



CONTEMPORARY FENCE, GATE and POOL FENCE SYSTEMS

Contemporary Fence, Gate and Pool Fence 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 Fence and Gate system is designed to provide an economical, light weight secure fencing system manufactured from corrosion proof aluminium extrusion. Typical applications would include Pool enclosures, Schools, Kindergartens and any area requiring security and protection.

General Description

Please note - The General Fence and Gate Systems do not need a PS1.

However the Pool Fence system does. See the special Pool Fence section at the rear of this manual.

- This Fencing system is constructed completely from Aluminium extrusions
- A variety of Hinges and Lockware is available for differing uses.
- Fences come as fully welded pre-constructed panels, 1000,1200,1350,1500 and 1800mm high x 2400mm long.
- Standard gates are of the same construction, but 1247mm or 1547mm high x 997mm wide.
- Gates and Panels can be custom made, including double vehicle access gates.
- Standard Colour Black, but may be powder coated a colour of your choice.
- The components of this fencing system are suitable for compliance to the Building Code clause F9/AS1 and section 162C of the Building Act.



All pages © Copyright Juralco Aluminium Building Products Ltd, 2022.

Contemporary Fence, Gate and Pool Fence Systems - General

Note: The only part of this manual requiring a PS1 is covered in the Pool Fence and Gate section p26 - 38

masterspec partner Section 8432JS

Index

Sections	Туре	Pages	Description Use the Bookmarks \(\subseteq \text{List to jump to selected pages} \)		
	General	4	General Descriptions and Features		
	Panels	5 - 7	hows all Standard Panel types and sizes		
Materials 8 - 13 Shows all Extrusions		8 - 13	Shows all Extrusions and Components		
Section 1 General	Hinge Install	14 - 15	Hinge Install details		
Fences	Gates	16 - 19	Shows Gate details, incl rising hinges for sloping ground.		
And Gates Custom Fences		20	Shows Custom Height Fences		
	Fences	21 - 23	Gate and Fence Panel attach to Posts details		
	Cutting	24	Shows Cutting tables for Fences and Gates		
	Installation	25	Shows Installation details		
Section 2 Pool Fences And Gates	Pool Fences PS1	26 - 38	Shows Pool, Fence and Gate requirements for a PS1		
Powder coat (Applies to both sections)	Powder coat	39	Instructions for the care of Powder coated surfaces		

Important information - Powder Coating systems.

<u>Powdercoat Systems</u> The new standard Dulux powder coating system used by Juralco is Duralloy Plus[®]. Also Duralloy[®] and Duratec[®]. Juralco Powder coated prices are for Duralloy Plus[®] and Duralloy[®] (same pricing). Duratec[®] prices on application. The following specs apply to Building Exteriors.

- Dulux Duralloy Plus® powder coating systems are suitable for properties greater than 10m from high tide level. 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 All Residential and Commercial buildings. Warranty 25 yrs.

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

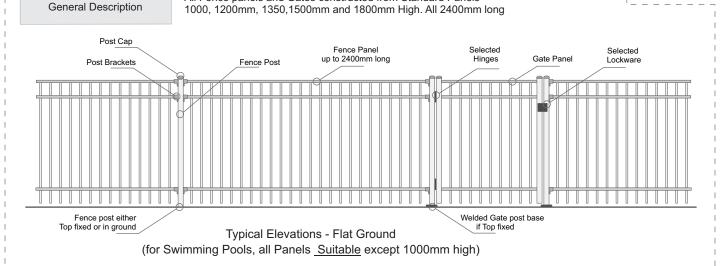
<u>Swimming Pools</u> The chlorinated water in swimming pools can cause the deterioration of powder coated surfaces, leading to corrosion of the underlying surface. It is recommended that Powder coated surfaces be 1200mm min from a pool.

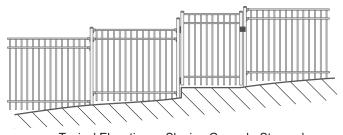
<u>Care</u> The Dulux powder coating warranty period is conditional upon the surface being maintained in accordance with the Dulux 'Care and Maintenance Instructions'. Download from Dulux or refer to the back page of this manual.

Contemporary Fence and Gate System - General

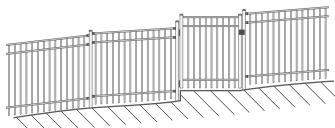
All Fence panels and Gates constructed from Standard Panels





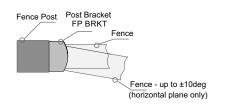


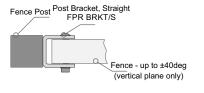
Typical Elevations - Sloping Ground - Stepped (for Swimming Pools 1200 Panel Not Suitable)

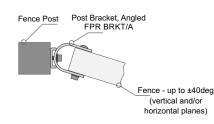


Typical Elevations - Sloping Ground - Racked Panel (Only available for 1200mm high Panels, 500mm rise over 2400mm max = 12deg)

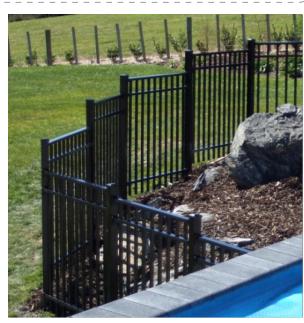
Refer later pages for more information on Swimming Pool requirements

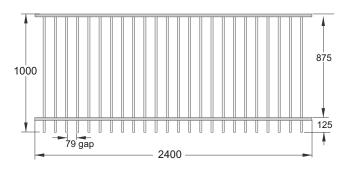






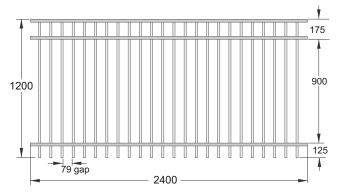




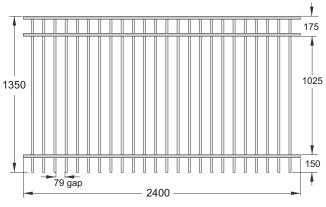


FENCE PANEL FP 10

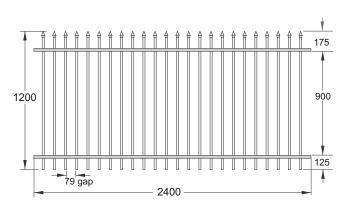
Boundary Fencing Only Not suitable for Swimming Pools



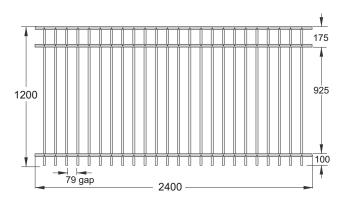
FENCE PANEL (suitable for Pools) FP 12



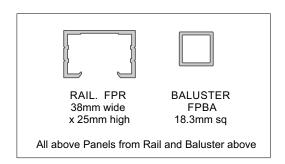
FENCE PANEL (suitable for Pools) FP 135



FENCE PANEL with ARROWHEADS FP 12AH

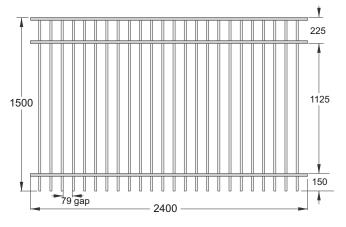


FENCE PANEL, RACKING (suitable for Pools)
FP 12R

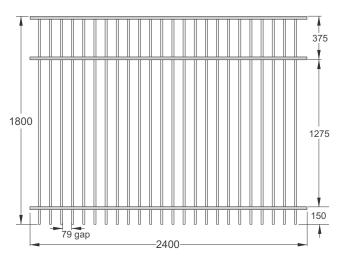


Contemporary Fence and Gate System - Standard Fence, Gate Panels Residential and Pool

