

**#JURALCO** 

JURALCO CONTEMPORARY BALUSTRADE SYSTEM

#### Juralco Contemporary Balustrade System

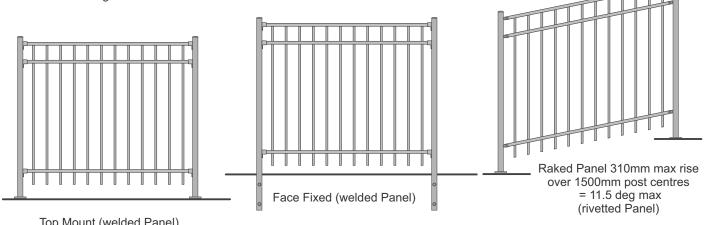
Juralco Aluminium Building Products Ltd designs and distributes specialist aluminium joinery systems through a national network of franchised fabricators and agents.

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 Contemporary Balustrade System combines a welded Aluminium infill frame fixed between aluminium Posts. This system is ideal for use on retaining walls and other outdoor applications where safety from falling (F4) is required by the NZ Building Code. Attaching a Handrail enables it to be used on stairs.

#### Features.

- Fully Welded or Rivetted Panel, Fixed Height
- Single Panel size max 1435mm long x 1200mm high.
- Conforms to NZ Building Code and AS/NZ1170 regulations
- Only for Residential or Commercial C3 applications up to 1275mm high
- Powder Coat any colour
- Posts can be Top Mount of Face fixed
- Not suitable for fixing directly to stairs without attached Handrail
- Suitable for curved runs on Retaining Walls and Raking as well as straight or curved runs on flat Decks.





# **Juralco Contemporary Balustrade System**

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

# Juralco Contemporary Balustrade is for Domestic and Residential Occupancy types A, A Other and C3 and Commercial C3

Code	Type of Occupancy for part of the building or structure	Specific Uses	Wind Zone	
А	Domestic and Residential activities	All areas within or serving exclusively one dwelling including stairs, landings etc, but excluding external balconies and edges of roofs. (see C3)	Suitable for use up to and	
A Other, C3	Areas without obstacles for moving people and not susceptible to over crowding	Landings, external balconies, edges of roofs etc. Not suitable for fixing directly to stairs unless separate Handrail attached	Including Extra High Wind Zone	

Note 1	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 2	This system is not designed as a 'stair' balustrade system. Do not attach directly to stair risers unless separate Handrail attached.

masterspec partner
Section 4852JB

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#### Juralco Contemporary Balustrade System - Specifications, Powder Coating

#### Juralco Aluminium Building Products Ltd (JABP)

#### Specifications for Juralco Contemporary Balustrade System

#### 1.Scope

 This specification details the documents the Juralco Contemporary 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 Contemporary Balustrade System has been reviewed by Nancekivell Cairn Ltd, Civil and Structural Engineers, to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170: 2002 occupancy A, A Other and C3, NZS 3604 Low, Medium, High, Very High and Extra High Wind Zones
- 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

#### 3. Manufacturer's Documents

- The Juralco Contemporary Balustrade System manual details all extrusions and components used for the fabrication and installation/fixing of the system.
- A Producer Statement 1(Design) is available.
  - Copies of the above documents are available from:

Juralco Aluminium Building Products Ltd

48 Bruce McLaren Rd, Henderson, Auckland

Phone 09 478 8018 Fax 09 478 7883 Email specify@juralco.co.nz

- Any deviation from the standard fabrication or installation/fixing must be accompanied by a site specific PS1 with site specific calculations and drawings

#### 4. Products

- Only extrusions, components and hardware supplied by or specified by JABP may be used in the Juralco Contemporary System
- Aluminium extrusions, components and hardware unless specified are manufactured to 6060 T5 specifications
- Stainless Steel components, hardware, fixings all components to 316 grade

### 5. Surface Finishing

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

#### 6. Installation and Fixing

- The Juralco Contemporary Balustrade System must only be installed in accordance with the Juralco Contemporary Balustrade System manual
- Any deviation from that specified in the Juralco Contemporary Balustrade manual must only be in accordance with the site specific PS1 and with site specific calculations and drawings listing the non standard details
- The Juralco Contemporary 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 instructions for $\underline{\text{Powder Coatings}}$ near Salt Water

The standard Dulux powder coating system used by Juralco is Duralloy<sup>®</sup> and is suitable for installations greater than 100 metres from high tide level and for buildings up to 3 stories above ground. Use Duratec<sup>®</sup> for installations between 10 and 100 metres from high tide level and for prestigious residential and commercial developments. For all other applications contact Juralco for alternative systems.

Note - Powder coated prices listed in Juralco price books are for the standard Duralloy® system. If the Duratec® system is required it must be specified upon placement of the order and will incur a surcharge – Duratec® prices on application.

#### Important instructions for Powder Coating - Attachment to structures

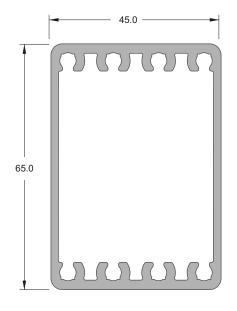
An EPDM or similar material spacer must be used to separate powder coated aluminium items from all timber, concrete and steel structures. Failure to do so can lead to the chemicals in the structure affecting the powder coating layer on the aluminium.

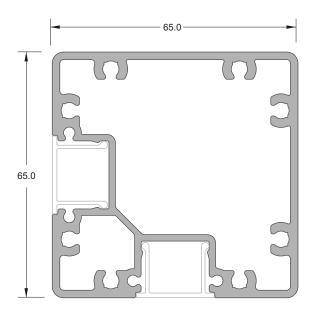
#### **Powder Coating Warranty**

The Dulux powder coating warranty period is conditional upon being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. Contact your installer for a copy (or download from Dulux) of the Care and Maintenance instructions or refer to the back page of this manual.



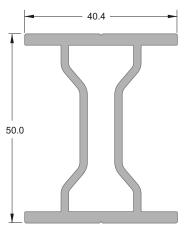
# **Juralco Contemporary Balustrade System - Extrusions**



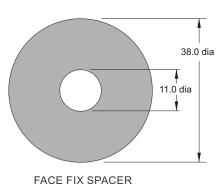


POST Part No JGF/215/5

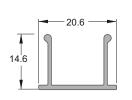
POCKETED CORNER POST Part No JEB/213/5



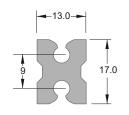
POST STIFFENER JGF 213



FACE FIX SPACER Part No JVB 125/1000

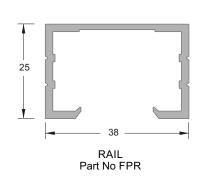


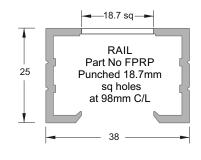
STANDARD INFILL CLIP Part No JEB/206/5

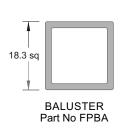


**RAIL SPIGOT** Part No JEB/210/5

#### Panel Parts





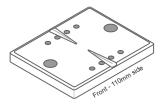


# Juralco Contemporary Balustrade System - Components

Base plate Part No JEC 201

Top Mount.

