

## CONTEMPORARY FENCE, GATE and POOL FENCE SYSTEMS

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

For more than 25 years we have been at the forefront of specialist aluminium door and window products suitable for New Zealand joinery and building methods. Our comprehensive product range includes security and insect screens, balustrades and gates, 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. 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 1800 mm high $\times 2400 \mathrm{~mm}$ long.
- Standard gates are of the same construction, but 1247 mm or 1547 mm high $\times 997 \mathrm{~mm}$ 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.


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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
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Important instructions for Powder Coatings near Salt Water
The standard Dulux powder coating system used by Juralco is Duralloy ${ }^{\circledR}$ and is suitable for installations greater than 100 metres from high tide level and for buildings up to 3 stories above ground. Use Duratec ${ }^{\circledR}$ 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 ${ }^{\circledR}$ system. If the Duratec ${ }^{\circledR}$ system is required it must be specified upon placement of the order and will incur a surcharge - Duratec ${ }^{\circledR}$ 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.

(for Swimming Pools, all Panels Suitable except 1000 mm high)


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

Typical Elevations - Sloping Ground - Racked Panel (Only available for 1200 mm high Panels,

500 mm rise over 2400 mm max $=12 \mathrm{deg}$ )

Refer later pages for more information on Swimming Pool requirements


## Contemporary Fence and Gate System - Standard Fence, Gate Panels





FENCE PANEL FP 15


FENCE PANEL FP 18


STANDARD GATE PANEL GP 15


STANDARD GATE PANEL GP 12


GATE POST
FPST
50.7 mm sq


RAIL FPR
38 mm wide $\times 25 \mathrm{~mm}$ high


BALUSTER
FPBA
18.3 mm sq
All above Panels from
Post, Rail and Baluster above



BALUSTER FPBA


Gate End Extrusion


GATE END, Machined FPGE 1240, FPGE 1840

(Not shown, square Posts)
FENCE PANEL POST JA311/5
65 mm Sq $\times 3 \mathrm{~mm}$

GATE POST JA197/5.8
75 mm Sq $\times 3 \mathrm{~mm}$

GATE POST JA98/5.8 100 mm Sq $\times 3 \mathrm{~mm}$

Post Cap JGF/CAP
Fits over Post 50.7 mm 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

## Post Bracket FP BRKT



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


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


Basic Drop Bolt 350mm OA, JEF/DB/350


Galvanised Steel,
Black PC


Galvanised Steel, Black PC

> Side Pull Latch Nylon, Black JEF/SP


Not suitable for Pool gates


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 $39-120 \mathrm{~mm}$ Nylon, Black. (External Access) JEF/MLL
Not suitable for Pool gates


Unscrew and Reverse Lock Backplates for LH/RH installation

Universal Drop Latch and Striker
Nylon, Black. (External Access)
JEF/DLEA
Not suitable for Pool gates


## 

Universal Drop Latch and Striker
Nylon, Black. Fast Fit. (External Access)
JEF/DLEA/FF
Not suitable for Pool gates


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. G18


Gate attach, Top


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


Gate attach, Bottom


Post attach, Bottom

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

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


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


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


Male 13 mm Pin for attaching to Gate. 95 mm 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


Hinge 13 mm dia. For panels not exceeding 40 kg . Aluminium $/ \mathrm{PC}$ G13


Female 13 mm socket for attaching to Post. Self lubricated Nylon Bearing, $4 \times 8.5 \mathrm{~mm}$ dia holes


Standard Hinge Gap
G13 + G14 SS Hinge


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

[^0]

Self Closing
Max Weight 60kg/pair

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


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

Suitable for Driveway gates
Self Closing. Max Weight $45 \mathrm{~kg} /$ pair.
Vertical adjustment 25 mm . Horizontal adjustment 25 mm


