



# JURALCO EDGETEC® DOUBLE DISC ANCHOR BALUSTRADE SYSTEM

ISSUE 7-24 v1

## Juralco Edgetec® Double Disc Anchor 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, shutters and awnings, shower screens, wardrobe doors and organisers and internal doors.

The Juralco Edgetec® Double Disc Anchor Balustrade system is designed for Frameless Glass, from 12mm to 17.52mm, Faced fixed and for Residential or Commercial use. The system is extremely versatile and can be made in a range of configurations to suit most modern architectural requirements.

- Juralco Edgetec® Double Disc Anchor Balustrade System
- Glass Panels from 12mm Toughened Safety Glass to 17.52mm SentryGlas
- Discs spaced at horizontally 300mm or 400mm depending on Wind Zone
- Disc centres standard at 110mm.
- Simple installation. Allows horizontal and vertical glass adjustment.

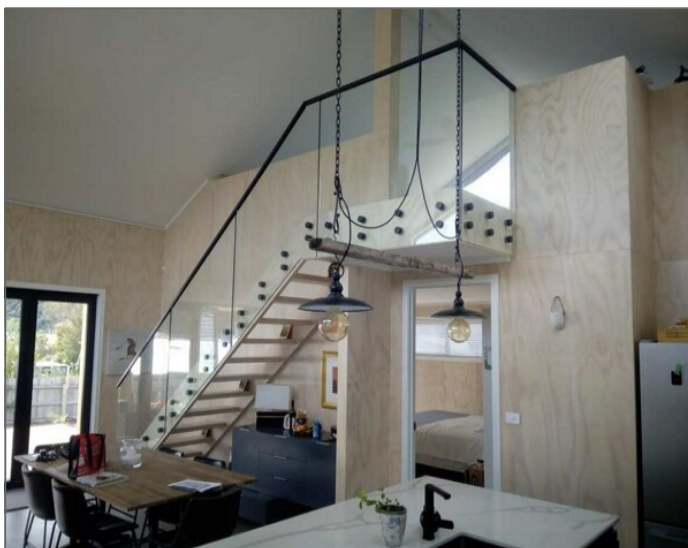
- Tested to NZ standard NZS4203 and NZS1170
- Conforms to NZS4223.3.2016
- Top Interlinking Rail to conform to NZS4223.3.2016
- Balustrade options up to Very High, and Free Standing Pool Fence options up to Extra High Wind Zones



Edgetec Double Disc Satin Black, Square Trim with Top Interlinking Rail



Edgetec Double Disc SS, C/S screw fixings with Top Interlinking Rail



Edgetec Double Disc Satin Black, hidden fixings with Top Interlinking Rail



Edgetec Double Disc SS, C/S screw fixings with Top Interlinking Rail

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## Juralco Edgetec® Double Disc Anchor Balustrade System

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

**Double Disc Balustrade is for Domestic and Residential Occupancy types A, A Other and C3 and for Commercial Occupancy Types B, E and C3 Occupancy Types as per AS/NZ 1170.1.2002. Not suitable for Commercial C1/C2, C5 and D applications**

Code	Type of Occupancy for part of the building or structure	Specific Uses	Glass
A	Domestic and Residential activities	All areas within or serving exclusively one dwelling including stairs, landings etc, but excluding external balconies and edges of roofs. (see C3)	Residential, 12mm Toughened Glass, 15.2mm Laminated Safety Glass 13.52 Laminated 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.	Commercial, 15mm Toughened Glass, 17.2mm Laminated Safety Glass 17.52 Laminated SentryGlas
A Other, C3	Areas without obstacles for moving people and not susceptible to over crowding	Stairs, landings, external balconies, edges of roofs etc.	Residential or Commercial as detailed above

**Note 1** All for 12mm or 15mm Toughened Glass, 15.2mm or 17.2mm Laminated Glass and 13.52mm or 17.52mm SentryGlas  
All edges polished, all Holes to be smooth and chip and crack free

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

**Note 3** All Frameless glass balustrades, except for SentryGlas must have an Interlinking Rail to conform to NZS 4223.3.2016  
Not Required for Swimming Pools

**Note 4** The Dulux powder coating warranty period is conditional upon the Balustrade being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. See Warnings concerning Coastal conditions.  
Contact your balustrade installer for a copy of the Care and Maintenance procedure.

**masterspec partner**  
Section 4852JB

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### Specifications for Juralco Edgetec® Double Disc Anchor Balustrade System

#### 1. Scope

- This specification details the documents the Juralco Edgetec® Double Disc Anchor Balustrade System refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, requirements in relation to fixing and surface finishing.

#### 2. NZBC Compliance

- The Juralco Edgetec® Double Disc Anchor Balustrade System has been tested by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170 : 2002 occupancy A, A Other and C3. Options for Low, Medium, High, Very High and Extra High Wind Zones for Balustrades connected to buildings meeting the scope of NZS3604. Options for Very High and Extra High Wind Zones for free standing Pool fences, not protecting a fall of 1.0m or more.
- The Structural Engineering design includes the requirements of B1 Structure, B2 Durability, F2 Hazardous material and F4 Safety from falling, all from the Building Code.
- Verification Method B1 / VM1, B2/AS1, F4 / AS1
- All glass used in the Juralco Edgetec® Double Disc Anchor Balustrade System must conform to AS/NZS 2208.
- Complies with NZS4223.3.2016

#### 3. Manufacturer's Documents

- The Juralco Edgetec® Double Disc Anchor 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. Enquires to Juralco PS1 for assistance.

#### 4. Products

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Edgetec® Double Disc Anchor Balustrade System
- Aluminium extrusions, components and hardware – unless specified are manufactured to 6060 T5 specifications
- Stainless Steel components, hardware, fixings – all components to 316 grade
- Glass - all glass used in the Juralco Edgetec® Double Disc Anchor Balustrade System must conform to the specifications as listed in the Juralco Edgetec® Double Disc Anchor Balustrade System manual with each panel conforming to AS/NZS2208 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® Double Disc Anchor Balustrade System must only be installed in accordance with the Juralco Edgetec® Double Disc Anchor Balustrade System manual
- The Juralco Edgetec® Double Disc Anchor Balustrade System must only be fabricated/installed by a Juralco approved fabricator
- Upon completion of the installation the fabricator must supply the owner with a PS3 (Construction)

#### **Important information - Powder Coating systems.**

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

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

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

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

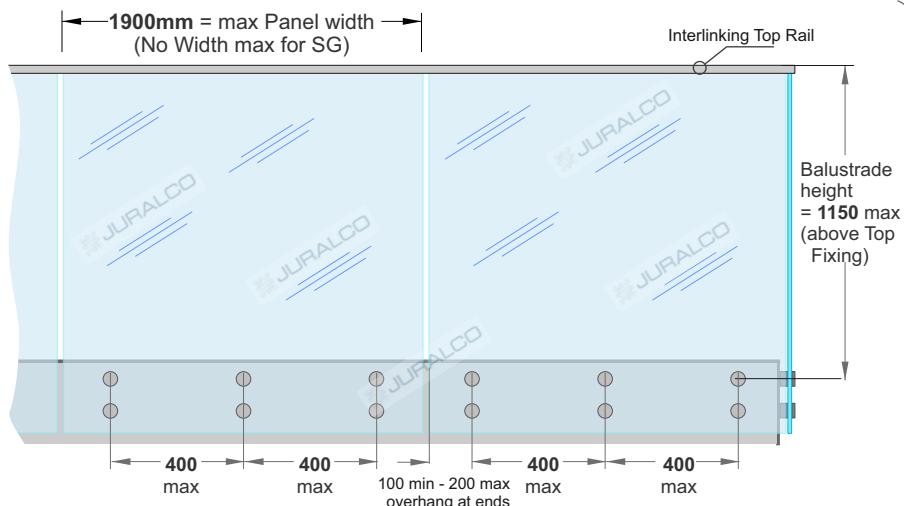
## Juralco Edgetec® Double Disc Anchor Balustrade System Typical Layouts

### Double Disc + Interlinking Rail

Glass must have a minimum strength of 100Mpa  
All edges polished  
All Holes to be smooth and chip and crackfree

Disc spacings  
Min - 2 x Disc pairs  
Max - 5 x Disc pairs

**Residential & Domestic only**  
**Occupancy types A, A Other and C3**  
**All for 12mm Toughened Glass**  
**or 15.2mm Laminated Glass**  
**or 13.52mm SentryGlas**



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

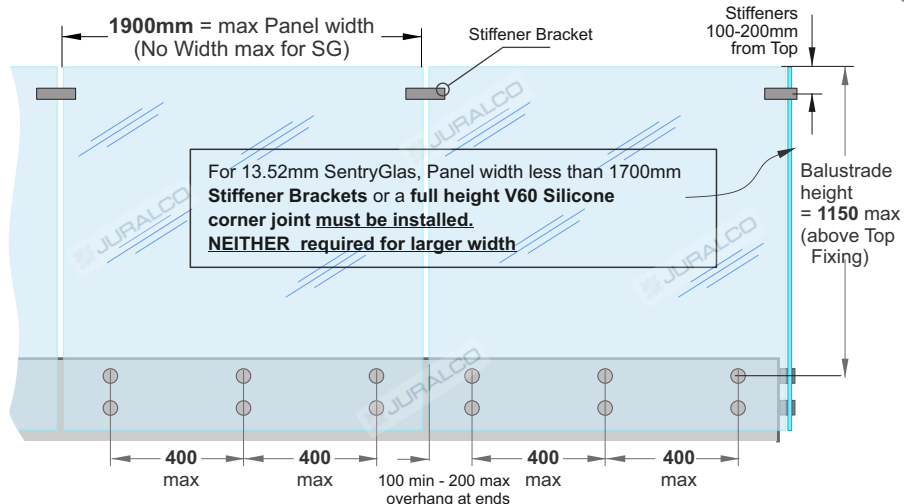
Refer to the Interlinking Top Rail page for conformance to NZS 4223.3.2016.  
- Not required for SentryGlas

### Double Disc + Stiffener Bracket

Glass must have a minimum strength of 100Mpa  
All edges polished  
All Holes to be smooth and chip and crackfree

Disc spacings  
Min - 2 x Disc pairs  
Max - 5 x Disc pairs

**Residential & Domestic only**  
**Occupancy types A, A Other and C3**  
**All for 15.2mm Laminated Glass**  
**or 13.52mm SentryGlas**



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

Interlinking Top Rail not required

### Double Disc Pool Fencing

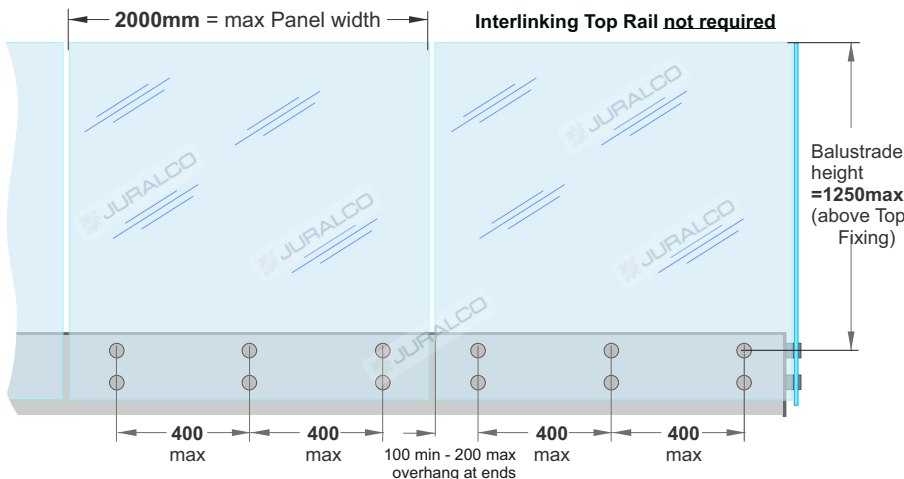
#### **POOL FENCING only**

Glass must have a minimum strength of 100Mpa  
All edges polished  
All Holes to be smooth and chip and crackfree

Disc spacings  
Min - 2 x Disc pairs  
Max - 5 x Disc pairs

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



**12mm Toughened, 15.2mm Laminated**  
**Up to and including Very High Wind Zone.**

**15mm Toughened, 17.2mm Laminated**  
**Up to and including Extra High Wind Zone**



**JURALCO**

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

**Juralco Edgetec® Double Disc Anchor Balustrade System**

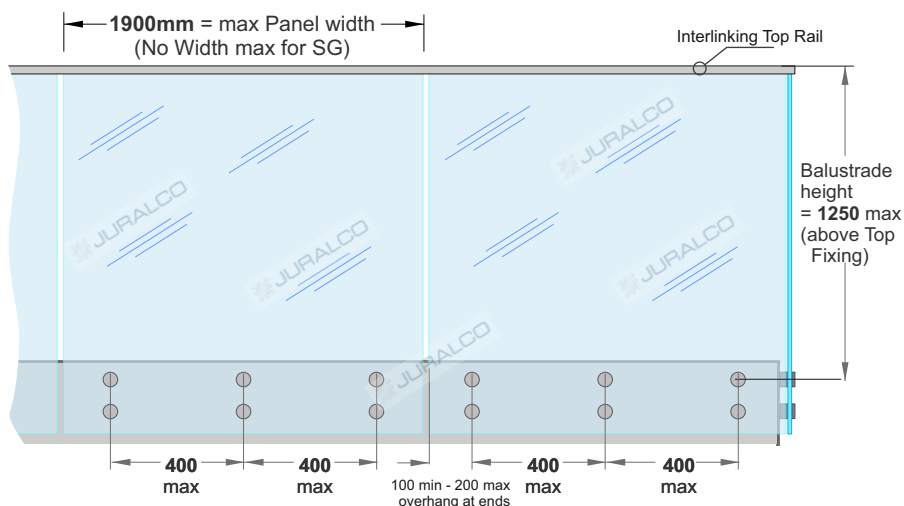
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## Juralco Edgetec® Double Disc Anchor Balustrade System Typical Layouts

### Double Disc + Interlinking Rail

Glass must have a minimum strength of 100Mpa  
All edges polished  
All Holes to be smooth and chip and crackfree  
Disc spacings  
Min - 2 x Disc pairs  
Max - 5 x Disc pairs

**Commercial only**  
Occupancy types B, E and C3  
All for 15mm Toughened Glass  
or 17.2mm Laminated Glass  
or 17.52mm SentryGlas



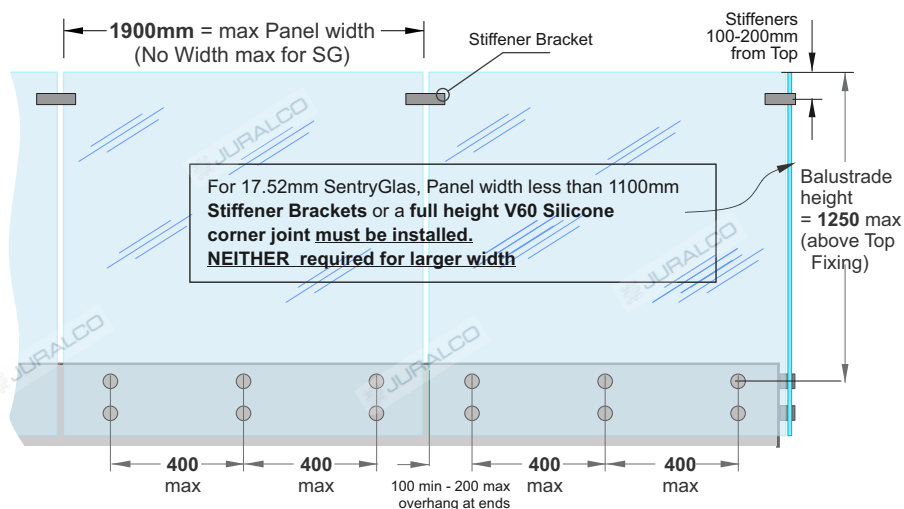
Exceeds the wind loading for all Wind Zones up to **and including Extra High Wind Zone** as set out in NZS 3604:2011  
Refer to the Interlinking Top Rail page for conformance to NZS 4223.3.2016.  
- Not required for SentryGlas

### Double Disc + Stiffener Bracket

Glass must have a minimum strength of 100Mpa  
All edges polished  
All Holes to be smooth and chip and crackfree

Disc spacings  
Min - 2 x Disc pairs  
Max - 5 x Disc pairs

**Commercial only**  
Occupancy types B, E and C3  
All for 17.2mm Laminated Glass  
or 17.52mm SentryGlas



Exceeds the wind loading for all Wind Zones up to **and including Extra High Wind Zone** as set out in NZS 3604:2011  
Interlinking Top Rail not required

### Glass Types Specifications

#### Laminated Safety Glass. Glass Layers and Thickness Orientation

Glass Thickness (mm)	Inner Layer of Glass thickness (mm) Deckside	Interlayer thickness(mm) and Type	Outer Layer Glass thickness (mm)
15.2	8	1.2EVA	6
17.2	8	1.2EVA	8