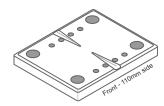
Concrete or Steel only



110mm x 90mm x 12mm - 2 x hole

Base plate Part No JEC 221

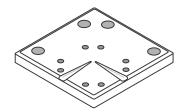
Top Mount



110mm x 90mm x 12mm - 4 x hole

Base plate - Corner Post Part No JEC 222

Top Mount



110mm x 110mm x 12mm - 4 x hole

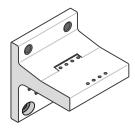
Square Washer Part No JVB SQWSH

Face Fix



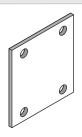
40mm sqx 3mm SS

Base plate Part No JEC 137/65



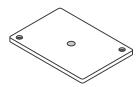
120mm wide x 135mm high - 4 x holes

**Gutter Bracket Spacer** Part No JEC 139



135mm x 120mm x 5mm thick

Post Bottom Cap Part No JEC16



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

Top Cap Part No JEC 20



Fits over Post 65mm x 45mm

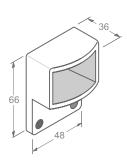
Top Cap - Corner Post Part No JEC 27



Fits over Post. 66mm x 66mm

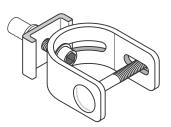
Channel

Post Bracket Part No FPBRKT



Aluminium Body This Bracket for normal Straight runs

Post Bracket, Angled Part No FPRBRKT/A



Rail connection, angle adjustable - 0 to 40 deg, horizontal plane. - 0 to 11 deg in vertical plane

M6 Rivnut M6 Screw Rail Attach Bracket Rail Attach

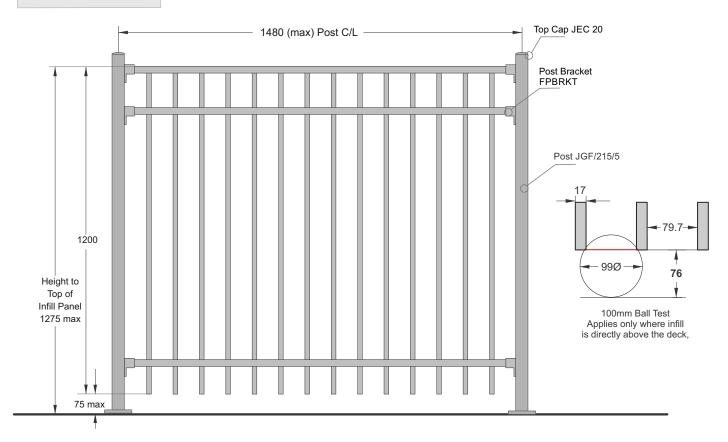
Aluminium Body /Black PC

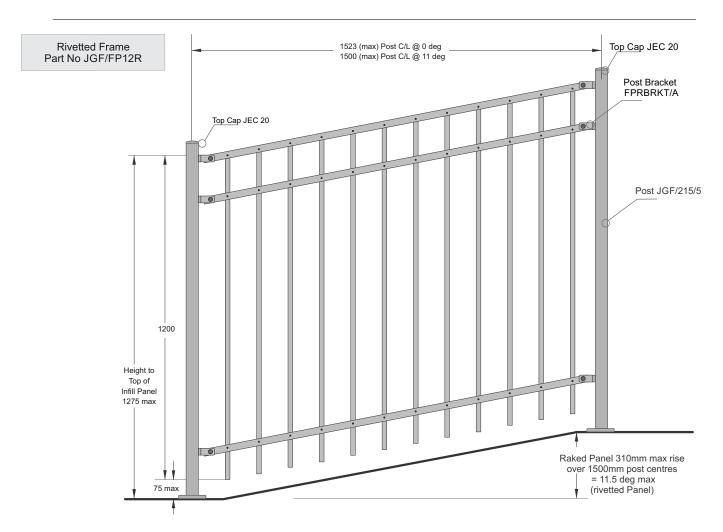
This Bracket for Curved walls and Raked Panels

# Juralco Contemporary Balustrade System - Components

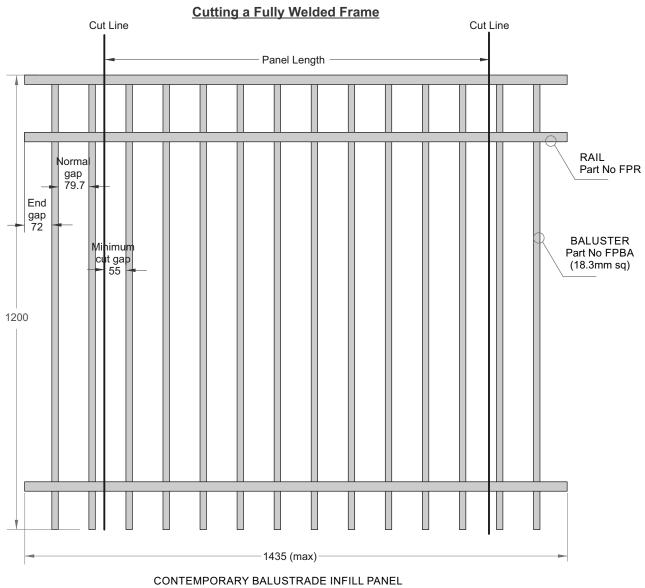
Face Fix Spacer Face Fix Spacer **EPDM Spacer Washer** Face Fix Face Fix Face Fix Part No JVB 125/30mm Part No JVB 125/10mm Part No JVB 126 38mm dia x 30mm long. 38mm dia x 10mm long. 38mm dia x 3mm Attachment Block Screw Base Attach Screw Rail Attach Screw Part No JVBSCREW/30x8 Part No JVBHTSCREW/50x10 Part No JGFSCREW/12x8 30mm SS HT PK Pan sq drive screw 50mm SS HT PK C/S sq drive screw WASHER SS SIKA Supergrip 2hr Part No JEC SUPERGRIP Part No JVB Washer 21x11 21dia x 11 x 2mm thick For All Coachscrews fixings

Welded Frame Part No JGF/FP12





# **Juralco Contemporary Balustrade System**



CONTEMPORARY BALUSTRADE INFILL PANEL Part No JGF/FP12 All fully welded. Cut to required length

