

 JURALCO

# JURALCO GLASS POOL GATE SYSTEM

ISSUE 3-23 v1

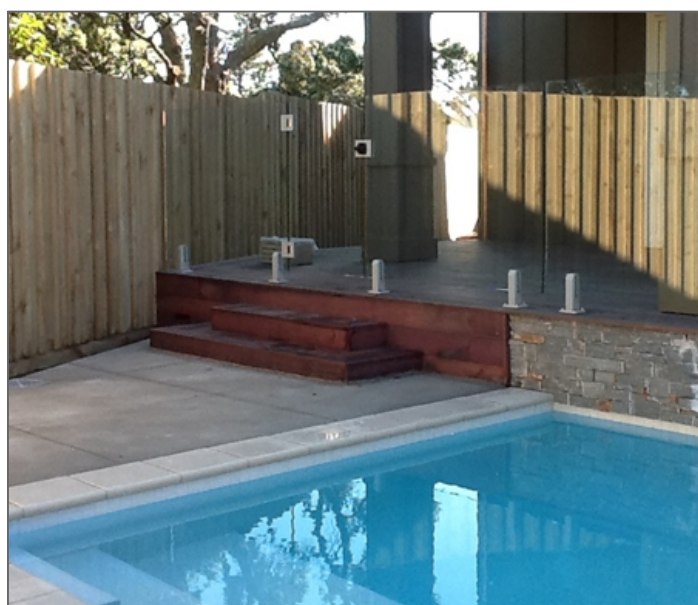
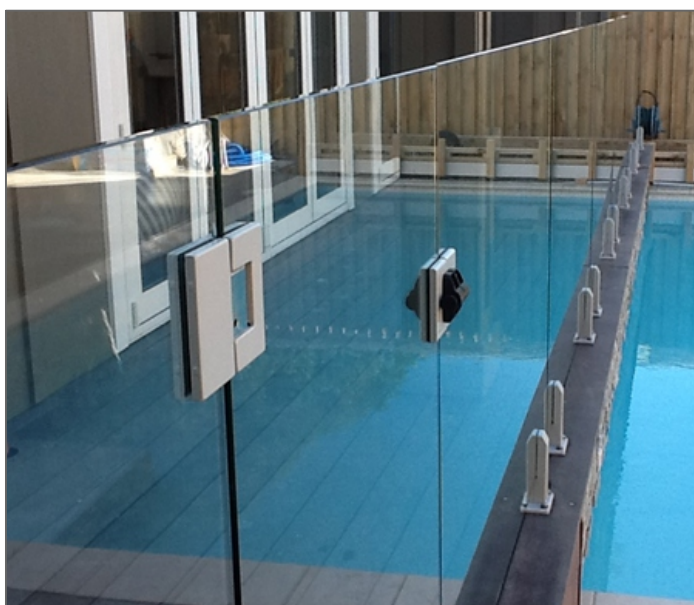
## Juralco Glass Pool Gate System

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 Glass Pool Gate System uses 10mm or 12mm Toughened Glass panels. The system suitable for Glass to Glass gates (Juralco Minipost and Infinity systems) or for Post to Glass (Juralco EDGE system)

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- Note 1** This system utilises adjustable hydraulic self closing hinges (non hold open) and a magnetic latch. The Hydraulic hinges are available in two types.  
1 - Glass to Glass type, suitable for all Juralco Frameless Glass Balustrade systems - 10mm -12mm Glass  
2 - Wall or Post to Glass type, suitable for Juralco EDGE Balustrade system - 10mm - 12mm Glass
- 
- Note 2** If the Fence requested is to enclose an area containing water greater than 400mm deep it must comply with the relevant legislation, which as from Jan 2017 is the Building Code clause F9 and section 162C of the Building Act. The Juralco Glass Pool Gate system complies.
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- Note 3** For 10mm and 12mm toughened Glass, as applicable. Glass must have a minimum strength of 100MPa. All edges polished
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# Juralco Glass Pool Gate System

## Juralco Aluminium Building Products Ltd (JABP)

### Specifications for Juralco Glass Pool Gate

#### 1. Scope

- This specification details the documents the Juralco Glass Pool Gate refers to in relation to the New Zealand Building Code, the manufacturer's documents, products used in the System, requirements in relation to fixing and surface finishings.

#### 2. NZBC Compliance

- The Juralco Glass Pool Gate has been reviewed by Lautrec Technology Group Ltd to demonstrate compliance with the structural requirements of the New Zealand Building Code and AS/NZS 1170 : 2002 occupancy A, A Other and C3, NZS 3604 Low, Medium, High, Very High Wind Zone, max design wind pressure 2.39 kPa
- The Structural Engineering design includes Building Code requirements, B1 Structure, B2 Durability, F2 Hazardous material and Clause F9.
- Verification Method B1 / VM1, B2/AS1
- Complies with NZS 4223.3.2016

#### 3. Manufacturer's Documents

- The Juralco Glass Pool Gate manual details all extrusions and components used for the fabrication and installation/fixing of the system.
- A Producer Statement 1(Design) is available.  
Copies of the above documents are available from:  
Juralco Aluminium Building Products Ltd  
48 Bruce McLaren Rd, Henderson, Auckland  
Phone 09 478 8018 Fax 09 478 7883 Email [specify@juralco.co.nz](mailto:specify@juralco.co.nz)
- Any deviation from the standard fabrication or installation/fixing must be accompanied by a site specific PS1 with site specific calculations and drawings

#### 4. Products

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

#### 5. Surface Finishing

- Juralco Aluminium Building Products Ltd is a Dulux Registered Applicator site, registration number 2101. JABP uses only Dulux branded powder coating materials
- Dulux Duralloy® powder coating systems are suitable for properties greater than 100m from high tide level AAMA 2603 performance. Residential buildings, 3 levels max. Warranty 10 yrs
- Dulux Duralloy Plus® powder coating systems are suitable for properties greater than 10m from high tide level. AAMA 2603 performance. Residential and Light commercial buildings, 3 levels max Warranty 15 yrs
- Dulux Duratec® powder coating systems are suitable for properties greater than 10m from high tide level AAMA2603 and 2604 performance. All Residential and Commercial buildings. Warranty 25 yrs

#### 6. Installation and Fixing

- The Juralco Glass Pool Gate must only be installed in accordance with its Manual
- Any deviation from that specified in the Juralco Glass Pool Gate manual must only be in accordance with the site specific PS1 with site specific calculations and drawings listing the non standard details
- The Juralco Glass Pool Gate must only be fabricated/installed by a Juralco approved fabricator
- Upon completion of the installation the fabricator must supply the owner with a PS3 (Construction)

**New from Jan 2023. Important information - Powder Coating systems.** The new standard Dulux powder coating systems used by Juralco are Duralloy®, Duralloy Plus® (new extended performance) and Duratec®. All as per specs above.  
Note - Powder coated prices listed in Juralco price books are for the standard Duralloy® or Duralloy Plus® system (same pricing).  
If the Duratec® system is required it must be specified upon placement of the order and will incur a surcharge – Duratec® prices on application.

**Important Information - Powder Coating 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 layer on the aluminium, leading to corrosion.

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

**Juralco Glass to Glass Hydraulic Hinges and Latches for Pool Gates  
using 10mm or 12mm Toughened Glass  
Suitable for all Juralco Frameless Glass Balustrade systems**