For all above refer to Manufacturers data for correct installation procedures

Parking Latch
Nylon, Black.
G21


```
Soft Gate Stop Nylon, Black. JEF/GS
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Self Closing Max Weight 20kg/pair

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

Heavy Duty Hinge Toe Cap JEF/AHHDCAP


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

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


Self Closing Max Weight 60kg

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

Self Closing Max Weight $45 \mathrm{~kg} /$ pair


Self Closing Max Weight $45 \mathrm{~kg} /$ 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.





Lay the gate flat.
Position Hinges more than 100 mm 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.

With Gate closed adjust the tension of both hinges. Using the 6 mm 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 25 mm 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


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


Self Closing Max Weight 20kg/pair

## START

## 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.

Gate Hinges must allow the gate to open away from the childfree zone.


Longest leaf
mounts
to Fence Post


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


Recommended Max width 1.5 mt when using FPGE Gate Stiles


Double Gate, incl Pedestrian access. Attached Decorative Scroll work


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 to1200mm high fences


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


Double Gate, Plain


Use Post 100 mm Sq (Part No JA 306) mounted in Ground for:
1200 mm high Gates over 1.6 m wide 1350 mm high Gates over 1.4 m wide and
1800 mm high Gates over 1.2 mm wide
Gates using the 100sq post should always have $3 \times$ hinges per gate unless using the Rising Hinge

Double Gate, Scalloped. Arrow Head top


Note - For 1500 high fencing, cut down the 1840 long Gate Stile to 1540 mm . Note - For 1000 high fencing,
cut down the 1240 long Gate Stile to 1040 mm Note - For 1000 high fencing,
cut down the 1240 long Gate Stile to 1040 mm ( max width 900 mm )


## 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 rest on the latch.




End View

Bottom Rising Hinge Bracket Attach to Gate Frame


M8 x 20 SS

M8 $\times 14$

M8 Rivnut


Rising Hinge Calculations,
Level closed, raised open

gate rise calculations

| Bottom Hinge at Minimum, 35mm adjustment |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gate Width |  |  |  |  |  |  |
| Gate Height | Hinge CL | $\mathbf{1 0 0 0}$ | $\mathbf{1 2 0 0}$ | $\mathbf{1 4 0 0}$ | $\mathbf{1 6 0 0}$ | $\mathbf{1 8 0 0}$ | $\mathbf{2 0 0 0}$ |
| $\mathbf{1 2 0 0}$ | $\mathbf{9 0 0}$ | $\mathbf{7 2}$ | 87 | 101 | 116 | 130 | 144 |
| $\mathbf{1 3 5 0}$ | $\mathbf{1 0 5 0}$ | 62 | 74 | 87 | 99 | 111 | 124 |
| $\mathbf{1 5 0 0}$ | $\mathbf{1 2 0 0}$ | 54 | 65 | 76 | 87 | 98 | 108 |
| $\mathbf{1 6 5 0}$ | $\mathbf{1 3 5 0}$ | 48 | 58 | 67 | 77 | 87 | 96 |
| $\mathbf{1 8 0 0}$ | $\mathbf{1 5 5 0}$ | $\mathbf{4 2}$ | 50 | 59 | 67 | 75 | 84 |


| Bottom Hinge at Middle, 47mm adjustment |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gate Width |  |  |  |  |  |  |
| Gate Height | Hinge CL | $\mathbf{1 0 0 0}$ | $\mathbf{1 2 0 0}$ | $\mathbf{1 4 0 0}$ | $\mathbf{1 6 0 0}$ | $\mathbf{1 8 0 0}$ | $\mathbf{2 0 0 0}$ |
| $\mathbf{1 2 0 0}$ | $\mathbf{9 0 0}$ | 94 | 113 | 132 | 151 | 170 | 189 |
| $\mathbf{1 3 5 0}$ | $\mathbf{1 0 5 0}$ | 81 | 97 | 113 | 130 | 146 | 162 |
| $\mathbf{1 5 0 0}$ | $\mathbf{1 2 0 0}$ | 71 | 85 | 99 | 113 | 128 | 142 |
| $\mathbf{1 6 5 0}$ | $\mathbf{1 3 5 0}$ | 63 | 76 | 88 | 101 | 113 | 126 |
| $\mathbf{1 8 0 0}$ | $\mathbf{1 5 5 0}$ | 55 | 66 | 77 | 88 | 99 | 110 |



GATE OPEN - Side view

| Bottom Hinge at Maximum, 60mm adjustment |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gate Width |  |  |  |  |  |  |  |