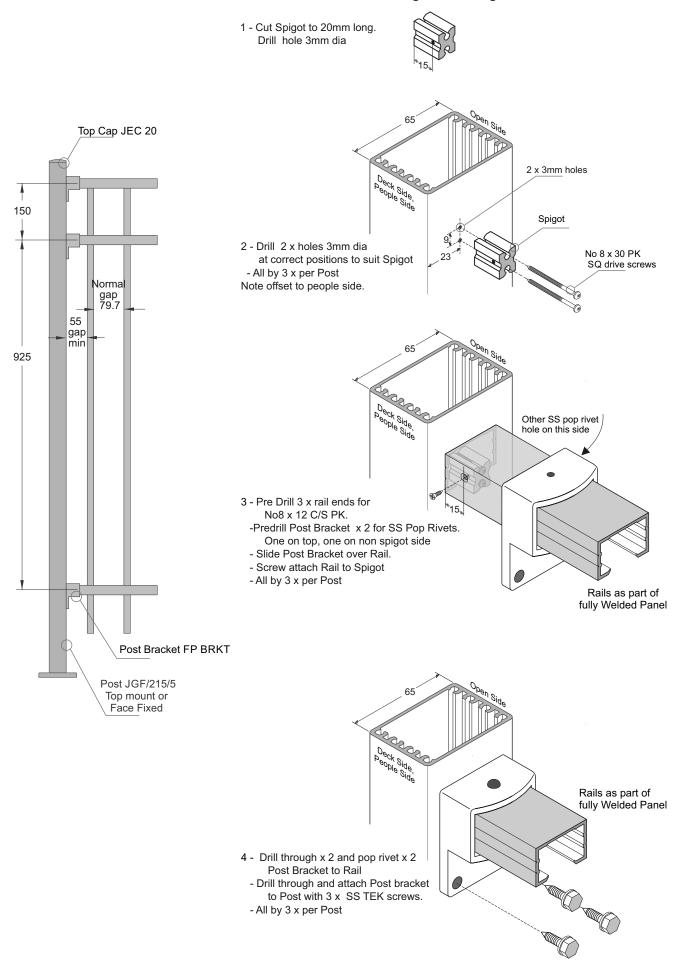
# Cutting a Panel to a custom length has the following constraints

# The table below shows allowable Post centre Lengths for a given no of Balusters

No of Balusters	14	13	12	11	10	9	8	7	6	5	4
Post Centres MAX	1480	1390	1292	1194	1096	998	901	803	705	607	509
Post Centres MIN	1446	1348	1250	1152	1054	956	859	761	663	565	467

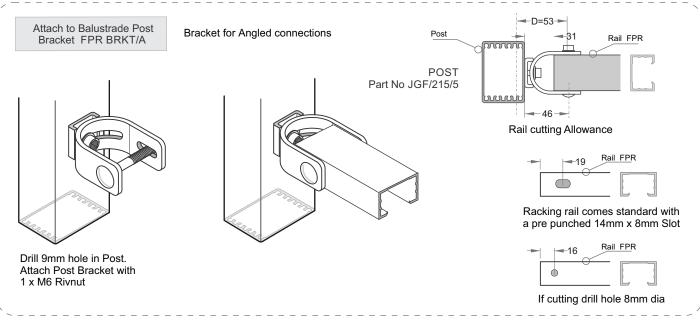
To calculate Panel cut lengths subtract about 50mm from the post centre dimensions ( = 5mm float)

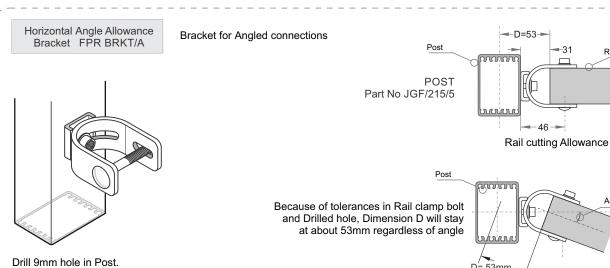
# This Bracket for normal Balustrades on Decks and straight Retaining walls

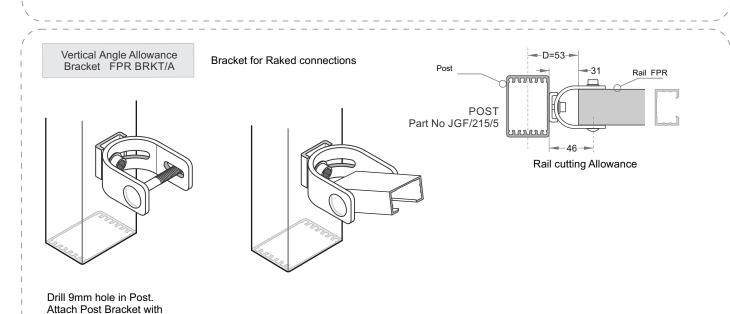


# Juralco Contemporary Balustrade System - Angle Bracket, Post Fixing

# This Bracket for Balustrades on Curved runs and for Raked Panels







1 x M6 Rivnut

Attach Post Bracket with

1 x M6 Rivnut

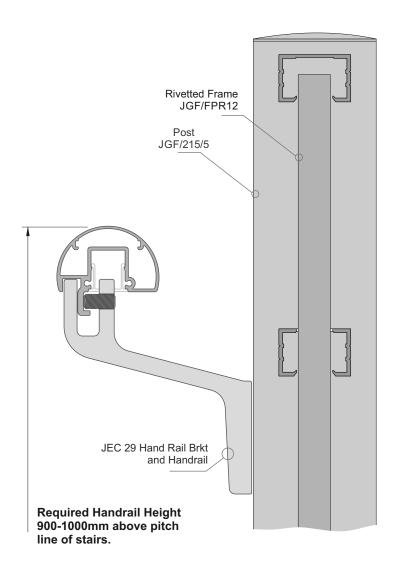
**-**31

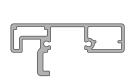
Rail FPR

Angle

Fence Panel

Lenght

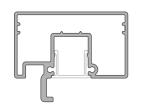




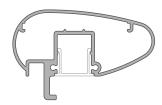
INTERLINKING RAIL Part No JEB/222/5.8



ROUND HANDRAIL Part No JEB/209/5.8



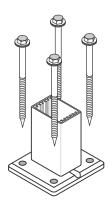
RECTANGULAR HANDRAIL Part No JEB/216/5.8



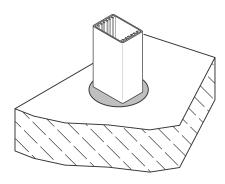
AEROFOIL HANDRAIL Part No JEB/217/5.8

Suitable Handrails for Attaching Contemporary Balustrade to Stairs

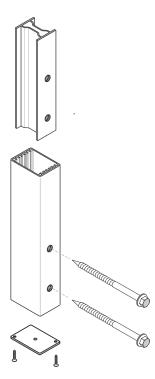
# Juralco Homestead Balustrade System - Typical Post Mount Options



**Top Mount**Base Plates 110x90
or 110x110, 90deg Corner Post



**Top Mount**Concrete only.
Post cemented permanently in place



Gutter Bracket - Face Fixed
Suitable for any overhanging decks
and clearing Guttering channels.