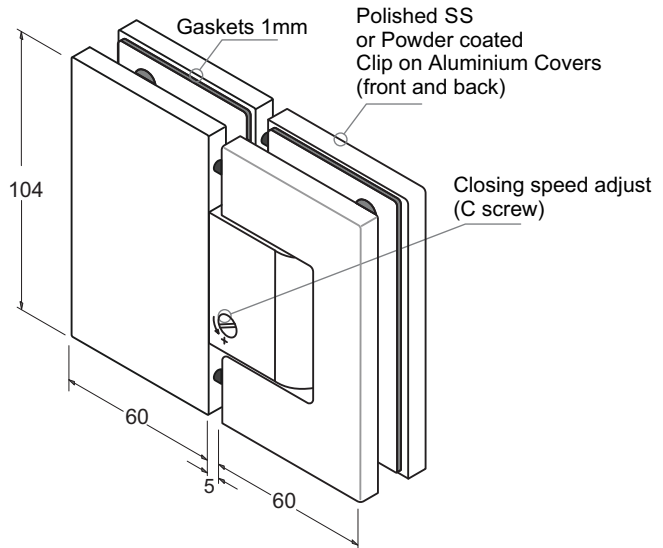
**Edgetec Standard Hinge**

Glass to Glass SS Hinge

Powder Coated JET/HH180/SCC

Polished SS JET/HH180/PSS

For 10mm Glass, 2 x Gaskets  
For 12mm Glass, 1 x Gasket  
Max Gate Width 900mm



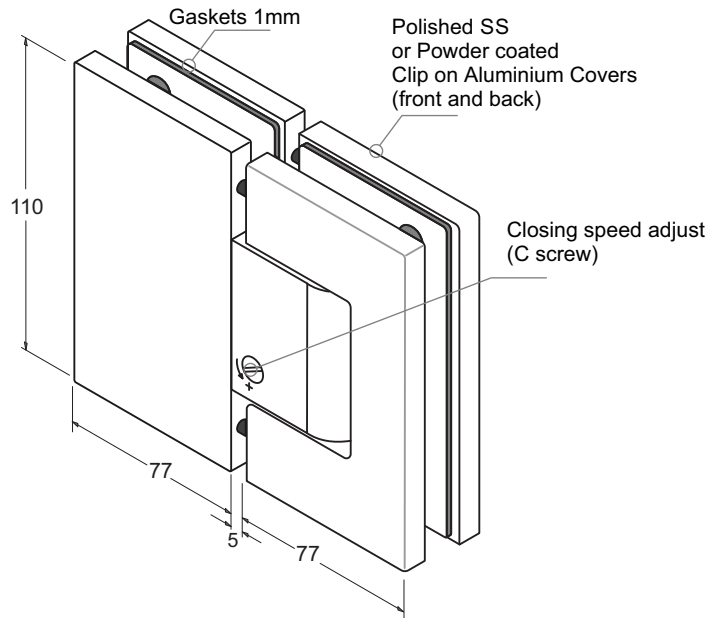
**Edgetec Heavy Duty Hinge**

Glass to Glass SS Hinge

Powder Coated JET/HHH180/SCC

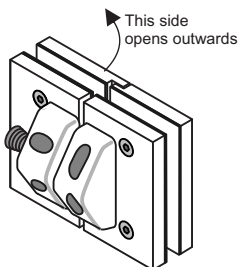
Polished SS JET/HHH180/PSS

For 10mm Glass, 2 x Gaskets  
For 12mm Glass, 1 x Gasket  
Max Gate Width 1000mm

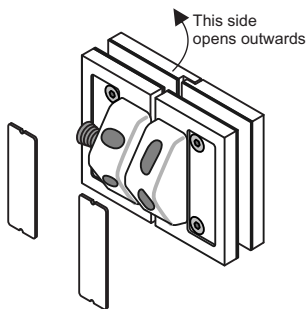


**Glass to Glass Latches**

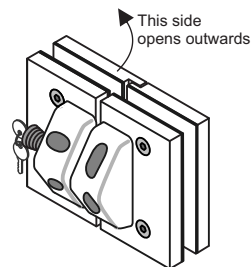
Note :Can be assembled as RH or LH



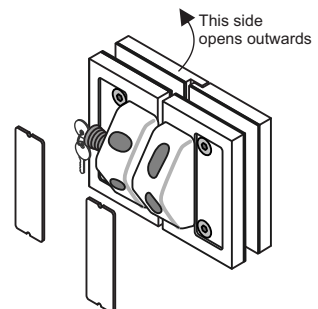
Clamp Plates SS  
Latch Non Locking type  
JET/PL180/PSS



Clamp Plates Powder Coated  
Latch Non Locking type  
JET/PL180/SCC

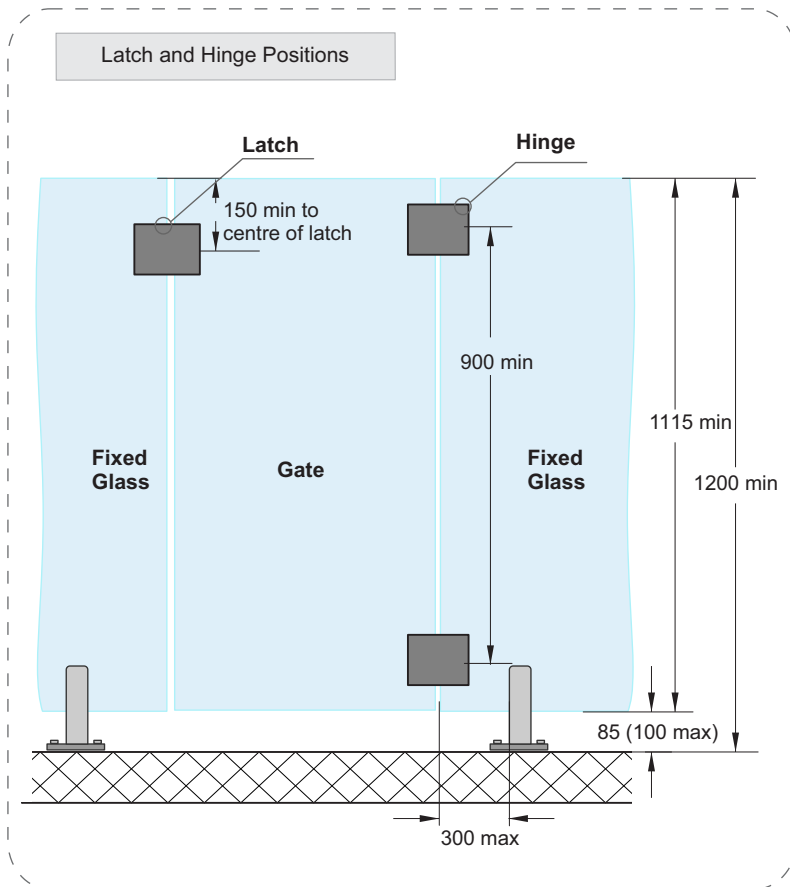


Clamp Plates SS  
Latch Locking type  
JET/PL180KLK/PSS



Clamp Plates Powder Coated  
Latch Locking type  
JET/PL180KLK/SCC

**Juralco Glass to Glass Hydraulic Hinges and Latches for Pool Gates  
using 10mm or 12mm Toughened Glass  
Suitable for all Juralco Frameless Glass Balustrade systems**



**Specifications..**

Glass Thickness 10mm  
Hinge and Latch packers, 1.0mm each side  
Gate width max = 900mm  
Gate Height min = 1200mm  
Gate Weight max = 65 kg (= 2.1sqm)

Glass Thickness 12mm  
Hinge and Latch packers, 1.0mm one side  
Gate width max = 1000mm  
Gate Height min = 1200mm  
Gate Weight max = 73 kg (= 2.4sqm)

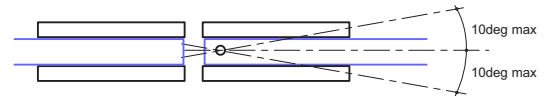
Hinge - Auto close. Adjustable Closing Speed and angle.  
Non Hold open Latch, Side pull magnetic.  
Gap = 8mm min -12mm max  
Gate to open outwards; Latch to be mounted on inside.  
Installation to conform to NZS8500:2006  
Complies with NZBC Clause F9

**Closing Speed Adjust**

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

**Angle Adjust**

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

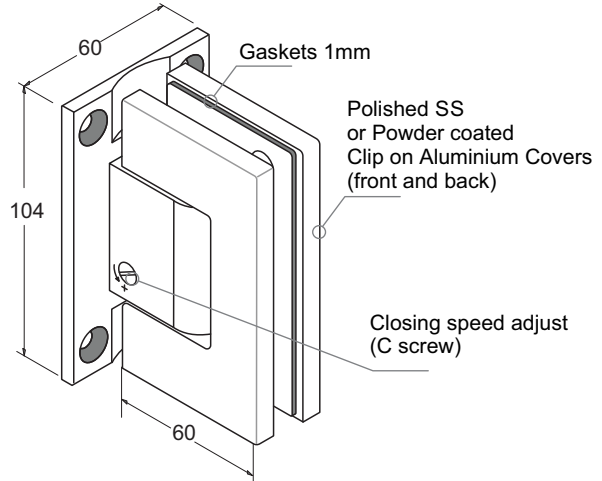


**Juralco Wall or Post to Glass Hydraulic Hinges and Latches for Pool Gates**  
**using 10mm or 12mm Toughened Glass**  
**Suitable for Juralco EDGE Balustrade systems**

**Edgetec Standard Hinge**

Post (or Wall) to Glass SS Hinge  
 Powder Coated JET/HH90/SCC  
 Polished SS JET/HH90/PSS

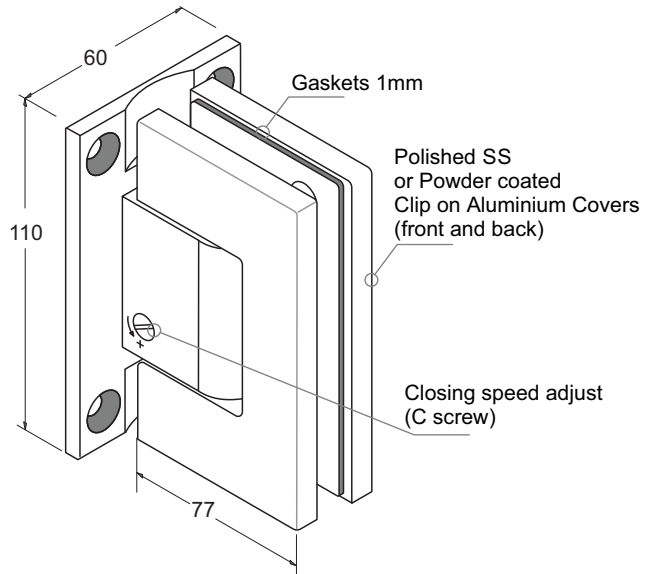
For 10mm Glass, 2 x Gaskets  
 For 12mm Glass, 1 x Gasket  
 Max Gate Width 900mm



**Edgetec Heavy Duty Hinge**

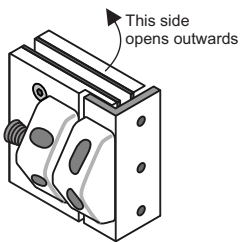
Post (or Wall) to Glass SS Hinge  
 Powder Coated JET/HHH90/SCC  
 Polished SS JET/HHH90/PSS