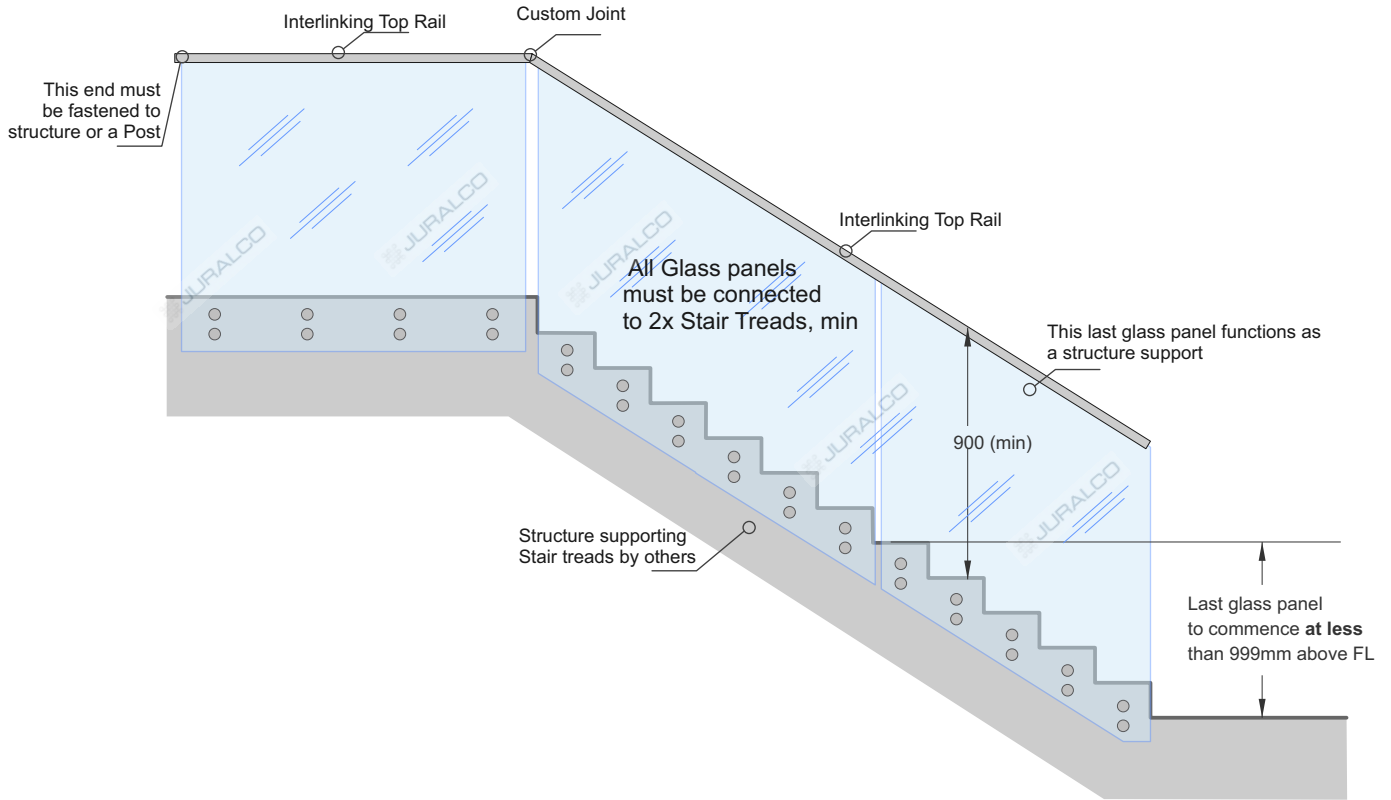
#### SentryGlas® Glass Layers and Thickness Orientation

Glass Thickness (mm)	Inner Layer of Glass thickness (mm)	Interlayer thickness(mm) and Type	Outer Layer Glass thickness (mm)
13.52	6	1.52 SentryGlas®	6
17.52	8	1.52 SentryGlas®	8

# Juralco Edgetec® Double Disc Anchor Balustrade System - Typical Stair Layout

## Double Disc Balustrade

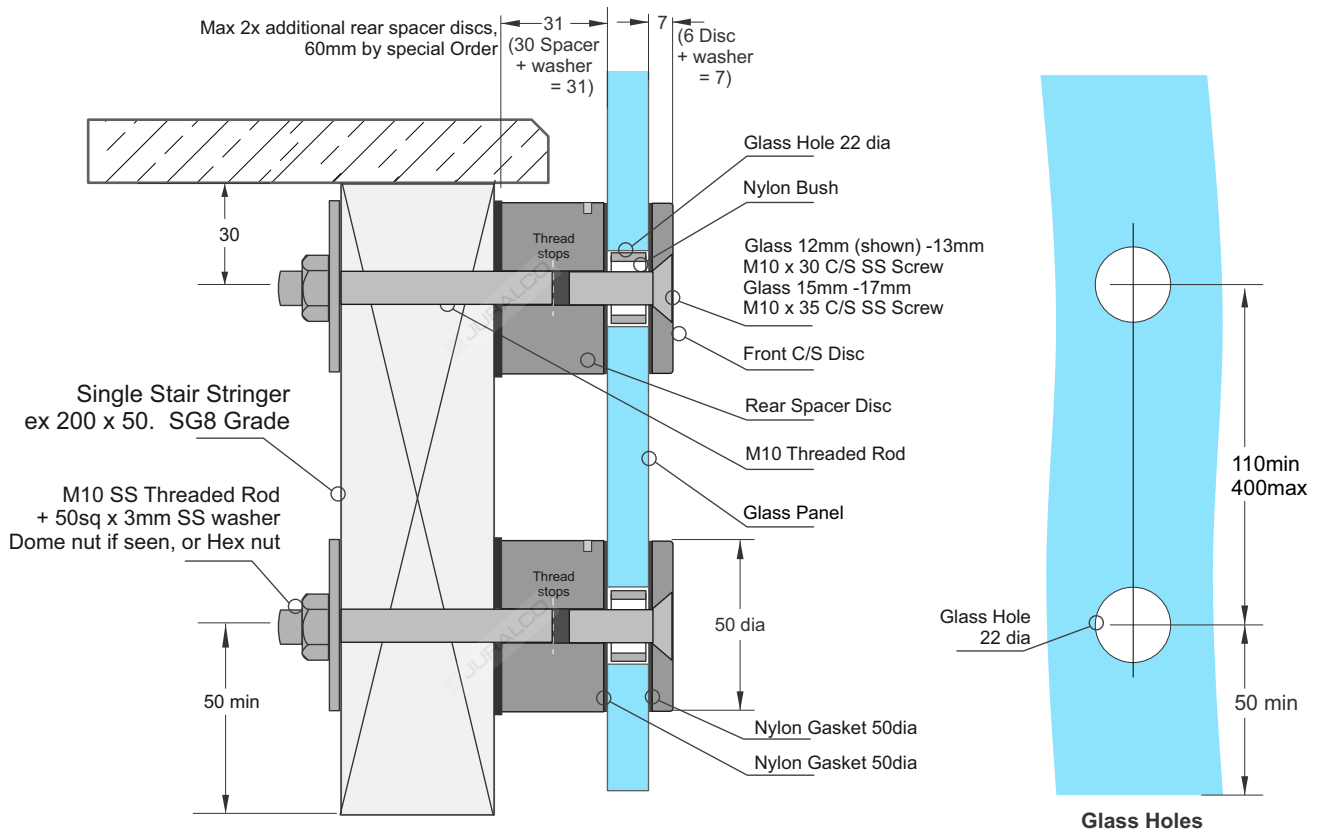
Typical Stair 300mm tread, 180mm step.  
Screw fixings into Single or Double Joists/Stiffeners, Concrete or Steel



## Double Disc Balustrade Stair Stringer Detail

### C/S Fastener shown, Hidden fixing available

- Stair structure to be designed by others to resist Balustrade actions as per NZS1170.1 Table 3.3

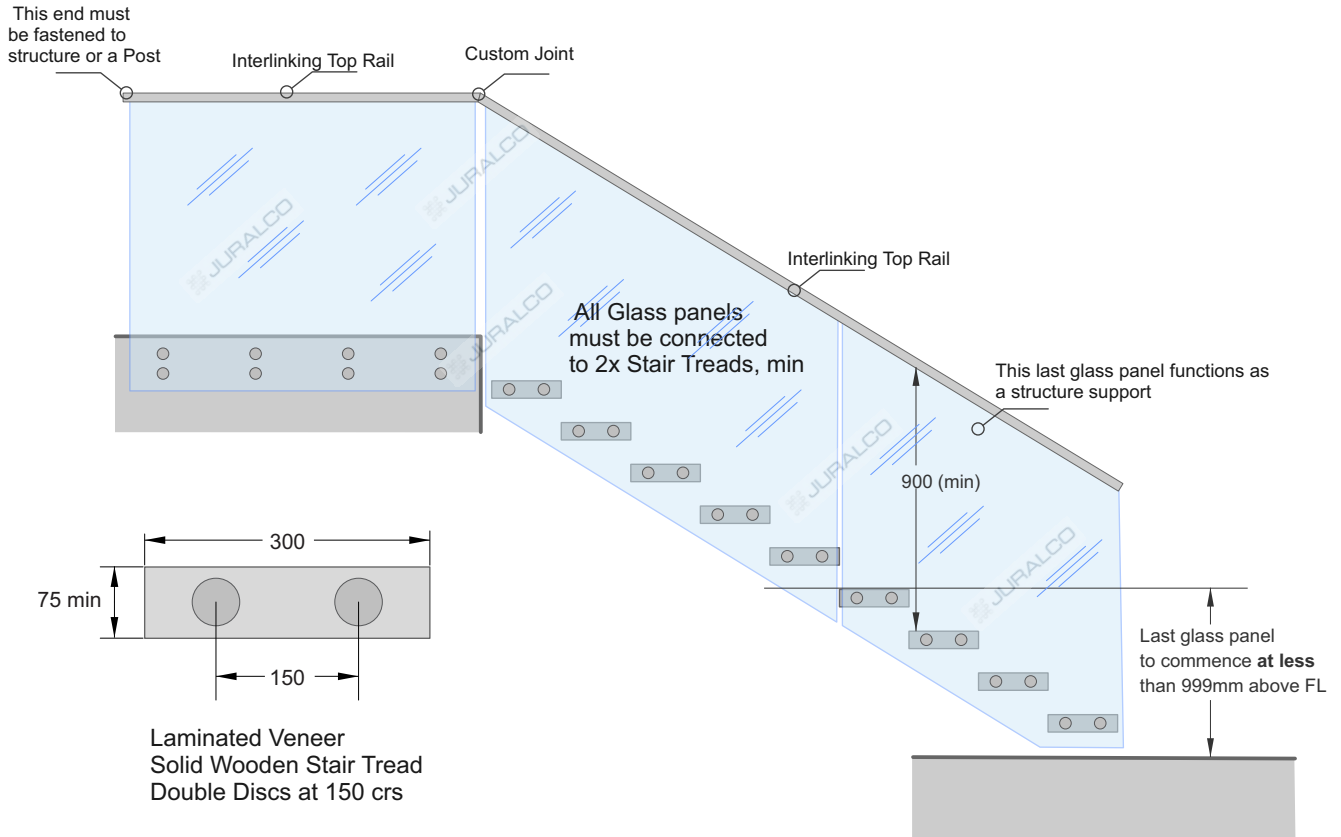


Assembly - must use Loctite on both threads.

# Juralco Edgetec® Double Disc Anchor Balustrade System - Typical Stair Layout

## Double Disc Balustrade

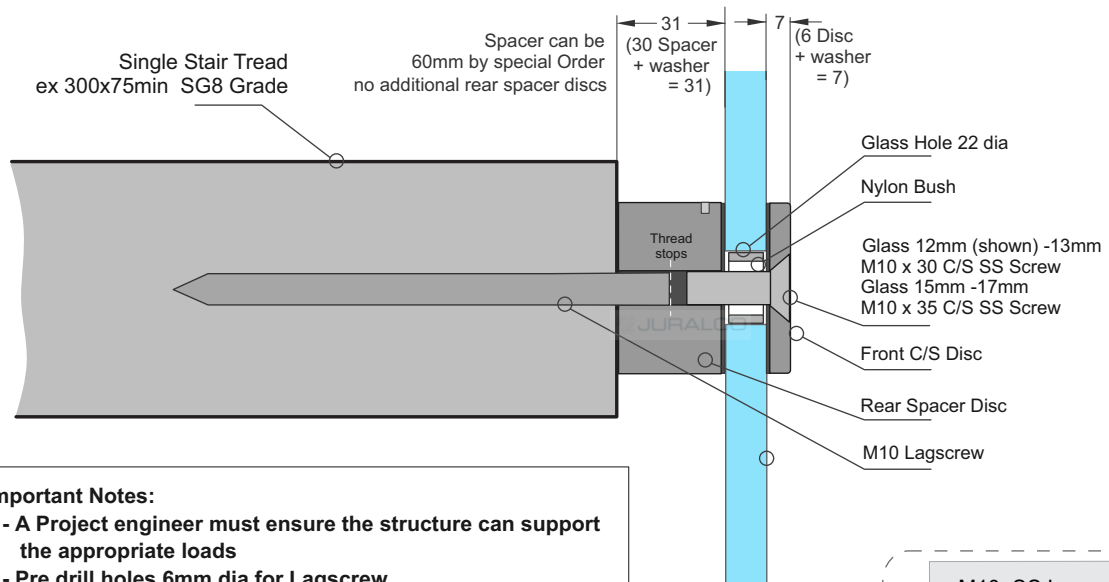
Typical Stair 300mm tread, 180mm step.  
 Level portion - Screw fixings into Single or Double Joists/Stiffeners, Concrete or Steel  
 Stair - Timber for Stairs, Laminated Veneer lumber, 300 x 75mm min. M10 Lagscrews + SIKA Supergrip30



## Double Disc Balustrade Stair Tread Detail

### C/S Fastener shown, Hidden fixing available

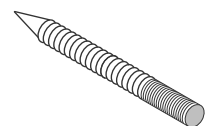
Stair structure to be designed by others to resist Balustrade actions as per NZS1170.1 Table 3.3



### Important Notes:

- 1 - A Project engineer must ensure the structure can support the appropriate loads
- 2 - Pre drill holes 6mm dia for Lagscrew .  
 If End Grain ensure there is no Splitting
- 3 - Stair Timber, Laminated Veneer
- 4 - Lagscrew 160mm min screw engagement into Tread
- 5 - Bond all Lagscrews with SIKA Supergrip30 to full depth
- 6 - All fixings must be Stainless Steel

M10 SS Lagscrew



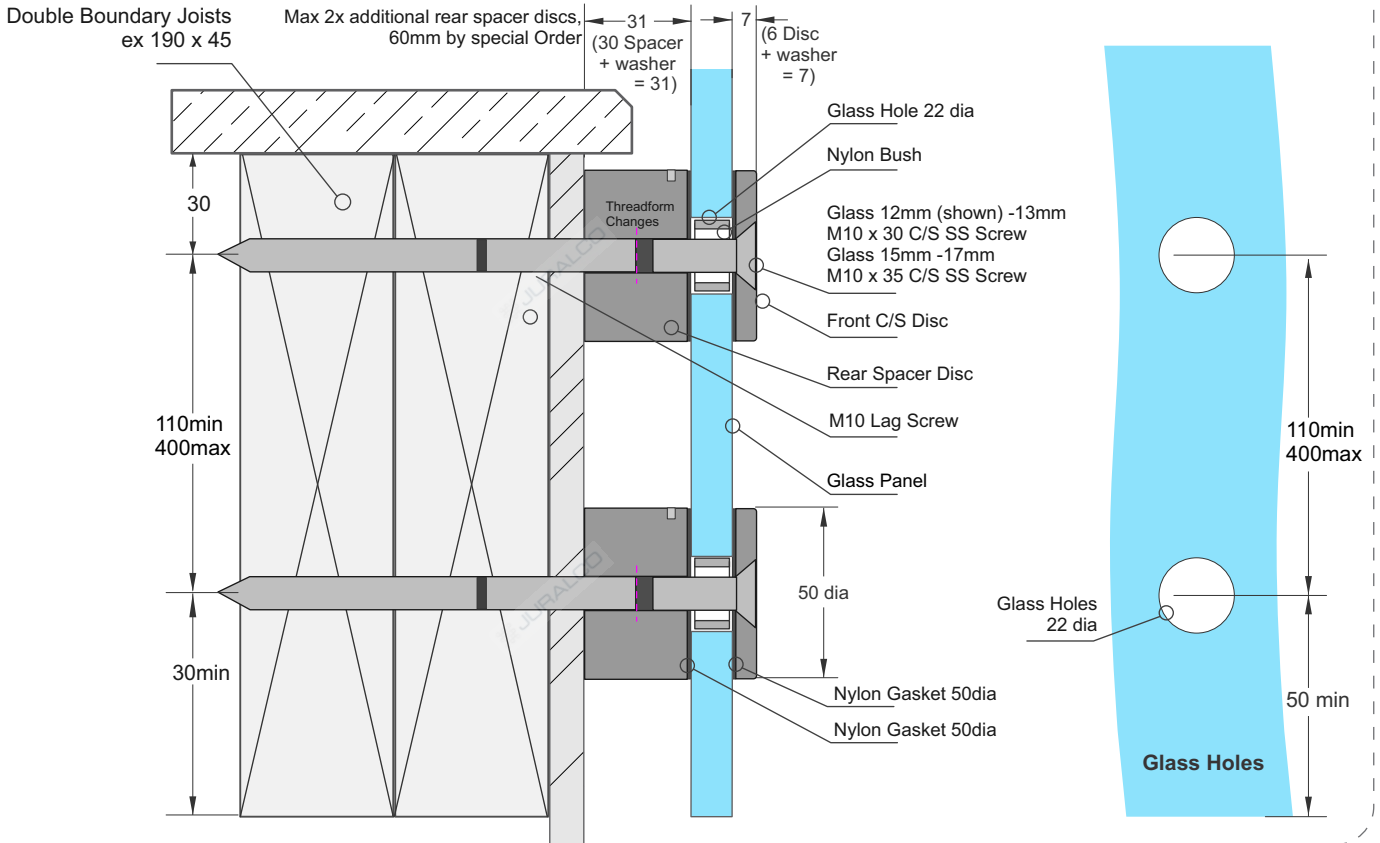


# Juralco Edgetec® Double Disc Anchor Balustrade System - Typical Fixings

## Countersunk Screw Double Disc

### Important Notes:

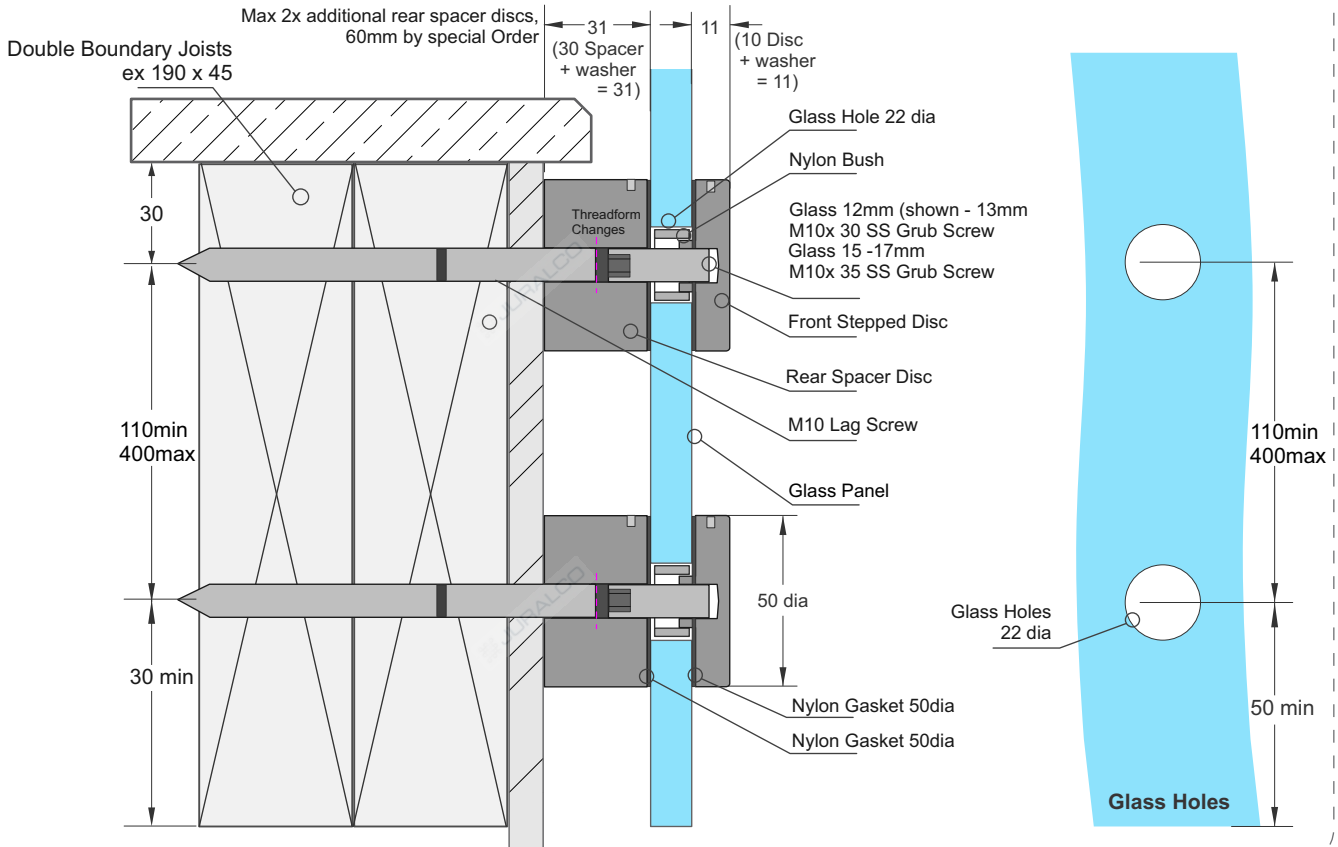
- The Rear Spacer Disc is threaded to halfway from both sides. ie max engagement is 15mm
- **Assembly** - must use Loctite on both threads. Max Lagscrew proud of timber = 14mm



