



# Frameless Pool Fences, Gates and Wind Break Screens

Frameless glass fencing is unobstructive, easy to maintain, and is extremely difficult to scale and climb, perfect for pool enclosures. A number of configurations are possible, fitted with corrosion resistant stainless steel or aluminium fittings.







# **Frameless Pool** Fences, Gates and Wind Break Screens

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#### **AREA ICONS KEY:**





PIVOT DOORS

DOORS

## PRODUCT OVERVIEW

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#### Frameless Pool Fences, Gates and Wind Break Screens

A glass pool fence is the optimal choice for securing a swimming pool without limiting the view of your pool area. Metro has numerous options available from floor mounted to face fix solutions. These are complemented by self-closing pool gates, latches, pivot arms and floor springs which are manufactured in quality marine grade 316 stainless steel, and engineered to last.

Glass Windbreaks are an elegant solution, allowing unobstructed clear views of your pool, patio, and landscape. Our glass pool fences and glass railing systems add value to your property and reflect a growing trend in design and safety.





#### **Guideline to Pool Fencing Regulations**

A fence is required to enclose an area containing water more than 400mm deep. It must comply with pool safety legislation (NZBC clause F9 and 162C of the building Act).

- A pool fence may be a complete isolation barrier (4 Sides).
- Or it may incorporate parts of the house.
- And or sections of an existing boundary fence, where it permits.

No part of the pool enclosure should allow children to climb over the pool fence, including climbable objects such as tables, rocks, trees.

#### **Pool Gates**

- Minimum 1200mm high and at least a 1200mm arc from any permanent projection or object permanently placed on the ground outside.
- Must open outward, away from the pool area.
- Must self-close and latch into position.
- Any release latch is required to be 1500mm above ground level/or 300mm down the inside of the gate (1200+300=1500).
- Recommended 10-12mm thick TEMPAFLOAT® Toughened Safety Glass. (Matches Hinges) (In Accordance with Wind Zone).
- There shall be no openings in the pool gate that a 100mm diameter sphere could pass through.

#### **Pool Fencing**

- Minimum 1200mm high and at least a 1200mm arc from any permanent projection or object permanently placed on the ground outside.
- Recommended 10-12mm thick TEMPAFLOAT® Toughened Safety Glass. (Matches Hinges) (In Accordance with Wind Zone).
- Where local fencing is also balustrading (protecting a fall of 1000mm or more) it must comply with the "Balustrading" regulation AS/NZS 1170:2002, NZS 4223.3.2016, NZ Building Code B1, B2, F2, F4 and F9, where applicable.
- There shall be no openings in the pool fence that a 100mm diameter sphere could pass through.

#### **Support Inquiries**

Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz



## **Standard Pool Gate Components**

Pivot Arms (Top and Bottom Patches), Sealing Compound, Grout.



Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
PATCH TO PATCH POOL GATE PIVOT	301133	240x29mm	PSS	316 STAINLESS STEEL	PIVOT ARM	POOL GATE PIVOT ARM	Pool Gates
ARM	301134	240x29mm	SSS	SIEEL	FIXING:		Gales
*Used with two MP20 Patch Fittings		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		PATCH TO PATCH	USED WITH X2 MP20 TOP PATCH FITTING	Internal & External
							யு
GLASS TO GLASS	301135	140x75mm	PSS	316 STAINLESS	PIVOT ARM	POOL GATE	Pool
PATCH POOL GATE PIVOT ARM	301136	140x75mm	SSS	STEEL	FIXING:	PIVOT ARM	Gates
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		GLASS TO PATCH	USED WITH X2 MP20 TOP PATCH FITTING	Internal <del>8</del> External
WALL MOUNT	301144	84x60mm	PSS	316 STAINLESS	PIVOT ARM	POOL GATE	Pool
TO PATCH POOL GATE PIVOT ARM	301143	84x60mm	SSS	STEEL		PIVOT ARM	Gates
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		FIXING: WALL TO PATCH	USED WITH X2 MP20 TOP PATCH FITTING	Internal & External
TOP PATCH	301092	164x50x30mm	ANOD NATURAL	316 STAINLESS	TOP PATCH	GLASS PATCH	Pool
FITTING	301093	164x50x30mm	PSS	STEEL	FITTING	TO PIVOT ARM	Gates
4	301094	164x50x30mm	SSS				Internal &
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				External
OZONE	301077	Non Hold Open	SSS	316 STAINLESS	HYDRAULIC	POOL GATE	Pool
HYDRAULIC BOTTOM PATCH		GLASS THICKNESS: 12mm	ON REQUEST: POWDERCOAT	STEEL	BOTTOM PATCH FIXING: PATCH TO PATCH	SELF CLOSING	Gates Internal <del>8</del> External
BTS84 FLOOR SPRING	500583	15NM (Weak Strength)	SSS	316 STAINLESS STEEL	HYDRAULIC FLOOR	STD PIVOT DOOR	Internal & External
HYDRAULIC PATCH KIT	500581	25NM (Std Strength)	SSS		MOUNTED PATCH FITTING		
		Non Hold Open GLASS THICKNESS: 8-12mm Max Door Weight 100kg	ON REQUEST: POWDERCOAT				

