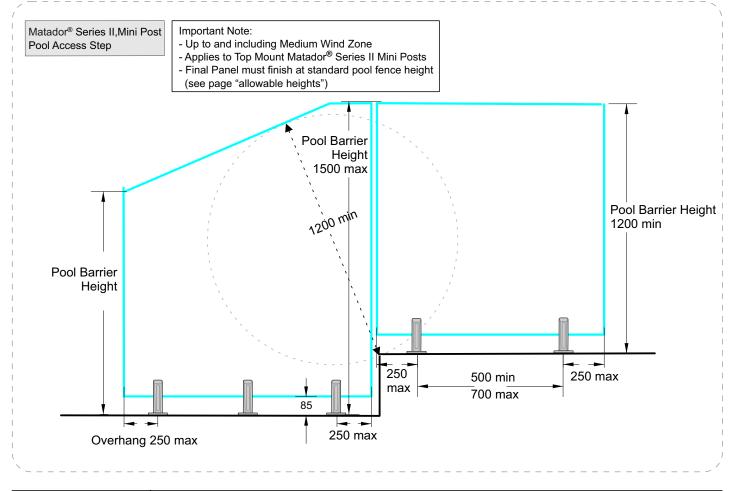


Juralco Edgetec Matador® Series II Balustrade System - Typical Stair Layout

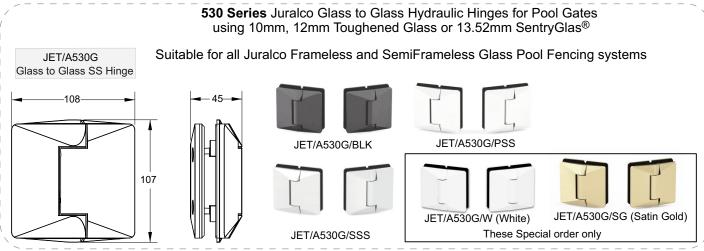


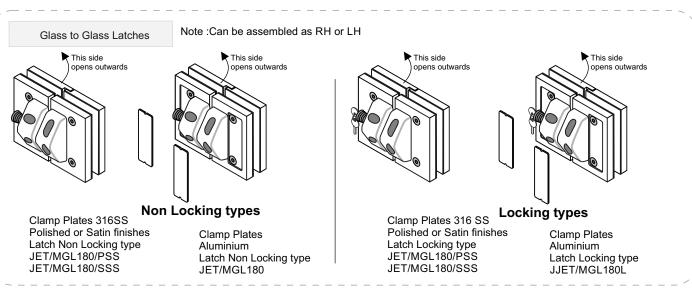


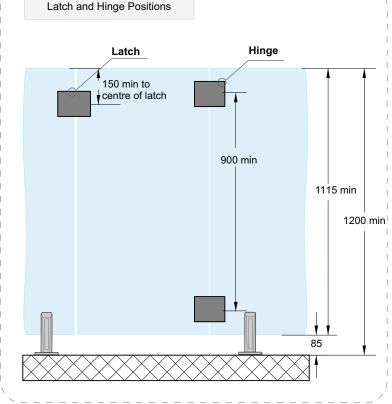




Juralco Edgetec® Glass Pool Gate - Atlantic and Malibu Systems







Specifications..

Glass Thickness 10 -12mm Toughened Glass, 13.52 SentryGlas® Hinge and Latch packers, 1.0mm each side Gate Width max = 950mm

Gate Height max =1500mm

(note this reduces to H 2100mm for 13.52 SentryGlas®)

Gate Weight max = 70 kg (2 x Hinges min) Hinge - Auto close. Adjustable Closing Speed and angle. Non Hold open Latch, Side pull magnetic. Gap = 8mm min -12mm max

Gate to open outwards; Latch to be mounted on inside. Installation to conform to NZS8500:2006

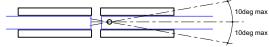
Complies with NZBC Clause F9

Closing Speed Adjust

- Remove the covers
- Slotted screwdriver, turn Screw C
- Clockwise = slower
- Synchronise both hinges for equal speed.

Angle Adjust

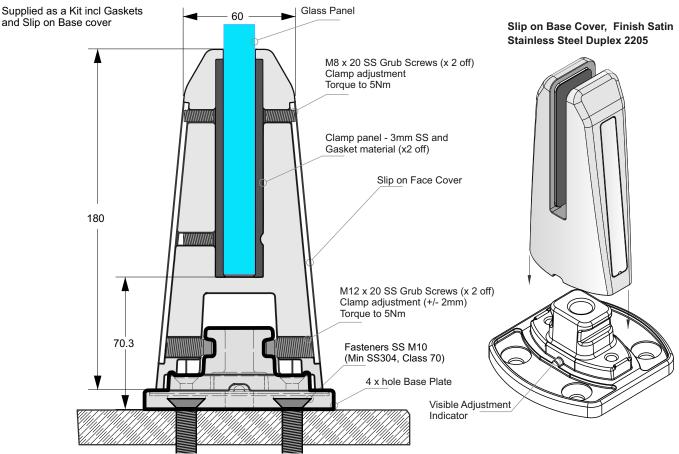
- Remove the covers
- Using a M3 allen key, loosen the two D screws 360deg.
- Adjust the angle (+,- 10 deg max)
- -Tighten both firmly at correct angle JET/A530G/W (White)



See Glass Pool Gate Manual for more details and other options

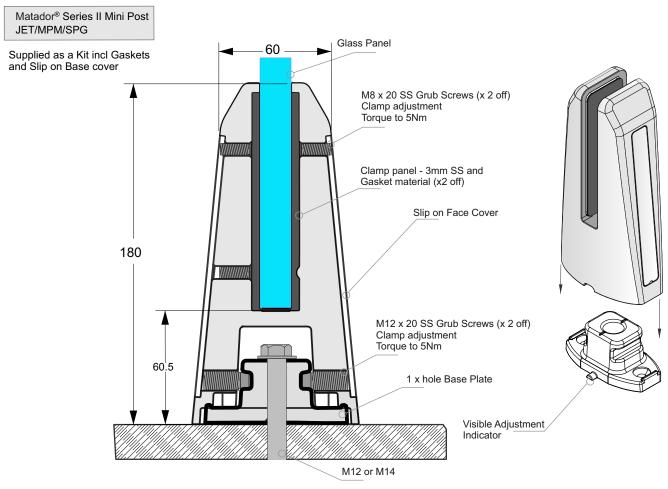
Juralco Edgetec Matador® Series II Balustrade System - Top Fix to Base plate