## Hidden Double Disc

### Important Notes:

- The Rear Spacer Disc is threaded to halfway from both sides. ie max engagement is 15mm
- **Assembly** - must use Loctite on both threads. Max Lagscrew proud of timber = 14mm



## Juralco Edgetec® Double Disc Anchor Balustrade System - Components

### Double Disc Countersunk Screw Fix

Countersunk screw fixing  
316SS Only

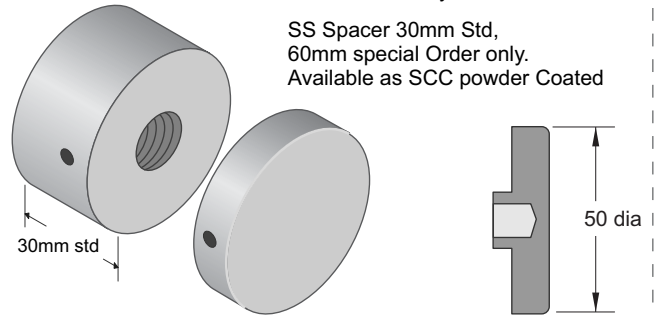


Double Disc, M10 countersink screw and Nylon gaskets supplied as a kit

Polished finish 316 SS  
JETPS50/S30/PSS  
Satin finish 316 SS  
JETPS50/S30/SSS  
SS Spacer 30mm Std,  
60mm special Order only.  
Available as SCC powder Coated

### Double Disc Hidden Screw Fix

Hidden fixing  
316SS or Aluminium

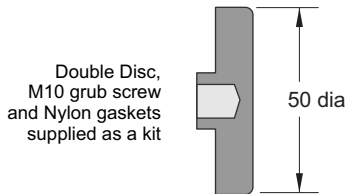


Double Disc, M10 grub screw and Nylon gaskets supplied as a kit

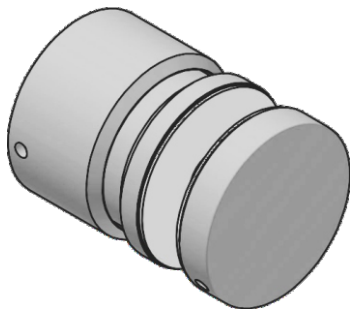
Polished finish 316 SS  
JET50/T30/Body/PSS  
Satin finish 316 SS  
JET50/T30/Body/SSS  
Powder coated Aluminium  
JET50/T30/Body/SCC  
SS Spacer 30mm Std,  
60mm special Order only.  
Available as SCC powder Coated

### Double Disc Hidden Screw Fix, Adjustable

Adjustable Hidden fixing  
Aluminium only



Double Disc,  
M10 grub screw  
and Nylon gaskets  
supplied as a kit

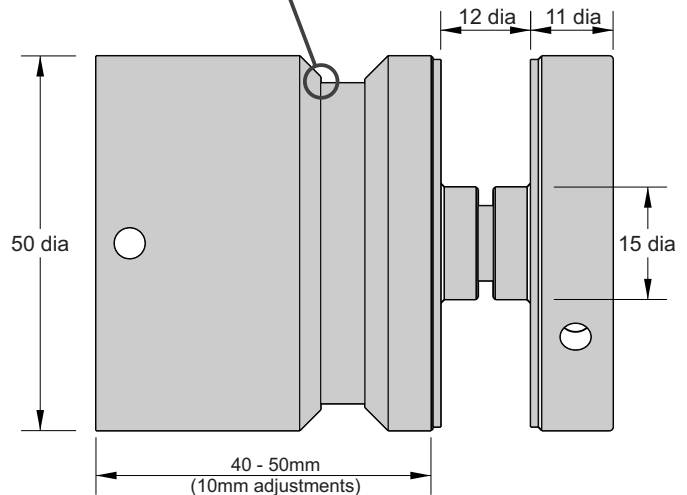


Powder coated Aluminium  
JET50/AT45/SCC  
Glass 12mm to 17.52mm glass  
M10 mounting with lag screw  
or threaded rod

Aluminium - Simulated Stainless Steel 20 microns anodised  
JET50/AT45/SSS20M

Adjustable Disc grub screws  
M10x25 for 12 - 13.52mm Glass  
M10x30 for 15 - 17.52mm Glass

Do not extend the adjustable mounting  
beyond the 10mm indentation ring.  
This should not be visible.



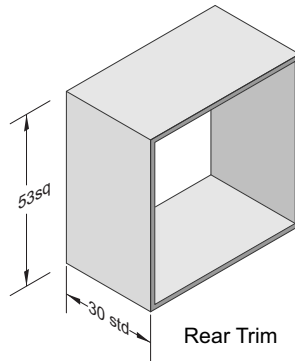
### Installation Notes for the Adjustable Double Discs - JET50/AT45

1. Fix the outer bodies to the structure.
2. Thread the inner body all the way in the outer body to 40mm.  
**Do not extend the adjustable mounting beyond the 10mm indentation ring. This should not be visible.**  
Leave the inner body slightly loose to avoid the threads binding up. At the same time put the glass mount bush on the inner body.
3. Wind the bottom side inner bodies on the either end of the panel to the desired offset presetting them to 45mm allows for adjustment in both directions if glass needs leveling.
4. Position the panel of glass over the inner bodies and put the mounting caps on the 2 preset discs.  
Tighten the mounting caps so the glass sits steady in the adjustable discs.
5. Check the level of the glass.
6. Tension the remaining inner bodies against the glass. This is done by using the Allen key in the centre of the inner body, which is accessed through the cutout in the glass. Doing this stops the inner bodies spinning with the mounting cap when they are installed. Adjustments can be made here to ensure the glass is level.
7. Add the remaining mounting caps, and do a final tighten of all the mounting caps.

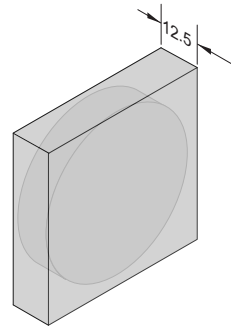
# Juralco Edgetec® Double Disc Anchor Balustrade System - Components

## Double Disc Square Cover Kit JET50/SCK

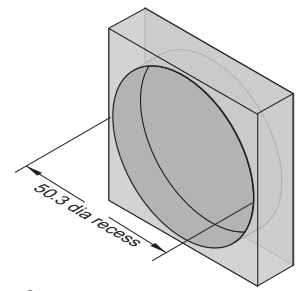
Aluminium Sq cover as SCC only  
Use Silicone to attach Rear Trim and Front Cover in place.  
Rear Trim 30mm deep only



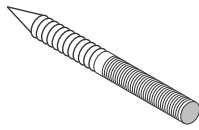
Rear Trim



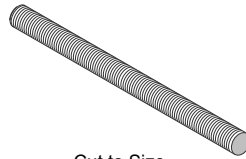
Front Cover



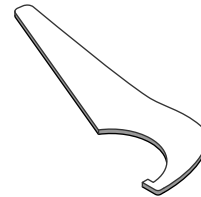
## M10 SS Lagscrew



## M10 SS Threaded Rod



## SS Pin Spanner JETS/50/Tool



## M10 C/S SS Machine Screw

Supplied as part of JET50/S/T30 kit



M10x25 for 12-13mm glass  
M10x30 for 15-17mm glass

## M10 SS Grub Screw

Supplied as part of JETS50/S/T30 kit



M10x30 for 12 - 13mm glass  
M10x35 for 15 - 17mm glass

## M10 SS Grub Screw

Supplied as part of JETS50/AT45 kit



M10x25 for 12 - 13.52mm glass  
M10x30 for 15 - 17.52mm glass

## Edgetec Nylon Bush JET/JH165 BUSH

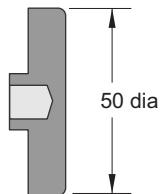
Supplied as part of Double Disc kits



## M10 SS Hex Nut JET/HEXNUT/M10SS



## Hidden Screw Fix Cap



Available in SSS, PSS and SCC

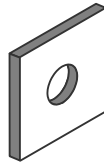
JET50/T/10CAP/SSS  
JET50/T/10CAP/PSS  
JET50/T/10CAP/SCC

## M10 SS Spacer JET50/6/SPACER/PSS



50dia x 6 Polished SS

## M10 SS Washer JETSQWSH/50x50x3



50sq x 3

## M10 SS Washer JET/WASH/10x21



21dia x 2.5

## M10 Nylon Gasket JET50/NG10



50dia x10mm hole 1.1mm Black

## M10 Nylon Washer JET/50NB20



50dia x 0.8 LDPE Internal only

## M10 SS Spacer JET50/6/SPACER/SS



50dia x 6 Satin SS

## M10 EPDM Spacer Washer JVB126



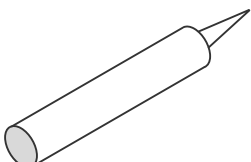
38dia x 3.0

## M10 Nylon Gasket JET50/NG13



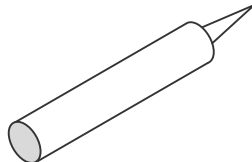
50dia x13mm hole 1.1mm Black JET50/NG13

## Rhodorsil V60 Clear Silicone H/RTV419098



Construction Silicone

## SIKA Supergrip JECSUPERGRIP30



For All Coachscrews fixings

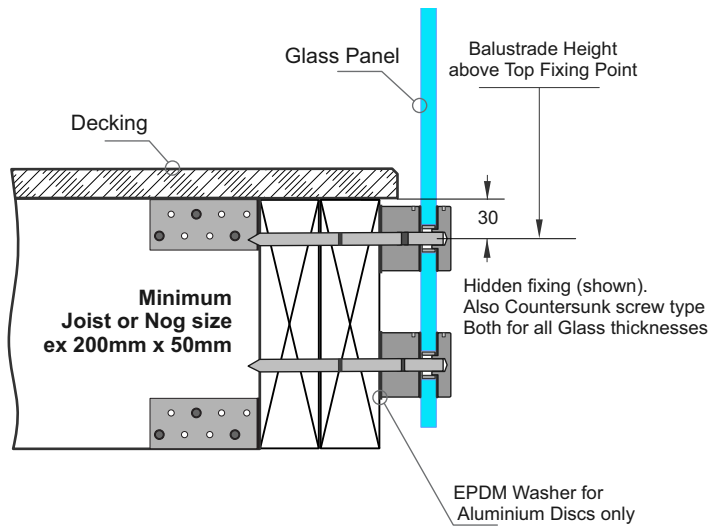
**Juralco Edgetec® Double Disc Anchor Balustrade System**  
**Typical Fixing - Residential, Commercial or Pool**  
**Complies with NZS3604:2011 - Double Boundary Joists**

**Typical FACE Fix to Timber - M10 SS Lagscrews**

Up to and including Very High Wind Zones Residential. Occupancy A,A Other and C3			Up to and including Extra High Wind Zones Commercial. Occupancy B,E and C3		
Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		
Occupancy A, A Other, B, E and C3. 0.75kN/m					

Up to and including High Wind Zone Pool Fence only			Up to and including Extra High Wind Zone Pool Fence only		
Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T,15.2L	1250	400	15T,17.2L	1250	400

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

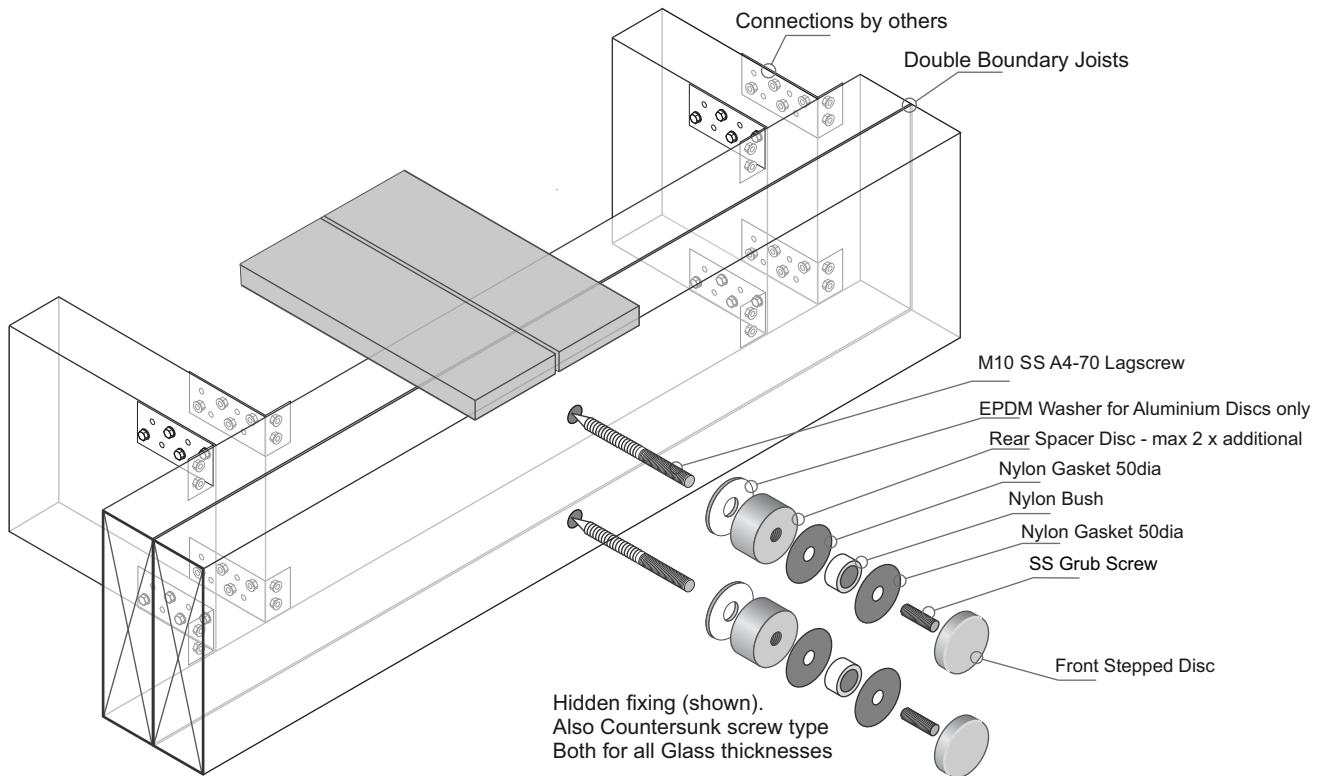


**General Notes:**

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths

**Important Installation notes:**

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



**Juralco Edgetec® Double Disc Anchor Balustrade System**  
**Typical Fixing - Residential, Commercial or Pool**  
**Complies with NZS3604:2011 - Double Boundary Joists**

**Typical FACE Fix to Timber - M10 SS Threaded Rod**

<b>Up to and including Very High Wind Zones</b> Residential. Occupancy A,A Other and C3	<b>Up to and including Extra High Wind Zones</b> Commercial. Occupancy B,E and C3
--------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------

Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		

Occupancy A, A Other, B, E and C3. 0.75kN/m

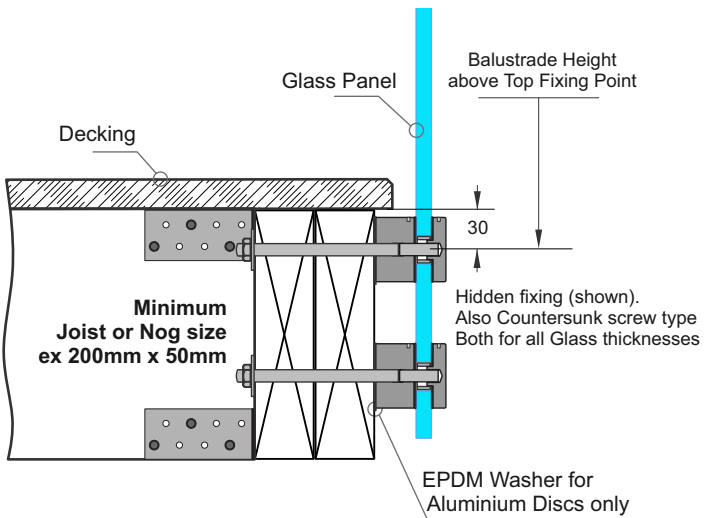
<b>Up to and including High Wind Zone</b> Pool Fence only	<b>Up to and including Extra High Wind Zone</b> Pool Fence only
--------------------------------------------------------------	--------------------------------------------------------------------

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

Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T,15.2L	1250	400	15T,17.2L	1250	400