For 10mm Glass, 2 x Gaskets  
 For 12mm Glass, 1 x Gasket  
 Max Gate Width 1000mm

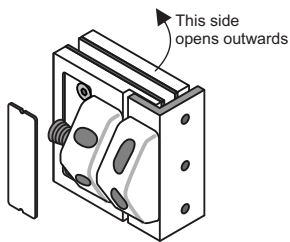


**Wall or Post to Glass Latches**

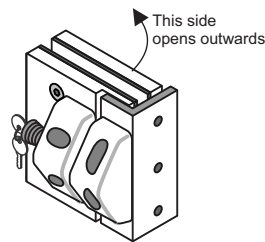
Note :Can be assembled as RH or LH



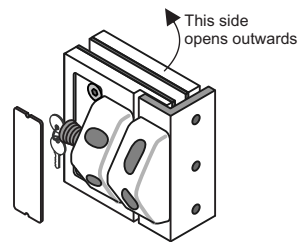
Clamp Plates SS  
 Latch Non Locking type  
 JET/PL90/PSS



Clamp Plates Powder Coated  
 Latch Non Locking type  
 JET/PL90/SCC



Clamp Plates SS  
 Latch Locking type  
 JET/PL90KLK/PSS

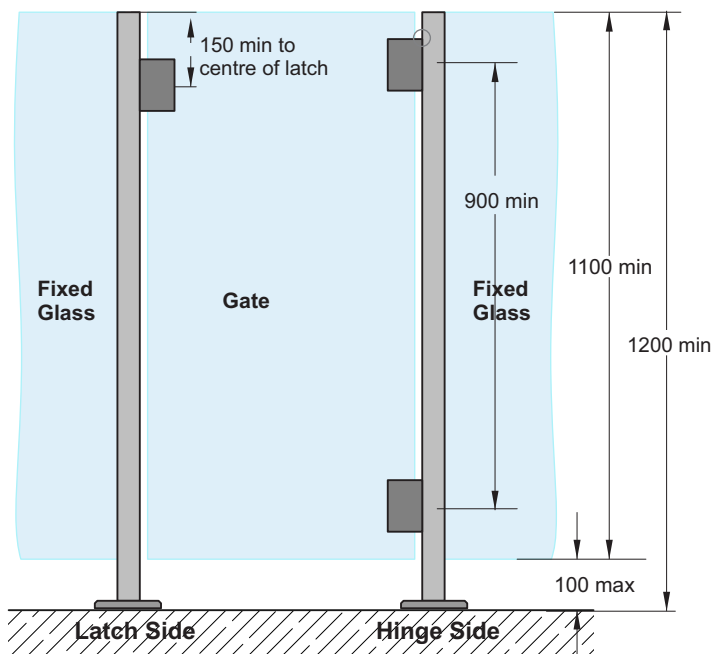


Clamp Plates Powder Coated  
 Latch Locking type  
 JET/PL90KLK/SCC

**Juralco Wall or Post to Glass Hydraulic Hinges and Latches for Pool Gates  
using 10mm or 12mm Toughened Glass  
Suitable for Juralco EDGE Balustrade systems**

Latch and Hinge Positions

**Silicone Fixed Glass into Post for Full height**



**Specifications..**

Glass Thickness 10mm  
Hinge and Latch packers, 1.0mm each side  
Gate width max = 900mm  
Gate Height min = 1200mm  
Gate Weight max = 65 kg (= 2.1sqm)

Glass Thickness 12mm  
Hinge and Latch packers, 1.0mm one side  
Gate width max = 1000mm  
Gate Height min = 1200mm  
Gate Weight max = 73 kg (= 2.4sqm)

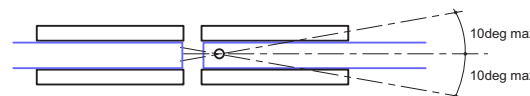
Hinge - Auto close. Adjustable Closing Speed and angle.  
Non Hold open Latch, Side pull magnetic.  
Gap = 8mm min -12mm max  
Gate to open outwards; Latch to be mounted on inside.  
Installation to conform to NZS8500:2006  
Complies with NZBC Clause F9

**Closing Speed Adjust**

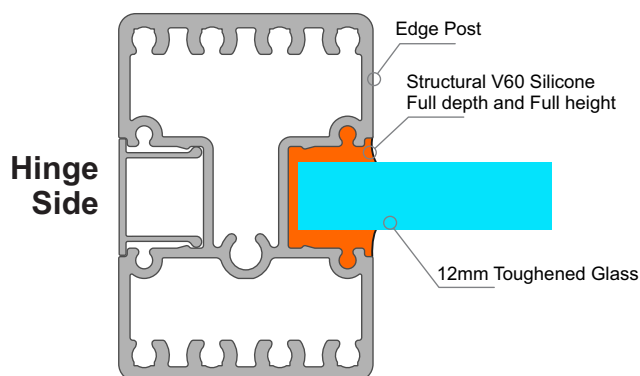
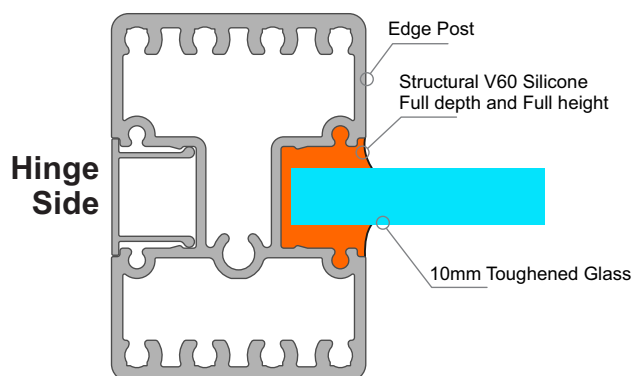
- Remove the covers
- Slotted screwdriver, turn Screw C
- Clockwise = slower
- Synchronize both hinges for equal speed.

**Angle Adjust**

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



**Silicone Glass into Post - Full Height**



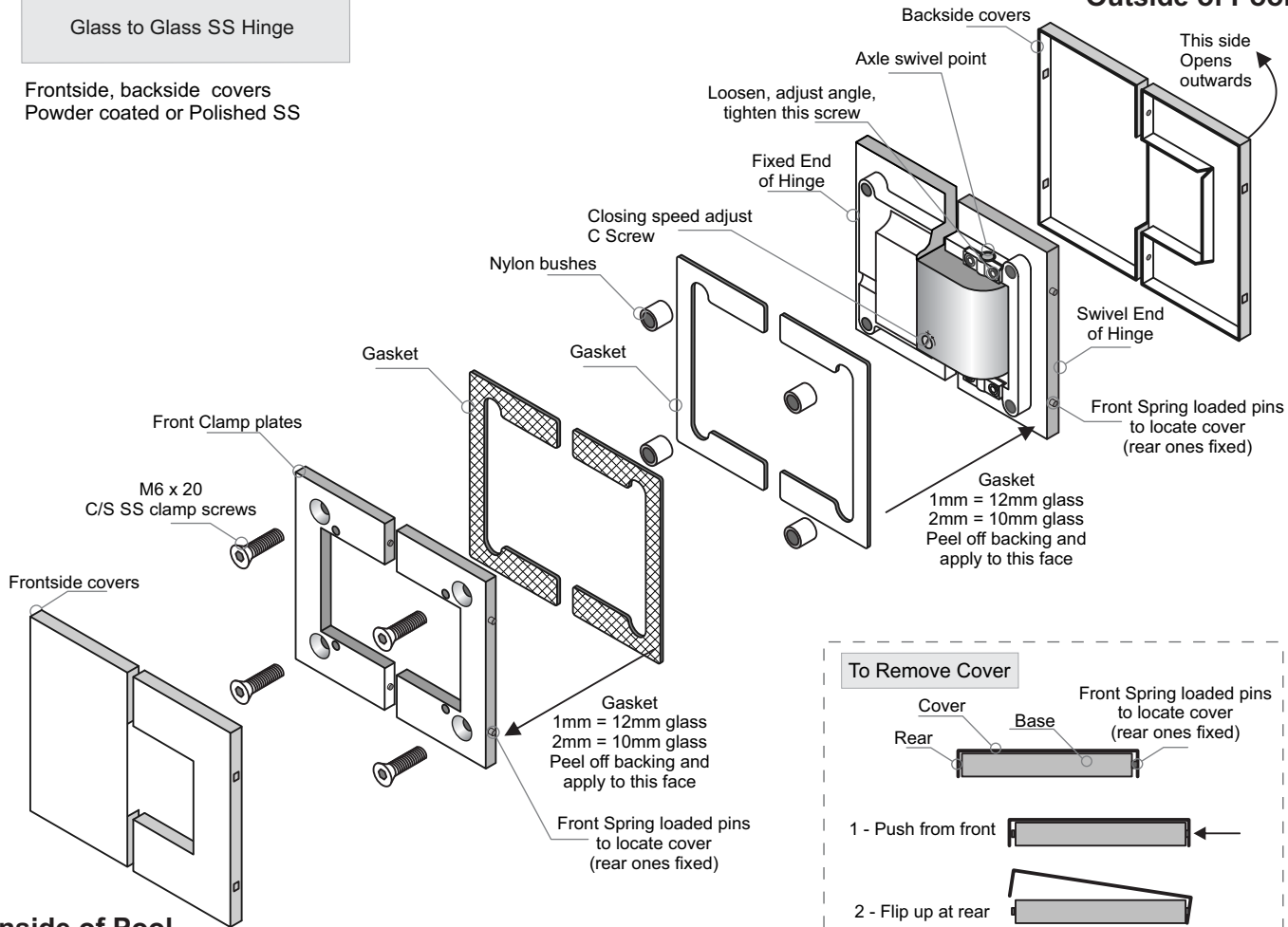
To prevent the Post pulling away from the Glass as the Gate opens it is essential to attach the Glass to the Post with Structural V60 Silicone to the Full depth on both sides and to the Full height of the Post. Allow a minimum of 48hrs to cure hard. Use small packers top and bottom to centralise the Glass in the Pocket.