Matador® Series II Mini Post JET/MPM/SPG



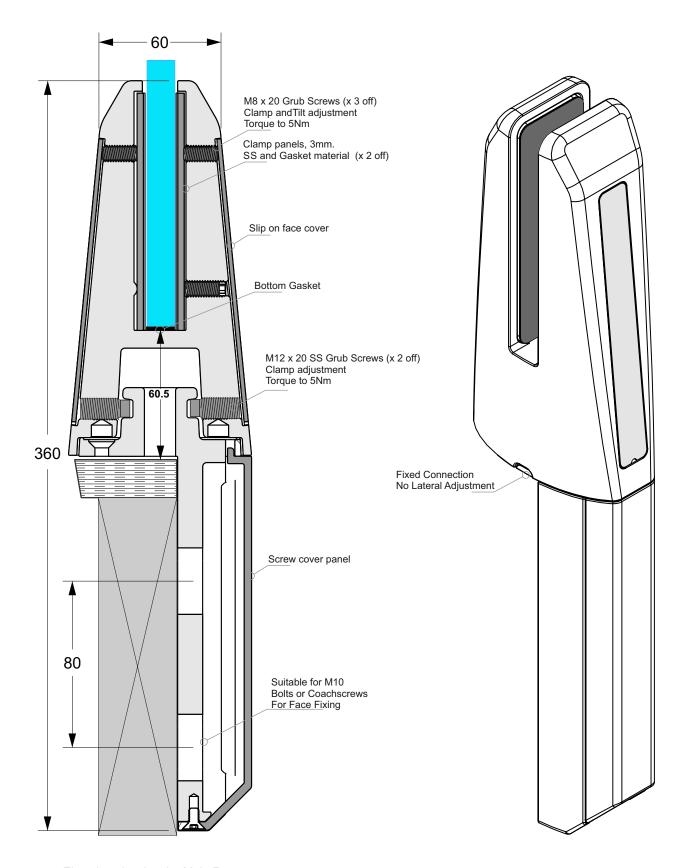
- 1 Clamp panels, 3mm SS and Gasket material. Held in place with JMF/X03 Double sided tape
- 2 Glass Clamping Tighten bottom grubscrews first, then two top screws. Do not over tighten, max torque 5Nm (Lateral Spigot Adjustment +/- 2mm)
- 3 Matador Cover Panels. Held in place with JMF/X02 Double sided 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



- 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

- 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

Juralco Edgetec Matador® Series II Balustrade System - Components

Top Fix Mini Post JET/MPM/SPG

Finishes SSS, PSS



Face Fix Base with cover JET/MPM/FP2

Finishes SSS, PSS



Post Screw Cover JET/MPM/SPG/COVER

Finishes SSS, PSS, SCC



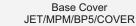
Hidden Base Plate JET/MPM/BP1



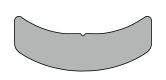
Top Fix



Finishes SSS, PSS



Finishes SSS, PSS, SCC



M12 x 20 Dog Point Grub Screw



Base Cover

Top Fix

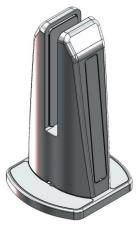
Mini Post with Face Fix Base JET/MPM/F2

Finishes SSS, PSS, SCC



Mini Post with 4 - Hole Top Fix Base Plate JET/MPM/T5

Finishes SSS, PSS, SCC



KIT SET

Mini Post with Hidden Top Fix Base Plate JET/MPM/T1

Finishes SSS, PSS, SCC



KIT SET

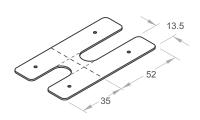


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Juralco Edgetec Matador® Series II Balustrade System Components

Plastic Packer - Glass

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



Foam Tape 38mm x 4.8mm

JVB/FTAPE38

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

Foam Tape 100mm x 4.8mm JVB/FTAPE100

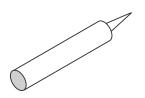
Base Plate Separator for Concrete, Steel and Timber



Single sided 100mm wide x 15.2mt Roll

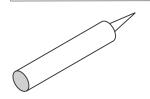
Single sided 38mm wide x 15.2mt Roll

SIKA Supergrip JECSUPERGRIP30



For All Coachscrews fixings

Rhodorsil V60 Clear Silicone H/RTV419098



Construction Silicone

Face Fix Spacer JVB125/30mm

Face Fix Spacer JVB125/15mm

Face Fix Spacer JVB125/10mm

EPDM Spacer Washer JVB126

Face fix Post

Separator for

and Timber

Concrete, Steel





38mm dia x 30mm long. Maximum 60mm



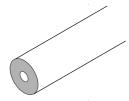
38mm dia x 15mm long. Maximum 60mm



38mm dia x 10mm long. Maximum 60mm

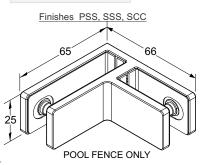


38mm dia x 3mm Maximum 60mm



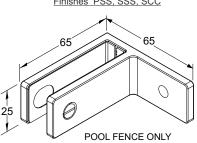
38mm dia x 1m long - 11mm dia Hole

JET60 90 deg Slim Pool Glass Clamp 10-12mm Glass

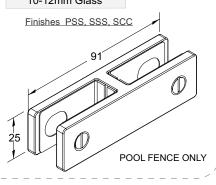


JET62 Wall Slim Pool Glass Clamp 10-12mm Glass

Finishes PSS, SSS, SCC



JET61 180 deg Slim Pool Glass Clamp 10-12mm Glass



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Juralco Edgetec Matador® 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 (up to)	Balustrade Height	Post Spacing			,		Important SLS Wir		ULS Wind (kPa)
Type	(up to)	(max)	(max)	(max)	Тор	Face		NZ1,2,3	Nz4	(KFa)
407	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
	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	Very High	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

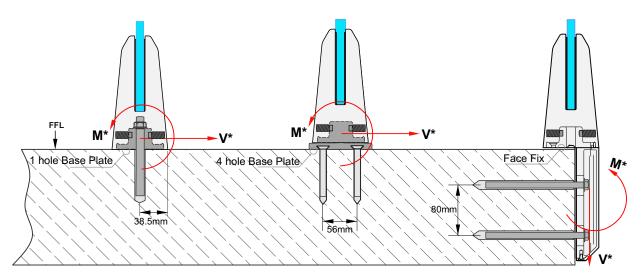
Dimension Table - Pool Fence

Wind Zones (up to and including) Pool Fence only

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

Pool Fence applies to Top and Face Fix only

Glass Thickness,	Wind Zone (up to)	Fence Height	Post Spacing	Glass Overhang			V*(kN)	Importance level 2 SLS Wind (kPa)		ULS Wind (kPa)
Type	(up to)	(max)	(max)	(max)	Top	Face		NZ1,2,3	Nz4	(KFa)
12T, 13.52SG	High	1200	1000	500	1.1	1.3	1.8	1.2	1.3	1.6
	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



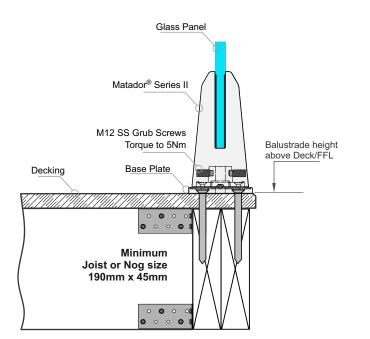
Glass Type						
Glass Thickness (mm)	Interlayer Thickness & Type	Minimum Panel Width (mm)	Maximum Panel Width (mm)			
12T	-	200	1900			
13.52SG	6/1.52/6	1700 with Stiffeners or 200 without Stiffeners	See manufacturers limits			
15T	-	200	1900			

- 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



Matador® Series II

M12 SS Grub Screws
Torque to 5Nm

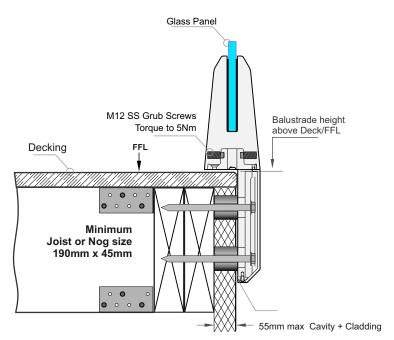
Decking

Minimum

Joist or Nog size
190mm x 45mm

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

2 - Top Fix to Triple 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)