| Gate Height | Hinge CL | $\mathbf{1 0 0 0}$ | $\mathbf{1 2 0 0}$ | $\mathbf{1 4 0 0}$ | $\mathbf{1 6 0 0}$ | $\mathbf{1 8 0 0}$ | $\mathbf{2 0 0 0}$ |  |
| $\mathbf{1 2 0 0}$ | $\mathbf{9 0 0}$ | 117 | 140 | 163 | 187 | 210 | $\mathbf{2 3 3}$ |  |
| $\mathbf{1 3 5 0}$ | $\mathbf{1 0 5 0}$ | 100 | 120 | 140 | 160 | 180 | 200 |  |
| $\mathbf{1 5 0 0}$ | $\mathbf{1 2 0 0}$ | 88 | 105 | 123 | 140 | 158 | 175 |  |
| $\mathbf{1 6 5 0}$ | $\mathbf{1 3 5 0}$ | 78 | 93 | 109 | 124 | 140 | 156 |  |
| $\mathbf{1 8 0 0}$ | $\mathbf{1 5 5 0}$ | 68 | 81 | 95 | 108 | 122 | 135 |  |



Standard Fence Panel


Custom Height Fence Panel, with ArrowHeads


Custom Height Fence Panel


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



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

Top Fixed Posts
Use welded base for ALL Gates



Attach Post Bracket with - $3 \times$ Stainless TEK screws


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

Attach Post Bracket with - $3 \times$ Stainless TEK screws



Rail cutting Allowance

Attach Fence to Post bracket with - $2 \times$ Stainless pop rivets.


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
$\pm 45 \mathrm{deg}$, Vertical plane only
Aluminium Body /Black PC



Attach Post Bracket with

- $2 \times$ Stainless TEK screws



FPR Racking rail comes standard with a pre punched $14 \mathrm{~mm} \times 8 \mathrm{~mm}$ Slot


If cutting drill hole 9 mm dia

Rail cutting Allowance


## Attach to Fence to Post <br> 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, $\pm 40 \mathrm{deg}$, vertical plane Aluminium Body /Black PC



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


Racking rail comes standard with a pre punched $14 \mathrm{~mm} \times 8 \mathrm{~mm}$ Slot


If cutting drill hole 8 mm dia


| Full Width Fence Panel - 2400mm | Widths |
| :--- | :--- |
| Post C/I to C/L | PCL |
| PCL must be (Both 50.7 posts) | 2456 |
| PCLmust be (1×50.7, $1 \times 100$ posts) | 2481 |



| Custom Width Fence Panel | Widths |
| :--- | :--- |
| Post C/l to C/L | PCL |
| Fence Panel width | FPW |
| FPW cut to - (Both 50.7 posts $)$ | PCL -56 |
| FPW cut to $-(1 \times 50.7,1 \times 100$ posts $)$ | PCL -81 |


| Panel / Post Heights | Heights |
| :--- | :--- |
| Panel height choice $-1200,1500,1800$ or custom height |  |
| Fence Panel Height | FPH |
| Post Height, 50.7 Top Mount | FPH +28 |
| Post Height, 50.7, 100 In Ground | (FPH +45$) \times 1.3$ |

Gates - Single
Width Cutting
Gate Posts normally both 50.7 mm sq


| Standard Width Gate -997 wide | Widths |
| :--- | :--- |
| Post C/L must be (Both 50.7 posts) | $1059+$ HG |
| Hinge Gap = HG as below |  |
| Custom Width, Single Gate |  |
| Gate Post C/l to C/L | Widths |
| Fence Panel cut width | FPW |
| Hinge Gap width | HG |
| FPW cut to - (Both 50.7 posts) | PCL- HG -165 |
| FPW cut to - (Both 100 posts) | PCL- HG -193 |
| AH Hinge Gap = HG | 19 |
| AHHD Hinge Gap = HG | 13 |
| G13 + G14 Hinge Gap = HG | 65 |

Check for Maximum Gate widths. Use appropriate Gate Posts


Check for Maximum Gate widths.
Use appropriate Gate Posts

## 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 $1047 \mathrm{~mm}+10 \mathrm{~mm}+$ Hinge gap ( $13-19 \mathrm{~mm}$ )
4 - At marked centres: Concreting - dig two gate holes approximately 200mmdia x $400-500 \mathrm{~mm}$ 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 200 mm say. Clearance under gate not to exceed 100 mm .
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

## Post must be fully wrapped with PVC Tape

1 - Preparation - Prepare the post hole, dig a little deeper than necessary the pack bottom with stones to bring post to correct height - Line hole with plastic in sandy soils. Position the post in the hole.

- Thoroughly saturate the walls of the hole and the post, so they do not soak up water needed for the concrete.

2 - Mixing - Add recommended quantity of water to the hole, 4 litres per bag.