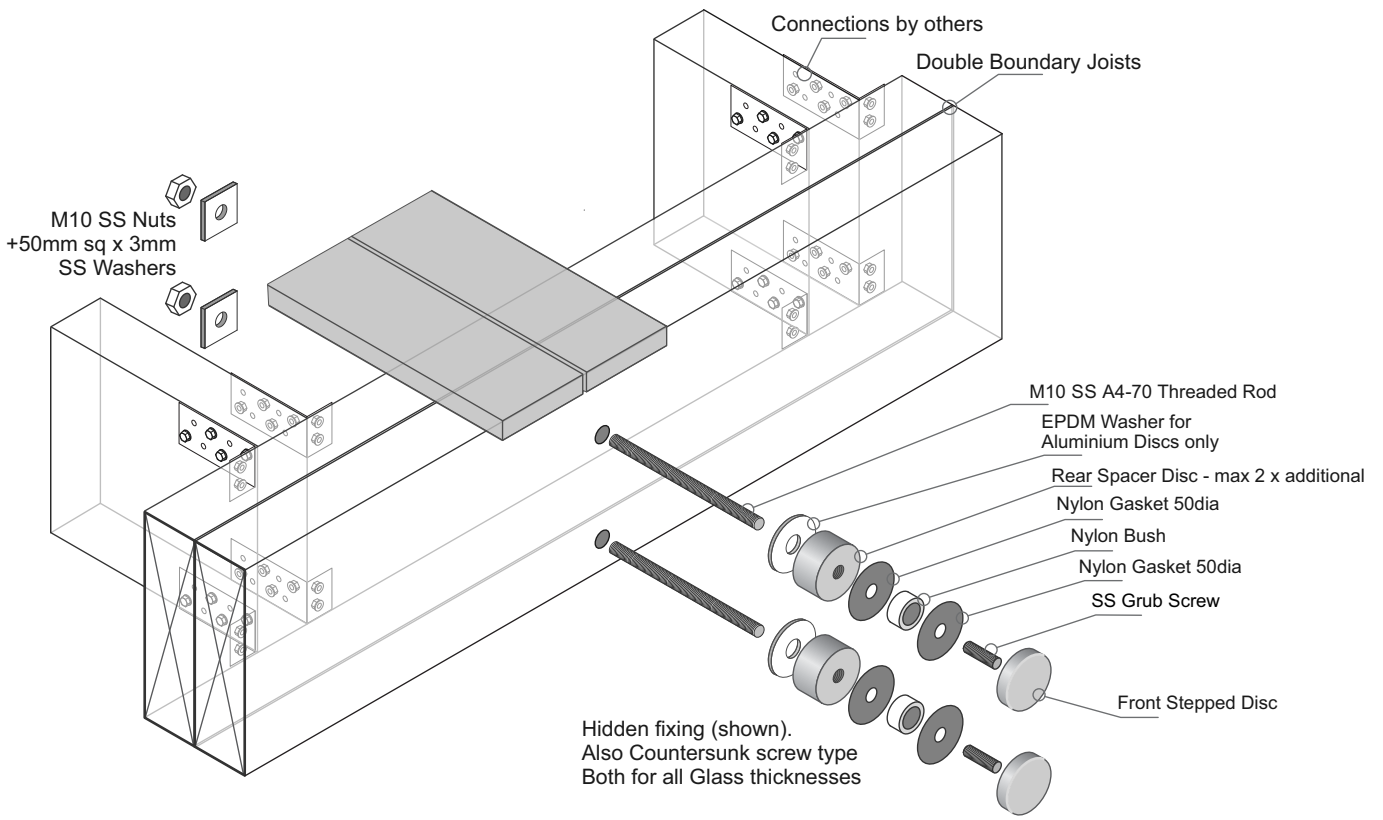
**General Notes:**

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths



**Important Installation notes:**

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



# Juralco Edgetec® Double Disc Anchor Balustrade System Typical Fixing - Residential, Commercial or Pool

## Typical FACE Fix to Steel - M10 SS Threaded Rod

<b>Up to and including Very High Wind Zones</b> Residential. Occupancy A, A Other and C3	<b>Up to and including Extra High Wind Zones</b> Commercial. Occupancy B, E and C3
---------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		

Occupancy A, A Other, B, E and C3. 0.75kN/m

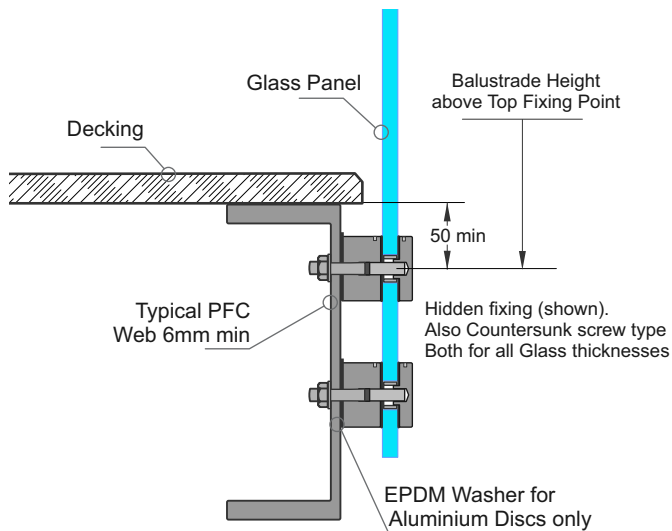
<b>Up to and including High Wind Zone</b> Pool Fence only	<b>Up to and including Extra High Wind Zone</b> Pool Fence only
--------------------------------------------------------------	--------------------------------------------------------------------

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

Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T,15.2L	1250	400	15T,17.2L	1250	400

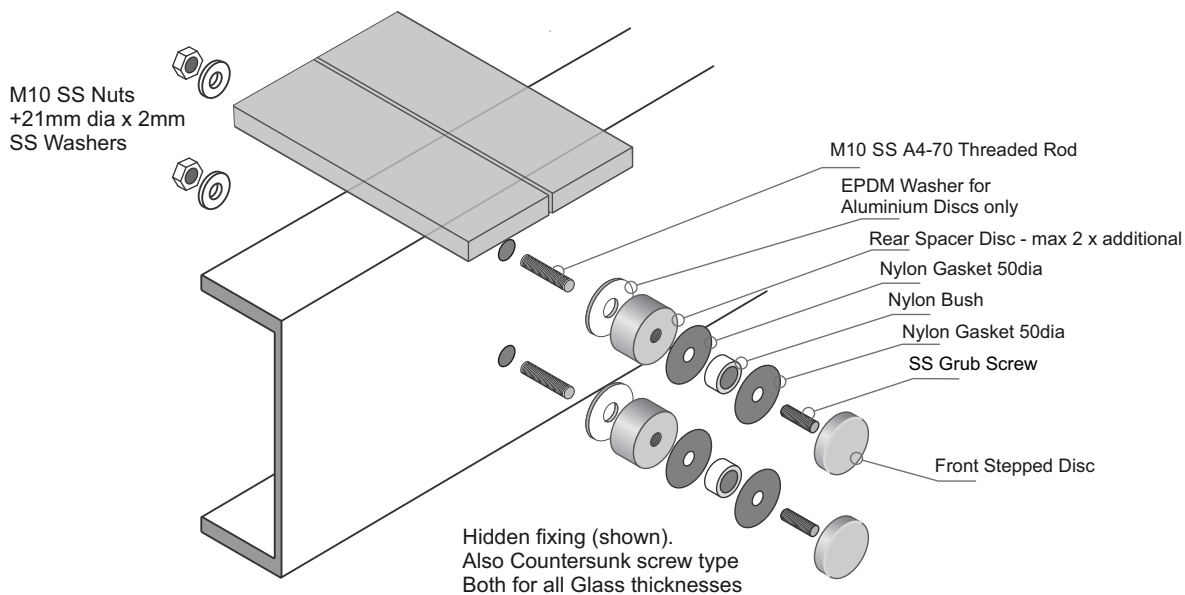
**General Notes:**

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths



**Important Installation Notes:**

- 1 - A Project engineer must ensure the structure can support the appropriate loads
- 2 - All fixings must be Stainless Steel



# Juralco Edgetec® Double Disc Anchor Balustrade System Typical Fixing - Residential, Commercial or Pool

## Typical FACE Fix to Steel - M10 SS Threaded Rod + Tapped Hole

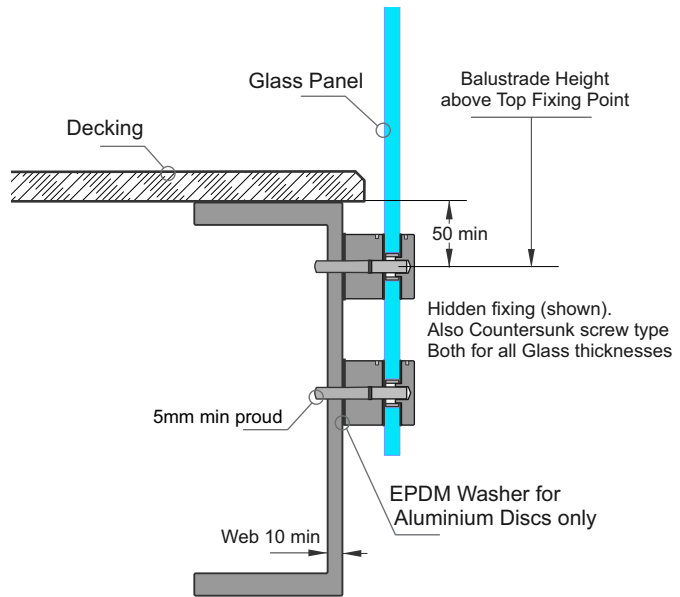
Up to and including Very High Wind Zones Residential. Occupancy A, A Other and C3			Up to and including Extra High Wind Zones Commercial. Occupancy B, E and C3		
Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		
Occupancy A, A Other, B, E and C3. 0.75kN/m					

Up to and including High Wind Zone Pool Fence only			Up to and including Extra High Wind Zone Pool Fence only		
Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T, 15.2L	1250	400	15T, 17.2L	1250	400

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

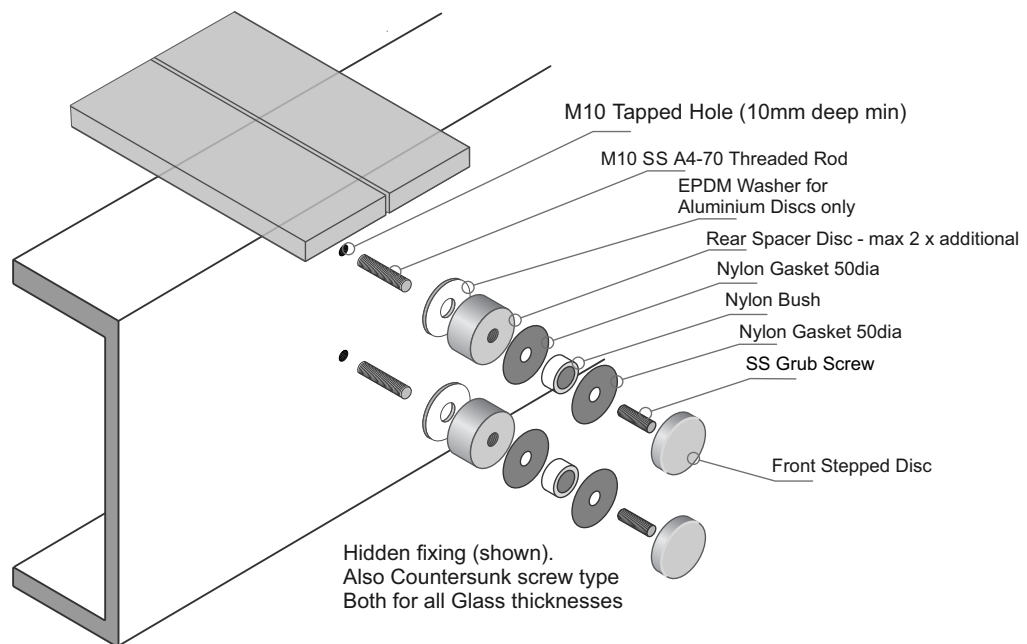
**General Notes:**

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths



**Important Installation Notes:**

- 1 - A Project engineer must ensure the structure can support the appropriate loads
- 2 - Thread engagement into Web 10mm min
- 3 - All fixings must be Stainless Steel

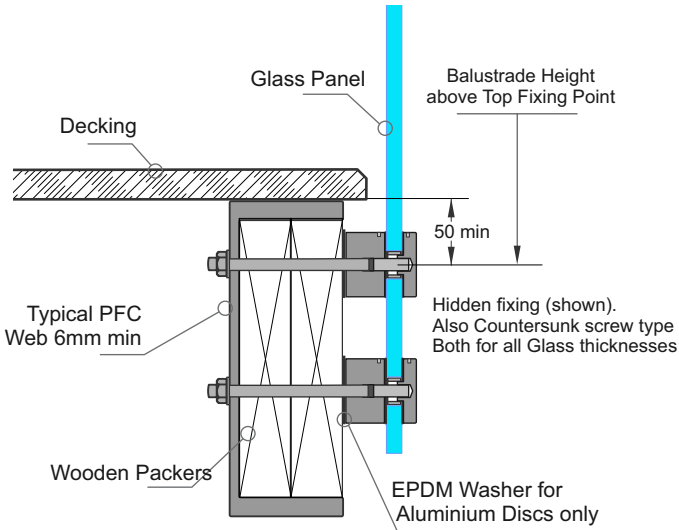


# Juralco Edgetec® Double Disc Anchor Balustrade System Typical Fixing - Residential, Commercial or Pool

## Typical FACE Fix to Steel, Wooden Packer - M10 SS Threaded Rod

Up to and including Very High Wind Zones Residential. Occupancy A,A Other and C3			Up to and including Extra High Wind Zones Commercial. Occupancy B,E and C3		
Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		
Occupancy A, A Other, B, E and C3. 0.75kN/m					

Up to and including High Wind Zone Pool Fence only			Up to and including Extra High Wind Zone Pool Fence only		
Applies to Pool Fences not protecting a fall of 1.0m or more					
Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T,15.2L	1250	400	15T,17.2L	1250	400

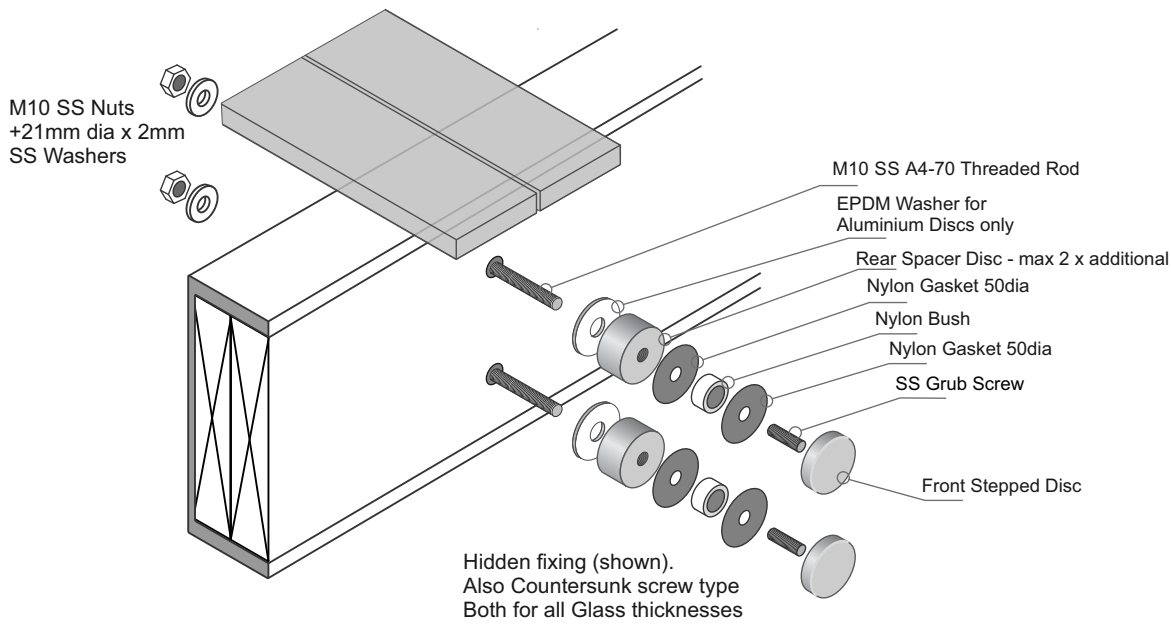


**General Notes:**

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths

**Important Installation Notes:**

- 1 - A Project engineer must ensure the structure can support the appropriate loads
- 2 - All fixings must be Stainless Steel
- 3 - Any Cladding/Facing between discs and the Steelwork must have a bearing strength greater than wet MSG8





# Juralco Edgetec® Double Disc Anchor Balustrade System Typical Fixing - Residential, Commercial or Pool

## Typical FACE Fix to Concrete - M10 SS Threaded Rod

<b>Up to and including Very High Wind Zones</b> Residential. Occupancy A, A Other and C3	<b>Up to and including Extra High Wind Zones</b> Commercial. Occupancy B, E and C3
---------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------

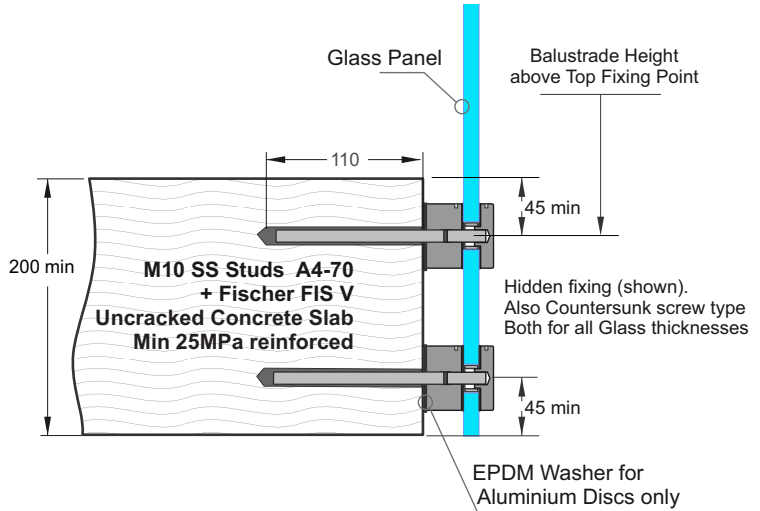
Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		

Occupancy A, A Other, B, E and C3. 0.75kN/m

<b>Up to and including High Wind Zone</b> Pool Fence only	<b>Up to and including Extra High Wind Zone</b> Pool Fence only
--------------------------------------------------------------	--------------------------------------------------------------------