Juralco Edgetec Matador® Series II Balustrade System - Typical Fixing Complies with NZS3604:2011 - Double Boundary Joists

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		250			
12T, 13.52SG	Very High	1100					
10.0200	Extra High	1000	720				
	High	1300	720				
15T	Very High	1250					
	Extra High	1200					

Wind Zones (up to and including)

Pool Fence only

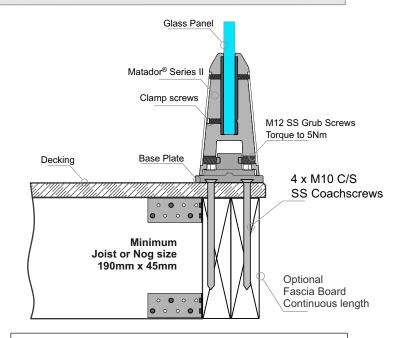
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

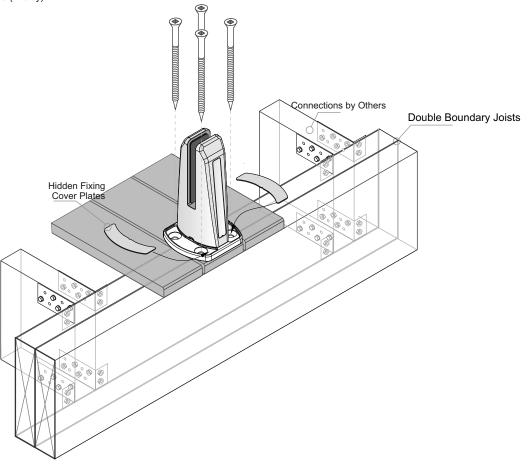
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Coachscrews 100mm 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



Juralco Edgetec Matador® Series II Balustrade System - Typical Fixing Complies with NZS3604:2011 - Triple Boundary Joists

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

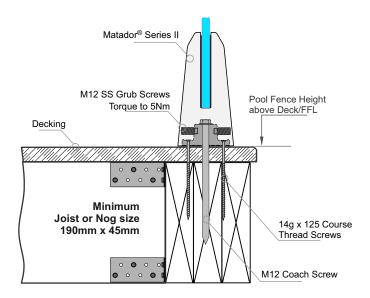
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

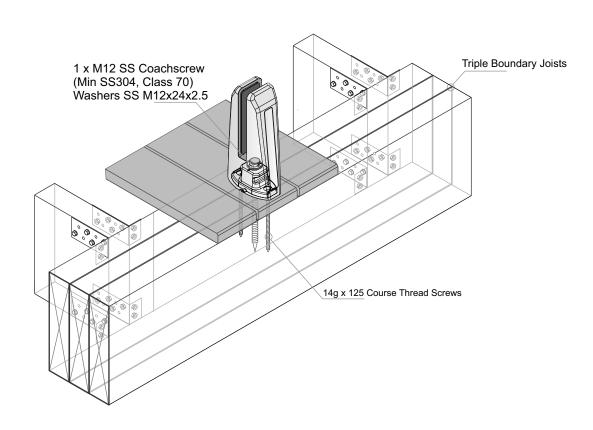
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
	Medium	1200	1000	500
12T, 13.52SG	High	1200	750	375
10.0200	Very High	1200	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 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



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				
10.0200	Extra High	1000	720	250		
	High	1300	720	250		
15T	Very High	1250				
	Extra High	1200				

Wind Zones (up to and including)

Pool Fence only

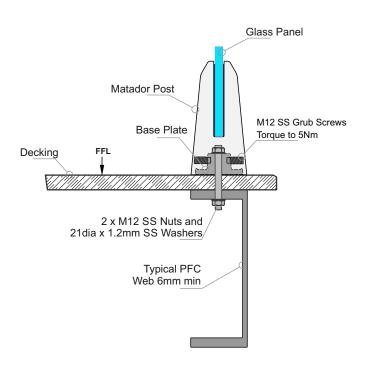
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

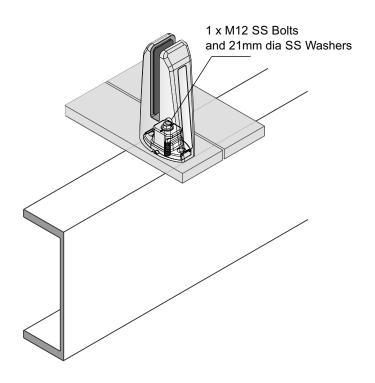
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 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 H	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		250				
12T, 13.52SG	Very High	1100	720					
10.0200	Extra High	1000						
	High	1300	120					
15T	Very High	1250						
	Extra High	1200						

Wind Zones (up to and including)

Pool Fence only

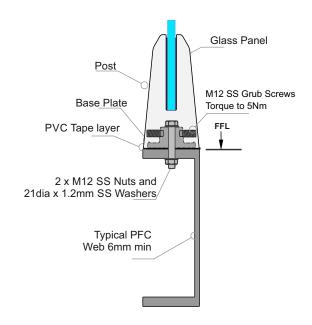
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

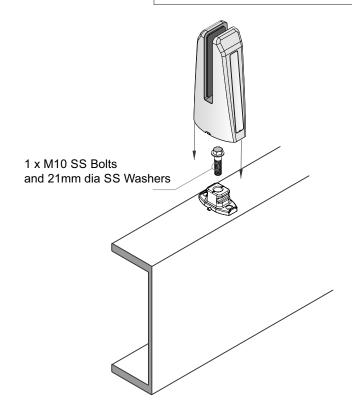
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 1 The Project engineer must ensure the structure can support the appropriate loads
- 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 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, mmGlass 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 EM Plus 390 S

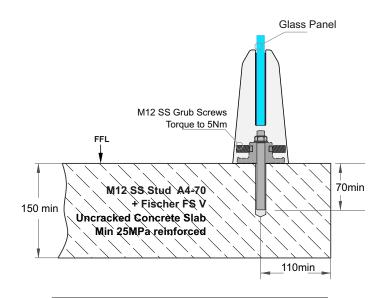
Thread diameter M12
Drill hole diameter = 14 mm
Drill hole depth = 80 mm
Anchorage depth = 70 mm

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

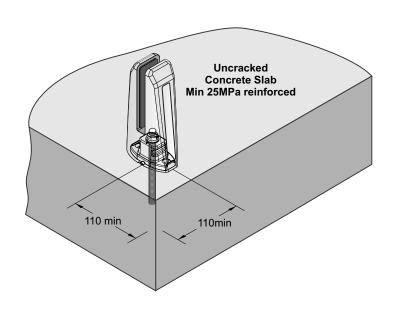
4 times blusinig,

4 times blowing

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



- 1 A 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 All fixings must be Stainless Steel
- 5 30mm Max of decking/spacers used



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

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

Wind Zones (up to and including)

Pool Fence only

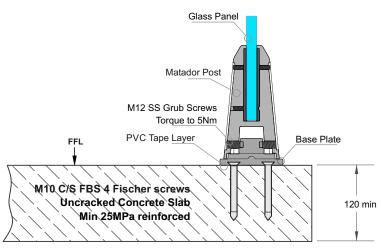
Applies to Pool Fences not protecting a fall of 1.0m or more