- Pour RapidSetTM at a steady even rate around the post into the water. Take approximately 1 minute per bag.
- Do not pour too fast. The idea is to wet the concrete as it falls to the bottom.
- If more than one bag of RapidSetTM is needed per hole, work one bag at a time.

3 - Finishing - Sprinkle water on top of RapidSetTM if dry powder is visible.

4 - Alignment - Align post to desired position (Brace if necessary). RapidSetTM will harden in 15 minutes. IMPORTANT NOTE: Once post is aligned allow RapidSetTM to harden undisturbed for 15 minutes.

5 - Completion - It will be able to stand reasonable force in 1 hour.

- Wait at least one hour before working or straining on set post. A post with RapidSetTM can withstand hammering after 1 hour.



## 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 400 mm 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.


Latch - 540 mm high OA


Suitable for Pool gates

| Gate Post, Base | Fully Welded |
| :---: | :--- |
| Welded to Post | Baseplate to Lightweight Post |
| Part No FPWBP/1.3 | For mounting on Concrete only |



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


| Up to and including <br> Wind Zones |  |
| :--- | :---: |
| For Pool Fences only |  |


| Wind Zone |  |
| :--- | :---: |
| Extra High | 2400 |

General Notes:
1 - All measurements mm
2 - Balustrade Height, above Deck
3 - Not for use where protecting a fall of 1.0 m or more


Important Installation notes:
1 - The Project Engineer must ensure the structure can support the appropriate loads
2 - Substructure shown indicatively only. Timber SG8 minimum strength
3 - Coachscrews 130 mm engagement into joists. All coachscrews predrill 6 mm 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


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Typical FACE Fix Post to Timber - M10 Coachscrews

| Up to and including <br> Wind Zones <br> For Pool Fences only |  |
| :---: | :---: |
| Wind Zones | Post <br> Spacing (max) |
| Extra High | 2400 |

## General Notes:

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


## Important Installation notes:

1 - The Project Engineer must ensure the structure can support the appropriate loads
2 - Substructure shown indicatively only. Timber SG8 minimum strength
3 - Coachscrews 90 mm engagement into joists. All coachscrews predrill 6 mm 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. $4 \times$ Holes M10 SS Studs

| Up to and including <br> Wind Zones |  |
| :---: | :---: |
| For Pool Fences only |  |


| Wind Zones |  |
| :---: | :---: |
| Spacing (max) |  |
| Extra High | 2400 |

## General Notes:

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


Installation details Fischer FIS V 300T

| Thread diameter | M10 <br> $=12 \mathrm{~mm}$ |
| :--- | :--- |
| Drill hole diameter | $=70 \mathrm{~mm}$ <br> Drill hole depth |
| Anchorage depth | $=60 \mathrm{~mm}$ |
| Drilling method | Hammer drilling |
| Drill hole cleaning | 4 times blowing, <br> 4 times brushing, |
|  | 4 times blowing |

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


[^1]


## Typical FACE Fix Post to Concrete - M10 Studs

| Up to and including <br> Wind Zones  <br> For Pool Fences only  |  |
| :--- | :---: |
| Post <br> Wind Zone <br> Spacing (max) |  |
| Extra High |  |
| 2400 |  |

General Notes:
1 - All measurements mm
2 - Balustrade Height, above Deck
3 - Not for use where protecting a fall of 1.0 m or more

## a

Installation details Fischer FIS V 300T
\(\left.$$
\begin{array}{ll}\text { Thread diameter } & \begin{array}{l}\text { M10 } \\
\text { Drill hole diameter } \\
=12 \mathrm{~mm}\end{array}
$$ <br>
Drill hole depth \& =160 \mathrm{~mm} <br>

Anchorage depth \& =150 \mathrm{~mm}\end{array}\right]\)|  |  |
| :--- | :--- |
| Drilling method | Hammer drilling |
| Drill hole cleaning | 4 times blowing, |
|  | 4 times brushing, |
| 4 times blowing |  |

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