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

Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T,15.2L	1250	400	15T,17.2L	1250	400



- General Notes:**
- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
  - 2 - All measurements mm
  - 3 - Balustrade Height, above Top Fixing Point
  - 4 - Refer to Elevations for Min/Max Panel widths



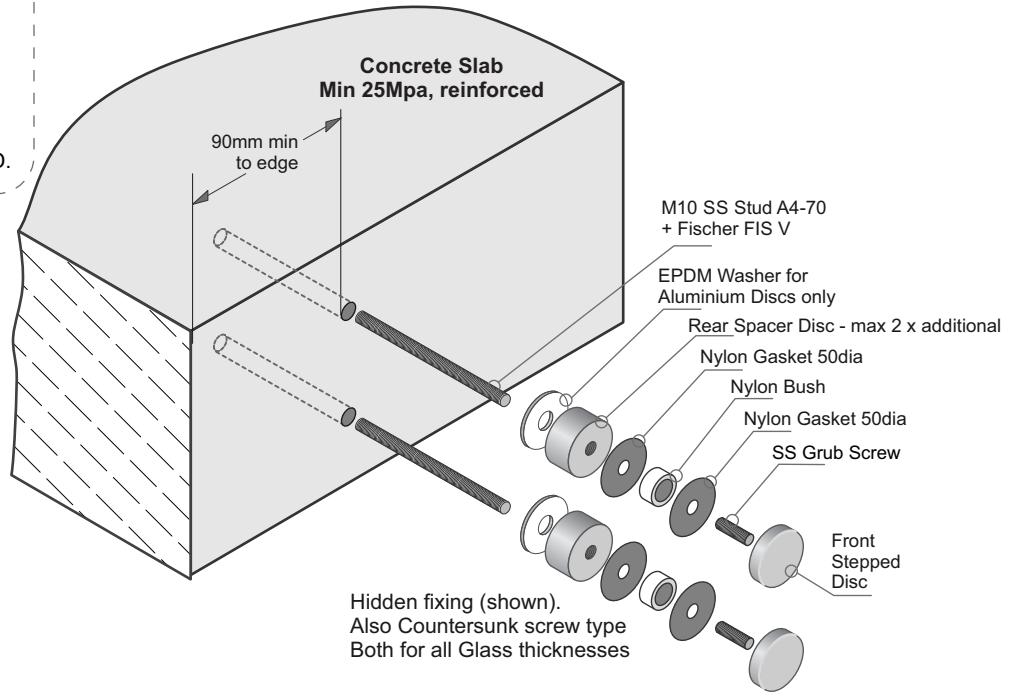
**Installation details Fischer FIS V 300T**

Thread diameter      M10  
 Drill hole diameter    = 12 mm  
 Drill hole depth        = 120 mm  
 Anchorage depth       = 110 mm

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

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

- Important Installation Notes:**
- 1 - A Project engineer must ensure the structure can support the appropriate loads
  - 2 - All fixings must engage into the structural slab.
  - 3 - All fixings must be Stainless Steel



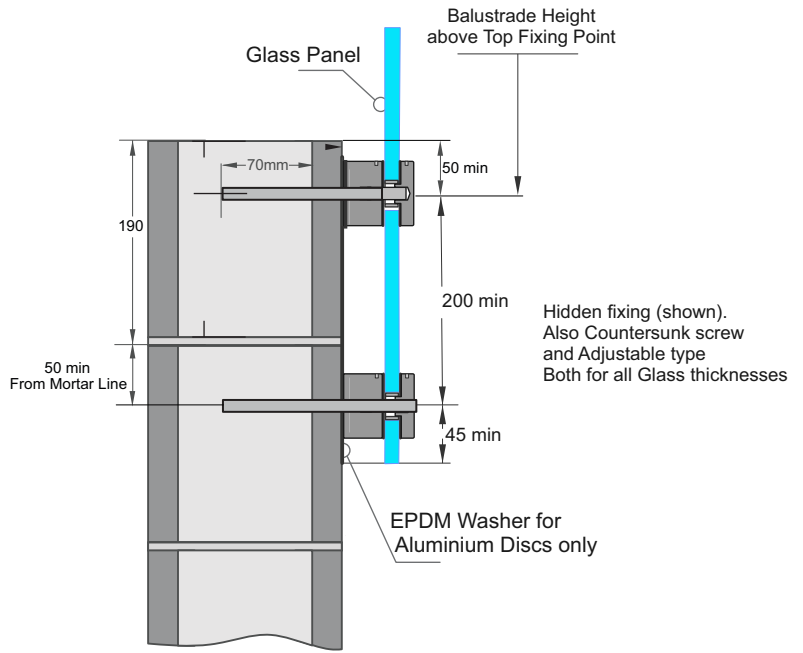
# Juralco Edgetec® Double Disc Anchor Balustrade System Typical Fixing - Residential, Commercial or Pool

## Typical FACE Fix to Blockwall - M10 SS Threaded Rod

Up to and including Very High Wind Zones Occupancy A, A Other and C3			Up to and including Extra High Wind Zones Occupancy A, A Other, B, E and C3		
Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Balustrade Height (max)	Disc Horiz Spacing (max)
12 T	1150	400	15 T	1250	400
15.2L			17.2L		
13.52SG			17.52SG		
Occupancy A, A Other, B, E and C3. 0.75kN/m					

Up to and including High Wind Zone Pool Fence only			Up to and including Extra High Wind Zone Pool Fence only		
Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)	Glass Thickness, Type	Fence Height (max)	Disc Horiz Spacing (max)
12T, 15.2L	1250	400	15T, 17.2L	1250	400

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



### General Notes:

- 1 - Glass thickness mm  
Glass type T= Toughened, L = Laminated  
SG = SentryGlas
- 2 - All measurements mm
- 3 - Balustrade Height, above Top Fixing Point
- 4 - Refer to Elevations for Min/Max Panel widths



### Installation details Hilti RE-500 V4

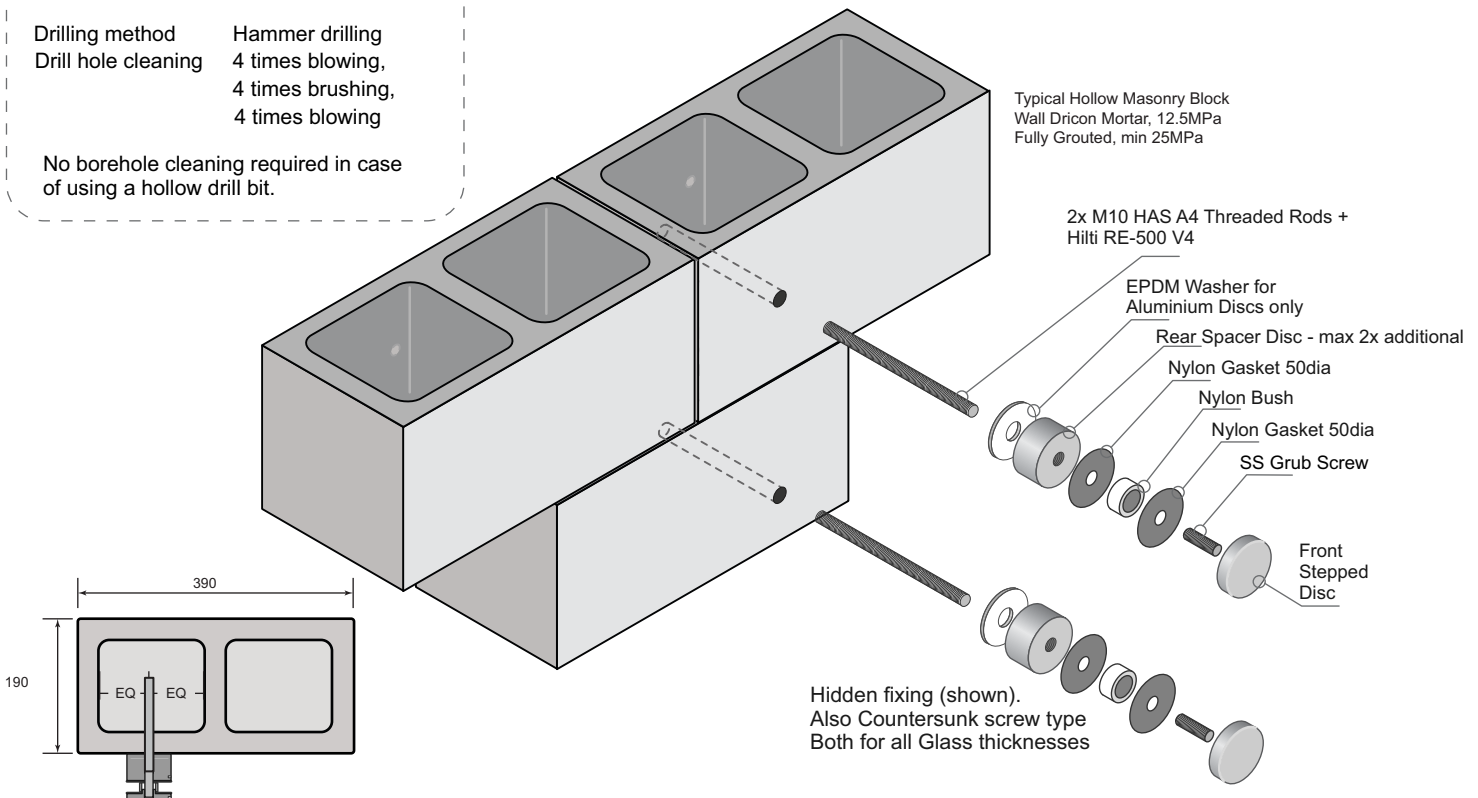
Thread diameter M10  
Drill hole diameter = 12 mm  
Drill hole depth = 80mm  
Anchorage depth = 70mm

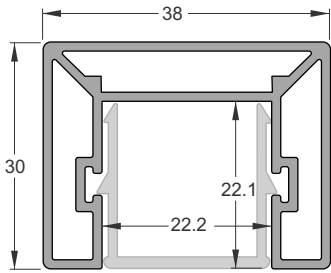
Drilling method Hammer drilling  
Drill hole cleaning 4 times blowing,  
4 times brushing,  
4 times blowing

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

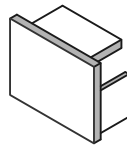
### Important Installation Notes:

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

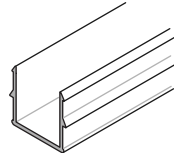




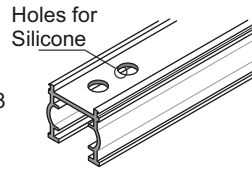
Rectangular Interlinking Top Rail  
Part No JET/220/5.8  
Also showing Infill Clip, for use in between Glass Panels



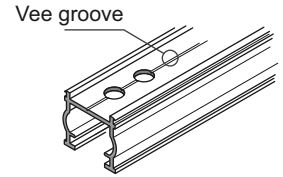
Interlinking Top Rail End Cap  
Part No JET 37



Infill Clip  
Part No JET/215/5.8



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



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

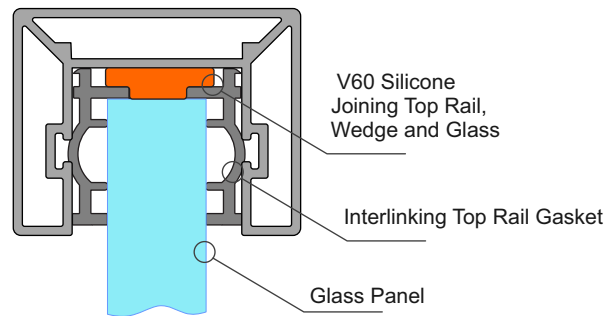
**1 - 12, 15mm Glass and Gasket**

Application Notes:

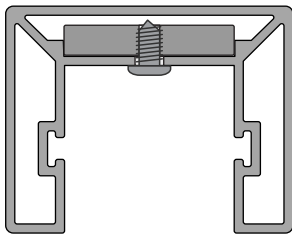
- Cut short lengths of Gasket (50mm) and place say every 700mm.
- Cut/adjust Interlinking rail to correct dimensions, test in place.
- Remove all, install full cut lengths of Gasket to glass top edge
- Assemble Top Rail + Joiners and suitable End plates
- Place blobs of V60 silicone in every Gasket hole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

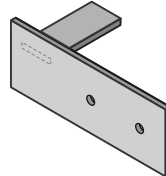
**12mm Glass and Gasket shown**



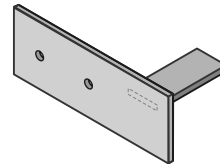
**2 - End Plate Brackets**



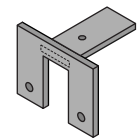
End Plate  
Tabs all 22.5 x 4mm SS.



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

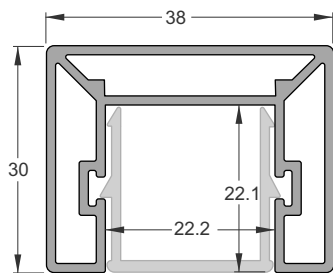
End Plates: (After cutting extrusions to length)

- 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.

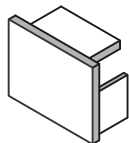
**Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets**

## 38mm Rectangular Interlinking Top Rail

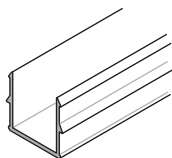
**This Page applies to 15.2mm and 17.2mm Laminated Safety Glass only**



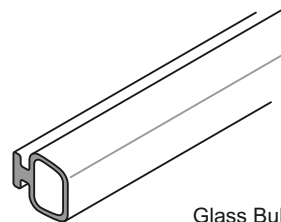
Rectangular Interlinking Top Rail  
JET/220/5.8  
Also showing Infill Clip, for  
use in between Glass Panels



Interlinking Top  
Rail End Cap  
JET 37



Infill Clip  
Part No JET/215/5.8



Glass Bulb Seal  
Part No JET/IB/CVRBLB250

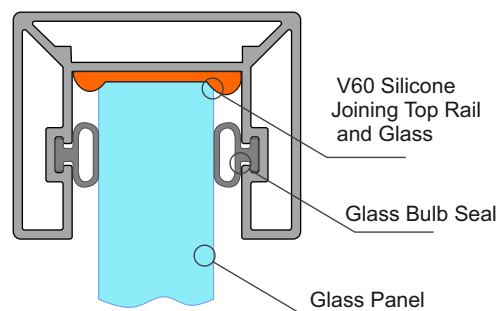
### 1 - 15.2, 17.2mm Glass and Gasket

#### Application Notes:

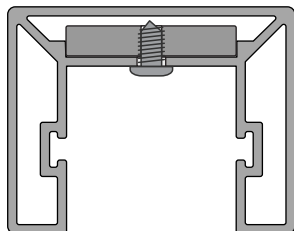
- Assemble Top Rail + Joiners and suitable End plates
- Place Full lengths of Bulb seal in place.
- Place blobs of V60 silicone along top edge of Glass at similar spacings to Gasket on previous page.
- Then place Top Rail extrusion and bulb seals firmly onto Glass.
- Tape all down, wait 24 hrs to fully bond. Clean up.

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

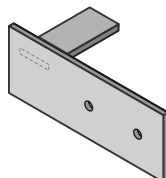
#### 15.2mm Glass and Gasket shown



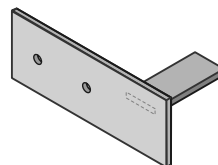
### 2 - End Plate Brackets



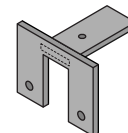
End Plate  
Tabs all 22.5 x 4mm SS.



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

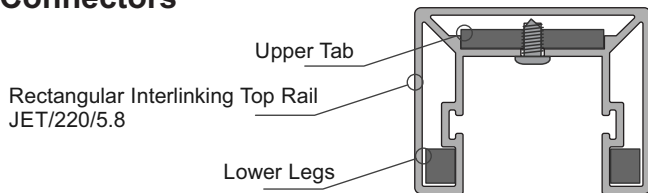
End Plates: (After cutting extrusions to length)

- 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.