**Top Fix - Sleeve-It**Into Ground, for Retaining Walls

Note: The Sleeve-It product is to be covered by the Retaining Wall systems PS1 and is therefore excluded from the Juralco Contemporary Balustrade's PS1

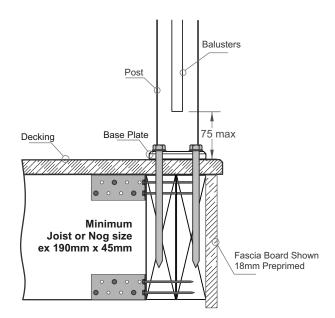
# Juralco Contemporary Balustrade Systems - Typical Post Fixing Complies NZS3604:2011 - Double Boundary Joists

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

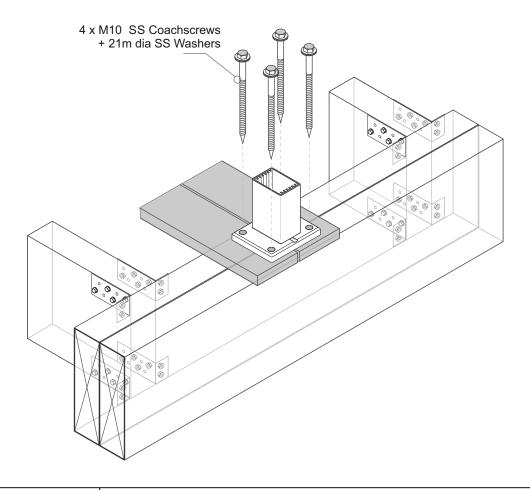
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1275		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for fixing directly to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Predrill 5mm dia holes for Coachscrews
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 Coachscrews 150mm min full engagement into joists
- 5 All fixings must be Stainless Steel

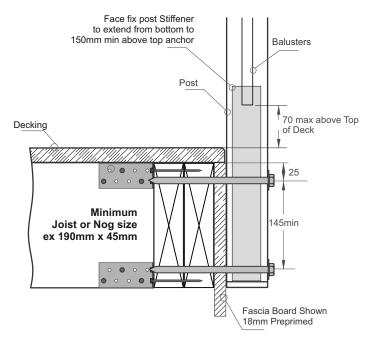


# Typical FACE Fix Post to Timber - M10 SS Coachscrews

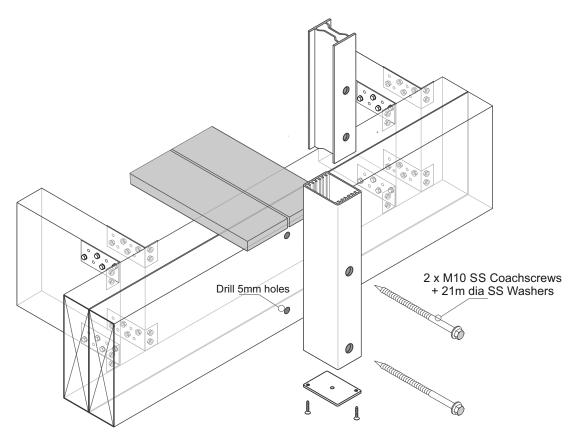
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1270		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Predrill 5mm dia holes for Coachscrews
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 Coachscrews 90mm min full engagement into joists
- 5 All fixings must be Stainless Steel

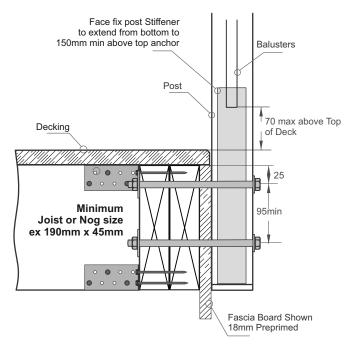


# Typical FACE Fix Post to Timber - M10 SS Bolts or M10 SS Threaded Rod

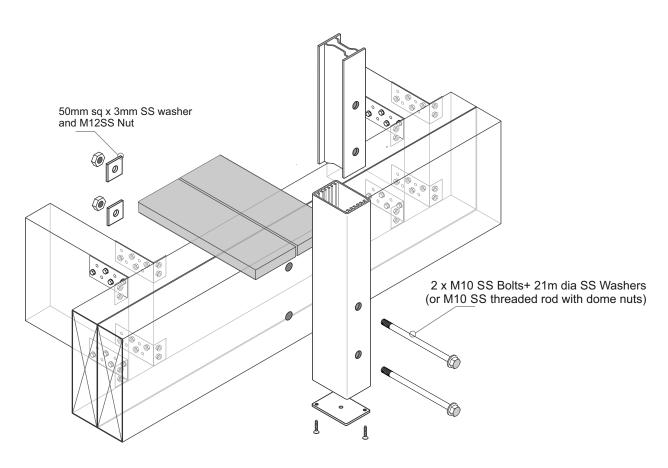
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1270		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loading at each Post
- 2 All fixings must be Stainless Steel

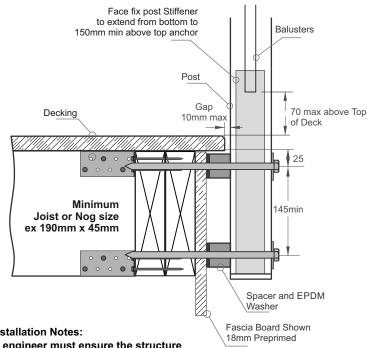


#### Typical FACE Fix Post to Timber Deck - M10 SS Coachscrews and Spacers

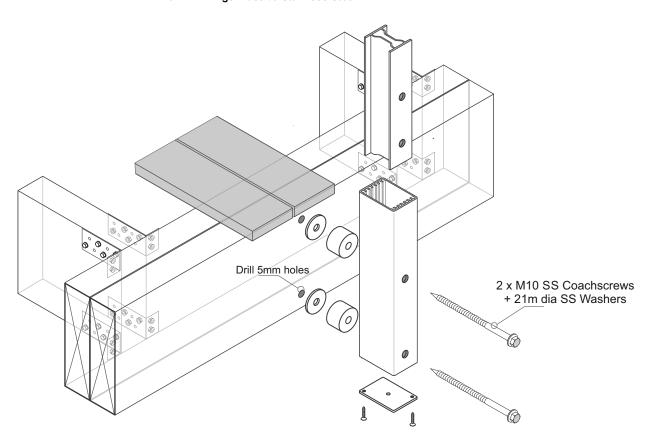
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1270		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Predrill 5mm dia holes for Coachscrews
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 Coachscrews 90mm min full engagement into joists
- 5 All fixings must be Stainless Steel

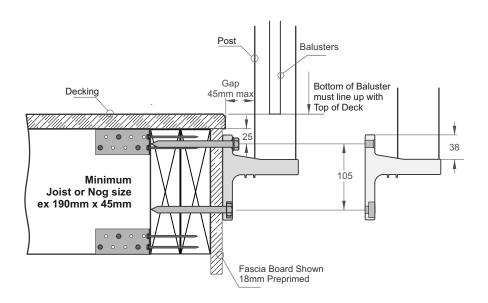


# Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Coachscrews

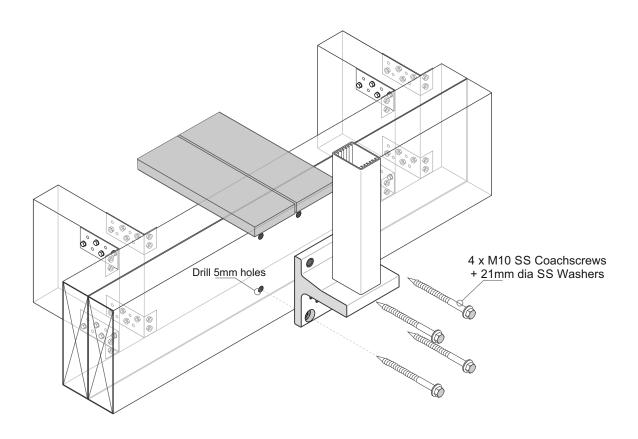
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1200		
dimensions mm			