# Juralco Glass Pool Gate System - Hinges and Parts

## Glass to Glass SS Hinge

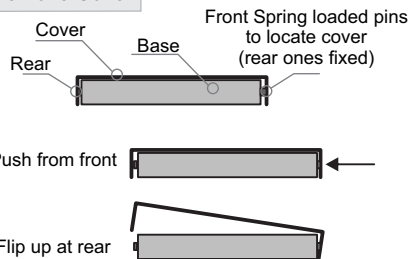
Frontside, backside covers  
Powder coated or Polished SS

Outside of Pool



Inside of Pool

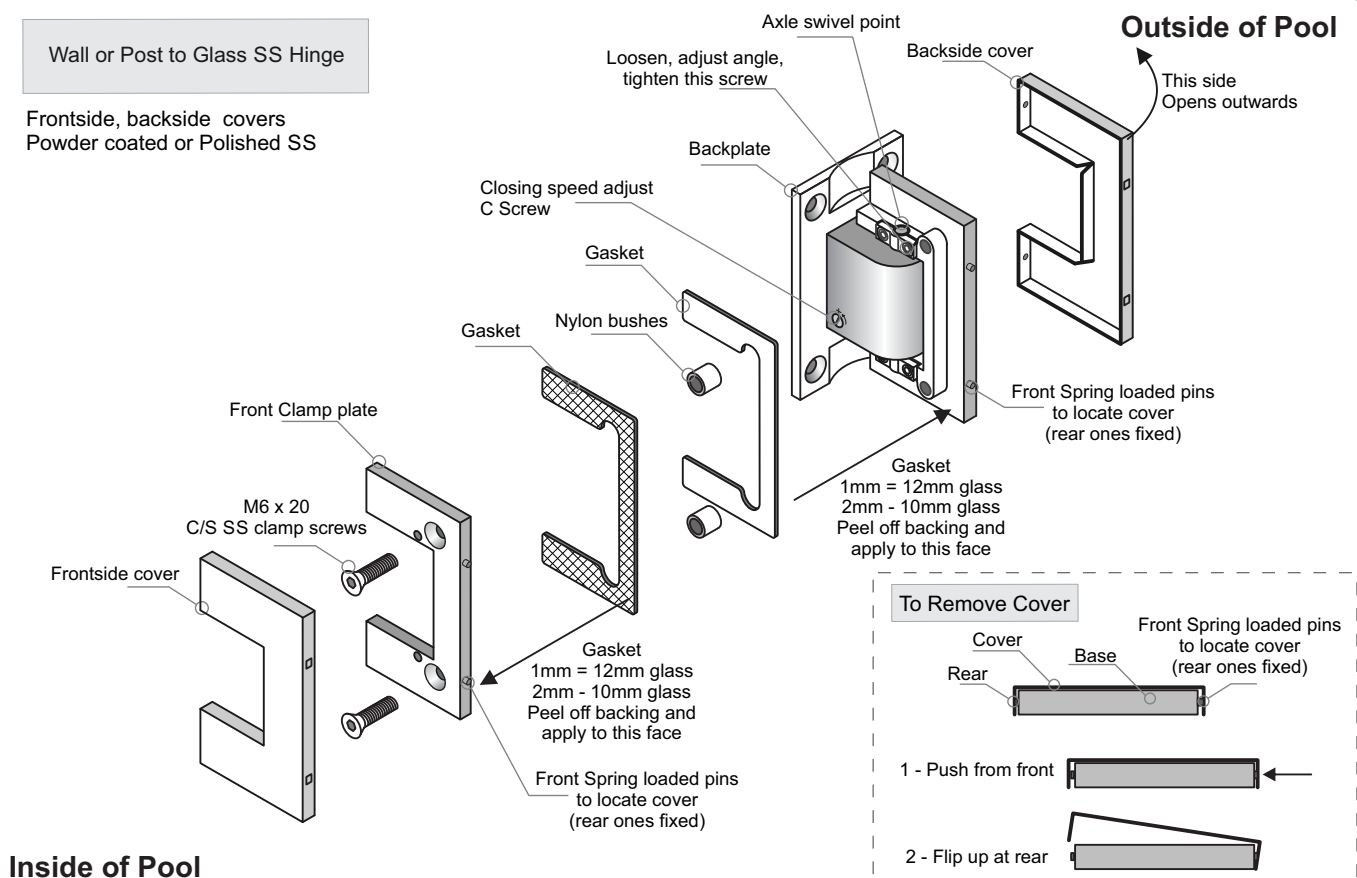
### To Remove Cover



## Wall or Post to Glass SS Hinge

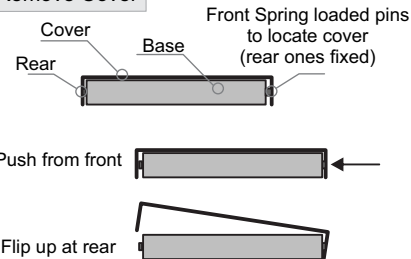
Frontside, backside covers  
Powder coated or Polished SS

Outside of Pool



Inside of Pool

### To Remove Cover



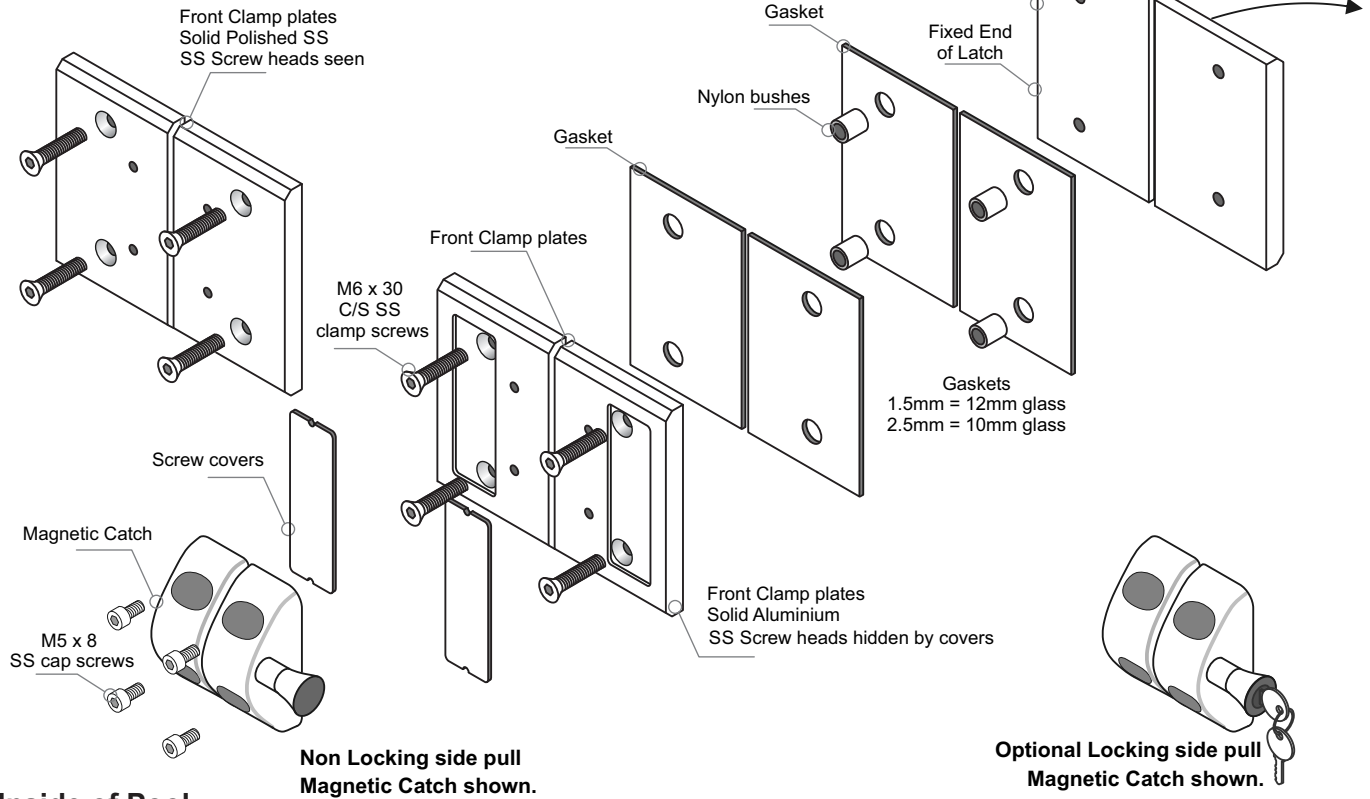


## Juralco Glass Pool Gate System - Latch and Parts

Glass to Glass  
Pool Gate Latch

Latch - Non Locking or Locking type  
Clamp Plates - Powder coated or Polished SS  
See p4 for Part No's