**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**

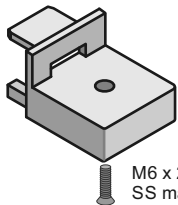
# 38mm Rectangular Interlinking Top Rail - Corner Connectors and Joiners

## 1 - Connectors



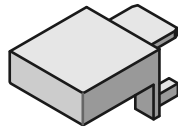
- Swivel Kits: (After cutting extrusions to length)
- With Swivel in place, spot drill from below for position
  - Drill out Swivel to 3mm dia, extrusion to 4mm dia
  - Use No6 x 1/4in SS ST Pan sq drive screws, 2 x ea side of joint
  - Both sides must be attached.
  - Join together with the M6 x 25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

Interlinking Top Rail Horizontal Fixed 90 deg Connector JET 45A

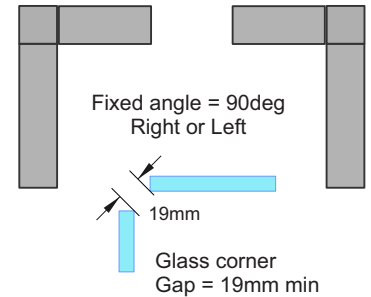
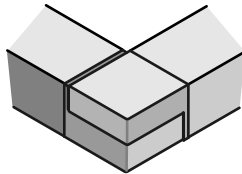


M6 x 25 C/S SS machine screw

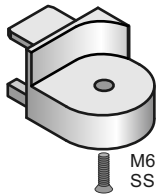
Interlinking Top Rail Horizontal Fixed 90 deg Connector JET 45B



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

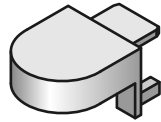


Interlinking Top Rail Horizontal 0 - 90deg Swivel Connector JET 46A

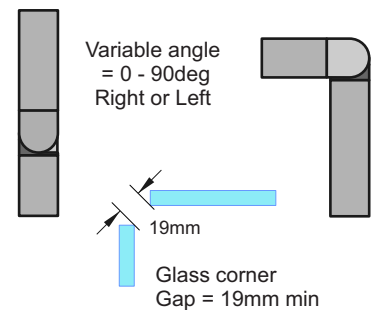
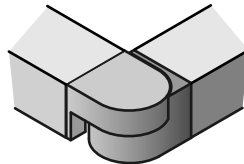


M6 x 25 C/S SS machine screw

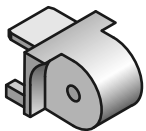
Interlinking Top Rail Horizontal 0 - 90deg Swivel Connector JET 46B



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

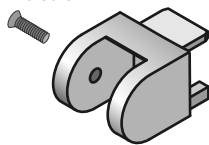


Interlinking Top Rail Vertical 35deg up to 35 deg down Swivel Connector JET 47A

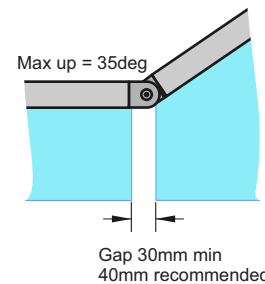
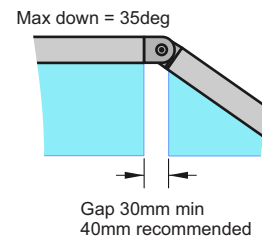
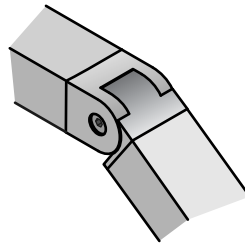


M6 x 25 C/S SS machine screw

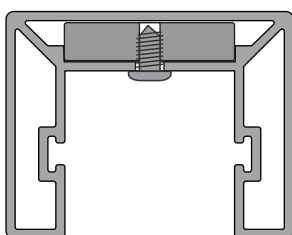
Interlinking Top Rail Vertical 35deg up to 35 deg down Swivel Connector JET 47B



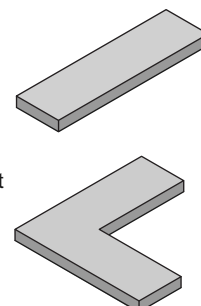
Interlinking Top Rail Vertical 35deg up to 35 deg down. Swivel Connector Kit JET220/Vertical Adj Corner Kit (JET 47A and B + screw)



## 2 - Joiners



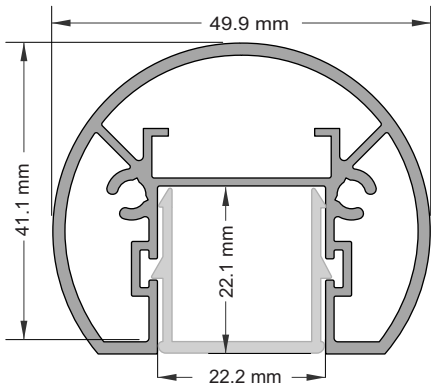
- Joiners: (After cutting extrusions to length)
- With Joiner in place, spot drill from below for position
  - Drill out to joiner to 3mm dia, extrusion to 4mm dia
  - Use No 6 x 1/4in SS ST Pan sq drive screws, 2 x ea side of joint
  - Both ends must be attached.
  - Joins, where required must be at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



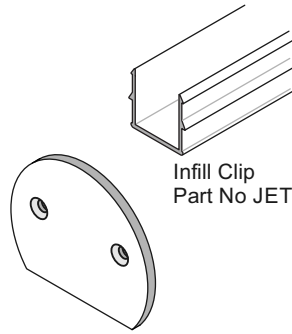
Interlinking Top Rail Straight Joiner 80x22.8x5mm JET 30

Interlinking Top Rail Corner Joiner 75x75x5mm JET 31

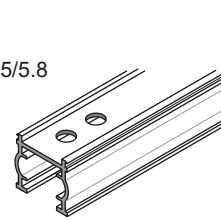
Joiners both 22.5 x 5mm Aluminium



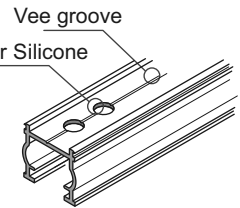
Round Interlinking Top Rail  
Part No JET/211/5.8  
Also showing Infill Clip, for use in between Glass Panels



Round Interlinking Top Rail End Cap  
Part No JET/231



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



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

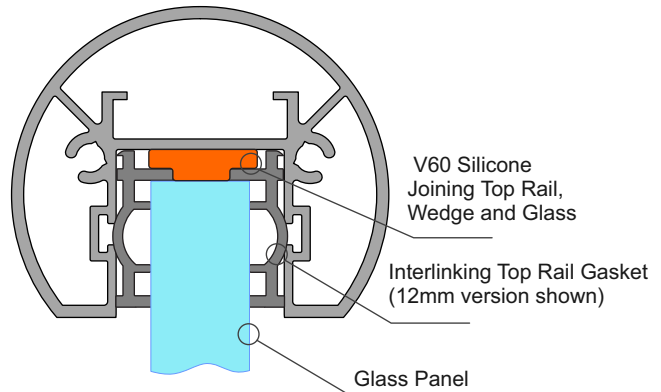
## 1 - 12, 15mm Glass and Gasket

### Application Notes:

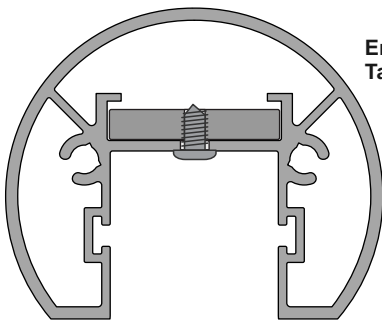
- Cut short lengths of Gasket (50mm) and place say every 700mm.
- Cut/adjust Interlinking rail to correct dimensions, test in place.
- Remove all, install full cut lengths of Gasket to glass top edge
- Assemble Top Rail + Joiners and suitable End plates
- Place blobs of V60 silicone in every Gasket hole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

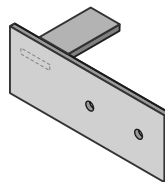
### 12mm Glass and Gasket shown



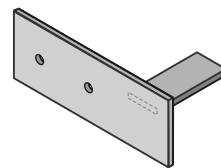
## 2 - End Plate Brackets



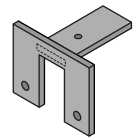
End Plate  
Tabs all 22.5 x 4mm SS.



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



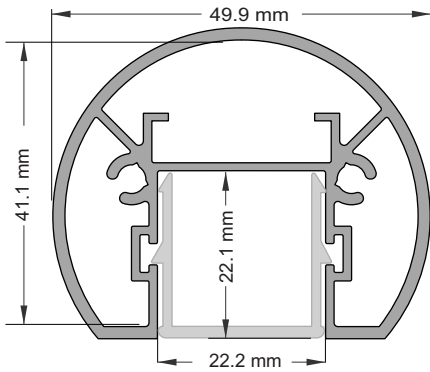
Interlinking Top Rail Wall type End Plate  
SS. 120x45mm  
JET 40RH



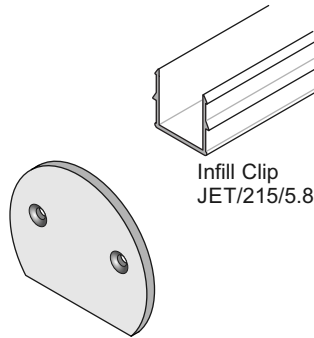
Interlinking Top Rail End Bracket  
SS. 60mm x 46mm  
JET 42

- 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.

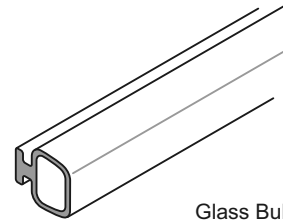
**Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets**



Round Interlinking Top Rail  
JET/211/5.8  
Also showing Infill Clip, for use in between Glass Panels



Round Interlinking Top Rail End Cap  
JET 231



Glass Bulb Seal  
JET/IB/CVRBLB250

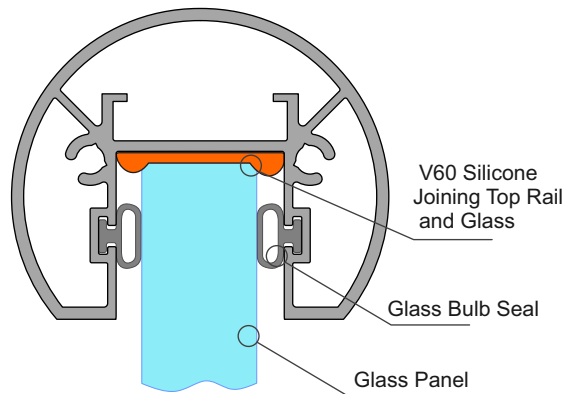
**1 - 15.2, 17.2mm Glass and Gasket**

**15.2mm Glass and Gasket shown**

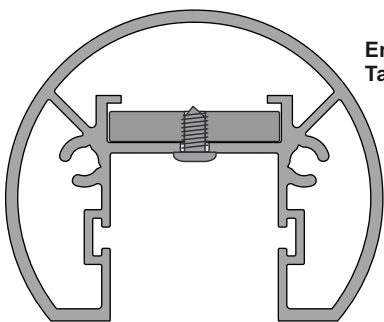
Application Notes:

- Assemble Top Rail + Joiners and suitable End plates
- Place Full lengths of Bulb seal in place.
- Place blobs of V60 silicone along top edge of Glass at similar spacings to Gasket on previous page.
- Then place Top Rail extrusion and bulb seals firmly onto Glass.
- Tape all down, wait 24 hrs to fully bond. Clean up.

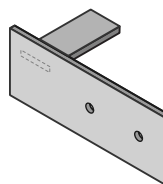
Note: Ends must be attached to structure or post,  
- Joins must have a suitable joiner plate



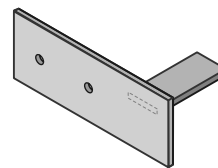
**2 - End Plate Brackets**



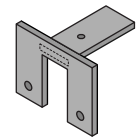
End Plate  
Tabs all 22.5 x 4mm SS.



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



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



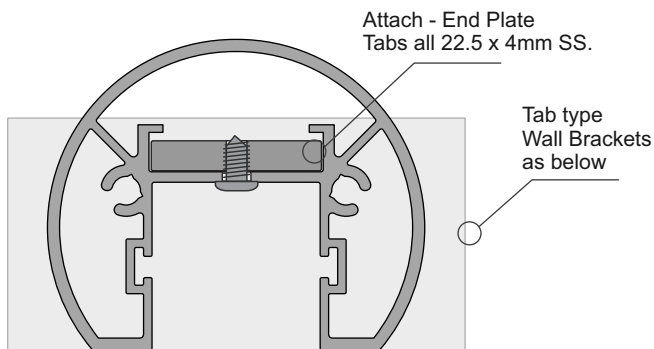
Interlinking Top Rail  
End Bracket  
SS. 60mm x 46mm  
JET 42

- 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.

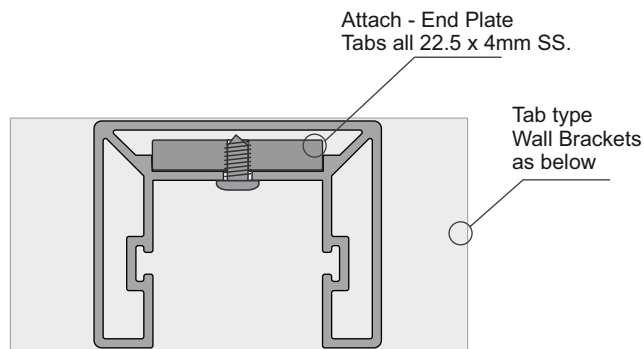
**Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets**

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

Applies to 38mm Rectangular and 50mm Round Interlinking Top Rails only

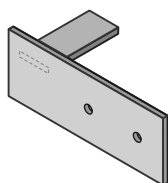


Round Interlinking Top Rail Extrusion  
JET/211/5.8

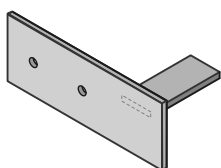


Interlinking Top Rail Extrusion  
JET/220/5.8

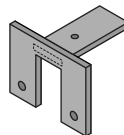
### Interlinking Top Rail End Bracket Options - Both types above - Tab attach Type



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



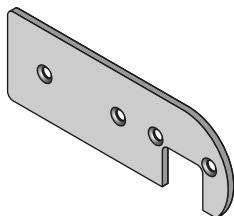
Interlinking Top Rail  
Wall type End Plate  
SS. 120x45mm  
JET 40RH



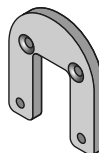
Interlinking Top Rail  
End Bracket  
SS. 60mm x 46mm  
JET 42

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

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



Interlinking Top Rail  
Wall type offset End Plate  
50mm Round Rail type only  
120x42x3mm, Al  
C/s both sides = RH or LH  
JET 233



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

### 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 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

#### Note : Fixing to Juralco EDGE Post

- use 2 off 8g x 25 SS PK Screws

#### Note : Fixing to Concrete Wall

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

**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

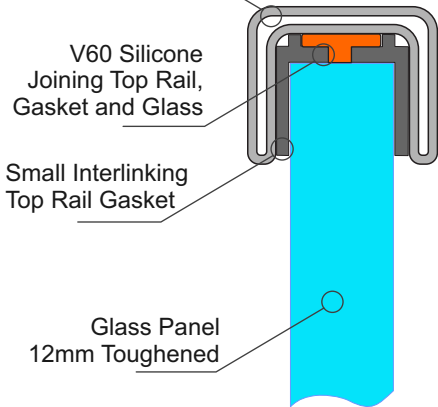
www.juralco.co.nz ph (09) 478 8018

Juralco Edgetec® Double Disc Anchor Balustrade System

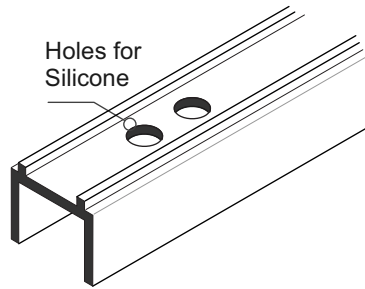
Issue 7-24 v1  
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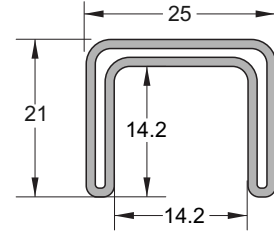
Small SS Interlinking Top Rail



**25mm SS Interlinking Top Rail**



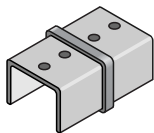
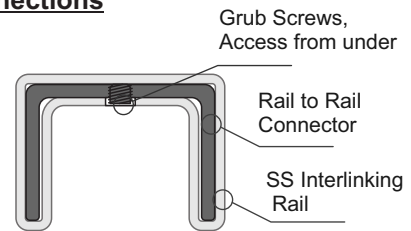
SMALL SS INTERLINKING TOP RAIL GASKET  
JET/490GT/12/2.9 (Black)



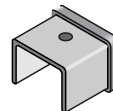
SMALL SS INTERLINKING TOP RAIL  
JET/490/5.8/SSS JET/490/5.8/SCC  
Duplex 2205

**25mm SS Interlinking Rail Connections**

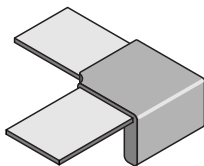
Note : All these Brackets use M5 x 6 SS Grub Screws.  
If necessary these holes must be Drilled + tapped M5, as shown.  
The under side of the Interlinking Rail must be drilled M6 to match M5 tapped holes positions, for access to Grub screws  
- Joins, where required must be at the end of Glass Panels  
Available as Satin(SSS) or Powdercoated SCC finishes



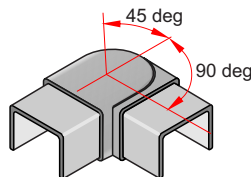
180deg INLINE JOINER  
Duplex 2205  
JET491/SSS JET491/SCC  
21mm x 25mm x 51mm deep



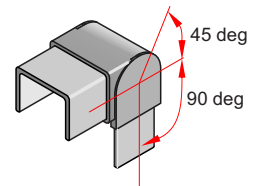
END CAP Duplex 2205  
JET492/SSS JET492/SCC  
21mm x 25mm x 25mm deep



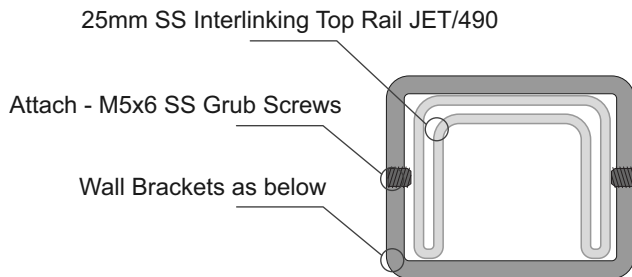
90deg JOINER Duplex 2205  
JET493/SSS JET493/SCC  
21mm x 80mm x 80mm



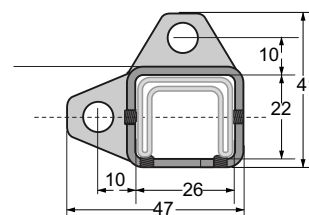
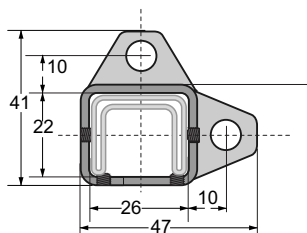
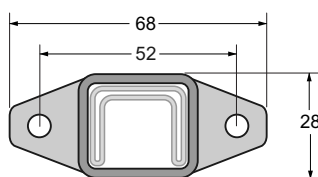
+90 to - 45 deg ADJUSTABLE HORIZONTAL JOINER Duplex 2205  
JET494/SSS JET494/SCC  
21mm x 25mm x 75mm overall deep



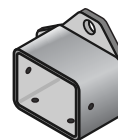
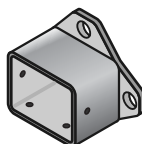
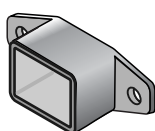
+90 to - 45 deg ADJUSTABLE VERTICAL JOINER Duplex 2205  
JET495/SSS JET495/SCC  
21mm x 25mm x 73mm overall deep



**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 Duplex 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 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

**Note : Fixing to Juralco EDGE Post**

- use 2 off 8g x 25 SS PK Screws

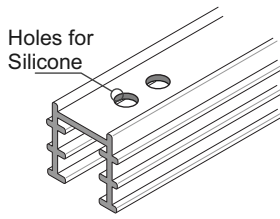
**Note : Fixing to Concrete Wall**

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

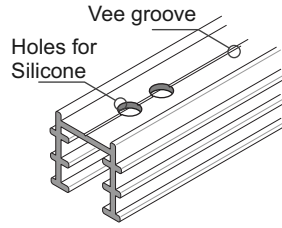
**Important Note: All Interlinking rails, at their ends must be attached to a Building Structure or to an Edge Post attached to the Deck structure, using Rail End Plates/Brackets**