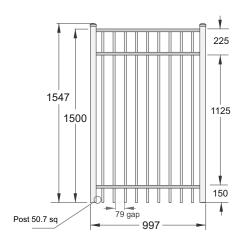
Section 1 General Fences and Gates



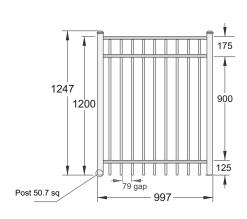
FENCE PANEL FP 15



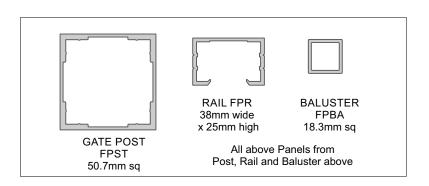
FENCE PANEL FP 18



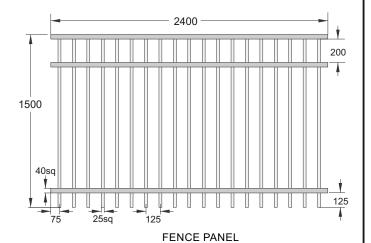
STANDARD GATE PANEL GP 15

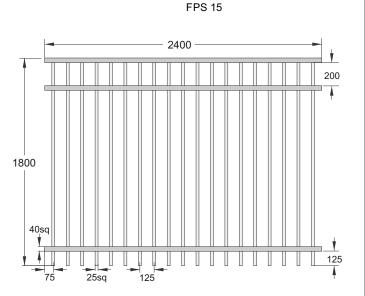


STANDARD GATE PANEL GP 12

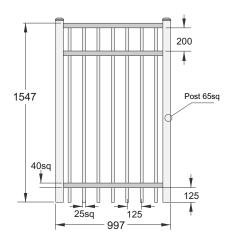


Park and School Care Panels and Gate



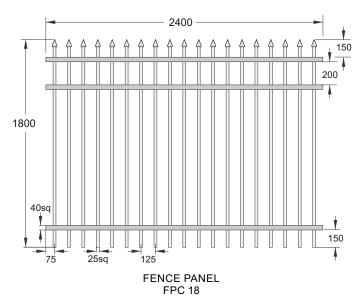


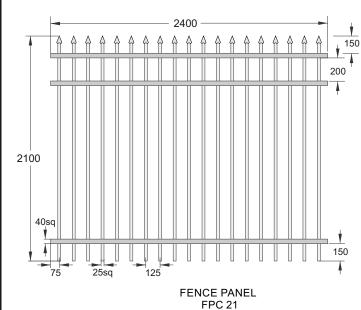
FENCE PANEL FPS 18

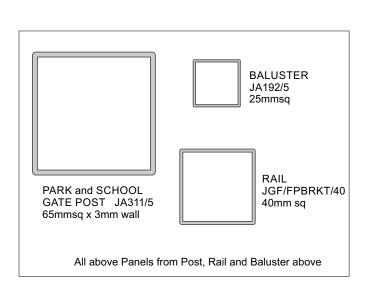


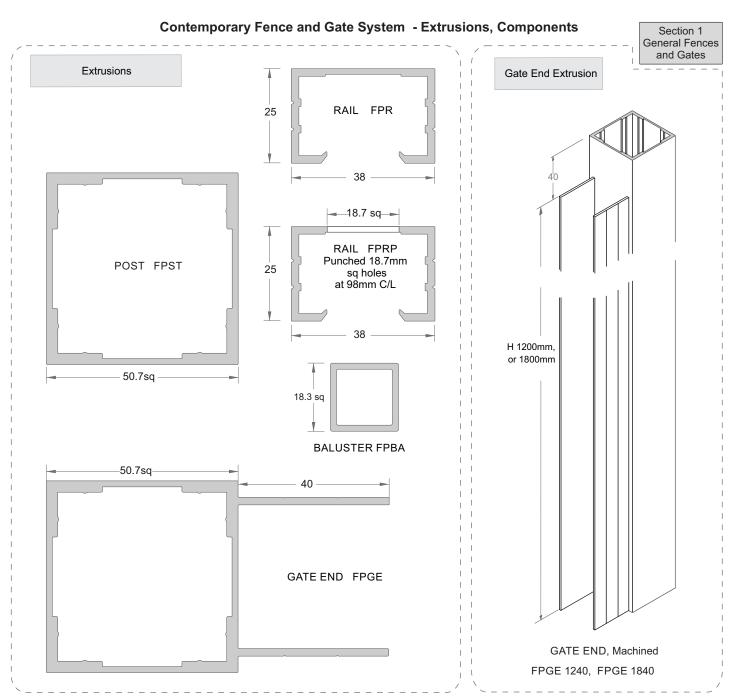
STANDARD GATE PANEL GPS 15

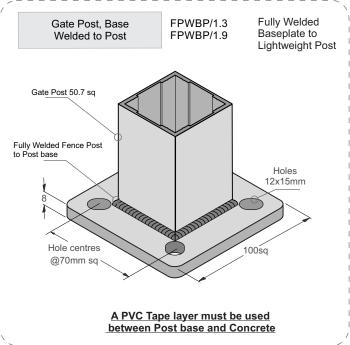
Commercial Panels











(Not shown, square Posts)

FENCE PANEL POST JA311/5 65mm Sq x 3mm

GATE POST JA197/5.8 75mm Sq x 3mm

GATE POST JA98/5.8 100mm Sq x 3mm

Contemporary Fence and Gate System - Components

Section 1 General Fences and Gates

Post Cap JGF/CAP

Fits over Post 50.7mm sq

Post Cap JGF/CAP/65

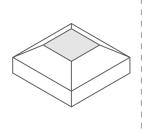
Fits over Post 65 mm sq

Post Cap JGF/CAP/75

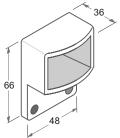
Fits over Post 75 mm sq

Post Cap JGF/CAP/100

Fits over Post 100 mm sq

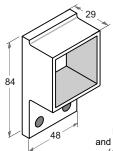






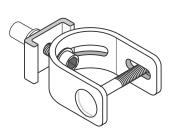
For Residential and Pool (38 wide Rail) Aluminium Body /Black PC

Post Bracket JGF/FPBRKT/40

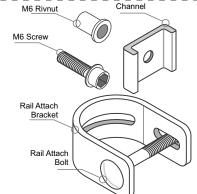


For Park and School Care (40sq Rail) Aluminium Bódy

Post Bracket, Angled FPR BRKT/A

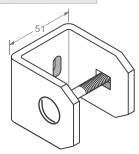


Rail connection, angle adjustable 0 - 40 deg, horizontal plane, ± 40deg, vertical plane



Aluminium Body /Black PC

Post Bracket, Straight FPR BRKT/S

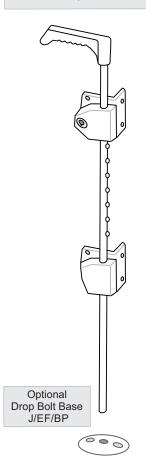


Suitable for 38 and 40 rails Angle adjustable 0±40deg, vertical plane Aluminium Body /Black PC

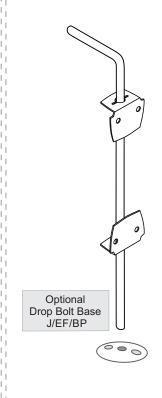
Basic Drop Latch

JEF/BGL/BLK

Drop Bolt - Key Lockable 450mm OA, JEF/DB/450

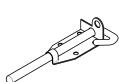


Basic Drop Bolt 350mm OA, JĖF/DB/350



Galvanised Steel, Black PC

Basic Pad Bolt -100mm JEF/BPB/BLK



Galvanised Steel, Black PC



Galvanised Steel, Black PC



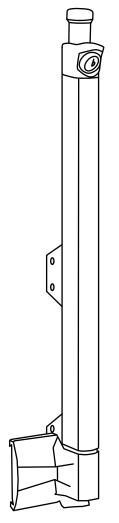
Side Pull Latch Nylon, Black JEF/SP



Not suitable for Pool gates

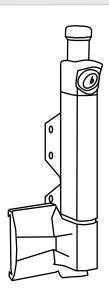


Magnetic Pool Gate Latch - 510mm Nylon, Black JEF/APL



Suitable for Pool gates

Magnetic Pet Latch - 260mm Nylon, Black JEF/APETL

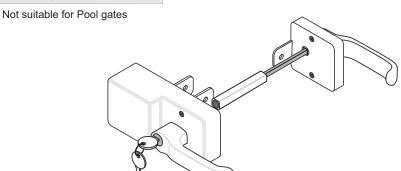


Not suitable for Pool gates

For all above refer to Manufacturers data for correct installation procedures

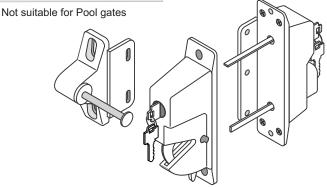
Magnetic Lever Latch 39-120mm Nylon, Black. (External Access) JEF/MLL Double Sided Magnetic Latch

Section 1 General Fences and Gates



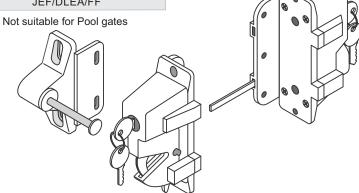
Unscrew and Reverse Lock Backplates for LH/RH installation

Universal Drop Latch and Striker Nylon, Black. (External Access) JEF/DLEA **Double Sided Gravity Latch**



Unscrew and Reverse Lock Backplates for LH/RH installation

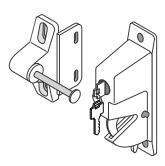
Universal Drop Latch and Striker Nylon, Black. Fast Fit. (External Access) JEF/DLEA/FF **Double Sided Gravity Latch**



Unscrew and Reverse Lock Backplates for LH/RH installation

Universal Drop Latch and Striker Nylon, Black Part No JEF/DL

Not suitable for Pool gates

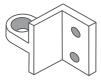


Unscrew and Reverse Lock Backplate for LH/RH installation

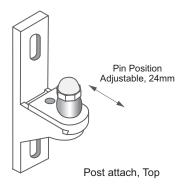


Rising Gate Hinge Set for a Single Leaf. For panels not exceeding 70kg Bronze.

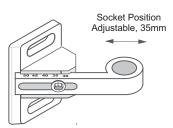
> Corner mount on Gate



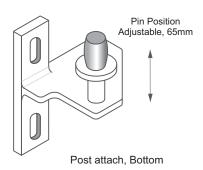
Gate attach, Top



Refer to pages 17-18 for Rising Gate hinge details and calculations

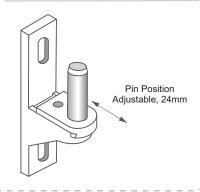


Gate attach, Bottom

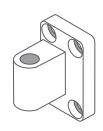


Refer to pages 17-18 for Rising Gate hinge details and calculations

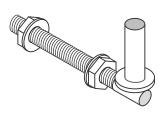
Hinge 14mm dia. For panels not exceeding 80kg .Bronze G10



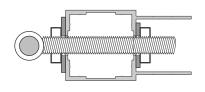
Hinge Socket 14mm dia. For panels not exceeding 80kg .Bronze G16



Hinge 13mm dia. For panels not exceeding 40kg. 304 SS G14



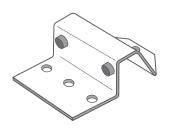
Male 13mm Pin for attaching to Gate. 95mm of M12 thread.