# General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Predrill 5mm dia holes for Coachscrews
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 Coachscrews 90mm min full engagement into joists
- 5 All fixings must be Stainless Steel

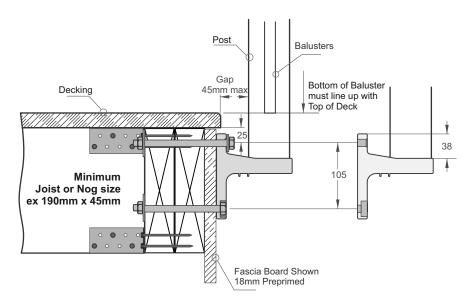


# Typical FACE Fix to Timber - JEC 137/65, Gutter Bracket - M10 SS Bolts or M10 SS Threaded Rod

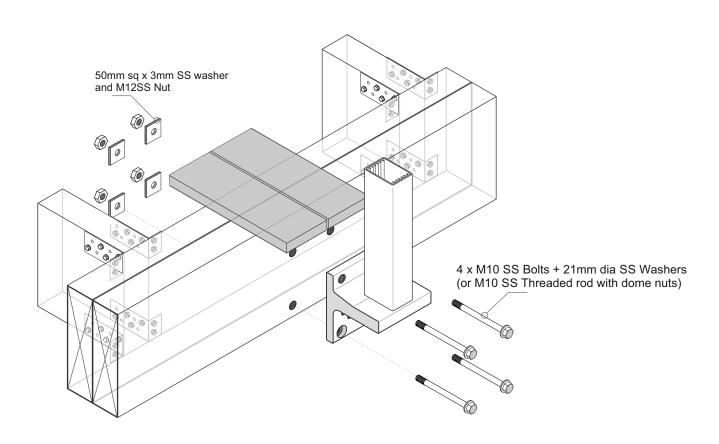
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1200		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate horizontal and vertical loads
- 2 All screw fixings must be Stainless steel

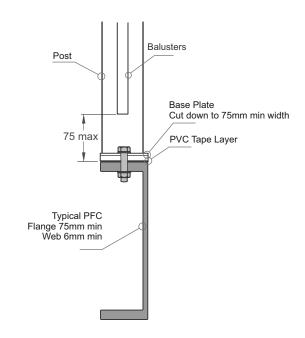


# Typical TOP Fix to Steel - JEC 201, 110mm x 90mm, 2 hole Base Plate - M10 SS Bolts

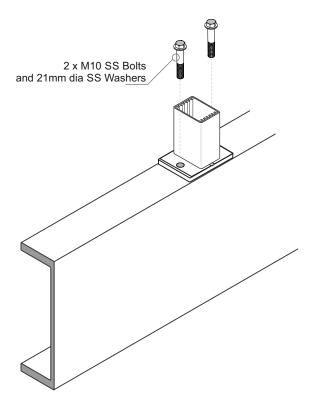
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1275		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate load
- 2 The Baseplate can be cut down to 75mm wide
- 3 Both Base plate and PFC must be aligned, with Bolt at C/L
- 4 A PVC Tape layer must be installed between the Post and Steel
- 5 All fixings must be Stainless steel

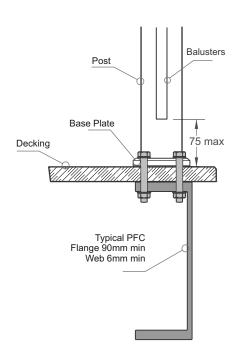


# Typical TOP Fix to Steel - JEC 221, 110mm x 90mm, 4 hole Base Plate - M10 SS Bolts or M10 SS Threaded Rod

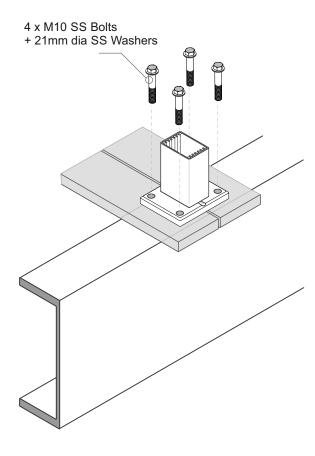
Infill Panel Height applies to this configuration only			
Suitable up to and Including Extra High Wind Zone			
MAX Post Centres	1480		
Panel Length	1435		
MAX Height - From Deck to Top of Infill Panel	1275		
dimensions mm			

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



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

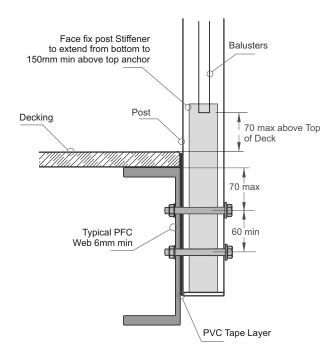


# Typical FACE Fix Post to Steel - M10 SS Bolts

Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1270
dimensions mm	

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



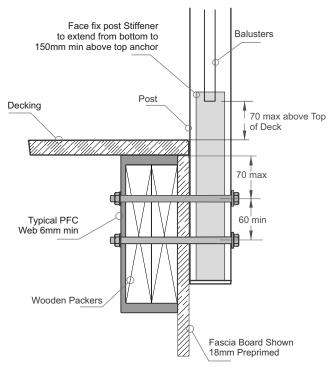
- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 A PVC Tape layer must be installed between the Post and Steel
- 3 All fixings must be Stainless Steel 0 2 x M10 SS Bolts 0 + 21mm dia SS Washers

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

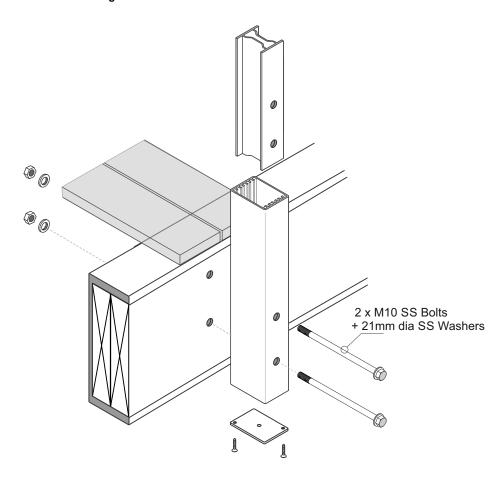
Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1270
dimensions mm	

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



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

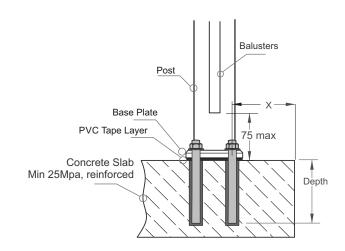


### Typical TOP Fix to Concrete Path - JEC 221, 110mm x 90mm, 4 hole Base Plate for M10 SS Studs A4-70 + Fischer FIS V

Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1275
dimensions mm	

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for fixing directly to stairs without attached Handrail



Base Plate JEC 221	X (min)	Depth (min)
4 off M10 x100 SS Studs + Fischer FIS V	85mm	100mm

#### Important Installation Notes:

- 1 A Project engineer must ensure the structure can support the appropriate loading at each Post
- 2 All fixings must engage into the structural slab
- 3 A PVC Tape layer must be installed between the Baseplate and Concrete
- 4 All fixings must be Stainless Steel