ADDITIONAL: LATCH SELECTION REQUIRED

(Refer Handle selection table for additional options).

NOTE: Allowance must be made in the glass panel for cut out holes (Latch).



## **Standard Pool Gate Components**

Pivot Arms (Top and Bottom Patches), Sealing Compound, Grout.

Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
MFX840 FLOOR SPRING	300549	15NM (Weak Strength)	SSS	316 STAINLESS STEEL	HYDRAULIC FLOOR	STD PIVOT DOOR	Internal & External
HYDRAULIC PATCH	300547	25NM (Std Strength)	SSS		MOUNTED PATCH FITTING		È
ćn		Non Hold Open GLASS THICKNESS: 8-12mm 307mm x 108mm x 40mm	ON REQUEST: POWDERCOAT		*Supplied with std 5mm extended spindles		
FLOOR SPRING	300552	145/435ml	N/A	N/A	SEALING	PROTECT	Pool
SEALING COMPOUND					COMPOUND	FLOOR SPRING SUITS COMPONENT: MFX840 BTS84 FLOOR SPRINGS	Gates Internal & External
SIKA GROUT	300005	25kg Bag	N/A	N/A	GROUT	LEVEL FLOOR SPRING	Pool Gates
122 HB **							Internal <del>8</del> External

#### ADDITIONAL: LATCH SELECTION REQUIRED

(Refer Handle selection table for additional options).

NOTE: Allowance must be made in the glass panel for cut out holes (Latch).





# Ozone Pool Gate Latch & Pivot Arms

An Ozone Hydraulic Patch is a revolutionary closer that incorporates an adjustable self closing mechanism into the bottom patch fitting alleviating the need for a floor spring. Four screw holes are all that is required to fix into timber, concrete or steel. A top patch, pool gate arm and latch are also required and will differ depending on your application.









#### **Key Features**

- ▶ Hydraulic self closing bottom patch fitting.
- Glass Mounted Pivot Arm (Inline).
- Glass Mounted Pivot Arm (90 degrees to Glass).
- ▶ Wall Mounted Pivot Arm.
- Post Mounted Pivot Arm.
- Top Patch Fitting.
- Pool Gate Latch 180 degree glass to glass (Inline).
- Pool Gate Latch 90 degree.
- Suits 12mm glass thickness.
- Adjustable closing speed.
- External and internal application.
- 316 or 2205 Satin Stainless Steel Finish as standard. Special colours available on request.
- Powder coated special colours available.

#### Support Inquiries

Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz



#### **Ozone Plus EN5**

- High Strength Hydraulic Patch.
- For more information, please refer to the Frameless Commercial Doors Section 3, page 386.



## **Ozone Pool Gate Components**

Pivot Arms (Top and Bottom Patches), Sealing Compound, Grout.