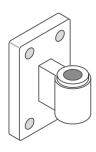
Male pin attached to Gate End - adjustable hinge pin CL from Gate

- use Heavy Washers/Hex huts on both sides (supplied)
- hinge Gap allowance variable, check

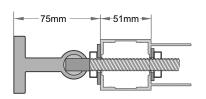
Double Hinged Gate Center Stop 304 SS G20



Hinge 13mm dia. For panels not exceeding 40kg. Aluminium/PC

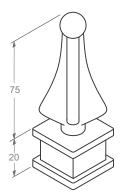


Female 13mm socket for attaching to Post. Self lubricated Nylon Bearing, 4 x 8.5mm dia holes



Standard Hinge Gap G13 + G14 SS Hinge

Cast Arrowhead FPAH 1 95mm High x 28mm sq



Fits to top of Baluster- Tap over baluster, friction fit

Note - When using the Arrowheads,

- 1 Deburr inside baluster ends
- 2 Mark a line 16mm down the baluster with a soft pencil
- 3 Tap the arrow head gently down to the line.

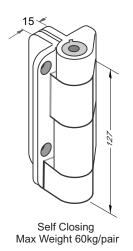
Arrowheads are very difficult to remove once in place.

Contemporary Fence and Gate System - Components

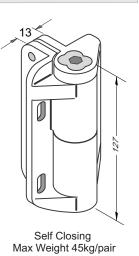
Section 1 General Fences and Gates

Extra Heavy Duty Adjustable Tension Hinge, Legs. Nylon, Black. Pairs JEF/ADEHD

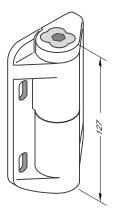
П



Heavy Duty Adjustable Tension Hinge, Legs. Nylon, Black. Pairs JEF/AHHD

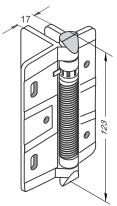


Heavy Duty Adjustable Tension Hinge, No legs. Nylon, Black. Pairs JEF/AHHD/WOL



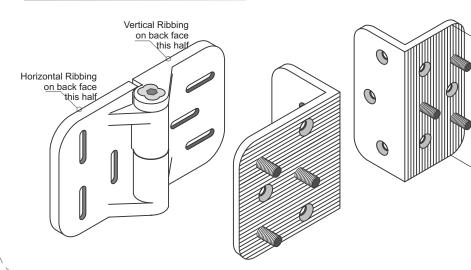
Self Closing Max Weight 45kg/pair

Light Duty Fast Fix, Adjustable Tension Nylon, Black. Pairs JEF/AHFF

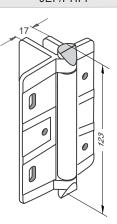


Self Closing Max Weight 20kg/pair

Adjustable Tension Hinge, Adjustable Legs Nylon, Black. Heavy Duty JEF/AHHD/2ALS (Pairs) Suitable for Driveway gates Self Closing. Max Weight 45kg/pair. Vertical adjustment 25mm. Horizontal adjustment 25mm



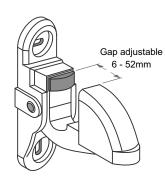
Light Duty
Fast Fix, Plain Hinge
Nylon, Black. Pairs
JEF/PHFF



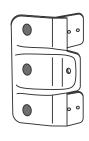
Self Closing Max Weight 20kg/pair Not suitable for Pool Gates

For all above refer to Manufacturers data for correct installation procedures

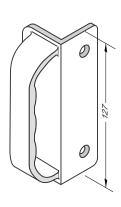
Parking Latch Nylon, Black.



Soft Gate Stop Nylon, Black. JEF/GS



Gate Handle Nylon, Black. JEF/GH



Heavy Duty Hinge Toe Cap JEF/AHHDCAP

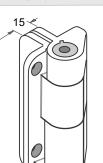


Safety Cap for AHHD Heavy Duty Hinges and AHHD/WOL Hinges

Contemporary Fence and Gate System - Hinge Install

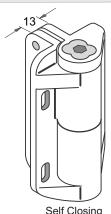
Section 1 General Fences and Gates

Extra Heavy Duty Adjustable Tension Hinge, Legs. Nylon, Black. Pairs JÉF/ADEHD



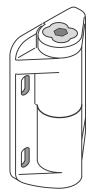
Self Closing Max Weight 60kg

Heavy Duty Adjustable Tension Hinge, Legs. Nylon, Black. Pairs JÉF/ÁHHD



Self Closing Max Weight 45kg/pair

Heavy Duty Adjustable Tension Hinge, No legs. Nylon, Black. Pairs JEF/AHHD/WOL



Self Closing Max Weight 45kg/pair

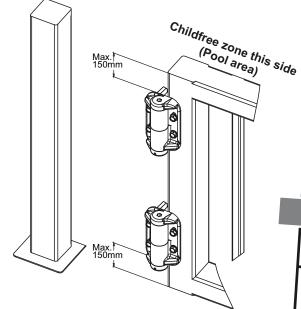
Important Note:

Swimming pool gates, fences and their hardware systems are designed to aid and not substitute for adult supervision. To the extent this product is used around a pool, prior to installing, consult local licensing and safety authorities for approvals and/or requirements. This Hinge will operate properly only if installed in accordance with instructions.





Fastener pack supplied with Hinge



Lay the gate flat. Position Hinges more than 100mm from top/bottom edges. Mark Hinge holes. Mount Hinges to the Gate. Hold the Gate/Hinges against post and mark holes then mount it. Use all fasteners provided.

> Two types of fasteners are supplied. Note: ForJEF/AHHD type only



With Gate closed adjust the tension of both hinges. Using the 6mm allen key provided, rotate in 1/4 increments.

Turn clockwise to in crease tension. Turn it in the opposite direction to reduce tension.-

Warning:

Don't rotate tensioner more than two full turns. **Important:**

Support the gate weight while adjusting tension



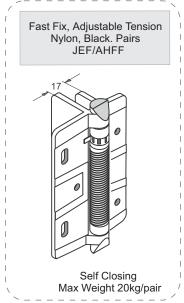
Add the Anti-Step cap to the bottom hinge. Note locator notch on both parts. Nip it up with a screwdriver. Slightly open gate 25mm to check the gate closes.



FINISH

Maintenance

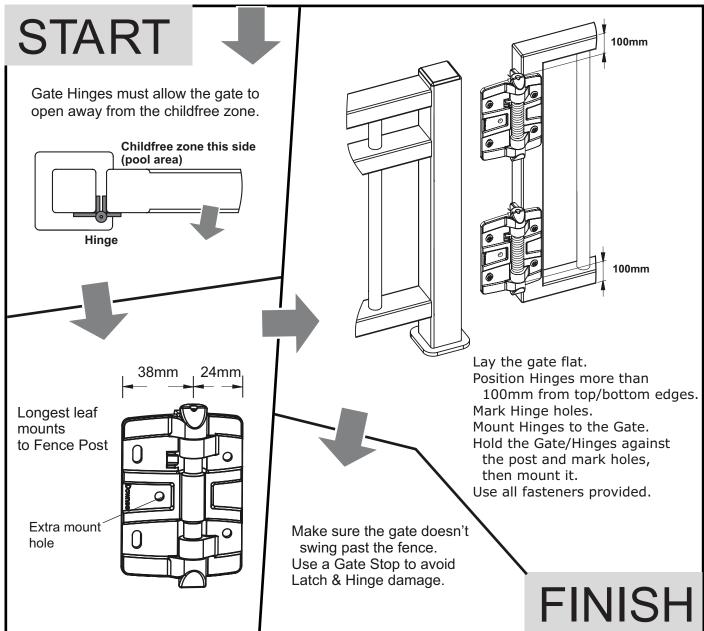
- · Annually inspect hinges or more frequently if the gate is used often.
- Only lubricate with powdered graphite lubricant. Do not use petroleum products



Important Note:

Swimming pool gates, fences and their hardware systems are designed to aid and not substitute for adult supervision. To the extent this product is used around a pool, prior to installing, consult local licensing and safety authorities for approvals and/or requirements.

This Hinge will operate properly only if installed in accordance with instructions.



Maintenance

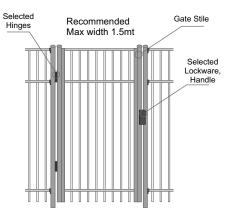
- Annually inspect hinges or more frequently if the gate is used often.
- Only lubricate with powdered graphite lubricant. Do not use petroleum products

Contemporary Fence and Gate System - Gates

Section 1 General Fences and Gates

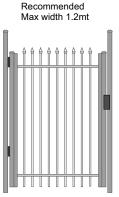
Custom Gates

Gates can be made to custom sizes and shapes from either 900,1200,1350,1500 or 1800mm high fencing up to a maximum width of 1.5mt. See the following pages for a variety of Hinge and Lockware options. A Rising hinge is available for installation on sloping ground.