Outside of Pool

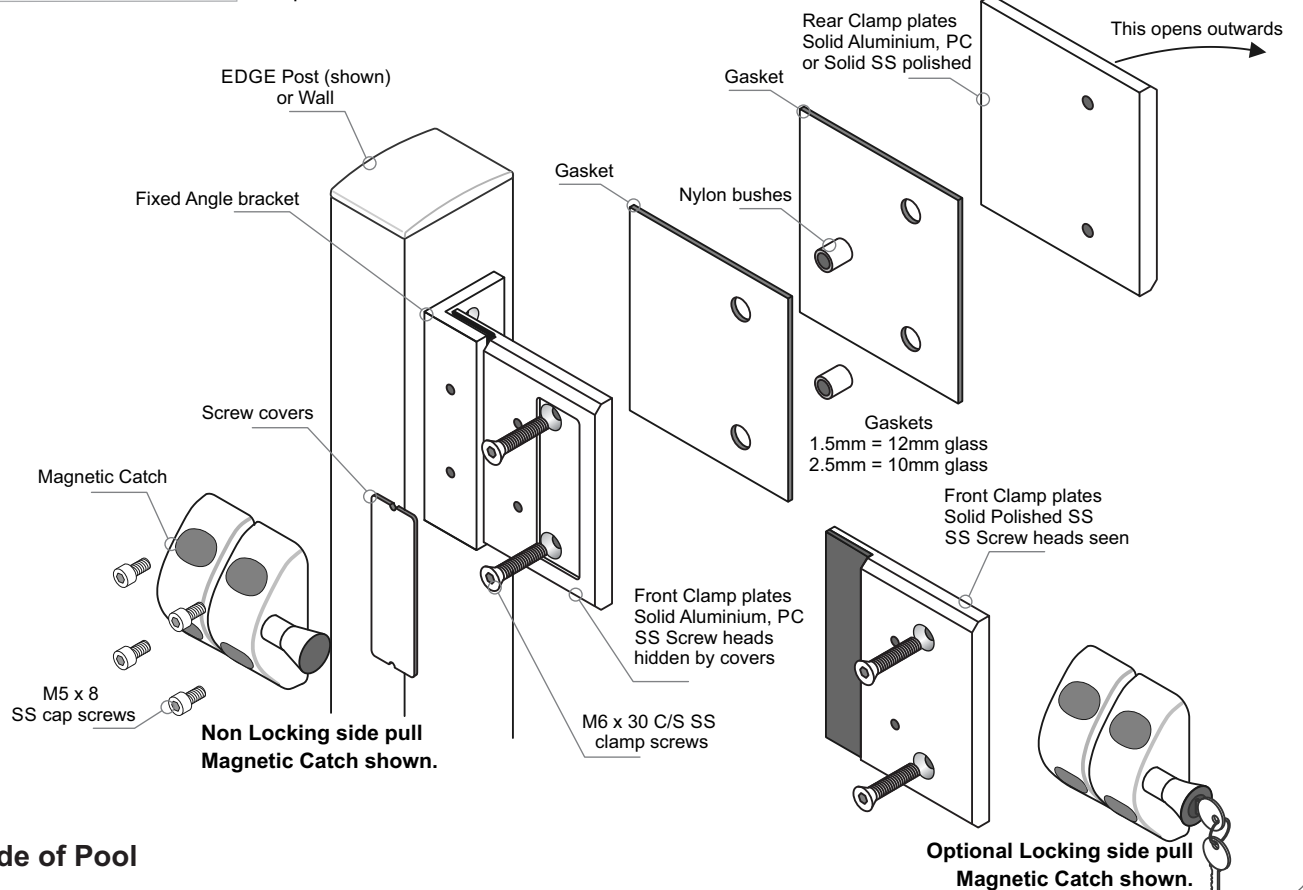


Inside of Pool

Wall or Post to Glass  
Pool Gate Latch

Latch - Non Locking or Locking type  
Clamp Plates - Powder coated or Polished SS  
See p5 for Part No's

Outside of Pool



Inside of Pool

## Juralco Glass Pool Gate System - Side Pull Latch Fitting

### PLEASE CAREFULLY READ ALL OF THE INSTRUCTIONS PRIOR TO INSTALLATION

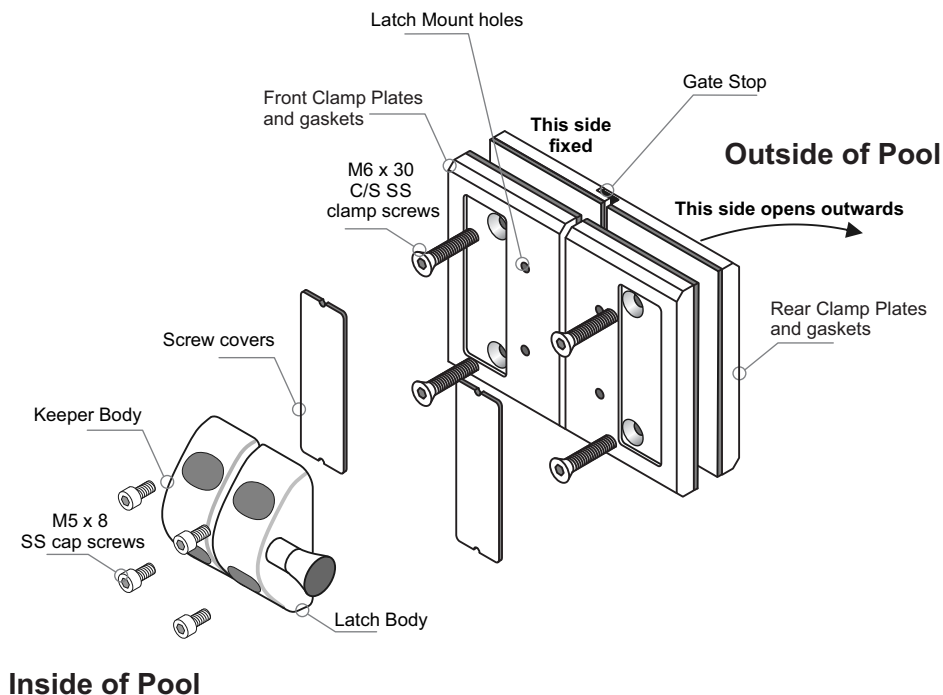
#### Step 1 - Mounting the Side Pull Latch on a gate - Glass to Glass instructions below. Modify slightly for Glass to Post.

- First attach the 2 x Front and 2 x Back Clamp Plates (using the Gaskets and Nylon bushes to protect the Glass) to the Glass.  
Nip up the M6 x 30SS screws
- The Side Pull Latch to be mounted on the inside of the Gate (Front Clamp plates)
- Use the M5 x 8 cap screws supplied to lightly fix the Keeper and Body of the Side pull latch to the Front Clamp Plates.  
The Latch body on the Gate and the Keeper body on the Fixed side.
- The Glass Gap to be 10mm max. The Latch Gap to be 8mm min. 12mm max -10mm recommended
- Use the Vertical adjustment slots on the Keeper Body to line up the Latch.
- Use the Horizontal adjustment slots on the Latch Body to create the correct gap. Nip up tight, clip 4 x caps in place.

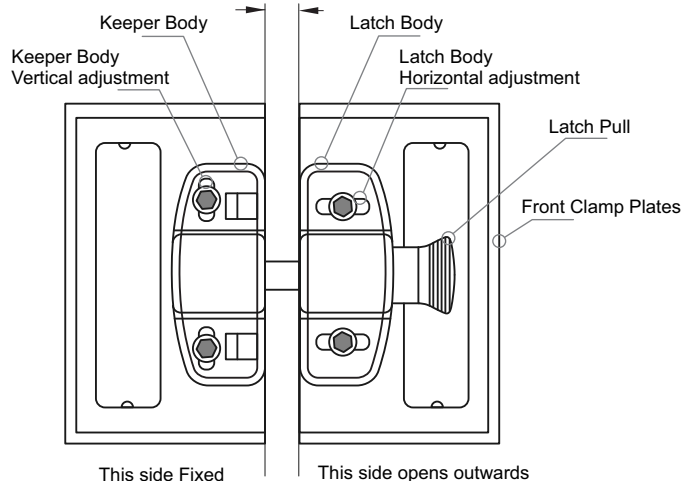
#### Step 2 - Testing the Side pull latch

It is important to test the latching of the Side pull latch by shutting it at various speeds or, in case of a self-closing gate, letting go from various operating angles. The latch should engage properly. If not check the following:

- Make sure the gate is hung properly and the gate and fence post are parallel.
- Make sure the latch pin sits in the center of the latch pin recess in the Keeper body.
- Make sure the tension on the self-closing hinges, is not too low or too high.