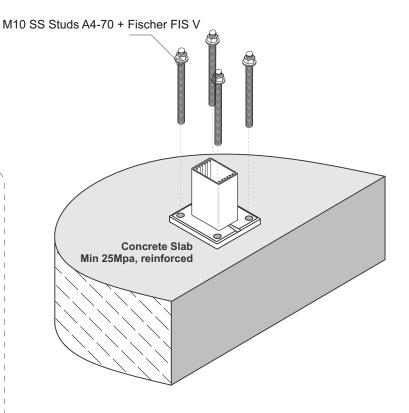
#### Installation details Fischer FIS V

Thread diameter M 10 Drill hole diameter = 12 mm Drill hole depth = 110mm Anchorage depth = 100mm 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. Refer to Fischer for all other details

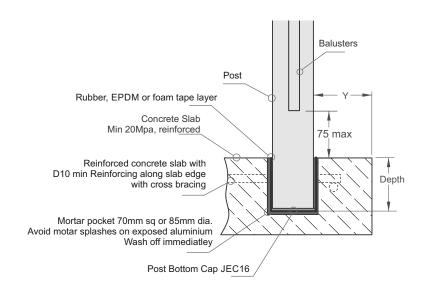


# Typical TOP Fix to Concrete - Embed Post in Concrete Slab

Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1275
dimensions mm	

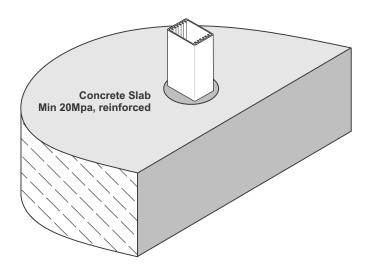
#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



Concrete Type	Y (min)	Depth (min)
Reinforced Slab	70mm	95mm

- 1 A Project engineer must ensure the structure can support the appropriate loading at each Post
- 2 All fixings must engage into the structural slab
- 3 A PVC Tape layer must be installed between the Post and Concrete
- 4 All fixings must be Stainless Steel

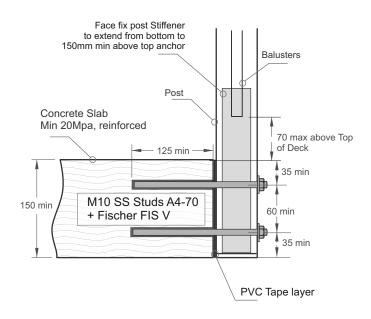


# Typical FACE Fix Post to Concrete - M10 SS Studs

Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1270
dimensions mm	

#### General Notes:

- 1 Conforms to NZ building Code and AS/NZ1170 regulations
- 2 For Residential and Commercial C3 applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



#### Important Installation Notes:

- 1 A Project engineer must ensure the structure can support the appropriate loading at each Post
- 2 All fixings must engage into the structural slab
- 3 A PVC Tape layer must be installed between the Post and Concrete
- 4 All fixings must be Stainless Steel



#### Installation details Fischer FIS V

Thread diameter M 10

Drill hole diameter = 12 mm

Drill hole depth = 130mm

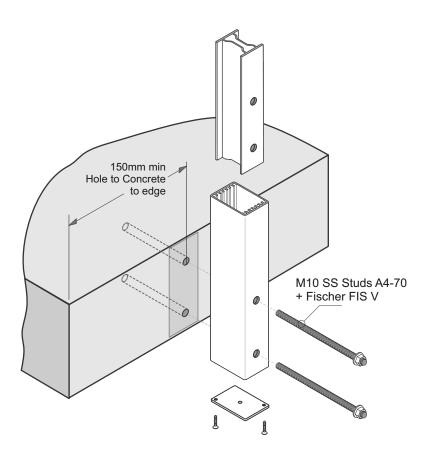
Anchorage depth = 120 mm

Drilling method Hammer drilling

Drill hole cleaning 4 times blowing,

4 times brushing, 4 times blowing

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



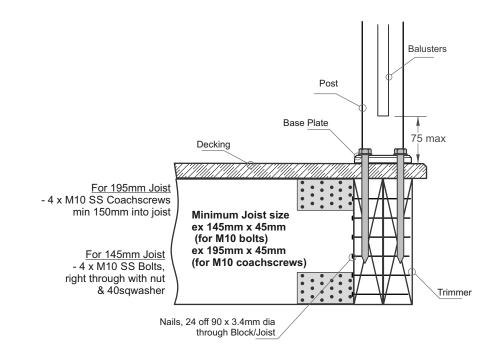
# Juralco Contemporary Balustrade Systems - Typical Post Fixing Pre NZS3604:2011 - Single Boundary Joist

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

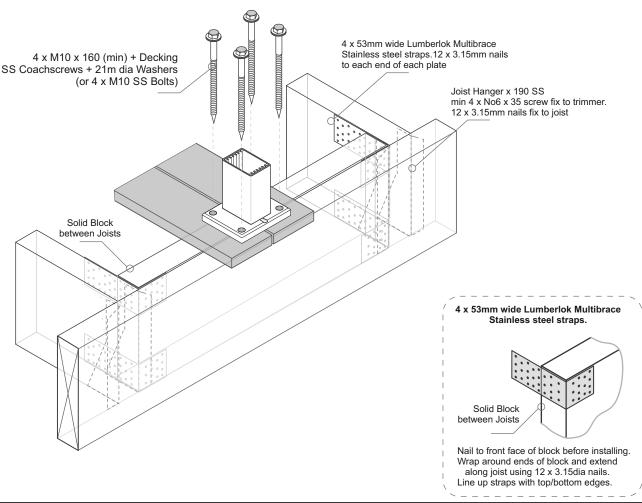
Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1275
dimensions mm	

#### General Notes:

- 1 The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011 - Double Boundary Joists
- 2 For Residential Only (Not suitable for Commercial C3), applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Coachscrews 150mm min full engagement into joist/block
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 All fixings must be Stainless Steel



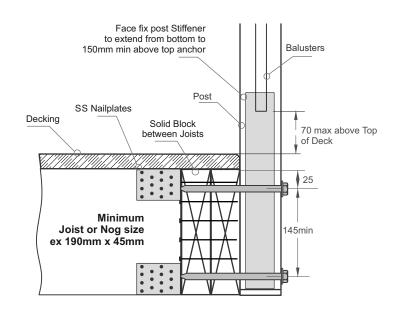
# Juralco Contemporary Balustrade Systems - Typical Post Fixing Pre NZS3604:2011 - Single Boundary Joist

# Typical FACE Fix Post to Timber - M10 SS Coachscrews

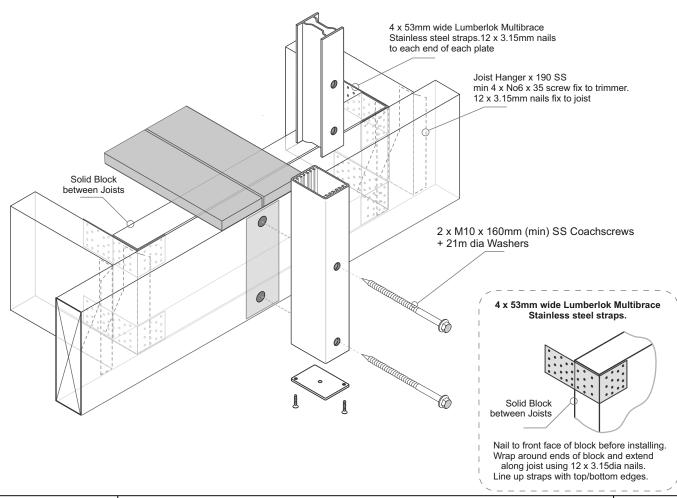
Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1270
dimensions mm	