Max width 1.5mt

Recommended





Typical Gate Plain

Plain top + Arrow

Plain + Arrow

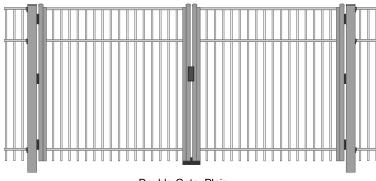
Round Arrow Attached Decorative Scroll work

Recommended Max width 1.5mt when using FPGE Gate Stiles



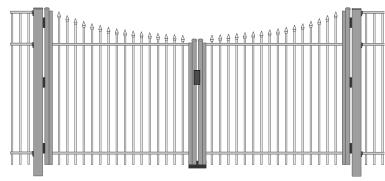
Double Gate, incl Pedestrian access. Attached Decorative Scroll work





Double Gate, Plain

Recommended Max width 1.2mt when using FPGE Gate Stiles



Double Gate, Scalloped. Arrow Head top

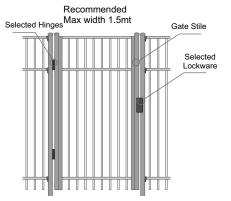
Contemporary Fence and Gate System - Custom Gates

Section 1 General Fences and Gates

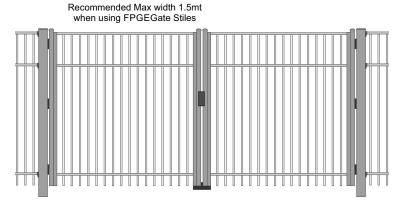
Custom Gates

Starting with the standard Fence Panels and using the Gate Stile custom Gates can be created. Use with standard hinges and Lockware.

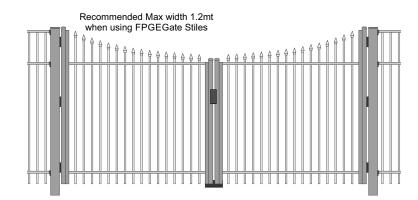
The same layouts apply to 1200mm high fences



Pedestrian Gate
- For 1000mm fencing max Width is 900mm



Double Gate, Plain



Double Gate, Scalloped. Arrow Head top

Use Post 100mm Sq (Part No JA 306) mounted in Ground for: 1200mm high Gates over 1.6m wide

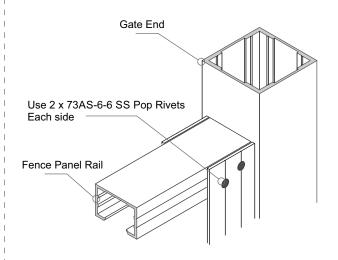
1350mm high Gates over 1.4m wide and

1800mm high Gates over 1.2mm wide

Gates using the 100sq post should always have 3 x hinges per gate unless using the Rising Hinge

Gate End - Attach

The Gate End must be securely attached to the Fence Panel Rails. Use 4 x SS Pop rivets per Rail connection to Gate end



Note - For 1500 high fencing, cut down the 1840 long Gate Stile to 1540mm.

Note - For 1000 high fencing, cut down the 1240 long Gate Stile to 1040mm (max width 900mm)

Double Gate Stops

1 - In the Closed position always use a G20 Double Gate Center stop.

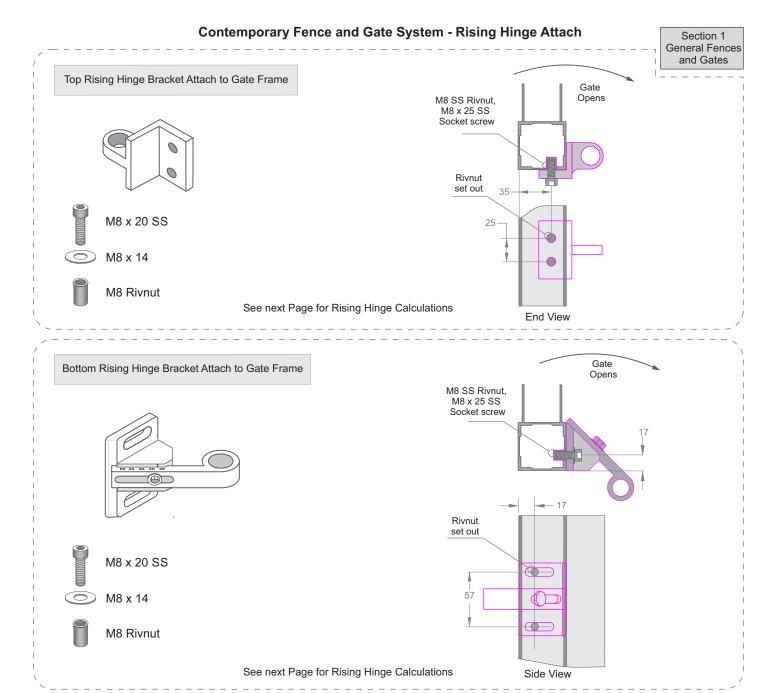


2 - In the Open position always use a G21 Parking latch.

Pack up if necessary so the Gate ends re

Pack up if necessary so the Gate ends rest on the latch.

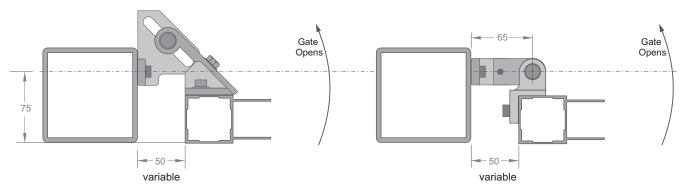




Contemporary Fence and Gate System - Rising Hinge Setout, Calculations

Rising Hinge Setout

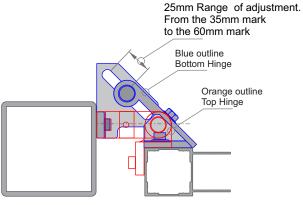
POST 100mm Sq. Part No JA 306 For gates over 1.6mm wide x 1200high or gates over 1.2mm wide x 1800high Section 1 General Fences and Gates

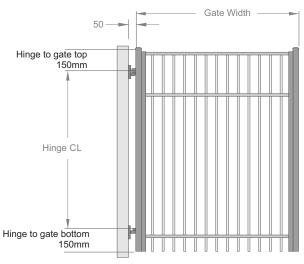


Bottom Hinge - Plan view

Top Hinge - Plan view

Rising Hinge Calculations, Level closed, raised open





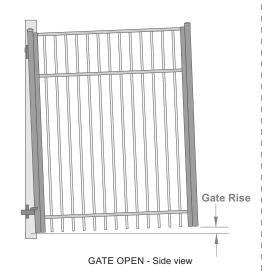
GATE CLOSED - Front view

GATE RISE CALCULATIONS

Bottom Hinge at Minimum, 35mm adjustment							
			Gate Width				
Gate Height	Hinge CL	1000	1200	1400	1600	1800	2000
1200	900	72	87	101	116	130	144
1350	1050	62	74	87	99	111	124
1500	1200	54	65	76	87	98	108
1650	1350	48	58	67	77	87	96
1800	1550	42	50	59	67	75	84

Bottom Hinge at Middle, 47mm adjustment							
		Gate Width					
Gate Height	Hinge CL	1000	1200	1400	1600	1800	2000
1200	900	94	113	132	151	170	189
1350	1050	81	97	113	130	146	162
1500	1200	71	85	99	113	128	142
1650	1350	63	76	88	101	113	126
1800	1550	55	66	77	88	99	110

Bottom Hinge at Maximum, 60mm adjustment							
		Gate Width					
Gate Height	Hinge CL	1000	1200	1400	1600	1800	2000
1200	900	117	140	163	187	210	233
1350	1050	100	120	140	160	180	200
1500	1200	88	105	123	140	158	175
1650	1350	78	93	109	124	140	156
1800	1550	68	81	95	108	122	135

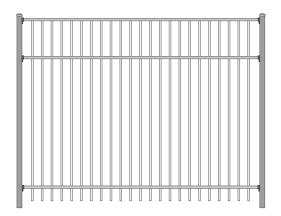


Contemporary Fence and Gate System - Custom Height

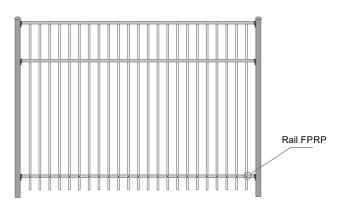
Section 1 General Fences and Gates

Custom Panels

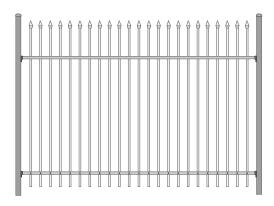
Starting with the standard Fence Panels and using the Pre punched Rail custom height Panels / Gates can be created.



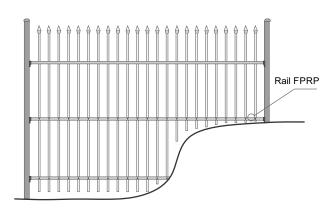
Standard Fence Panel



Custom Height Fence Panel



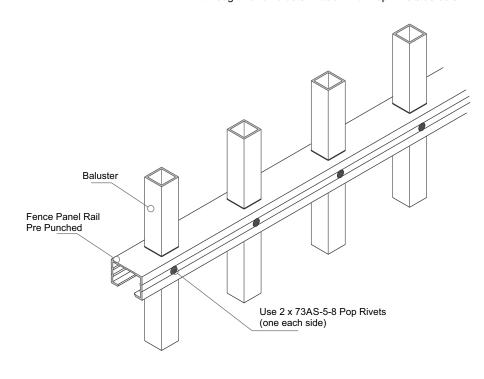
Custom Height Fence Panel, with ArrowHeads



Custom Height Fence Panel, over uneven ground

Using a Standard Fence panel, cut desired amount off the base. Then slide up the Pre punched Rail.