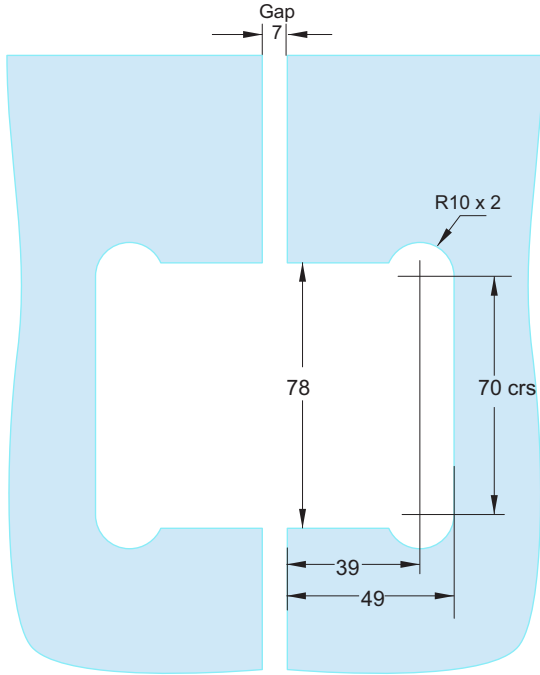


- Gate Gap - Glass to Glass or Post to Glass 10mm max
- Latch Gap 8min, 12max. 10mm recommended



# Juralco Glass Pool Gate System - Glass Cutouts

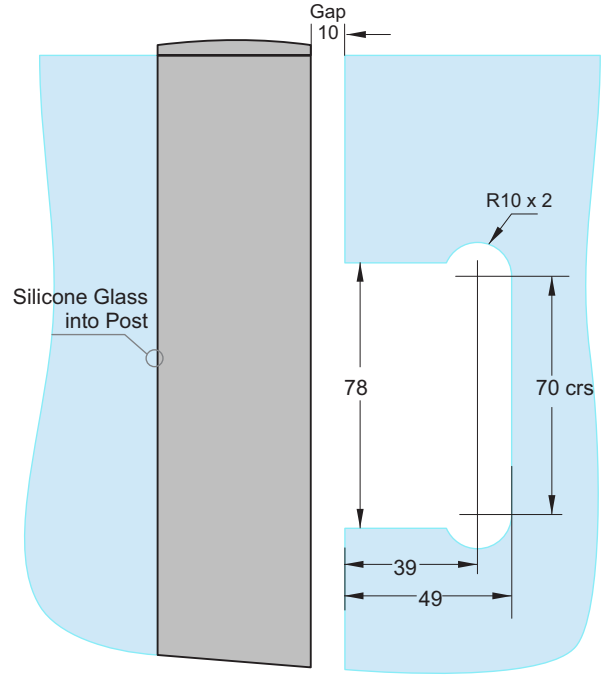
## Edgetec Standard Hinge - Glass to Glass



### Hinge notes

- Glass gap 7mm (not adjustable)
- Adjust closing speed to ensure gate closes from a stationary point 150mm from the closed position.
- Gate must open outwards

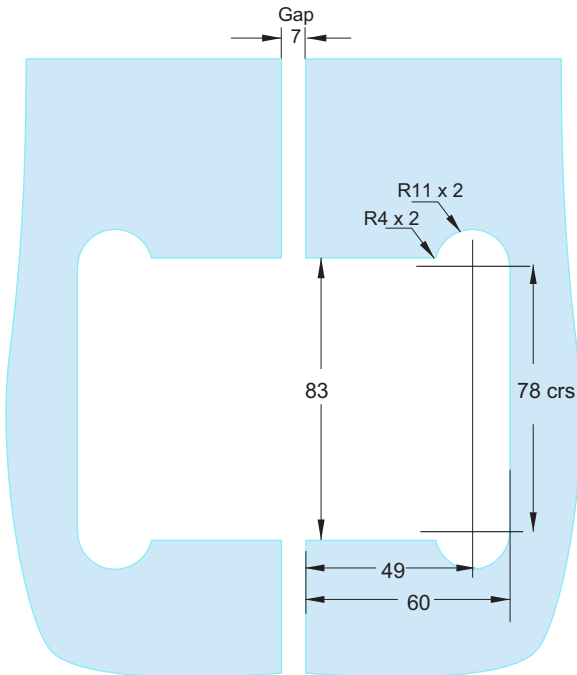
## Edgetec Standard Hinge - Post (or Wall) to Glass



### Hinge notes

- Glass gap 10mm (not adjustable)
- Adjust closing speed to ensure gate closes from a stationary point 150mm from the closed position.
- Gate must open outwards

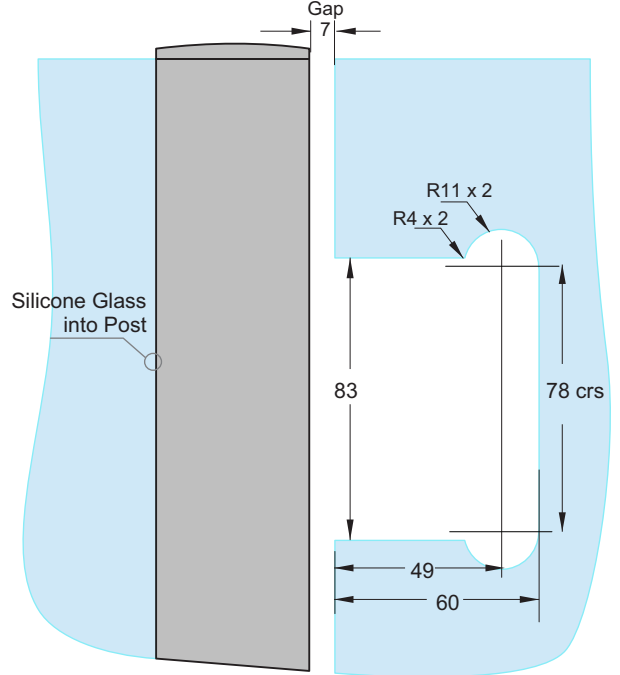
## Edgetec Heavy Duty Hinge - Glass to Glass



### Hinge notes

- Glass gap 7mm (not adjustable)
- Adjust closing speed to ensure gate closes from a stationary point 150mm from the closed position.
- Gate must open outwards

## Edgetec Heavy Duty Hinge - Post (or Wall) to Glass

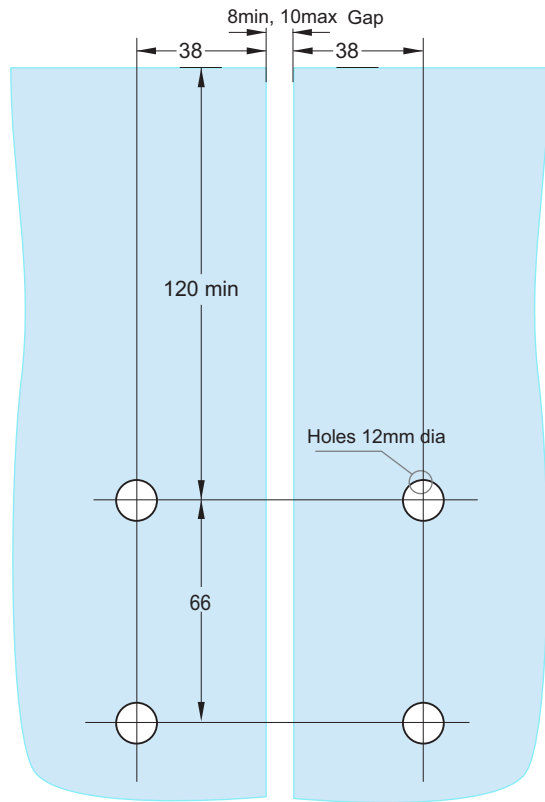


### Hinge notes

- Glass gap 7mm (not adjustable)
- Adjust closing speed to ensure gate closes from a stationary point 150mm from the closed position.
- Gate must open outwards

## Juralco Glass Pool Gate System - Glass Cutouts

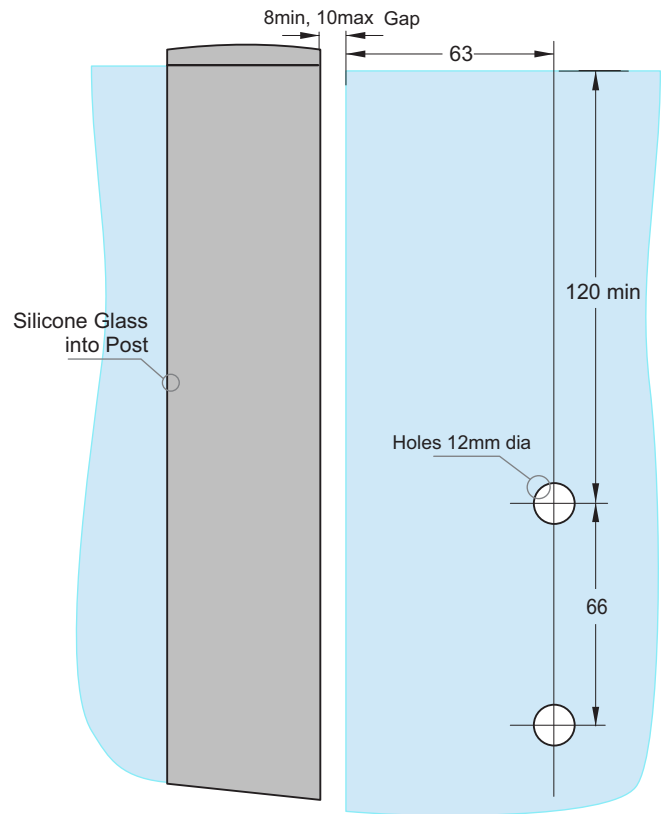
### Latch - Glass to Glass



**Latch notes**

- Glass gap 10mm max. Holes 12mm dia
- Latch to be mounted on inside of gate and latch C/L must be at least 150mm from top.