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, mmGlass 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 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 Substructure shown indicatively only
- 5 All fixings must be Stainless Steel
- 6-30mm Max decking/spacers used

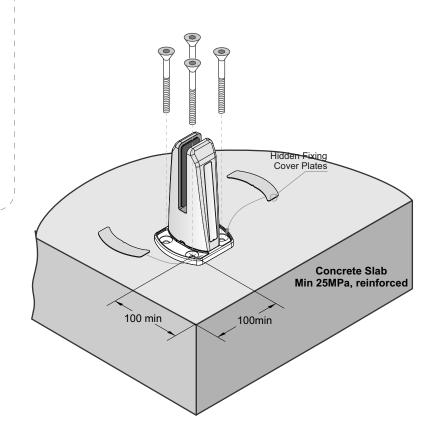


Installation details Fischer FBS II 8 x 80 C/S Screws

Thread diameter = M10
Drill hole diameter = 8 mm
Drill hole depth = 90 mm
Anchorage depth = 52 mm

Drilling method Hammer drilling
Drill hole cleaning Blow out by hand

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



Juralco Edgetec® Mini Post Balustrade System - Typical Fixing Complies with NZS3604:2011 - 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		
10.0200	Extra High	ra High 1000 720		250
15T	High	1300	720	250
	Very High	1250		
	Extra High	1200		

Wind Zones (up to and including)

Pool Fence only

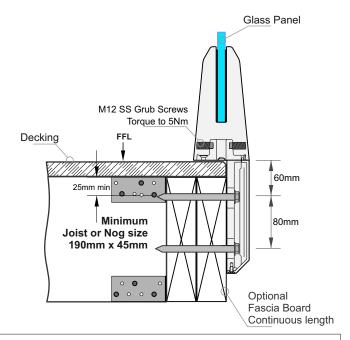
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

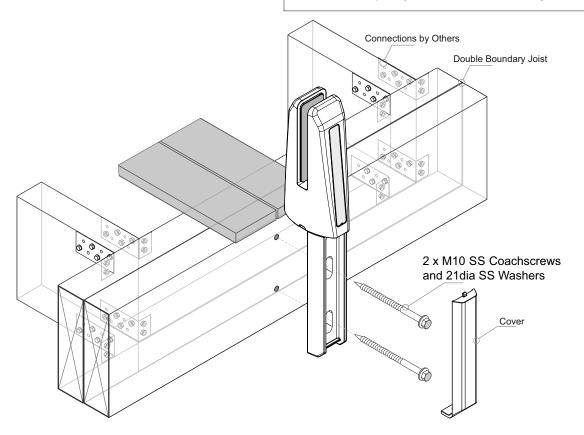
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 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



Juralco Edgetec® Mini Post Balustrade System - Typical Fixing Complies with NZS3604:2011 - Double Boundary Joists

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		250
10.0200	Extra High	1000	720	
15T	High	1300	120	
	Very High	1250		
	Extra High	1200		

Wind Zones (up to and including)

Pool Fence only

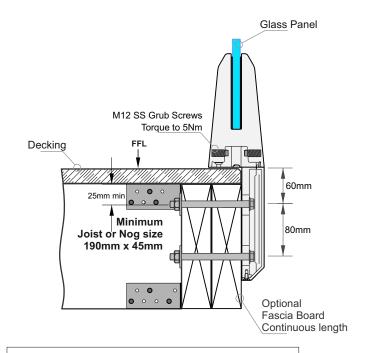
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

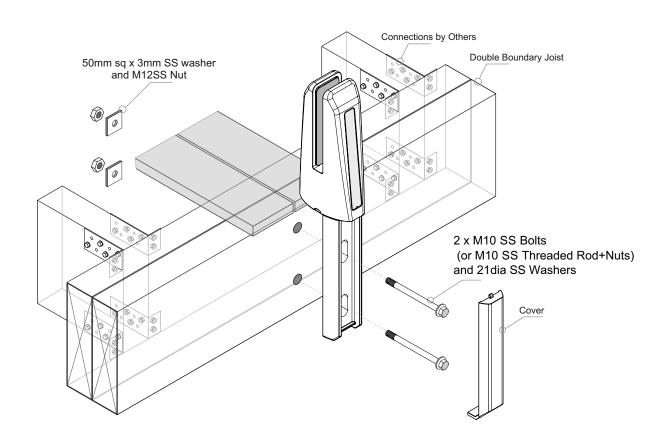
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



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



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		
10.0200	Extra High	1000	720	250
15T	High	1300	720	
	Very High	1250		
	Extra High	1200		

Wind Zones (up to and including)

Pool Fence only

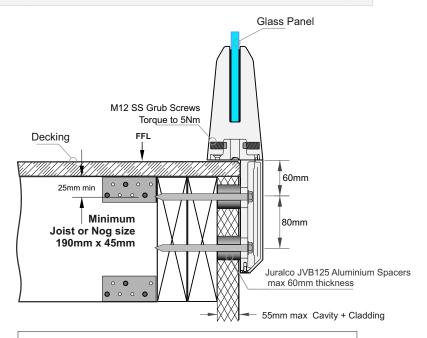
Applies to Pool Fences not protecting a fall of 1.0m or more

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

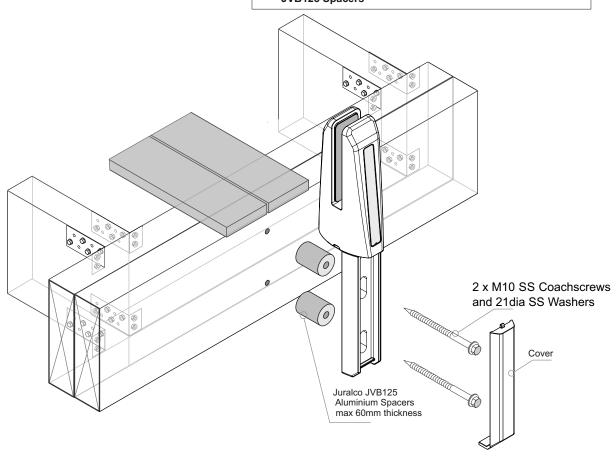
General Notes:

- 1 Glass thickness, mmGlass 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)



- 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



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	12T, 13 52SG Very High				
	10.0200	Extra High	1000	720	250	
	15T	High	1300	720		
		Very High	n 1250			
		Extra High	1200			

Wind Zones (up to and including)

Pool Fence only

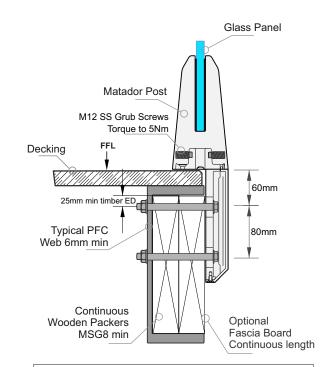
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