#### General Notes:

- 1 The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011 - Double Boundary Joists
- 2 <u>For Residential Only</u> (Not suitable for Commercial C3), applications up to1275mm high
- 3 Not suitable for <u>fixing directly</u> to stairs without attached Handrail



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Coachscrews 90mm min full engagement into joist/block
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 All fixings must be Stainless Steel



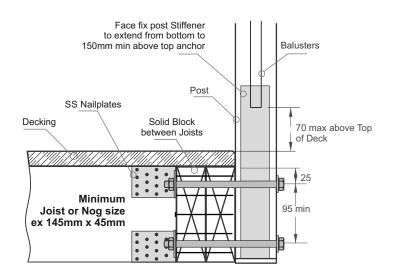
# Juralco Contemporary Balustrade Systems - Typical Post Fixing Pre NZS3604:2011 - Single Boundary Joist

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

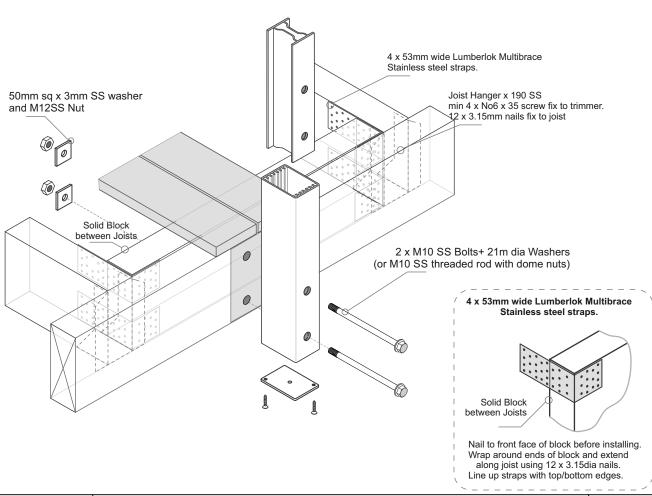
Infill Panel Height applies to this configuration only	
Suitable up to and Including Extra High Wind Zone	
MAX Post Centres	1480
Panel Length	1435
MAX Height - From Deck to Top of Infill Panel	1270
dimensions mm	

### General Notes:

- 1 The pre NZS3604:2011 mounting details are included for older, existing buildings. New buildings must comply with NZS3604:2011 - Double Boundary Joists
- 2 For Residential Only (Not suitable for Commercial C3), applications up to1275mm high
- 3 Not suitable for fixing directly to stairs without attached Handrail



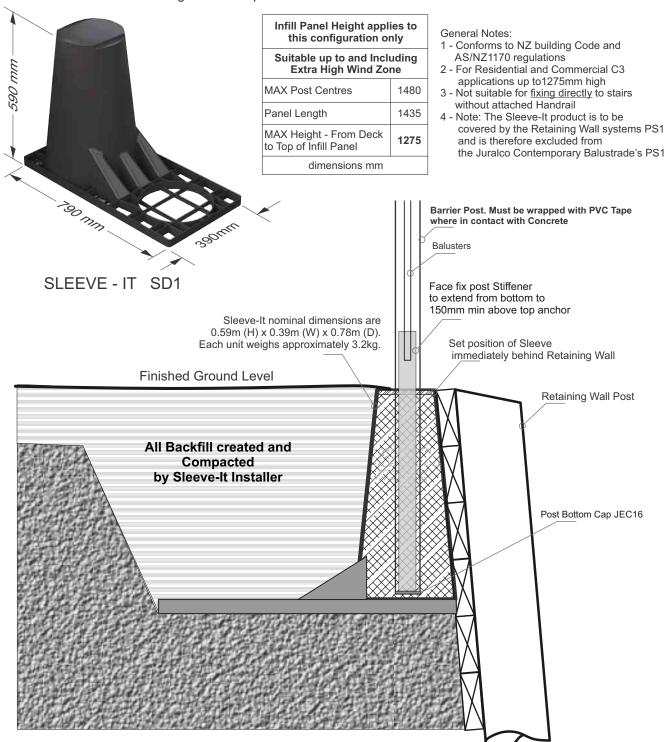
- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 All fixings must be Stainless Steel



# Juralco Contemporary Balustrade Systems - Typical Post Fixing For Fixing to Retaining Walls

# Typical Sleeve It Post Anchor - Post to Timber Retaining Wall

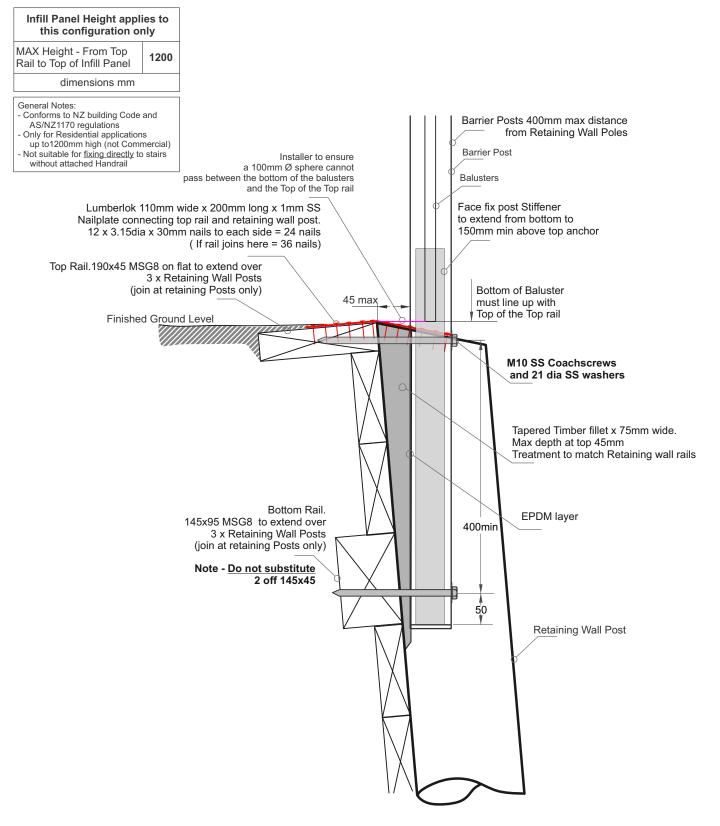
For more information go to link: https://cirtexcivil.co.nz/contact/ and in Product Search enter 'Sleeve-It'



- 1 A Project engineer must ensure the structure can support the appropriate loads
- 2 Sleeve-it to be installed by Approved Installer.
- 3 Balustrade Post + Balustrade Panels to be Installed by an Approved Juralco Installer
- 4 Set the Sleeve-It immediately behind the retaining Wall
- 5 Remove the Top Cap then cut a rectangle to suit the Balustrade Post
- 6 Insert the post, holding square, then fill the Sleeve-it with Concrete
- 7 Replace the Top cap neatly
- 8 After Curing, assemble the Balustrade Panels between the Posts