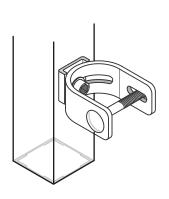
Drill through Rail / Baluster. Attach with Pop Rivets as below

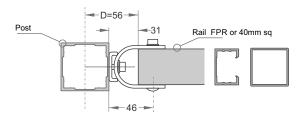


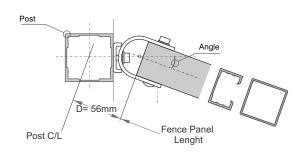
Contemporary Fence and Gate System - Angle Bracket, Post Fixing

Section 1 General Fences and Gates

Angle Allowance Bracket FPR BRKT/A Bracket for all Racking and angled connections







Because of tolerances in Rail clamp bolt and Drilled hole, Dimension D will stay constant at 56mm regardless of angle

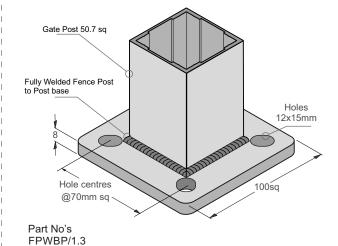
Post, Attach to Ground

Top Fixed Posts Use welded base for ALL Gates

Recommended Fixing Details - Not covered by PS1

Gate Post, Base Welded to Post Fully Welded Baseplate to Lightweight Post

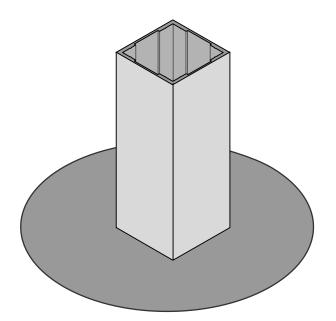
Gate Post, Embed



Attach Post Base to <u>Timber</u>
- 4 x M10 x 105 Stainless Coach Screws

Attach Post Base to <u>Concrete</u>
- 4 x M10 x 120 Stainless Studs
Embedded 100mm min into 20MPa concrete
with Fischer FIS V

A PVC Tape layer must be used between Post base and Concrete



Attach Post into Concrete

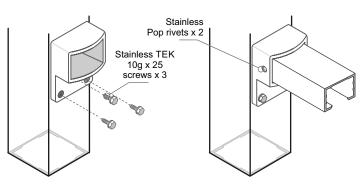
- Post must be fully wrapped with PVC Tape
- Hole, minimum 200mm dia
- Depth, minimum 1/3 Post height

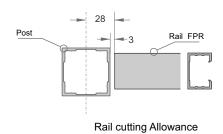
FPWBP/1.9

Contemporary Fence and Gate System - Fence Panel Fixing

Section 1 General Fences and Gates

Attach to Fence to Post Bracket FP BRKT Standard Bracket for all normal Level, straight connections



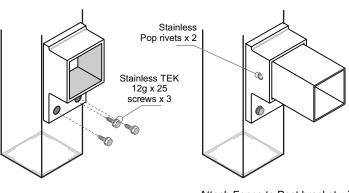


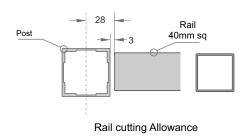
Attach Post Bracket with - 3 x Stainless TEK screws

Attach Fence to Post bracket with - 2 x Stainless pop rivets.
Fence can be up to 10deg angle (horziontal plane) to Post Bracket

Attach to Fence to Post Bracket FP/BRKT/40

Standard Bracket for all normal Level, straight connections





Attach Post Bracket with - 3 x Stainless TEK screws

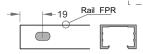
Attach Fence to Post bracket with - 2 x Stainless pop rivets.

Contemporary Fence and Gate System - Fence Panel Fixing

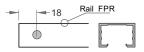
Section 1 General Fences and Gates

Attach to Fence to Post Bracket FPR BRKT/S

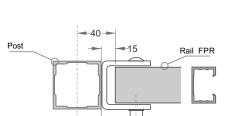
Bracket for all Racking and Straightconnections Suitable for 38 and 40 rails Rail connection, angle adjustable ± 45deg, Vertical plane only Aluminium Body /Black PC



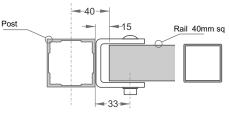
FPR Racking rail comes standard with a pre punched 14mm x 8mm Slot



If cutting drill hole 9mm dia

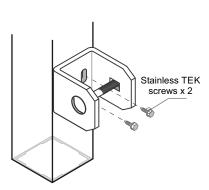


Rail cutting Allowance

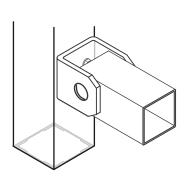


→ 33 **→**

Rail cutting Allowance

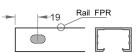


Attach Post Bracket with - 2 x Stainless TEK screws

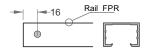


Attach to Fence to Post Bracket FPR BRKT/A

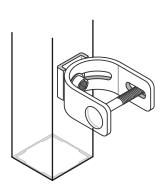
Bracket for all Racking and Angled connections Suitable for 38 and 40 rails Rail connection, angle adjustable 0 - 40 deg, horizontal plane, ± 40deg, vertical plane Aluminium Body /Black PC



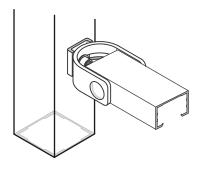
Racking rail comes standard with a pre punched 14mm x 8mm Slot

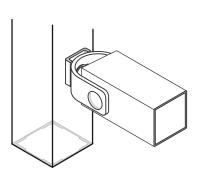


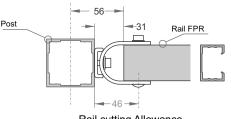
If cutting drill hole 8mm dia



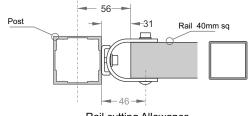
Drill 9mm hole in Post. Attach Post Bracket with 1 x M6 Rivnut (supplied)