### Latch - Post (or Wall) to Glass

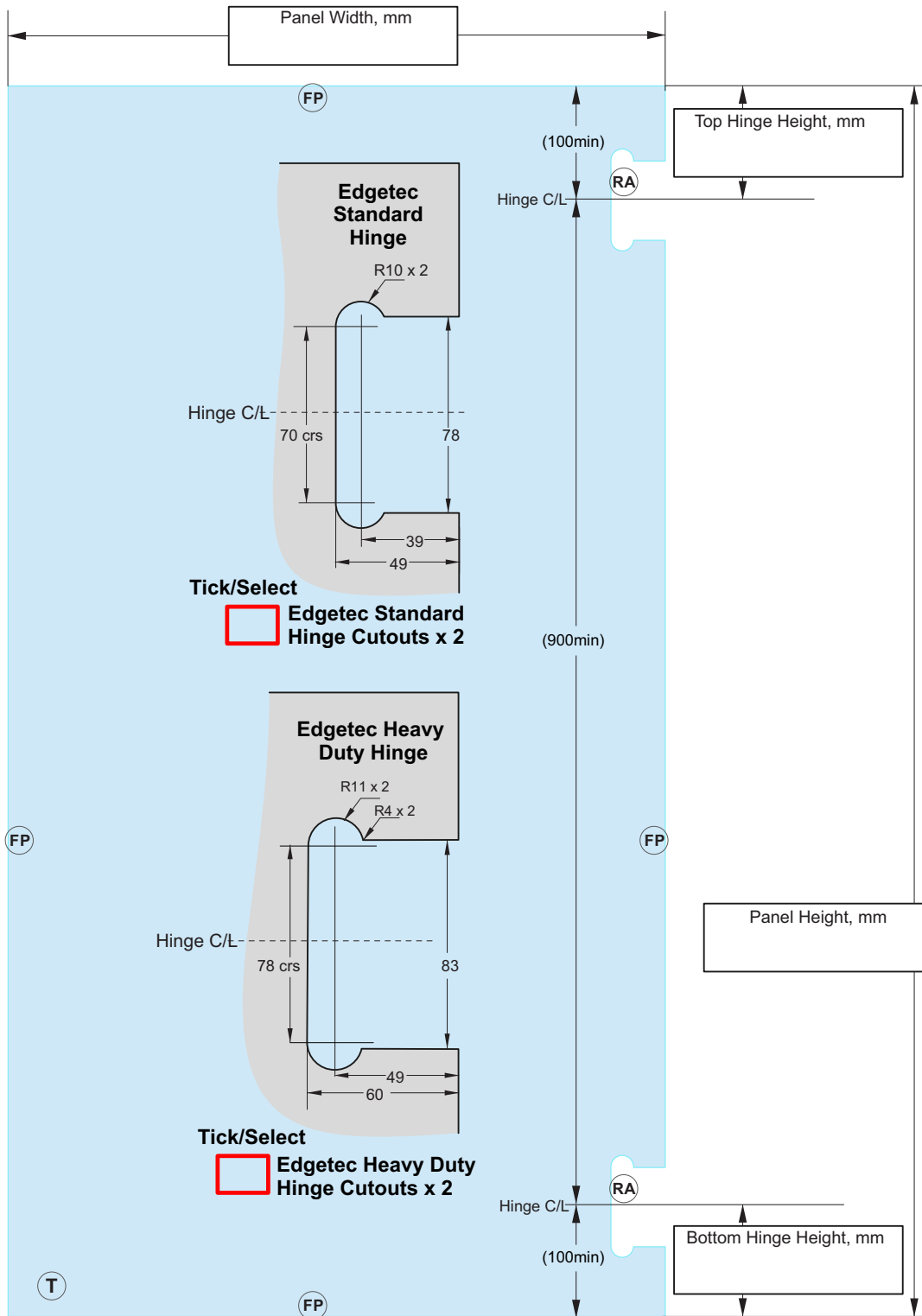


**Latch notes**

- Glass gap 10mm max. Holes 12mm dia
- Latch to be mounted on inside of gate and latch C/L must be at least 150mm from top.

# Glass Order Sheet 1 - Select Correct Cutout

## Glass to Glass - Fixed Glass/Hinge Mount for Gate



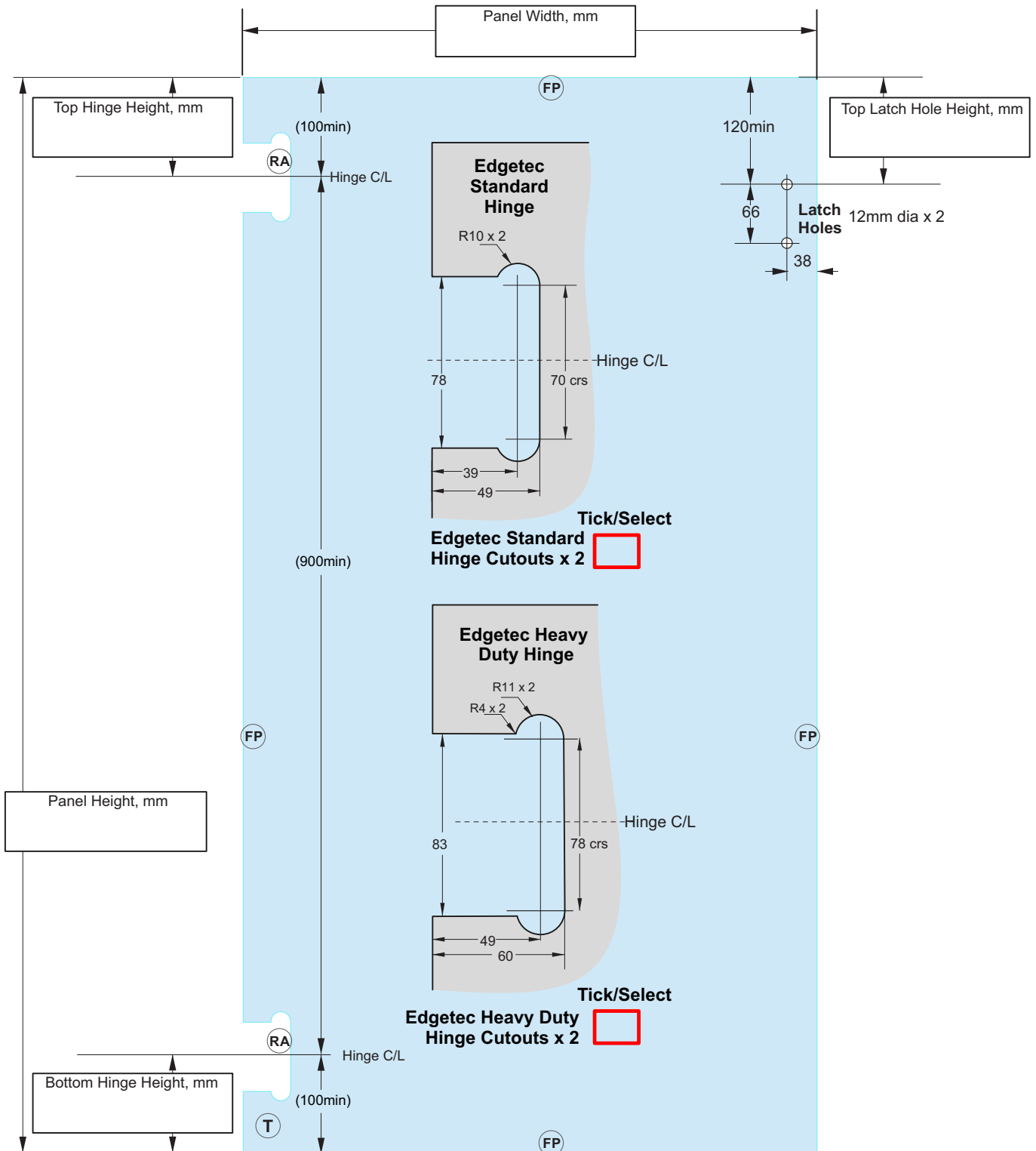
Notes :

- All Edges Flat Polish, or as per balance of this order
- Toughened Mark at Bottom Left

- Toughened Stamp (T)
- Flat Polish Edges (FP)
- Rough Arris Edges (RA)