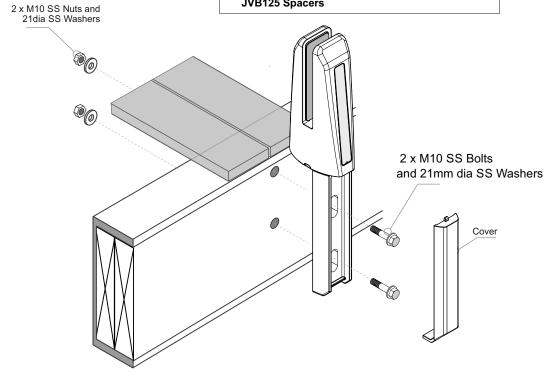
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
	High	1300	1000	500
15T	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 1 The Project engineer must ensure the structure 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
- 6 Max 60mm spacing back to structure including JVB125 Spacers



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	High	1200			
	Very High	1100			
	Extra High	1000	720		
15T	High	1300	720	250	
	Very High	1250			
	Extra High	1200			

Wind Zones (up to and including)

Pool Fence only

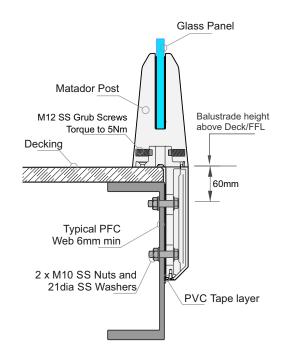
Applies to Pool Fences not protecting a fall of 1.0m or more

Pool Fence applies to Top and Face Fix only

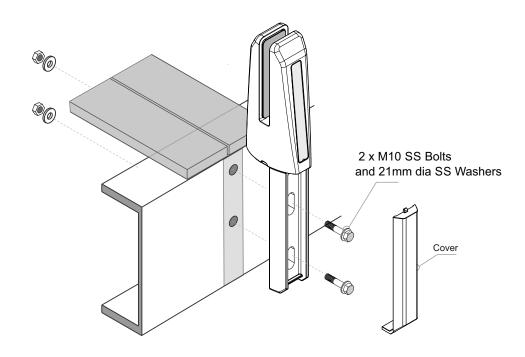
Glass Thickness, Type	Wind Zone (up to)	Fence Height (max)	Post Spacing (max)	Glass Overhang (max)
12T,	High	1200	1000	500
13.52SG	Very High	1200	750	375
15T	High	1300	1000	500
	Very High	1300	750	375
	Extra High	1300	600	300

General Notes:

- 1 Glass thickness, mmGlass 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)



- 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



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 Balustrade Post Glass Glass Wind Zone Thickness, Spacing Overhang (max) (up to) Туре (max) (max) 1200 High Very High 1100 13.52SG Extra High 1000 720 250 High 1300 15T Very High 1250 1200 Extra High

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
- 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

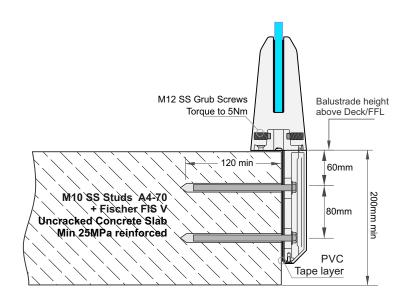
Thread diameter M10 Drill hole diameter = 12 mm Drill hole depth = 130 mm = 120 mm Anchorage depth

Drilling method Drill hole cleaning

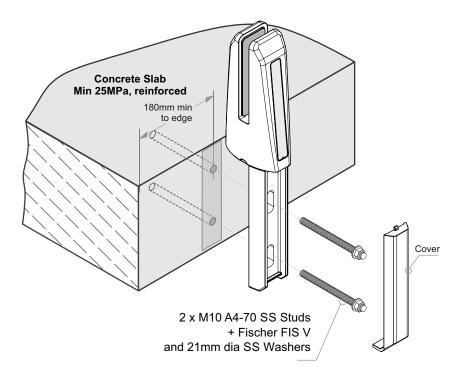
Hammer drilling 4 times blowing,

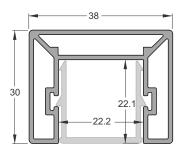
4 times brushing, 4 times blowing

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

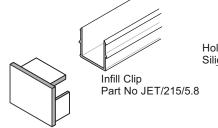


- 1 The Project engineer must ensure the structure can support the appropriate loads
- 2 All fixings must engage the structural slab
- 3 A PVC Tape layer must be installed between the MiniPost and Concrete
- 4 Substructure shown indicatively only
- 5 All fixings must be Stainless Steel
- 6 Max 60mm spacing back to structure including JVB125 Spacers





Rectangular Interlinking Top Rail Part No JET/220/5.8 Also showing Infill Clip, for use in between Glass Panels



Interlinking Top Rail End Cap Part No JET 37



Interlinking Top Rail Gasket for 12 mmToughened Glass Part No JET/Gasket 12/2.9

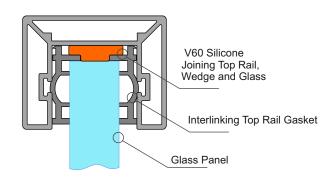
1 - 12mm Glass and Gasket

Application Notes:

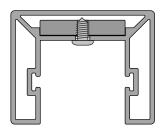
- Cut short lengths of Gasket (50mm) and place say every 700mm.
- Cut/adjust Interlinking rail to correct dimensions, test in place.
- Remove all, install full cut lengths of Gasket to glass top edge
- Assemble Top Rail + Joiners and suitable End plates
- Place blobs of V60 silicone in every Gasket hole
- 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 Plate Tabs all 22.5 x 4mm SS.



erlinking Top Rail Interlinking T



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.

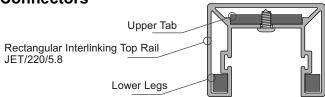
Interlinking Top Rail Wall type End Plate SS. 120x45mm JET 40LH Interlinking Top Rail Wall type End Plate SS. 120x45mm JET 40RH

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

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

1 - Connectors



Interlinking Top Rail

Horizontal Fixed

90 deg Connector

Interlinking Top Rail

Horizontal 0 - 90deg

Swivel Connector

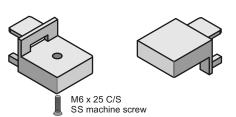
JFT 46B

JFT 45B

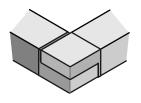
Swivel Kits: (After cutting extrusions to length)

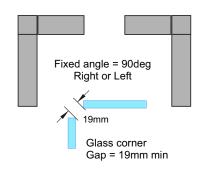
- With Swivel in place, spot drill from below for position
- Drill out Swivel to 3mm dia, extrusion to 4mm dia
- Use No6 x 1/4in SS ST Pan sq drive screws, 2 x ea side of joint
- Both sides must be attached.
- Join together with the M6 x 25 C/S SS Screw

Interlinking Top Rail Horizontal Fixed 90 deg Connector JET 45A

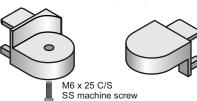


Rectangular Interlinking Top Rail Horizontal Fixed 90deg Kit JET220/90deg Corner Kit (JET 45A and B + screw)

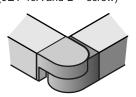


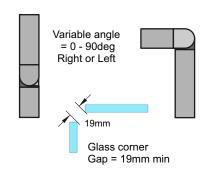


Interlinking Top Rail Horizontal 0 - 90deg Swivel Connector JET 46A



Rectangular Interlinking Top Rail Horizontal 0 - 90 deg Right/Left Swivel Connector Kit JET220/Horizontal Adj Corner Kit (JET 46A and B + screw)