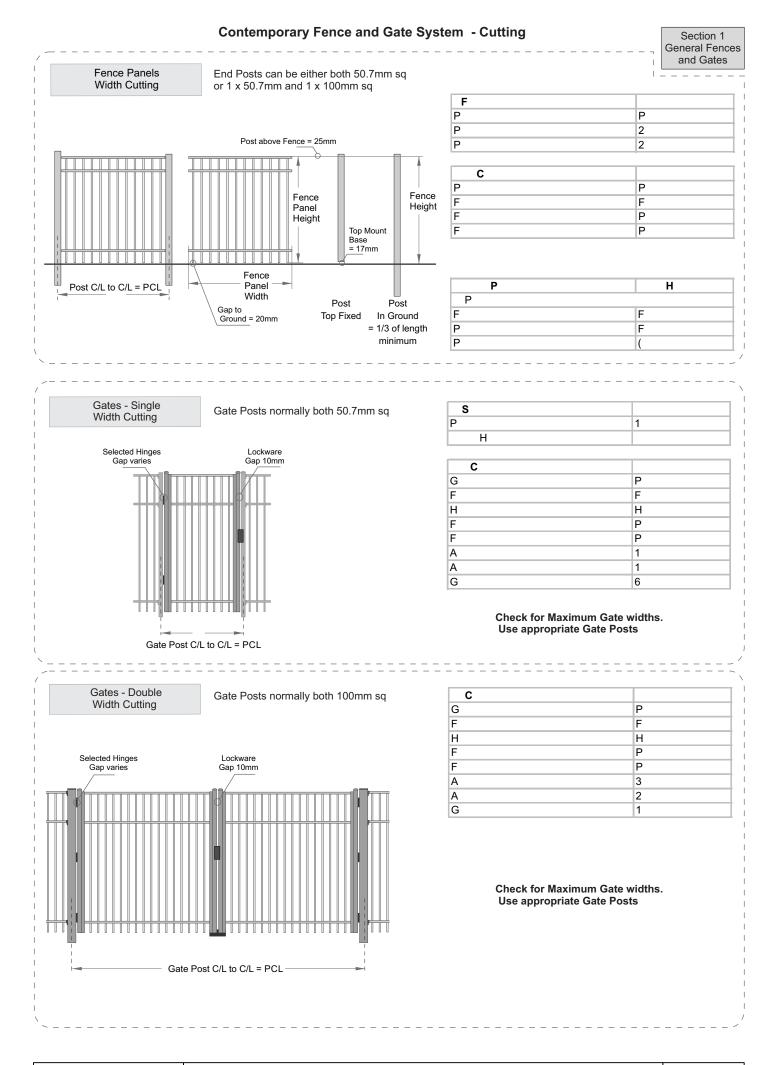




Rail cutting Allowance



Rail cutting Allowance



Contemporary Fence and Gate System - Installation

Section 1 General Fences and Gates

Setout

Set out and Installation

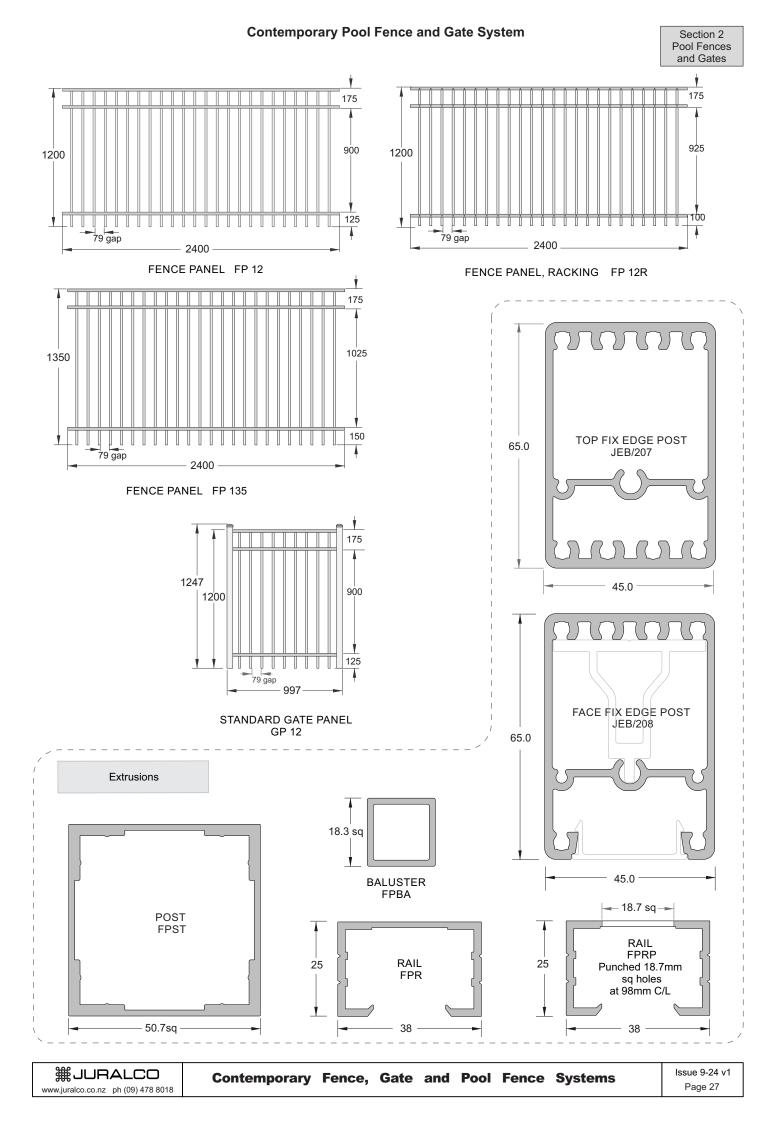
- 1- Use a string line on the ground and mark out the lines where the fence is to be located.
- 2 Preassemble the Gate, Gate post and Hinges.
- 3 Establish the gate position and mark out the gate post centres. These will be 1047mm + 10mm + Hinge gap (13 -19mm)
- 4 At marked centres: Concreting dig two gate holes approximately 200mmdia x 400 500mm deep. For surface mounting, attach two Post Bases to Concrete/Timber using appropriate fasteners
- 5 Support gate assembly with props, check for levels and squareness and concrete in to 200mm say. Clearance under gate not to exceed 100mm.
- 6 Install lockware, make sure all level/square and hinges/lockware all working smoothly.
- 7 Then start installing fencing, panel and post, one unit at a time. Making sure all level and square. Max under fence to ground gap100mm.
- 8 After all in place, check all for squareness. Finish concreting or tightening up base plates.
- 9 Always leave site tidy and clean

CONTEMPORARY POOL FENCE and GATE SYSTEMS

Note: This section covers the requirements for a PS1

If the Fence requested is to enclose an area containing water greater than 400mm deep it must comply with the relevant legislation, which is the Building Code clause F9/AS1 and section 162C of the Building Act.

The components of this Juralco Pool Fence and Gate system are suitable for compliance to the Building Code clause F9/AS1 and section 162C of the Building Act.

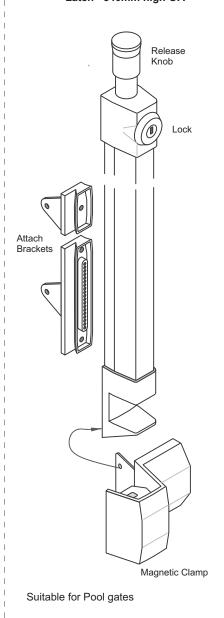


Contemporary Pool Fence and Gate System

Section 2 Pool Fences and Gates

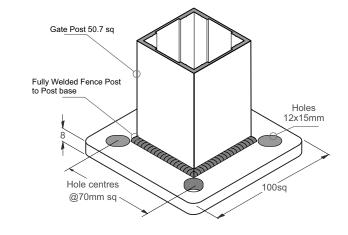
Magnetic Pool Gate Latch Nylon, Black Part No JEF/APL

Latch - 540mm high OA



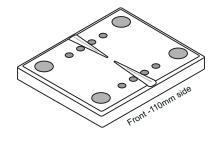
Gate Post, Base Welded to Post Part No FPWBP/1.3

Fully Welded
Baseplate to Lightweight Post
For mounting on Concrete only



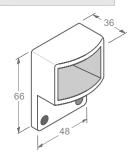
Note: Fully Welded Baseplate to Lightweight Post Mounting on Concrete only

EDGE Post Base plate Part No JEC 221



110mm x 90mm x 12mm - 4 x holes

Post Bracket Part No FP BRKT



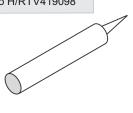
For Residential and Pool (38 wide Rail) Aluminium Body /Black PC

SIKA Supergrip Part No JECSUPERGRIP30



For All Coachscrews fixings

Rhodorsil V60 Clear Silicone Part No H/RTV419098



Construction Silicone

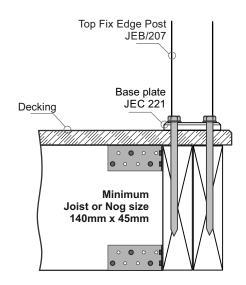
Typical TOP Fix to Timber - JEC 221, 110mm x 90mm, 4 hole Base Plate - M10 Coachscrews

For Pool Fences only

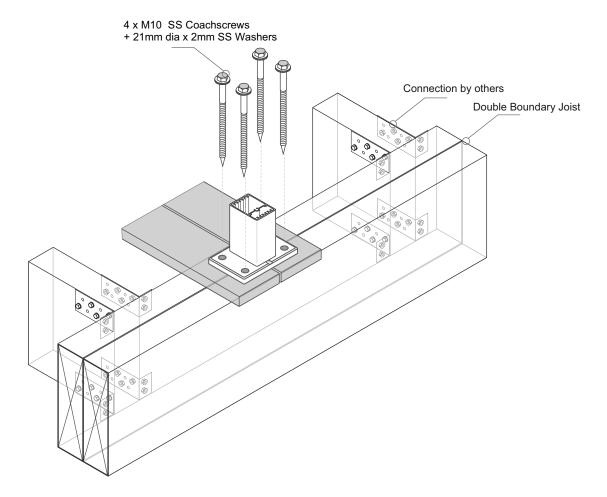
Wind Zone	Post Spacing (max)	Pool Fence Height (max)
Extra High	2400	1449

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Substructure shown indicatively only. Timber SG8 minimum strength
- 3 Coachscrews 100mm engagement into joists. All coachscrews predrill 6mm holes
- 4 Bond all coachscrews with SIKA Supergrip to full depth
- 6 EDGE post above for use with Pool Panels, FP12, FP12R and FP135
- 7 All Fixings must be Stainless steel



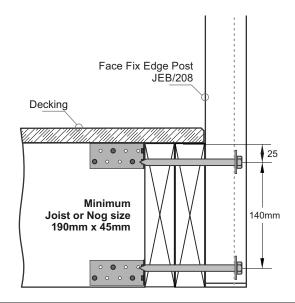
Typical FACE Fix Post to Timber - M10 Coachscrews

For Pool Fences only

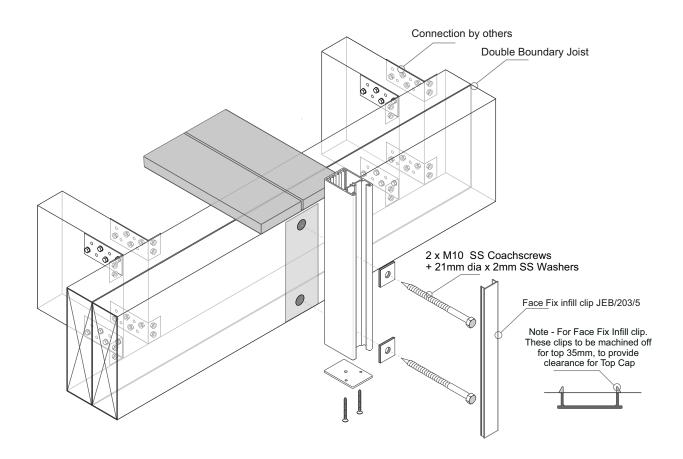
Wind Zone	Post Spacing (max)	Pool Fence Height (max)
Extra High	2400	1449

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Substructure shown indicatively only. Timber SG8 minimum strength
- 3 Coachscrews 90mm engagement into joists. All coachscrews predrill 6mm holes
- 4 Bond all coachscrews with SIKA Supergrip to full depth
- 5 EDGE post above for use with Pool Panels, FP12, FP12R and FP135
- 6 All Fixings must be Stainless steel



Typical TOP Fix to Concrete - Welded Base/Post. 4 x Holes M10 SS Studs

For Pool Fences only

Wind Zone	Post Spacing (max)	Pool Fence Height (max)
Extra High	2400	1250

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



Installation details Fischer FIS V 410C

Thread diameter M10
Drill hole diameter = 12 mm
Drill hole depth = 95mm
Anchorage depth = 85mm

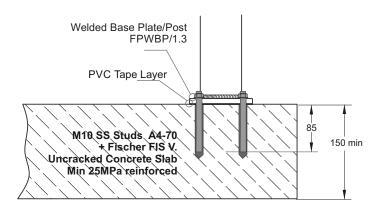
Drilling method
Drill hole cleaning

Hammer drilling 4 times blowing,

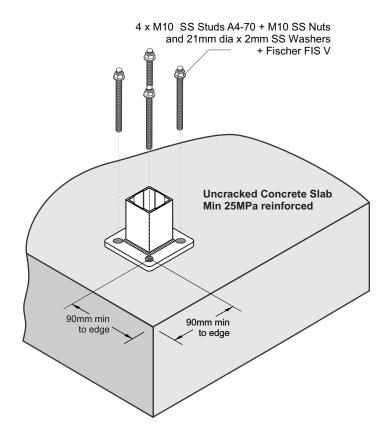
4 times browning,

4 times blowing

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



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Substructure shown indicatively only
- 3 Fixings must engage into the structural slab
- 4 A PVC Tape layer must be installed between the Baseplate and Concrete
- 5 Welded Base/Post only suitable for Concrete
- 6 Use Threadlok on Nuts
- 7 Post above for use with Pool Panels, FP12 and FP12R only
- 8 All fixings must be Stainless Steel