## Glass Order Sheet 2 - Select Correct Cutouts

### Glass to Glass - Hinged Glass/Hinge Mount for Gate and Latch Holes



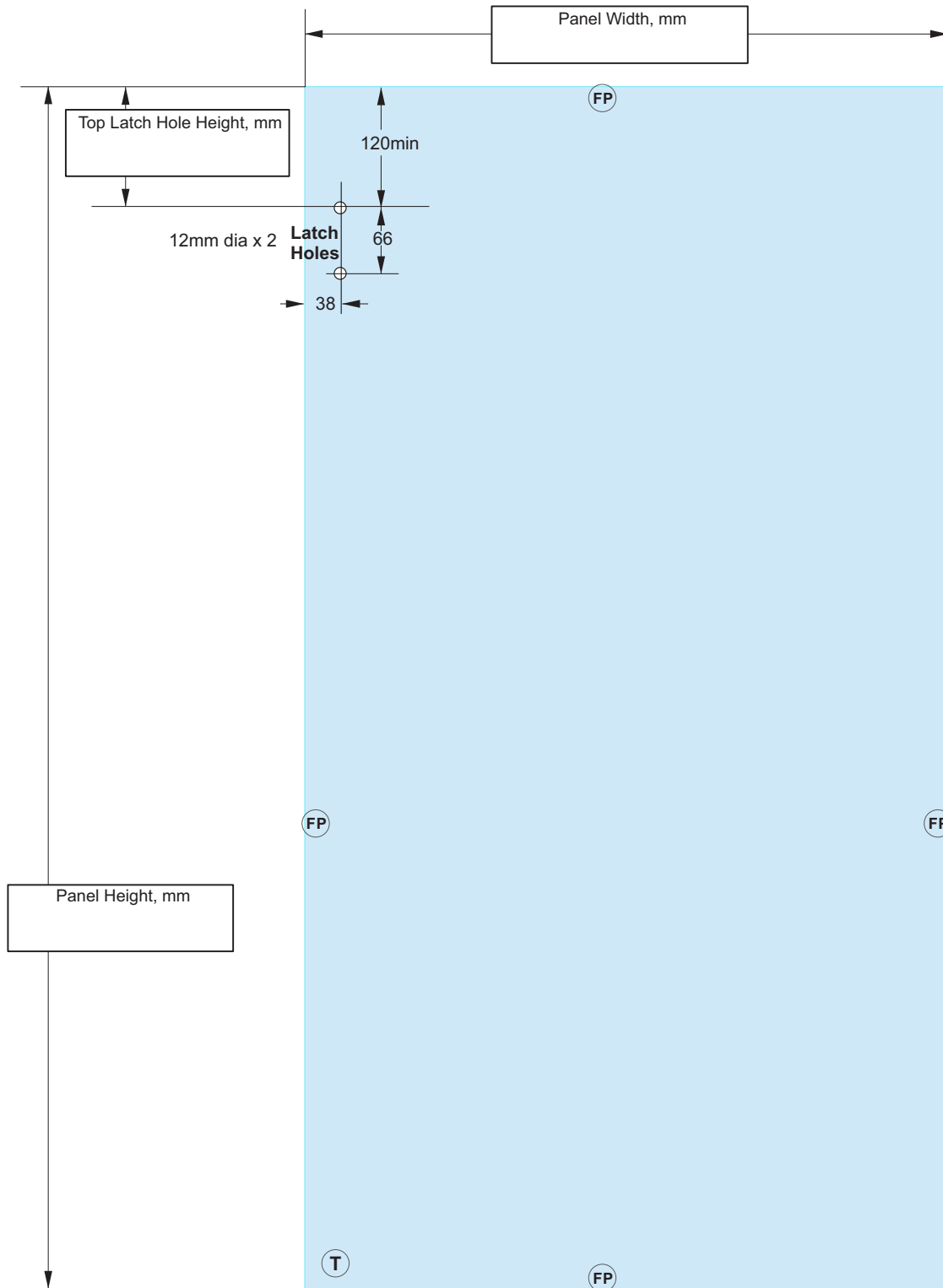
**Notes :**

- All Edges Flat Polish, or as per balance of this order
- Toughened Mark at Bottom Left

- Toughened Stamp	<b>(T)</b>
- Flat Polish Edges	<b>(FP)</b>
- Rough Arris Edges	<b>(RA)</b>

## Glass Order Sheet 3 - Select Correct Cutouts

### Glass to Glass - Fixed Glass/Latch Mount for Gate



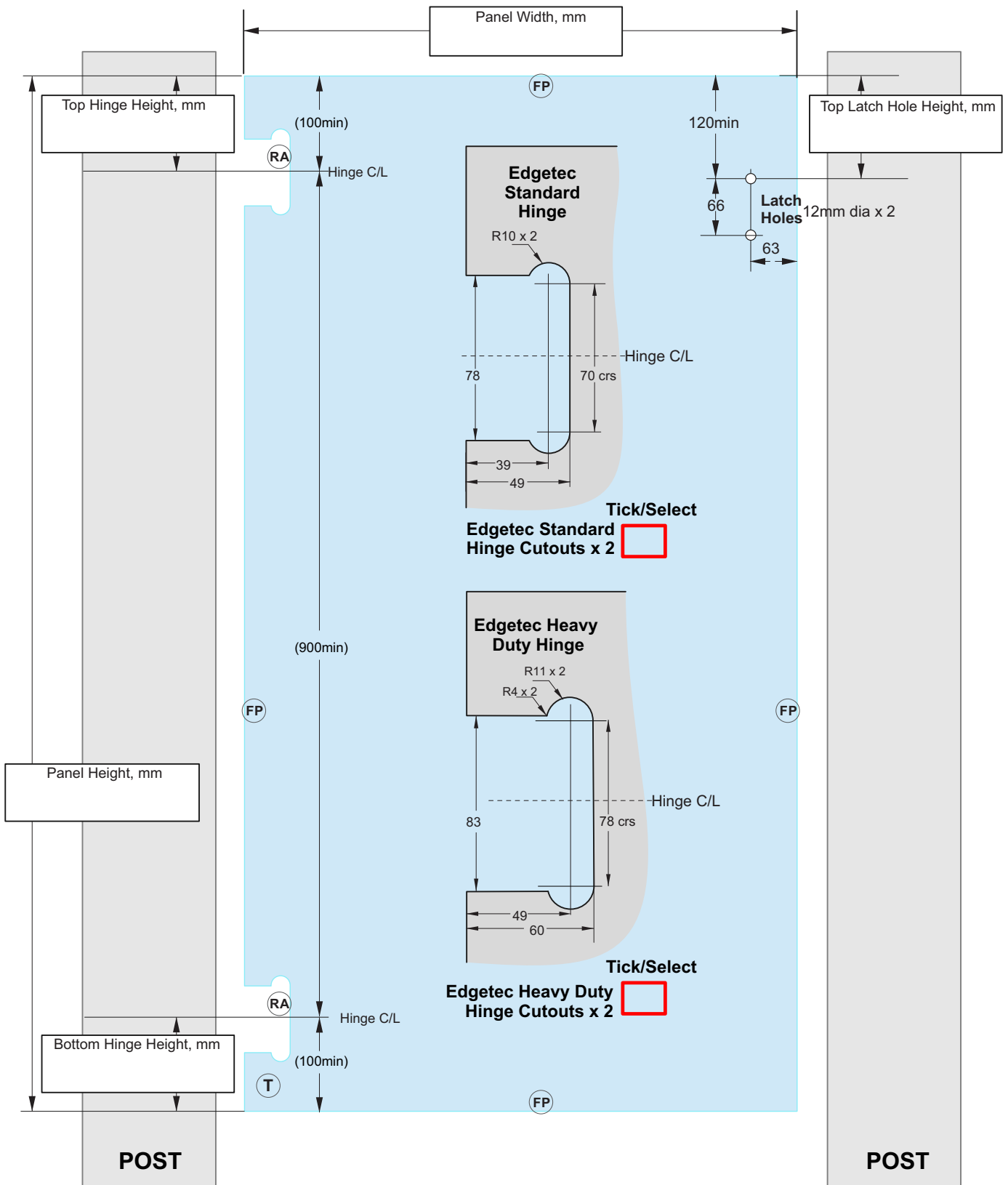
Notes :

- All Edges Flat Polish, or as per balance of this order
- Toughened Mark at Bottom Left

- Toughened Stamp	(T)
- Flat Polish Edges	(FP)
- Rough Arris Edges	(RA)

# Glass Order Sheet 4 - Select Correct Cutouts

## Gate - Hinged Glass Gate Panel (between Posts)



Notes :

- All Edges Flat Polish, or as per balance of this order
- Toughened Mark at Bottom Left

- Toughened Stamp	(T)
- Flat Polish Edges	(FP)
- Rough Arris Edges	(RA)



# Juralco Glass Pool Gate System - Glass Care and Maintenance

## Glass Cleaning and Maintenance

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

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

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

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

## Scratches and Metal Scrapers

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

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

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

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

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

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

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

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

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

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

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

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# Juralco Glass Pool Gate System - Powder Coating Care and Maintenance

## Powder Coating Installation Care

### Warning re use of solvents:

- In some cases strong solvents are recommended for thinning various types of paints and also for cleaning up mastics and sealants.
- These can be harmful to the extended life of the powder coated surface, and must not be used for cleaning purposes.
- It is important to note that the damage will not be visible immediately and may take up to 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 displays damage that has occurred on site, post installation. The photo of the masked joinery displays clear signs of damage that could have occurred were it not masked. Please ensure that your joinery is protected right through the entire construction process.



## Powder Coating Maintenance

### External - Maintenance Program:

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

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

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

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

### Cleaning your powder coating:

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



### Restoring weathered or scratched surfaces:

Repair of Scuffed or Scratched surfaces

Dulux Spray Cans are available in all colour card colours.

Repair of Small Scratches or Chips.

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

Dabsticks may not be available in all colour card colours.

Repair of Weathered areas .

Dulux Gloss Up is a light to medium cutting cream ideally suited for gloss restoration and has been specifically designed for this purpose.

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



Contact Dulux Powder Coatings , ph 0064 9 441 8244

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