# Juralco Contemporary Balustrade Systems - Typical Post Fixing For Fixing to Retaining Walls

# Typical FACE Fix Post to Timber Retaining Wall - M10 Coachscrews

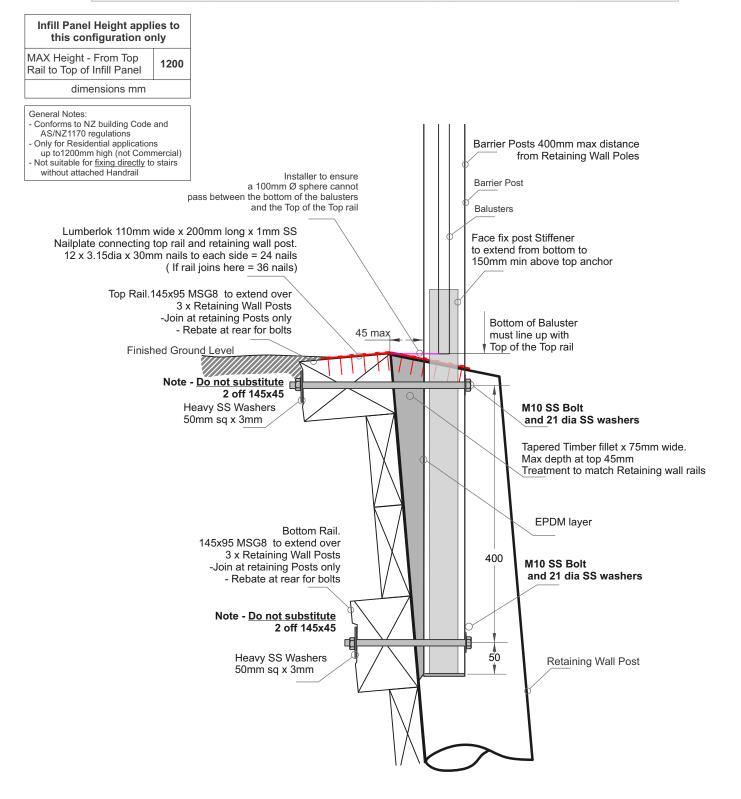


# Important Notes:

- 1 A Design Engineer must ensure the structure can support the appropriate loads
- 2 M10 Coachscrews, 90mm min engagement into Retaining wall rails
- 3 Bond all coachscrews with SIKA Supergrip to full depth
- 4 If Wall Curved use Post Bracket FPR BRKT/A. If Straight use Post Bracket FPR BRKT.
- 5 All Timber treatment as per Retaining wall designer requirements
- 6 A Rubber, EPDM or Foam Tape must be installed between Post and Timber.
- 7 All fixings must be Stainless Steel

# Juralco Contemporary Balustrade Systems - Typical Post Fixing For Fixing to Retaining Walls

# Typical FACE Fix Post to Timber Retaining Wall - M10 Bolts

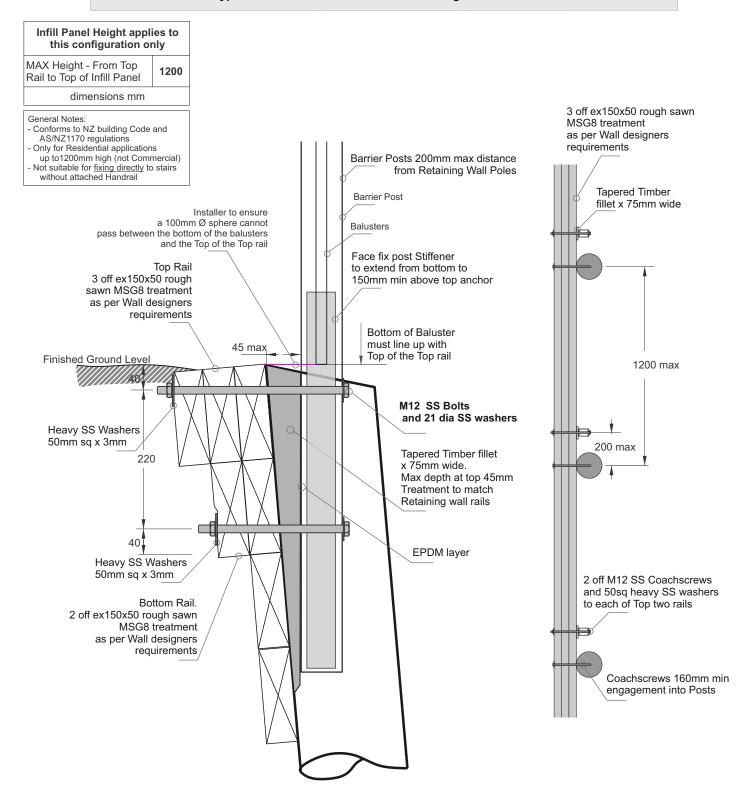


# **Important Notes:**

- 1 A Design Engineer must ensure the structure can support the appropriate loads
- 2 If Wall Curved use Post Bracket FPR BRKT/A. If Straight use Post Bracket FPR BRKT.
- 3 All Timber treatment as per Retaining wall designer requirements
- 4 A Rubber, EPDM or Foam Tape must be installed between Post and Timber.
- 5 All fixings must be Stainless Steel

# Juralco Contemporary Balustrade Systems - Typical Post Fixing For Fixing to Retaining Walls

# Typical FACE Fix Post to Timber Retaining Wall - M12 Bolts



# **Important Notes:**

- 1 A Design Engineer must ensure the structure can support the appropriate loads
- 2 If Wall Curved use Post Bracket FPR BRKT/A. If Straight use Post Bracket FPR BRKT.
- 3 All Timber treatment as per Retaining wall designer requirements
- 4 A Rubber, EPDM or Foam Tape must be installed between Post and Timber.
- 5 All fixings must be Stainless Steel

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#### Juralco Contemporary Balustrade System - Powder Coating Care and Maintenance

### Powder Coating Installation Care

#### Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to I2 months to develop.

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

#### Joinery Protection during Installation:

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

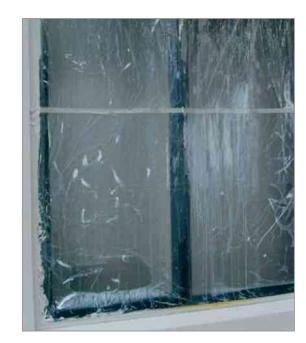
Please ensure that all powder coated articles are masked or covered at this time. It is far easier to prevent accidents than to try and correct them. Should your joinery receive mortar or paint splashes see that these are removed before cure and follow the instructions contained in this brochure.

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

#### "IMPORTANT ALL TRADES"

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

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



#### **Powder Coating Maintenance**

#### **External - Maintenance Program:**

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

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

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

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

# Cleaning your powder coating:

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

#### Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces

Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.

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

Repair of Weathered areas .

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

Contact Dulux Powder Coatings, ph 0064 9 441 8244