Typical TOP Fix to Concrete - JEC221, 110mm x 90mm, 4 hole Base Plate for M12 SS Studs A4-70 + Fischer FISV

For Pool Fences only

Wind Zone	Post Spacing (max)	Pool Fence Height (max)
Extra High	2400	1250

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



Installation details Fischer FIS V 410C

Thread diameter M10

Drill hole diameter = 12 mm

Drill hole depth = 95mm

Anchorage depth = 85mm

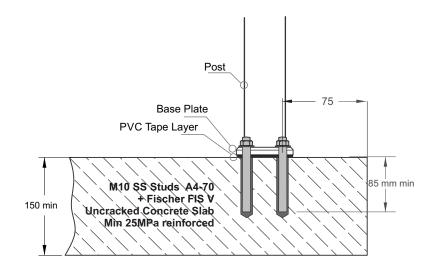
Drilling method
Drill hole cleaning

Hammer drilling 4 times blowing,

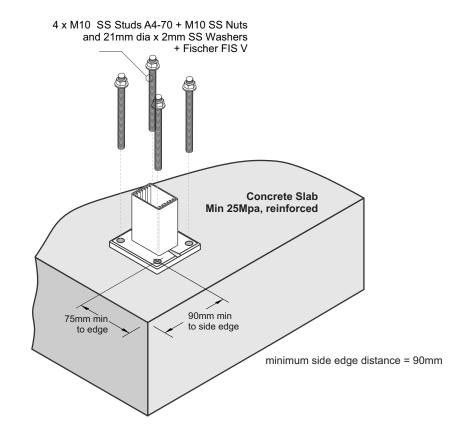
4 times brushing,

4 times blowing

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



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 Substructure shown indicatively only
- 3 Fixings must engage into the structural slab
- 4 A PVC Tape layer must be installed between the Baseplate and Concrete
- 5 Welded Base/Post only suitable for Concrete
- 6 Use Threadlok on Nuts
- 7 Post above for use with Pool Panels, FP12, FP12R
- 8 All fixings must be Stainless Steel



Typical FACE Fix Post to Concrete - M10 Studs

For Pool Fences only

Wind Zone	Post Spacing (max)	Pool Fence Height (max)
Extra High	2400	1449

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



Installation details Fischer FIS V 300T

Thread diameter M10

Drill hole diameter = 12 mm

Drill hole depth = 160mm

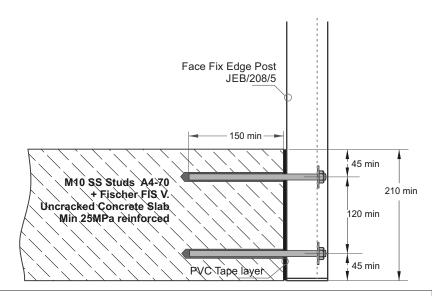
Anchorage depth = 150mm

Drilling method Drill hole cleaning Hammer drilling 4 times blowing,

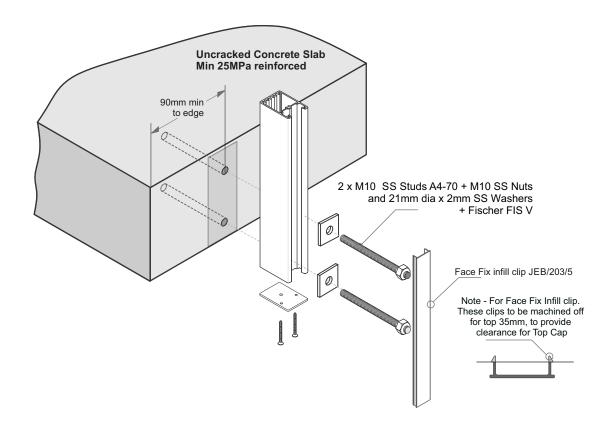
4 times brushing,

4 times blowing

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



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 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 EDGE post above for use with Pool Panels, FP12, FP12R and FP135
- 6 Use Threadlok on Nuts
- 7 All fixings must be Stainless Steel



Typical FACE Fix Post to Concrete Block - M12 Studs

For Pool Fences only

Wind Zone	Post Spacing (max)	Pool Fence Height (max)	
Extra High	2400	1449	

General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



Installation details Hilti RE-500 V4

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

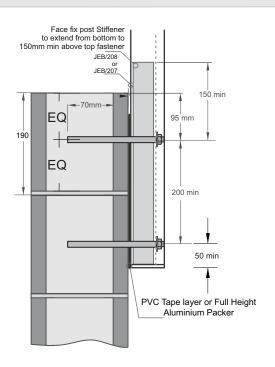
Drilling method
Drill hole cleaning

Hammer drilling 4 times blowing,

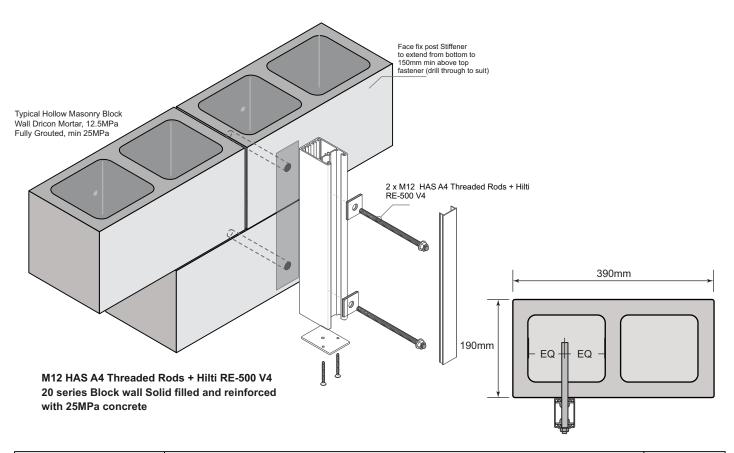
4 times brushing,

4 times blowing

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



- 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 EDGE post above for use with Pool Panels, FP12, FP12R and FP135
- 6 Use Threadlok on Nuts
- 7 All fixings must be Stainless Steel



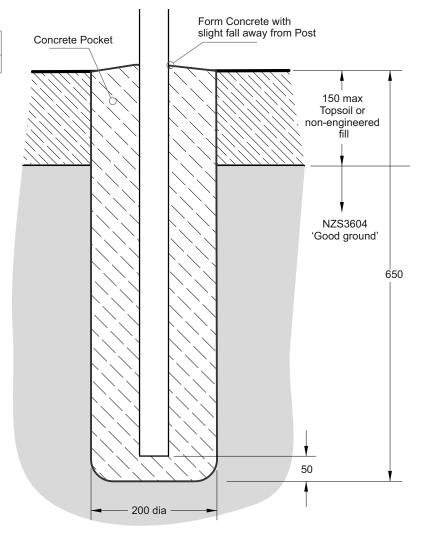
Typical Post Embed in Concrete

For Pool Fences only

Wind Zone	Post Spacing (max)	Pool Fence Height (max)	
Extra High	2400	1449	

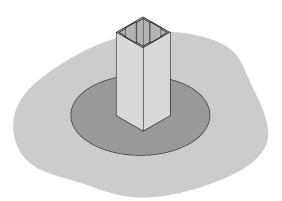
General Notes:

- 1 All measurements mm
- 2 Pool Fence Height, above Deck
- 3 Not for use where protecting a fall of 1.0m or more



- 1 The Project Engineer must ensure the structure can support the appropriate loads
- 2 A PVC Tape layer must be fully wrapped around the Post
- 3 Use Dricon Rapidset concrete mix or similar
- 4 Post embedded centrally into a 200mmm dia hole.

 Concrete 25MPa min. All into flat 'good ground' as per NZS3604



Contemporary Pool Fence and Gate System

Section 2 Pool Fences and Gates

If the Fence requested is to enclose an area containing water greater than 400mm deep it must comply with the relevant legislation, which is the Building Code clause F9/AS1 and section 162C of the Building Act.

The components of this fencing system are suitable for compliance to the Building Code clause F9/AS1 and section 162C of the Building Act.

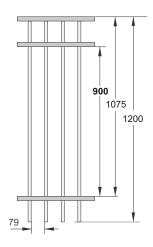
- 1 The Pool fence may be a complete isolation barrier (4 x sides)
- 2 or it may incorporate sections of an existing boundary fence
- 3 and/or parts of the house.

1 - Fence Enclosure Requirements

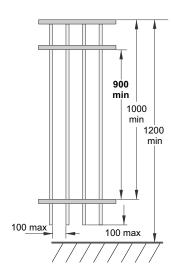
Important Note: The information shown is to be used as a guide only and does not represent full compliance with the requirements in NZBC Section F9 and the building Act Section 162C.