Interlinking Top Rail Vertical 35deg up to 35 deg down Swivel Connector JET 47A

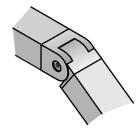


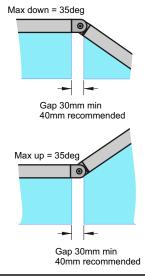
Vertical 35deg up to 35 deg down Swivel Connector JET 47B SS machine screw

Interlinking Top Rail

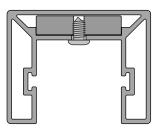


Interlinking Top Rail Vertical 35deg up to 35 deg down. Swivel Connector Kit JET220/Vertical Adj Corner Kit (JET 47A and B + screw)



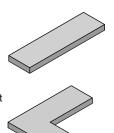


2 - Joiners



Joiners: (After cutting extrusions to length)

- With Joiner in place, spot drill from below for position
- Drill out to joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive screws, 2 x ea side of joint
- Both ends must be attached.
- Joins, where required must be at the end of Glass Panels

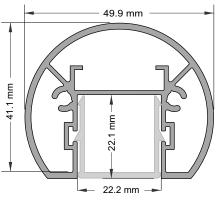


Interlinking Top Rail Straight Joiner 80x22.8x5mm JET 30

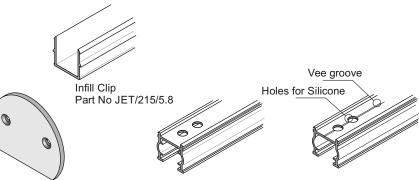
Interlinking Top Rail Corner Joiner 75x75x5mm JET 31

Joiners both 22.5 x 5mm Aluminium





Round Interlinking Top Rail Part No JET/211/5.8 Also showing Infill Clip, for use in between Glass Panels



Round Interlinking Top Rail End Cap Part No JET/231

Interlinking Top Rail Gasket for 12 mmToughened Glass Part No JET /Gasket 12/2.9

Interlinking Top Rail Gasket for 15 mmToughened Glass Part No JET /Gasket 15/2.9

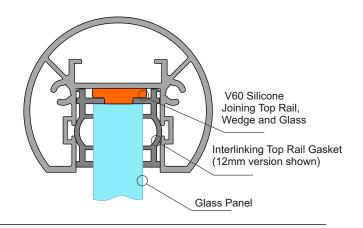
1 - 12mm Glass and Gasket

Application Notes:

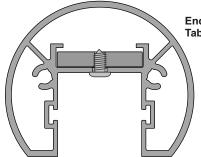
- Cut short lengths of Gasket (50mm) and place say every 700mm.
- Cut/adjust Interlinking rail to correct dimensions, test in place.
- Remove all, install full cut lengths of Gasket to glass top edge
- Assemble Top Rail + Joiners and suitable End plates
- Place blobs of V60 silicone in every Gasket hole
- 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

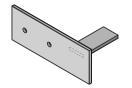
- Use No 6 x 1/4in SS ST Pan sq drive Screw, 2 per plate - End Plate must be securely attached to Post or structure.

- Drill out to SS tab to 3mm dia, extrusion to 4mm dia

End Plate Tabs all 22.5 x 4mm SS.



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



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

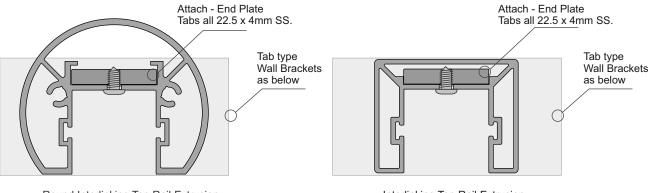


Interlinking Top Rail End Bracket SS. 60mm x 46mm JET 42

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

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

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



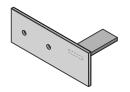
Round Interlinking Top Rail Extrusion JET/211/5.8

Interlinking Top Rail Extrusion JET/220/5.8

Interlinking Top Rail End Bracket Options - Both types above - Tab attach Type



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

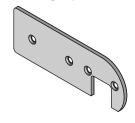


Interlinking Top Rail Wall type End Plate SS. 120x45mm JET 40RH



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

Interlinking Top Rail End Bracket Options - Round Type only - Attach into Screw ports



Interlinking Top Rail Wall type offset End Plate Round Rail type only 120x42x3mm, Al C/s both sides = RH or LH JET 233



Interlinking Top Rail Wall type End Plate Round Rail type only 50x58x5mm, Al JET 232

Tabs all 22.5 x 4mm SS. Front faces all 3mm SS

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

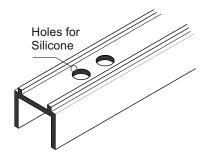
- use 2 off M6 x70 SS Screw Anchors
- Solid Concrete min 20Mpa
- Block wall Concrete filled/Reinforced
- 140mm min Wall thickness
- 70mm min distance to Horizontal Edge
- 100mm min distance to Vertical Edge
- Blockwork wall must be corefilled /reinforced and is to be designed and detailed in accordance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

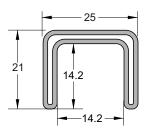
Small SS Interlinking Top Rail

V60 Silicone Joining Top Rail, Gasket and Glass Small Interlinking Top Rail Gasket Glass Panel 12mm Toughened

25mm SS Interlinking Top Rail



SMALL SS INTERLINKING TOP RAIL GASKET JET/490GT/12/2.9 (Black)



SMALL SS INTERLINKING TOP RAIL JET/490/5.8/SSS JET/490/5.8/SCC Duplex 2205

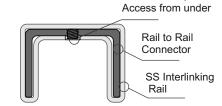
Grub Screws,

25mm SS Interlinking Rail Connections

Note: All these Brackets use M5 x 6 SS Grub Screws. If necessary these holes must be Drilled + tapped M5, as shown.

The underside of the Interlinking Rail must be drilled M6 to match M5 tapped holes positions, for access to Grub screws

- Joins, where required must be at the end of Glass Panels Available as Satin(SSS) or Powdercoated SCC finishes

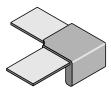




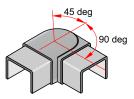
180deg INLINE JOINER Duplex 2205 JET491/SSS JET491/SCC 21mm x 25mm x 51mm deep



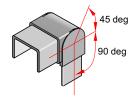
END CAP Duplex 2205 JET492/SSS JET492/SCC 21mm x 25mm x 25mm deep



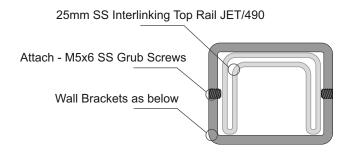
90deg JOINER Duplex 2205 JET493/SSS JET493/SCC 21mm x 80mm x 80mm



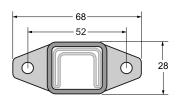
+90 to - 45 deg ADJUSTABLE HORIZONTAL JOINER Duplex 2205 JET494/SSS JET494/SCC 21mm x25mm x 75mm overall deep

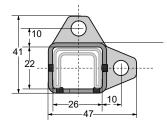


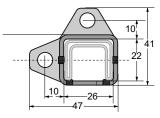
+90 to - 45 deg ADJUSTABLE VERTICAL JOINER Duplex 2205 JET495/SSS JET495/SCC 21mm x25mm x 73mm overall deep



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

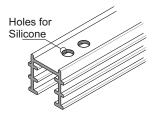
Note: Fixing to Juralco EDGE Post

- use 2 off 8g x 25 SS PK Screws

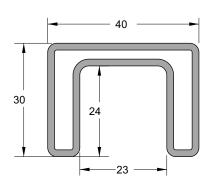
Note: Fixing to Concrete Wall

- 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

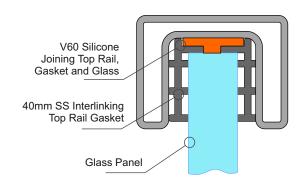
Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets



SS Interlinking Top Rail 12mm Glass Gasket JET/430GT/12/2.9



SS INTERLINKING TOP RAIL JET/430/PSS/5.8



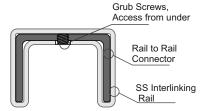
V60 Silicone sealant

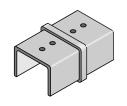
40mm SS Interlinking Rail Connectiors

Note: All these Brackets use M5 x 6 SS Grub Screws. If necessary these holes must be Drilled + tapped M5, as shown.