## 40mm SS Interlinking Top Rail

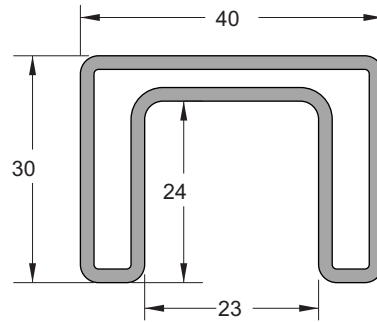
**This page applies to 12mm and 15mm Toughened Glass and 15.2mm and 17.2mm Laminated Glass only**



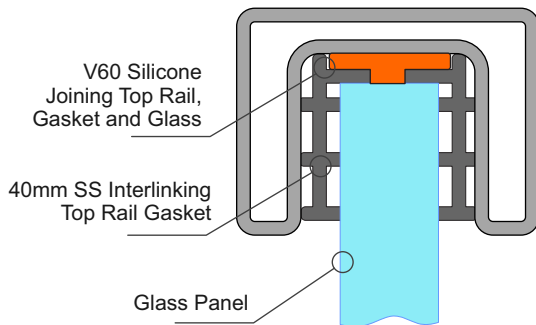
SS Interlinking Top Rail  
12mm Glass Gasket  
JET/430GT/12/2.9



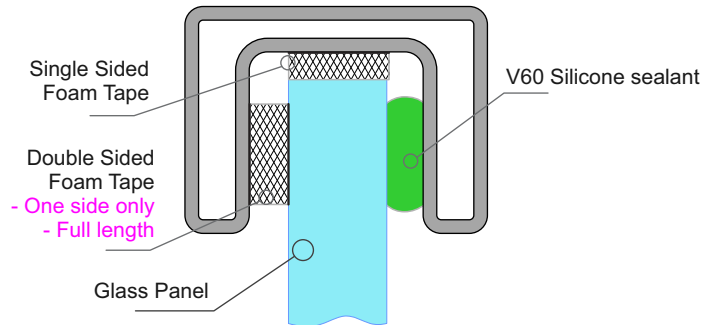
SS Interlinking Top Rail  
15mm Glass Gasket  
JET/430GT/15/2.9



SS INTERLINKING TOP RAIL  
JET/430/PSS/5.8



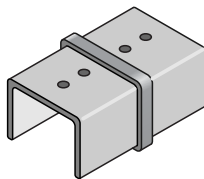
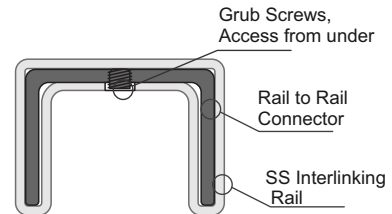
**Use Gasket for 12mm and 15mm Toughened Glass**



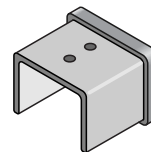
**Use Foam Tape for 15.2mm and 17.2mm Laminated Glass**

## 40mm SS Interlinking Rail Connectors

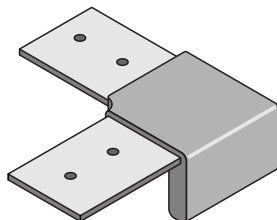
Note : All these Brackets use M5 x 6 SS Grub Screws.  
If necessary these holes must be Drilled + tapped M5, as shown.  
The under side of the Interlinking Rail must be drilled M6/7 to match M5 tapped holes positions, for access to Grub screws  
- Joins, where required must be at the end of Glass Panels



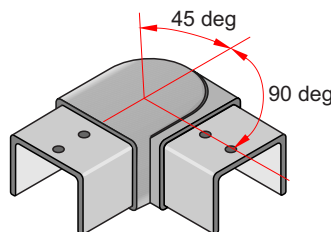
180deg INLINE JOINER 2205  
JET/431/PSS  
60mm x 40mm x 30mm deep



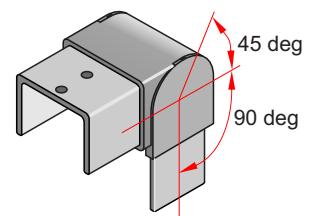
END CAP 2205  
JET/432/PSS  
33mm x 40mm x 30mm deep



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



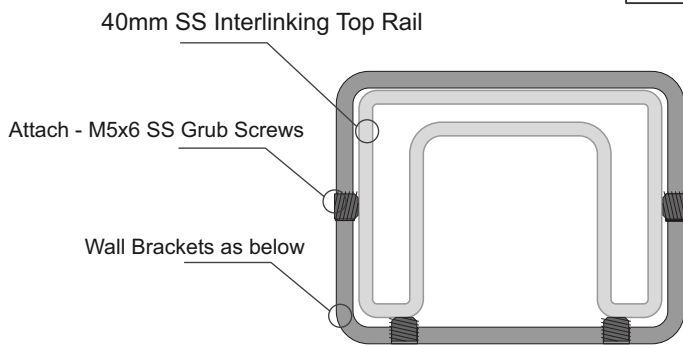
+90 to - 45 deg ADJUSTABLE  
HORIZONTAL JOINER 2205  
JET/434/PSS  
70mm x 70mm x 30mm deep



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

## 40mm SS Interlinking Top Rail - End Brackets

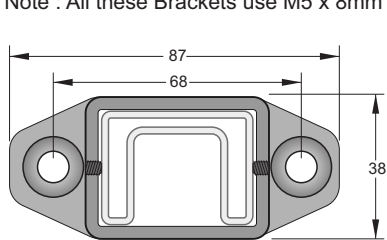
This page applies to 12mm and 15mm Toughened Glass and 15.2mm and 17.2mm Laminated Glass only



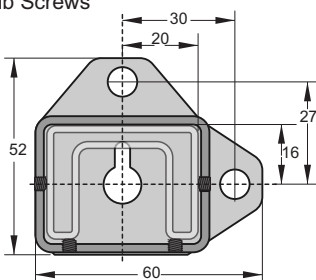
SS INTERLINKING TOP RAIL  
Part No JET/430/PSS/5.8

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

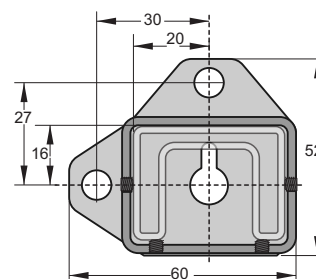
Note : All these Brackets use M5 x 8mm SS Grub Screws



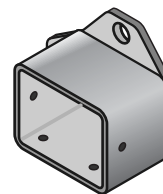
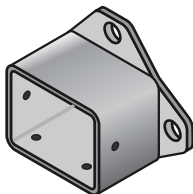
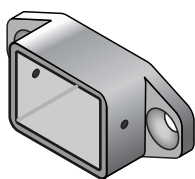
WALL BRACKET 2 FIX 2205  
Part No JET/436/PSS  
87mm x 37mm x 25mm deep



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



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



#### General Notes:

- All fixings to be Stainless Steel - PVC Tape layer between Structure and Bracket
- ULS Point load  $N^* = 0.9\text{kN}$ , 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 Juralco EDGE Post

- use 2 off 8g x 25 SS PK Screws

#### 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 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

#### 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

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

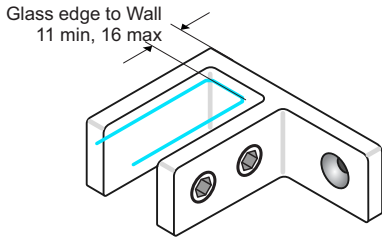
Juralco Edgetec® Double Disc Anchor Balustrade System

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Page 28

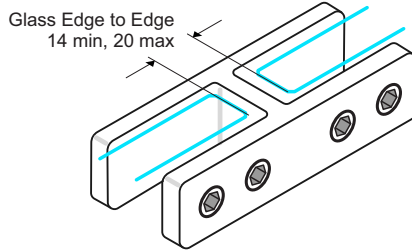
## Frameless Glass Stiffener Brackets

**Top Edge, Frameless Glass Stiffeners**  
12mm - 15.2mm Glass

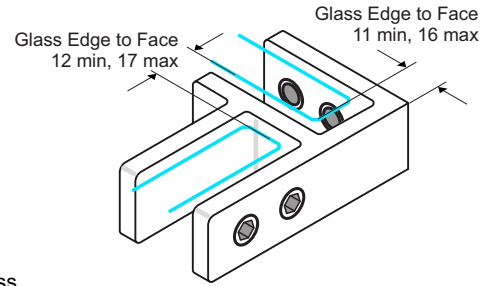
- For Laminated or SentryGlas only. Not for Toughened Glass. No Holes in Glass required.
- Install 200mm max from Glass Top edge
- Supplied as a kit, with screws, a variety of Gaskets and a SS clamp Plate
- Duplex 2205 SS construction. Polished, Satin or Powder coat SCC Finishes



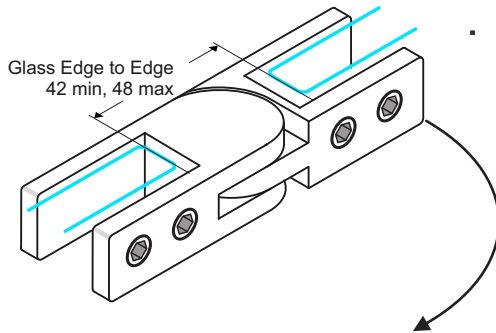
**90 Deg Glass to Wall**  
75x505x25mm  
Part No JET72/PSS  
Part No JET72/SSS  
Part No JET72



**180 Deg Glass to Glass**  
70x34x25mm  
Part No JET71/PSS  
Part No JET71/SSS  
Part No JET71



**90 deg Glass to Glass**  
65x55x25mm  
Part No JET70/PSS  
Part No JET70/SSS  
Part No JET70

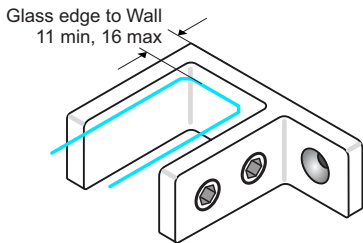


**90 - 180 Deg Adjustable Glass to Glass**  
135x34x25mm  
Part No JET73/PSS  
Part No JET73/SSS  
Part No JET73

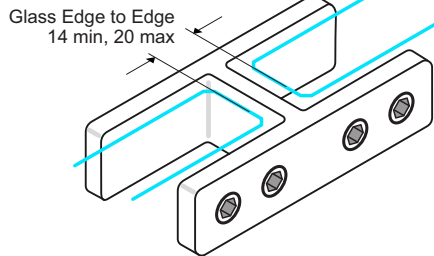
Series 70 Glass Stiffener Brackets, Gaskets, Plates			
Thickness	Green Pack	Yellow Pack	Steel Plate
12mm	0	2	1
13.52mm	2	0	1
15, 15.2mm	2	0	1

**Top Edge, Frameless Glass Stiffeners**  
17.2mm - 17.52mm Glass

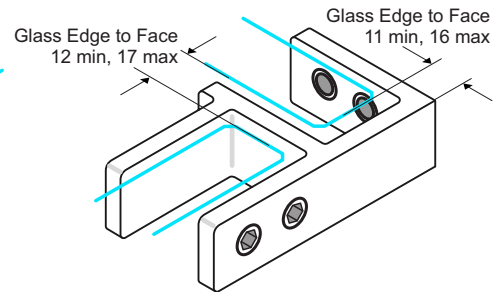
- For Laminated or SentryGlas only. Not for Toughened Glass. No Holes in Glass required.
- Install 200mm max from Glass Top edge
- Supplied as a kit, with screws, a variety of Gaskets and a SS clamp Plate
- Duplex 2205 SS construction. Polished, Satin or Powder coat SCC Finishes



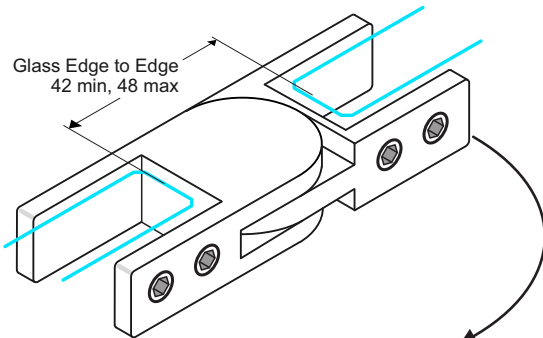
**90 Deg Glass to Wall**  
65x55x25mm  
Part No JET82/PSS  
Part No JET82/SSS  
Part No JET82



**180 Deg Glass to Glass**  
103x39x25mm  
Part No JET81/PSS  
Part No JET81/SSS  
Part No JET81

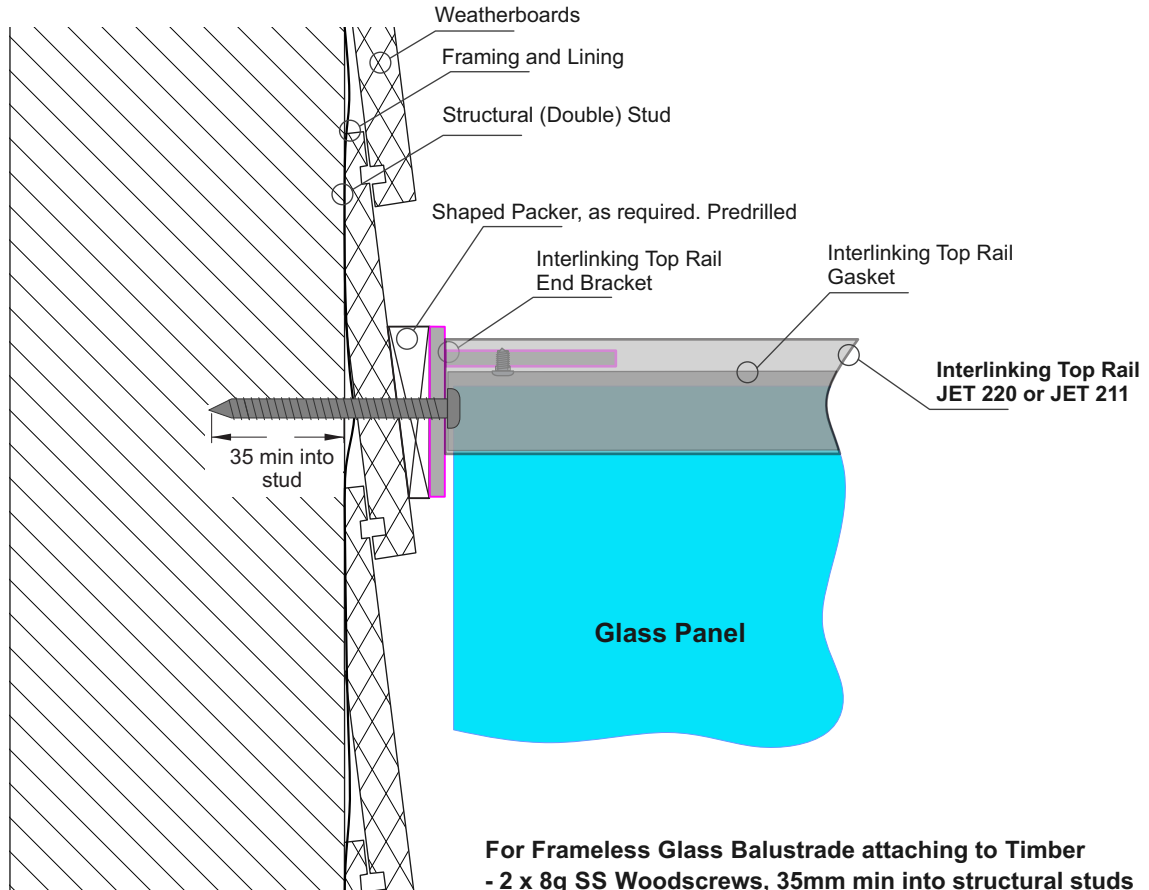


**90 deg Glass to Glass**  
88x55x25mm  
Part No JET80/PSS  
Part No JET80/SSS  
Part No JET80



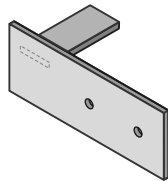
**90 - 180 Deg Adjustable Glass to Glass**  
145x39x25mm  
Part No JET83/PSS  
Part No JET83/SSS  
Part No JET83

Series 80 Glass Stiffener Brackets, Gaskets, Plates			
Thickness	Green Pack	Yellow Pack	Steel Plate
17.2, 17.52mm	0	2	1

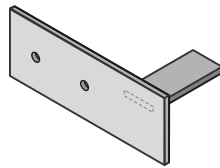


For Frameless Glass Balustrade attaching to Timber  
 - 2 x 8g SS Woodscrews, 35mm min into structural studs  
 - 20mm min to edge of stud in all directions

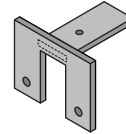
Interlinking Top Rail End Bracket Options - Drawing above shows JET40



Interlinking Top Rail  
 Wall type End Plate  
 SS. 120x45mm  
 Part No JET 40LH



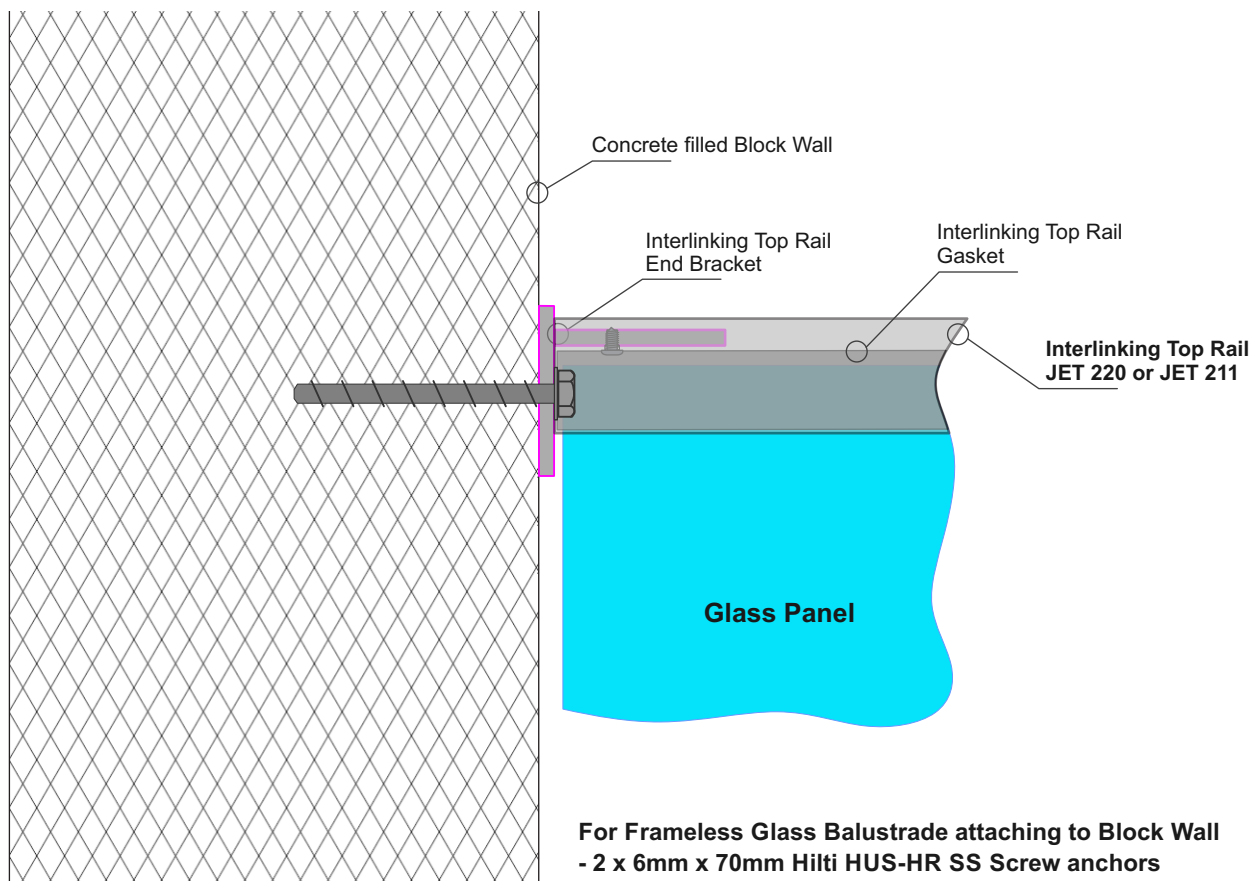
Interlinking Top Rail  
 Wall type End Plate  
 SS. 120x45mm  
 Part No JET 40RH



Interlinking Top Rail  
 End Bracket  
 SS. 60mm x 46mm  
 Part No JET 42

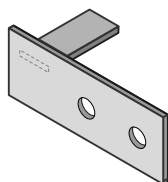
Notes:

- All fixings to be stainless steel
- Timber stud wall to be designed by Project structural engineer for loads imposed by Balustrade.
- ULS Point load  $N^* = 0.9\text{kN}$ , inwards, outwards or down.
- Minimum Stud size = 90mm x 45mm
- Minimum Timber grade = SG8
- Timber stud wall to be designed and detailed in accordance with NZS 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

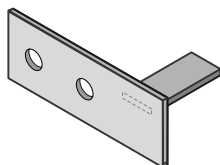


For Frameless Glass Balustrade attaching to Block Wall  
 - 2 x 6mm x 70mm Hilti HUS-HR SS Screw anchors  
 - For concrete drill 6mmØ holes  
 - 70mm min to side edge of concrete, 100mm to top edge.