```
Important Installation Notes:
1-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

| Up to and including <br> Wind Zones |  |
| :--- | :---: |
| For Pool Fences only |  |


| Wind Zone |  |
| :--- | :---: |
| Extra High | 2400 |

General Notes:
1 - All measurements mm
2 - Balustrade Height, above Deck
3 - Not for use where protecting a fall of 1.0 m or more


## Important Installation notes:

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 200 mmm dia hole. Concrete 25MPa min. All into flat 'good ground' as per NZS3604


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

If the Fence requested is to enclose an area containing water greater than 400 mm 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


2 - Gate Requirements

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

$$
\begin{array}{r}
\text { Minimum He } \\
\text { Juralco Self Closing Hinge EF/AHHD } \\
\text { Recommended }
\end{array}
$$

$$
\text { (MUST be mounted minimum } 900 \mathrm{mmm} \text { apart) }
$$



## 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.

With Gate closed adjust the tension of both hinges. Using the 6 mm 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


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.


Downee
Maintenance

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


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

Latch - 540mm high OA


Magnetic Pool Release Latch.
Release Knob, MUST be at least 1500 mm above ground level


Gates must always swing outwards, away from the pool area

## 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 1800 mm high, measured from the ground level on the Pool side and be located not less than 1000 mm horizontally from the waters edge.

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


## Pool Fencing on Sloping Ground

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


## 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

## Powder Coating Installation Care

## Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to 12 months to develop.

If paint splashes or sealants and mastics need to be removed then the following may be safely used:
Methylated Spirits, Ethyl Alcohol, Isopropanol or preferably a mild detergent in warm water.
Joinery Protection during Installation:
All the activity on a construction site means that your powder coated items may get knocked or scratched, splattered with mortar,
plaster, textured coating or paint during the later stages of construction.
Please ensure that all powder coated articles are masked or covered at this time. It is far easier to prevent accidents than to try and correct them.
Should your joinery receive mortar or paint splashes see that these are removed before cure and follow the instructions contained in this brochure.

Typical sticker used to warn other trades of the need to protect and mask off powder coated joinery (applies to anodised joinery also)
"IMPORTANT ALL TRADES" This valuable aluminium joinery will suffer permanent damage from: plaster, mortar and paint splashes - Protect if splashes occur - Immediately wash down joinery with water or meths - Do not allow splashes to harden! ~ Do not use solvents! - Do not remove this label until final clean completed.

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


## Powder Coating Maintenance

## External - Maintenance Program:

To extend the life of external powder coated articles and to comply with warranty requirements for powder coated aluminium joinery, a simple, regular maintenance program must be implemented.
The effects of ultra violet light, atmospheric pollution, dirt, grime and airborne salt deposits will all accumulate over time and must be removed or surface staining and weathering will occur, leading to an unsightly appearance.

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

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 006494418244
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[^0]:    Note - When using the Arrowheads,
    1 - Deburr inside baluster ends
    2 - Mark a line 16 mm 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

[^1]:    Important Installation Notes:
    1 - The Project Engineer must ensure the structure can support the appropriate loads
    2 - Substructure shown indicatively only
    3 - Fixings must engage into the structural slab
    4 - A PVC Tape layer must be installed between the 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