The under side of the Interlinking Rail must be drilled M6/7 to match M5 tapped holes positions, for access to Grub screws

- Joins, where required must be at the end of Glass Panels

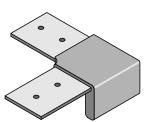




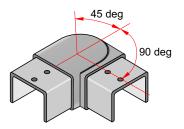
180deg INLINE JOINER 2205 JET/431/PSS 60mm x 40mm x 30mm deep



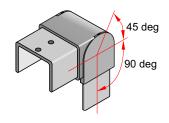
END CAP 2205 JET/432/PSS 33mm x 40mm x 30mm deep



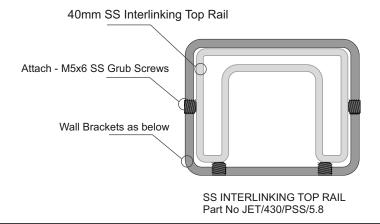
90deg JOINER 2205 JET/433/PSS 95mm x 95mm x 30mm deep



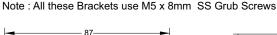
+90 to - 45 deg ADJUSTABLE HORIZONTAL JOINER 2205 JET/434/PSS 70mm x 70mm x 30mm deep

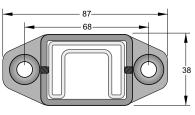


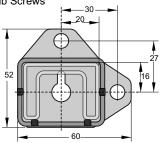
+90 to - 45 deg ADJUSTABLE VERTICAL JOINER 2205 JET/435/PSS 60mm x 60mm x 40mm wide

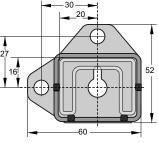


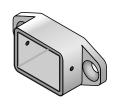
Brackets for Fixing to Wall or End Post for 40mm SS Interlinking Rail















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 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

Juralco Glass Panel Stiffener Brackets

Suitable for 12-15mm Glass

Recommended use:

Glass Edge to Face

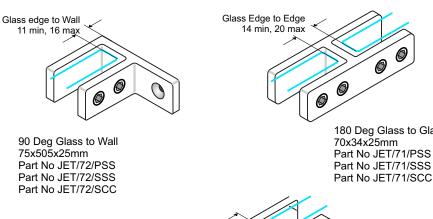
12 min, 17 max

- SentryGlas Balustrades above 1050mm

- Pool Fencing

Top Edge, Frameless Glass Stiffeners.

- Install 200mm max from Glass Top edge
- Supplied as a kit, with screws, a variety of Gaskets and a SS clamp Plate
- Duplex 2205 SS construction. Polished (PSS), Satin (SSS) or Powder coat SCC Finishes



180 Deg Glass to Glass Part No JET/71/PSS Part No JET/71/SSS

0

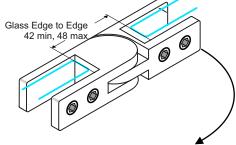


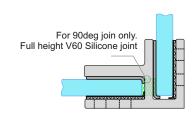
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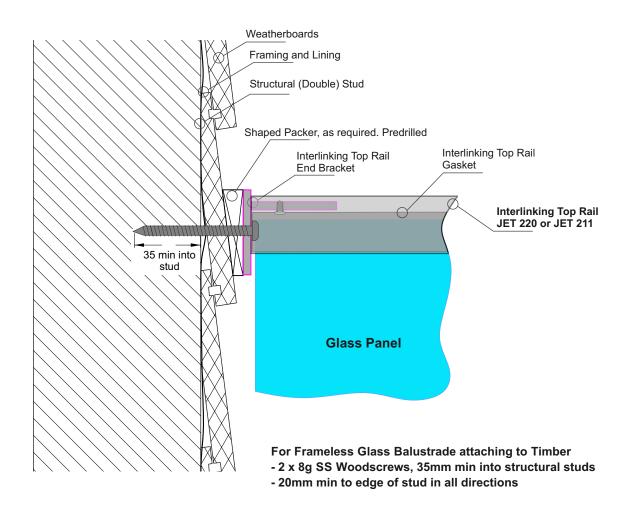
Glass Edge to Face

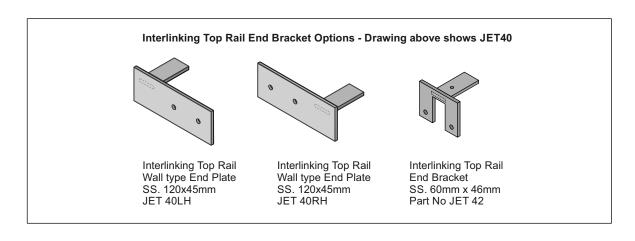
11 min, 16 max

90 - 180 Deg Adjustable Glass to Glass 135x34x25mm Part No JET/73/PSS Part No JET/73/SSS Part No JET/73/SCC