Refer to F9/AS1 for additional information

Note: A Building Consent is required when installing or replacing a Swimming Pool Fence. Refer to NZBC Clause F9



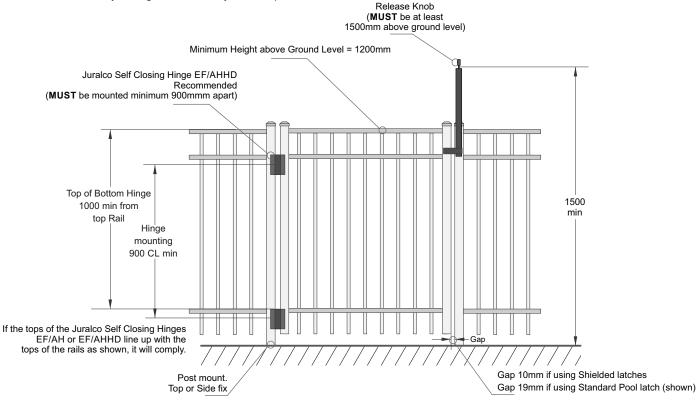
Juralco Fencing Complies if mounted no more than 100mm above Ground Level



NZS 8500:2006 and NZ Building Code clause F9/AS1 Pool Fencing Requirements

2 - Gate Requirements

- Gates must always swing outwards, away from the pool area



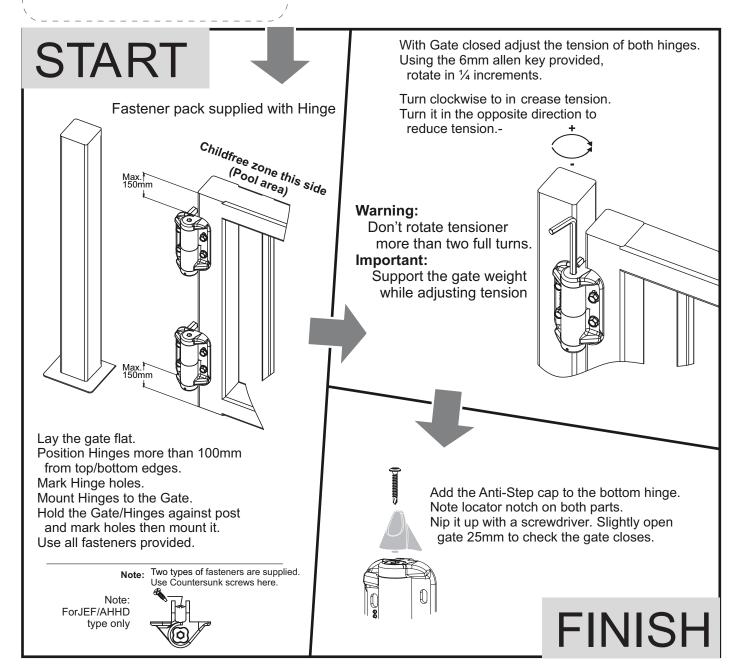
Heavy Duty
Adjustable Tension Hinge,
Legs. Nylon, Black. Pairs
Part No JEF/AHHD



Self Closing Max Weight 45kg

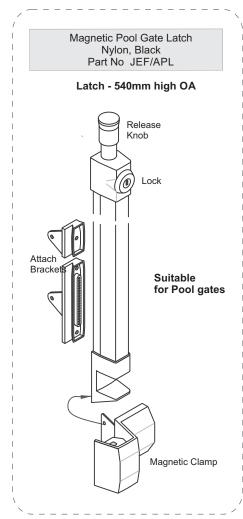
Important Note:

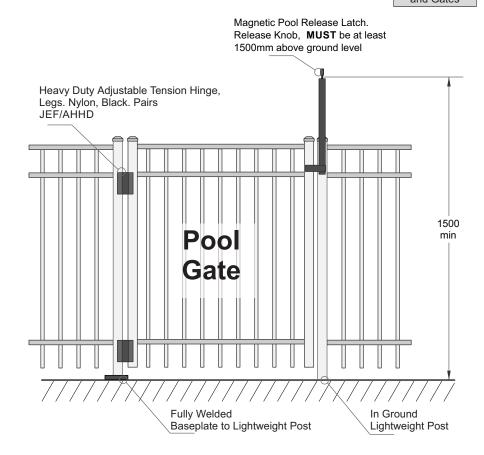
Swimming pool gates, fences and their hardware systems are designed to aid and not substitute for adult supervision. To the extent this product is used around a pool, prior to installing, consult local licensing and safety authorities for approvals and/or requirements. This Hinge will operate properly only if installed in accordance with instructions.



Maintenance

- Annually inspect hinges or more frequently if the gate is used often.
- Only lubricate with powdered graphite lubricant. Do not use petroleum products





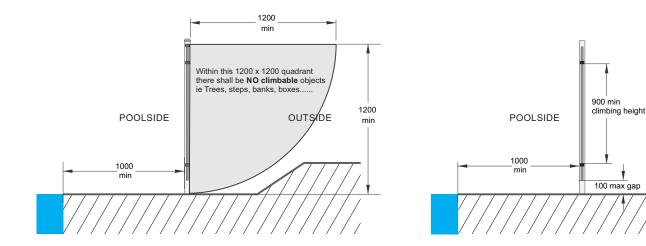
Gates must always swing outwards, away from the pool area

OUTSIDE

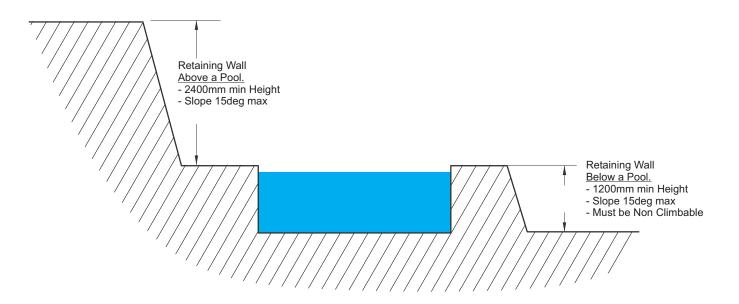
3 - Location Requirements

No part of the Pool enclosure must permit children to climb over a Pool enclosure fence. A Pool barrier that is located on a property boundary shall be not less than 1800mm high, measured from the ground level on the Pool side and be located not less than 1000mm horizontally from the waters edge.

- The three key measurements are 1200mm min height, a 100mm max gap under the fence and 900mm min climbing height
 - a Effective Fence Height



b - Retaining Walls



Important Note: The information shown is to be used as a guide only and does not represent full compliance with the requirements in NZBC Section F9 and the building Act Section 162C. Refer to F9/AS1 for additional information

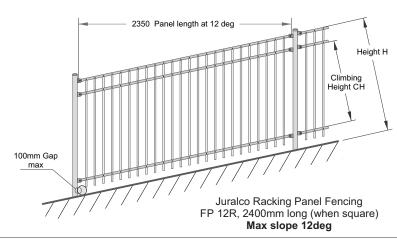
Contemporary Pool Fence and Gate System

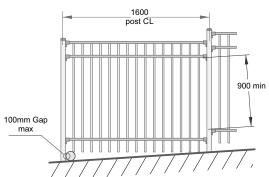
Pool Fencing on Sloping Ground

- All NZS height measurements are perpendicular to the ground, not vertical
- The three key measurements are 1200mm min height, a 100mm max gap under the fence and 900mm min climbing height

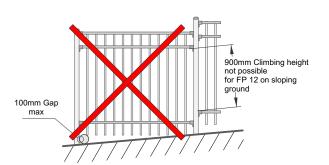
For Juralco Fencing being installed on sloping ground - use either the Racking Panel or the Level and Step method (unsuitable for FP12 fence) The Racking Panel adjustable to the required slope up to 12 deg and is not welded.

Shown below are various possibilities, while maintaining a 100mm max gap under the fence.

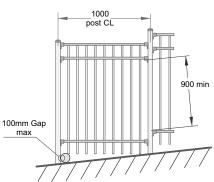




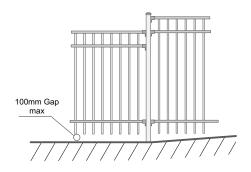
Juralco Fixed Panel Fencing FP 135 (not FP12) Post CL @ 4deg slope



Never use FP12 Fencing on sloping ground Climbing height cannot be 900



Juralco Fixed Panel Fencing FP 135 (not FP12) Post CL @ 7deg slope



Juralco Fixed Panel Fencing FP 12 Panel on level ground joining to a FP 135 on sloping ground

WARNING

For Fences enclosing Swimming Pools, above or below Ground

While the construction of this fence complies with the Building Code clause F9/AS1 and section 162C of the Building Act the layout and installation must be approved by the owner and the local Council.

- Your layout is a recommendation only to the owner.
- It is the owners responsibility to ensure that the fence's layout complies with the local body regulations.
- The regulations can be subject to individual local body interpretation.
- It is up to the owner to ensure in each individual case that the pool fence meets the requirements of their local Council.
- Do not install without sighting the Council approval documentation.

Important Note: The information shown is to be used as a guide only and does not represent full compliance with the requirements in NZBC Section F9 and the building Act Section 162C. Refer to F9/AS1 for additional information

Section 2 Pool Fences

and Gates

Contemporary Fence, Gate and Pool Fence Systems - Powder Coating Care and Maintenance

Powder Coating Installation Care

Warning re use of solvents:

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

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

Joinery Protection during Installation:

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

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

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

"IMPORTANT ALL TRADES"

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

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



Powder Coating Maintenance

External - Maintenance Program:

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

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

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

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

Cleaning your powder coating:

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

Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces

Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.

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

Dabsticks may not be available in all colour card colours.

Repair of Weathered areas .

Dulux Gloss Up is a light to medium cutting cream ideally

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

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

Contact Dulux Powder Coatings, ph 0064 9 441 8244

All pages © Copyright Juralco Aluminium Building Products Ltd, 2022