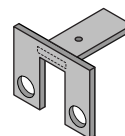
Interlinking Top Rail End Bracket Options - Drawing above shows JET40



Interlinking Top Rail Wall type End Plate  
 SS. 120x45mm  
 Part No JET 40LH



Interlinking Top Rail Wall type End Plate  
 SS. 120x45mm  
 Part No JET 40RH



Interlinking Top Rail End Bracket  
 SS. 60mm x 46mm  
 Part No JET 42

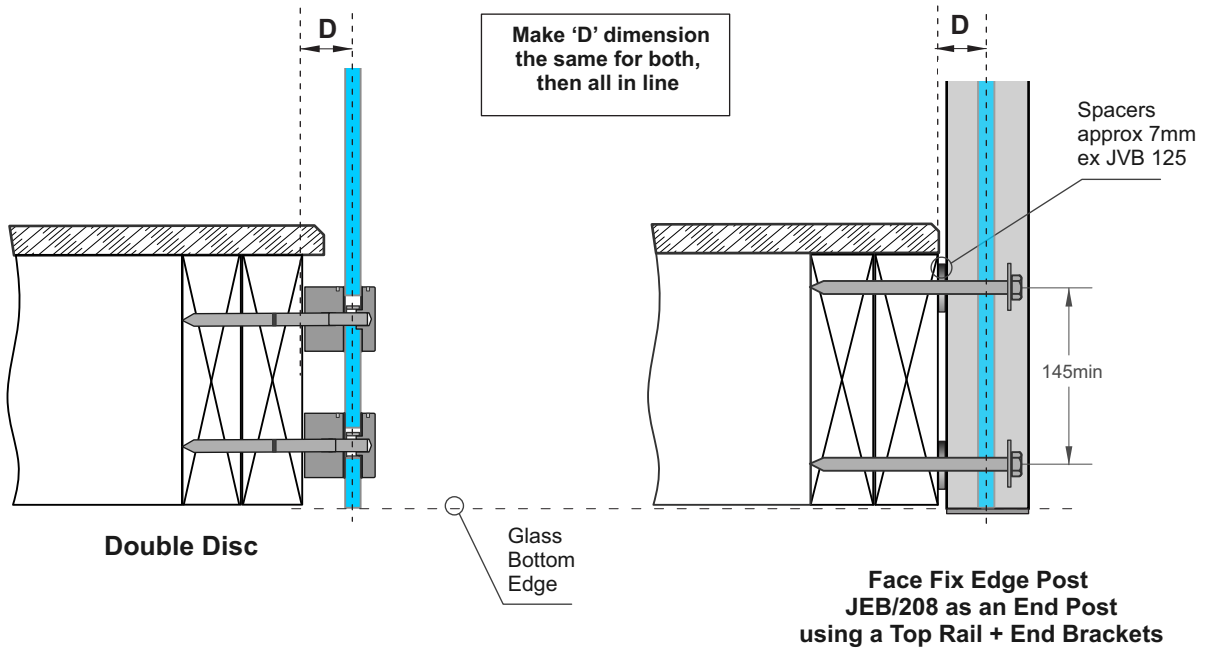
**Drill out holes to 9mmØ**

Notes:

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

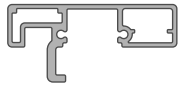
**Juralco Edgetec® Double Disc Anchor Balustrade System**  
**Interlinking Top Rail for attaching to a Edge balustrade End Post**  
**where Wall fixing not suitable**

**Applies Interlinking Top Rails suitable for**  
**12mm, 15mm Toughened Glass and**  
**15.2mm or 17.2mm Laminated Glass,**

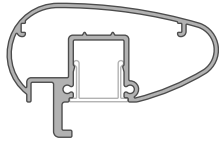




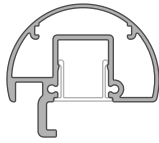
This page applies to 12mm and 15mm Toughened Glass and 15.2mm and 17.2mm Laminated Glass if required



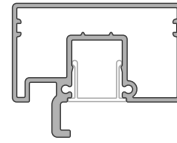
INTERLINKING RAIL  
JEB/222/5.8



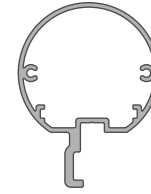
AEROFOIL HANDRAIL  
JEB/217/5.8



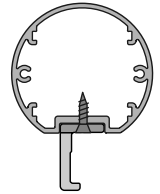
ROUND HANDRAIL  
JEB/209/5.8



RECTANGULAR  
HANDRAIL  
JEB/216/5.8



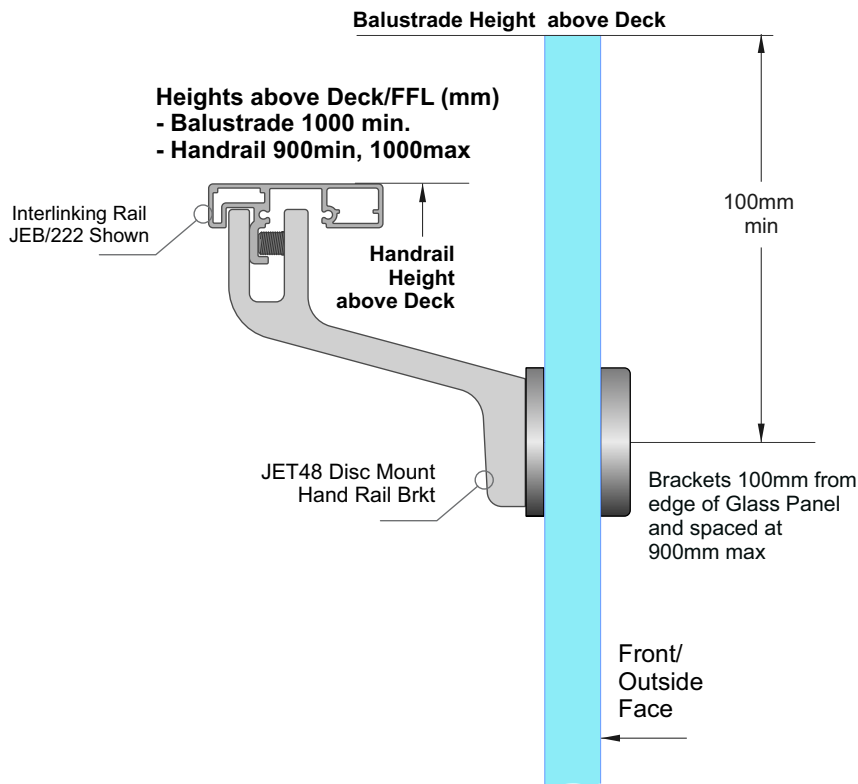
CIRCULAR  
HANDRAIL  
JEB/221/5.8



CIRCULAR  
HANDRAIL  
JEB/223/5.8  
+ Clip JEC38

Suitable Interlinking Rail and Handrails (as Interlinking Rails). All from EDGE manual

Interlinking or Handrails on Deck side.



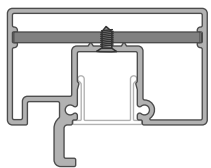
Frameless Glass Systems

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

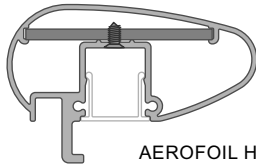
# Handrail Joiners

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

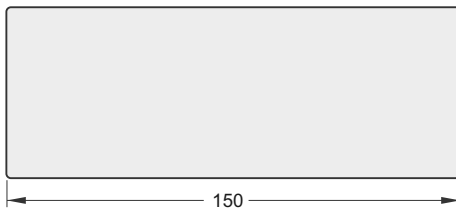
All ex 3mm Aluminium



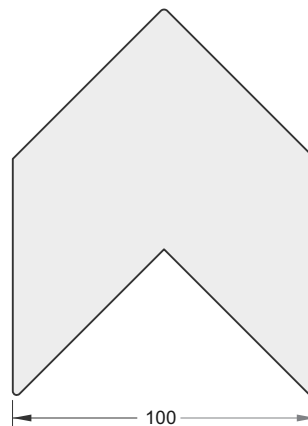
RECTANGULAR HANDRAIL JEB/216/5.8



AEROFOIL HANDRAIL JEB/217/5.8



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

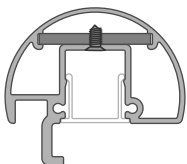


Rectangular and 75m Aerofoil 90deg Corner Joiner JEC 01

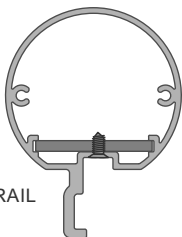
Use No6 x 1/4in SS pan sq drive screws, 2 ea side of joint

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

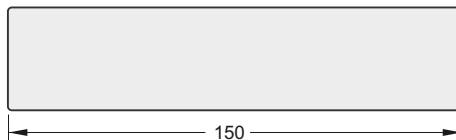
All ex 3mm Aluminium



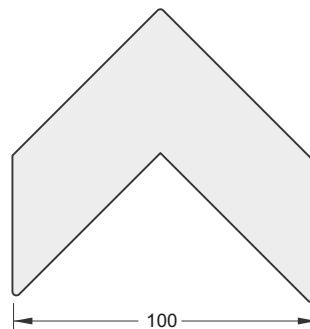
ROUND HANDRAIL JEB/209/5.8



CIRCULAR HANDRAIL JEB/221/5.8



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

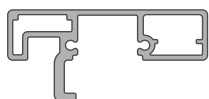


Round and Circular 90deg Corner Joiner JEC 04

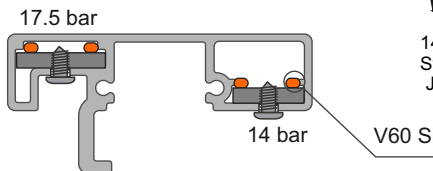
Use No6 x 1/4in SS pan sq drive screws, 2 ea side of joint

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

All ex 3mm Aluminium

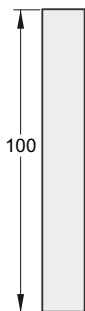


STANDARD HANDRAIL JEB/222/5.8

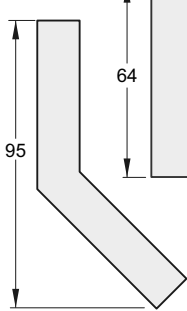


Joiners:

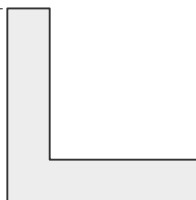
- With Joiner in place, spot drill from below for position
- Drill out joiner to 3mm dia, extrusion to 4mm dia
- Use No 6 x 1/4in SS ST Pan sq drive screw
- Insert dobs of V60 Silicone inside cavities before inserting
- Both ends to be attached.
- Joins must be within 300mm of Post
- Minimum distance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



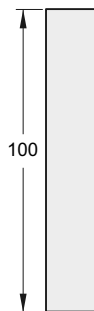
14mm Straight Joiner JEC32



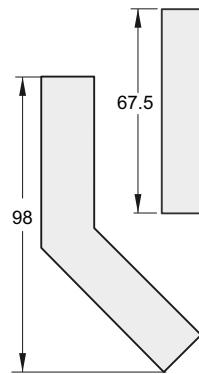
14mm, 135deg Corner Joiner JEC36



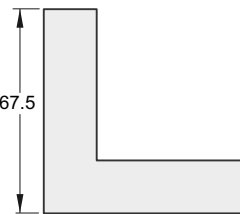
14mm, 90deg Corner Joiner JEC34



17.5mm Straight Joiner JEC33



17.5mm, 135deg Corner Joiner JEC37

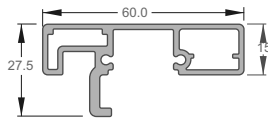


17.5mm, 90deg Corner Joiner JEC35

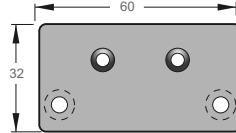
## Handrail End Plates for Attaching to a Structure or Edge Deck mounted Post

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

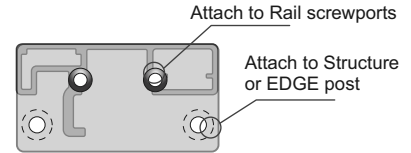
End Caps all ex 3mm Aluminium



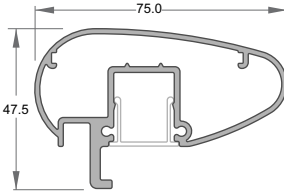
HANDRAIL  
Part No JEB/222/5.8



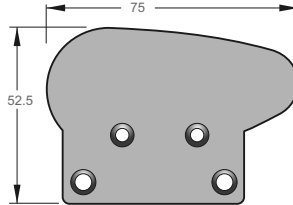
HANDRAIL  
WALL ATTACH END PLATE  
Part No JEC215/WC



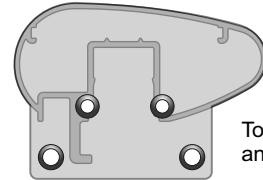
For RH and LH



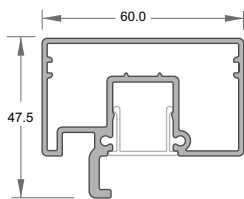
AEROFOIL HANDRAIL  
Part No JEB/217/5.8



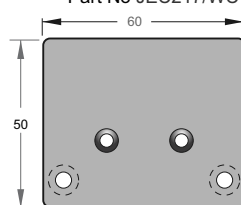
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WALL ATTACH END PLATE  
Part No JEC217/WC



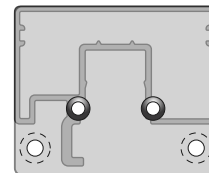
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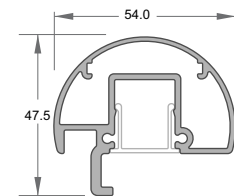
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Part No JEB/216/5.8



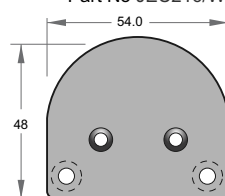
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WALL ATTACH END PLATE  
Part No JEC216/WC



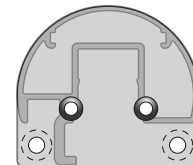
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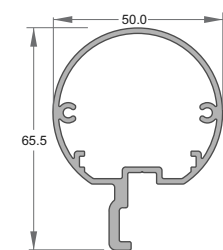
HALF ROUND HANDRAIL  
Part No JEB/209/5.8



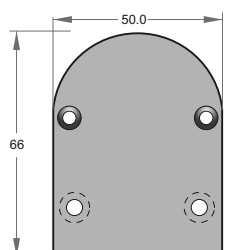
HANDRAIL  
WALL ATTACH END PLATE  
Part No JEC209/WC



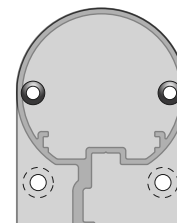
For RH and LH



CIRCULAR HANDRAIL  
Part No JEB/221/5.8



HANDRAIL  
WALL ATTACH END PLATE  
Part No JEC221/WC



For RH and LH

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

**Note : Fixing to Steel**

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

**Note : Fixing to Timber Wall**

- use 2 off 8g SS Screws, 35mm min into studs.
- use Sika Supergrip 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 1720.1:2022 Timber Structures Part 1 - Design methods or NZ3604

**Note : Fixing to Juralco EDGE Post**

- use 2 off 8g x 25 SS PK Screws

**Note : Fixing to Concrete Wall**

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

## Glass Care and Maintenance

### Glass Cleaning and Maintenance

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

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

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

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

### Scratches and Metal Scrapers

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

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

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

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

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

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#### **Glass Cleaning, Do's and Don'ts**

##### **DO NOT..**

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

##### **DO...**

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

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

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# 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 12 months to develop.

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

### Joinery Protection during Installation:

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

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

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

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

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



## Powder Coating Maintenance

### External - Maintenance Program:

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

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

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

### 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

# 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 as small amount of WD40 Multi Use Product 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

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