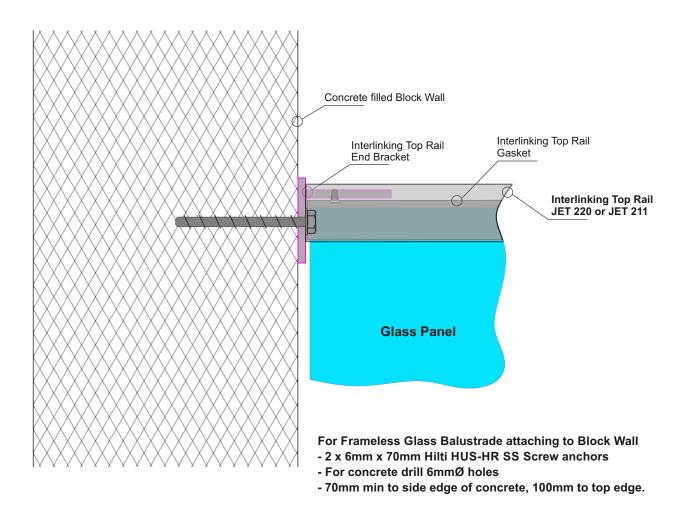


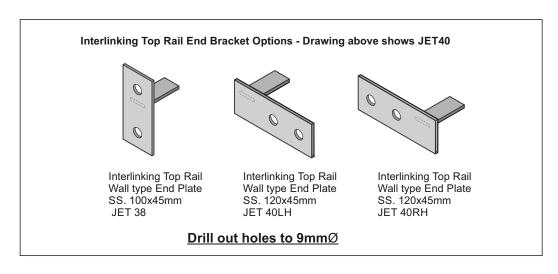




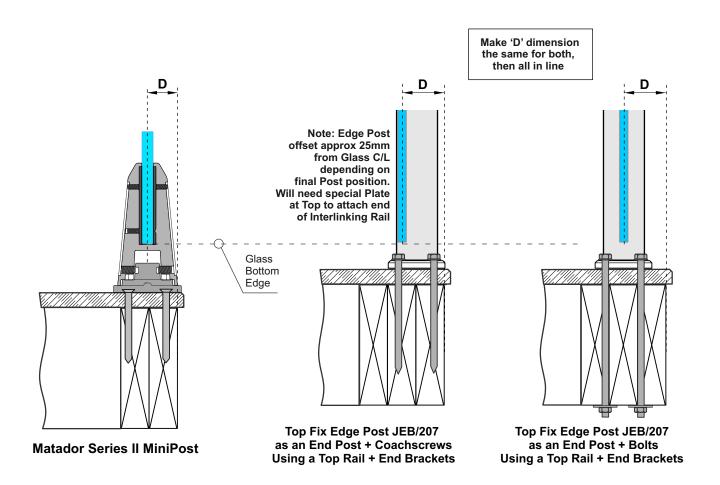


- All fixings to be stainless steel
- Timber stud wall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load N^* = 0.9kN, inwards, outwards or down.
- Minimum Stud size = 90mm x 45mm
- Minimum Timber grade = SgG8
- Timber stud wall to be designed and detailed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



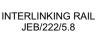


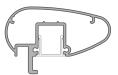
- All fixings to be stainless steel
- Blockwall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load $N^* = 0.9kN$, inwards, outwards or down.
- Minimum blockwork thickness = 140mm
- Minimum core fill concrete strength = 17.5MPa
- Blockwork wall must be corefilled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



Juralco Interlinking Rails



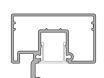




AEROFOIL HANDRAIL JEB/217/5.8



ROUND HANDRAIL JEB/209/5.8



RECTANGULAR HANDRAIL JEB/216/5.8



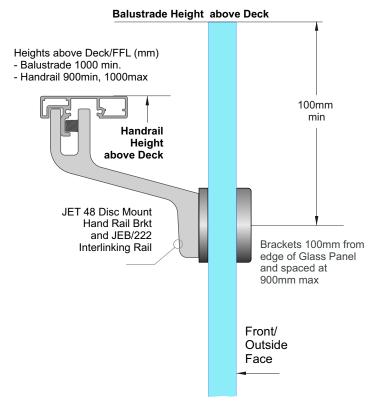
CIRCULAR HANDRAIL JEB/221/5.8



CIRCULAR HANDRAIL JEB/223/5.8 + Clip JEC38

Suitable Interlinking Rail and Handrails (as Interlinking Rails)

Interlinking or Handrails on Deck side.



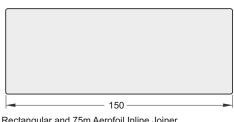
Frameless Glass Systems Infinity, Double and Single Disc, MiniPost, Matador Mini Post and JH Clamp

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

Juralco Handrail Components - Joiners

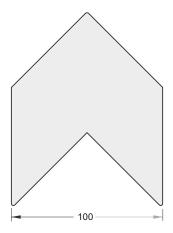
Rectangular Handrails and 75mm Aerofoil - End Cap, Straight and 90deg corners RECTANGULAR HANDRAIL JEB/216/5.8

All ex 3mm Aluminium



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

Use No6 x 1/4in SS pan sq drive screws, 2 ea side of joint



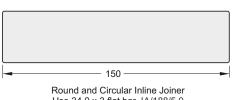
Rectangular and 75m Aerofoil 90deg Corner Joiner JEC 01

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

All ex 3mm Aluminium

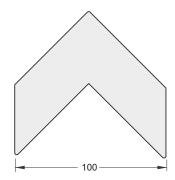


AEROFOIL HANDRAIL



Use 34.0 x 3 flat bar JA/188/5.0

Use No6 x 1/4in SS pan sq drive screws, 2 ea side of joint



Round and Circular 90deg Corner Joiner JEC 04

All ex 3mm Aluminium Interlinking Rail End Cap, Straight 135 deg and 90deg corners 64 100 95 14mm, 90deg STANDARD HANDRAIL JEB/222/5.8 Corner Joiner JEC34

14mm, 135deg

Corner Joiner JEC36

14mm

V60 Silicone

Straight Joiner JEC32

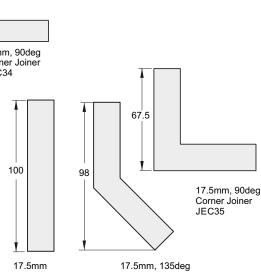


17.5 bar

- With Joiner in place, spot drill from below for position

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

14 bar



Corner Joiner

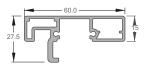
JEC37

Straight Joiner

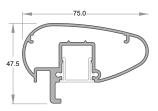
JFC33

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

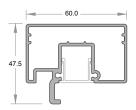
End Caps all ex 3mm Aluminium



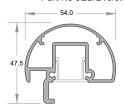
HANDRAIL Part No JEB/222/5.8



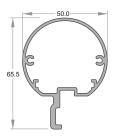
AEROFOIL HANDRAIL Part No JEB/217/5.8



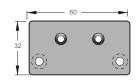
RECTANGULAR HANDRAIL Part No JEB/216/5.8



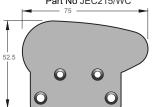
HALF ROUND HANDRAIL Part No JEB/209/5.8



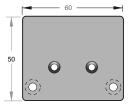
CIRCULAR HANDRAIL Part No JEB/221/5.8



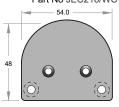
HANDRAIL WALL ATTACH END PLATE Part No JEC215/WC



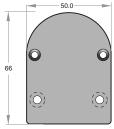
HANDRAIL WALL ATTACH END PLATE Part No JEC217/WC



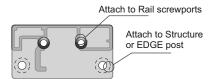
HANDRAIL WALL ATTACH END PLATE Part No JEC216/WC



HANDRAIL WALL ATTACH END PLATE Part No JEC209/WC



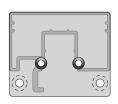
HANDRAIL WALL ATTACH END PLATE Part No JEC221/WC



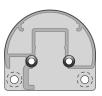
For RH and LH



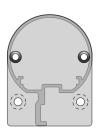
For RH and LH



For RH and LH



For RH and LH



For RH and LH

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

Note: Fixing to Steel

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

Note: Fixing to Timber Wall

- use 2 off 8g SS Screws, 35mm min into studs.
- use Sika Supergrip 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® 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® 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:

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

Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces

Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.

Dulux Dabsticks are ideally suited for the repair of small scratches.

Dabsticks may not be available in all colour card colours.

Repair of Weathered areas.

Dulux Gloss Up is a light to medium cutting cream ideally

suited for gloss restoration and has been specifically designed for this purpose.

Gloss Up contains no waxes or silicone and is a one step system.

Contact Dulux Powder Coatings, ph 0064 9 441 8244





Juralco Edgetec Matador[®] 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 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 intervals		
Coastal or Marine	Not recommended	Clean at 0-12min intervals		

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