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Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
OZONE HYDRAULIC BOTTOM PATCH	301077	183x70mm GLASS THICKNESS: 12mm	SSS ON REQUEST: POWDERCOAT	316 STAINLESS STEEL	HYDRAULIC BOTTOM PATCH FIXING: PATCH TO PATCH	POOL GATE SELF CLOSING	Pool Gates Internal & External
OZONE WALL MOUNT TO PATCH POOL GATE PIVOT ARM	301138	84x60mm GLASS THICKNESS: 12mm	SSS ON REQUEST: POWDERCOAT	2205 STAINLESS STEEL	PIVOT ARM FIXING: WALL TO PATCH	POOL GATE PIVOT ARM USED WITH X1 MP20 TOP PATCH FITTING	Pool Gates Internal & External
OZONE POST MOUNT TO PATCH POOL GATE PIVOT ARM	301139	109x59mm GLASS THICKNESS: 12mm	SSS ON REQUEST: POWDERCOAT	2205 STAINLESS STEEL	PIVOT ARM FIXING: POST TO PATCH	POOL GATE PIVOT ARM USED WITH X1 MP20 TOP PATCH FITTING	Pool Gates Internal & External
OZONE 90 DEGREE GLASS MOUNT TO PATCH POOL GATE PIVOT ARM	301140	74x110mm GLASS THICKNESS: 12mm	SSS ON REQUEST: POWDERCOAT	2205 STAINLESS STEEL	PIVOT ARM FIXING: 90 DEGREE GLASS TO PATCH	POOL GATE PIVOT ARM USED WITH X1 MP20 TOP PATCH FITTING	Pool Gates Internal & External
TOP PATCH FITTING	301092 301093 301094	164x50x30mm 164x50x30mm 164x50x30mm GLASS THICKNESS: 10-12mm	ANOD NATURAL PSS SSS ON REQUEST: POWDERCOAT	316 STAINLESS STEEL	TOP PATCH FITTING	GLASS PATCH TO PIVOT ARM	Pool Gates Internal & External
BASE PLATE	301124 301123	5mm 10mm *5mm increases clearance to 17mm 10mm increases clearance to 22mm	SSS SSS ON REQUEST: POWDERCOAT	316 STAINLESS STEEL	PIVOT ARM FIXING: GLASS TO PATCH	POOL GATE PIVOT ARM USED WITH X2 MP20 TOP PATCH FITTING	Pool Gates Internal & External

ADDITIONAL: LATCH SELECTION REQUIRED

(Refer Handle selection table for additional options)

NOTE: Allowance must be made in the glass panel for cut out holes (Latch)





# Laguna & Malibu Gate Hinges





## Laguna (High Strength) Gate Hinge (For Doors 1000mm in width)

#### **Key Features**

- Self-closing gate hinges designed to close gates up to 1000mm wide.
- ▶ Suits 10 12mm glass thickness.
- Adjustable closing speed.
- External and internal application.
- ▶ Hinges are non-hold open.
- ▶ Glass to Glass.
- ▶ Wall to Glass.
- Right hand or Left Hand Opening.
- > 316 Satin or Polished Stainless Steel Finish as standard.



## Malibu Gate Hinge (For Doors 900mm in Width)

#### Key Features

- Self-closing gate hinges designed to close gates up to 900mm wide.
- ▶ Suits 10 12mm glass thickness.
- Adjustable closing speed.
- External and internal application.
- ▶ Hinges are non-hold open.
- Glass to Glass.
- ▶ Wall to Glass.
- Right hand or Left Hand Opening.
- 316 Satin or Polished Stainless Steel Finish as standard. Special colours available on request.
- Powder coated special colours available.

#### **Support Inquiries**

Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz



## Laguna / Malibu - Pool Gate Hinges

Pivot Arms (Top and Bottom Patches), Sealing Compound, Grout.



Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
LAGUNA POOL GATE HINGE	300786	159 x 110mm	SSS	316 STAINLESS STEEL	DOOR HINGE NON HOLD	PIVOT DOOR	Pool Gates
	300785	159 x 110mm	PSS	JIEL	OPEN		Internal &
(HIGH STRENGTH)		GLASS			FIXING:		External
		THICKNESS: 10-12mm			GLASS TO		
		Max Gate			GLASS		₩
		Width 1000mm					
LAGUNA POOL	300790	110x 77x60mm	SSS	316 STAINLESS	DOOR HINGE	PIVOT DOOR	Pool
GATE HINGE	300789	110x 77x60mm	PSS	STEEL	NON HOLD		Gates
(нібн		GLASS		-	OPEN		Internal & External
STRENGTH)		THICKNESS:			FIXING:		
-l.		10-12mm			WALL TO GLASS		
		Max Gate					₩ L
		Width 1000mm					
LAGUNA POOL GATE HINGE	300792	110x 77x60mm	SSS	316 STAINLESS STEEL	DOOR HINGE NON HOLD	PIVOT DOOR	Pool Gates
	300791	110x 77x60mm	PSS		OPEN (OFFSET BACKPLATE) FIXING: WALL TO GLASS		Internal &
(HIGH STRENGTH)		GLASS THICKNESS:					External
		10-12mm					
		Max Gate					₩
		Width 1000mm					
MALIBU POOL	300774	125 x 104mm	SSS	316 STAINLESS	DOOR HINGE NON HOLD OPEN FIXING: GLASS TO GLASS	PIVOT DOOR	Pool
GATE HINGE	300773	125 x 104mm	PSS	STEEL			Gates
(HIGH STRENGTH)		GLASS					Internal & External
		THICKNESS: 10-12mm					
		10-1211111					ĮΨ
4		Max Gate Width 900mm					
		width 900mm					
MALIBU POOL	300782	104x60x60mm	SSS	316 STAINLESS	DOOR HINGE	PIVOT DOOR	Pool
GATE HINGE	300781	104x60x60mm	PSS	STEEL	NON HOLD OPEN		Gates
(HIGH STRENGTH)		GLASS					Internal & External
		THICKNESS: 10-12mm			FIXING: WALL TO		
<b>n</b>					GLASS		ΨΨ
		Max Gate Width 900mm					
11. 1		Widen Soonin					
MALIBU POOL	300780	104x60x60mm	SSS	316 STAINLESS	DOOR HINGE	PIVOT DOOR	Pool
GATE HINGE	300779	104x60x60mm	PSS	STEEL	NON HOLD OPEN (OFFSET		Gates Internal <del>8</del>
(HIGH STRENGTH)		GLASS			BACKPLATE)		External
		THICKNESS: 10-12mm			FIXING:		
1 1					WALL TO GLASS		₩
de la companya de la		Max Gate Width 900mm					

HINGE GLASS CUT OUT. (Refer to Hinge Cut Out details for Hinge Glass Preparation)

NOTE: Allowance must be made in the glass panel for cut out holes

ADDITIONAL: LATCH SELECTION REQUIRED. (Refer Handle selection table for additional options)

 $\operatorname{\textbf{NOTE:}}$  Allowance must be made in the glass panel for cut out holes (Latch)



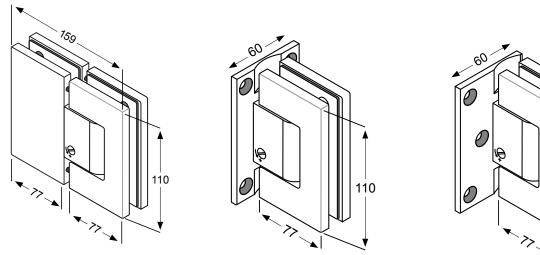


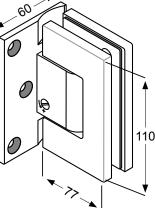
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## FRAMELESS COMMERCIAL DOORS

## Installation / Fitting Instructions

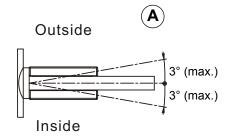
## Laguna Hydraulic Door Hinges

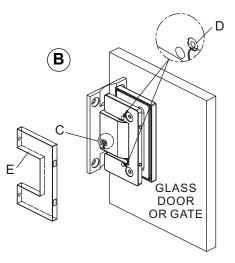




## Door alignment

- 1. Remove covers (E)
- 2. Loosen allen screws by 360° (D)
- 3. Adjust to required angle and retighten allen screws (D)
- 4. (C) is slotted speed valve.





These self closing hydraulic gate hinges are designed to close gates up to 1000mm wide in external

and in internal installations. They are designed to be used with the range of MFG Mag Latches for

pool gates. Hinges are Non Hold Open. The hinges are available in both glass to glass and glass to post/wall models and both models are Non Handed, meaning they can be hung on either side of the gate opening.

Gaskets are provided so the glass gate and side panels can be 10mm or 12mm toughened glass.

1. Remove clip on covers and install the hinges. Ensure all clearances are correct.

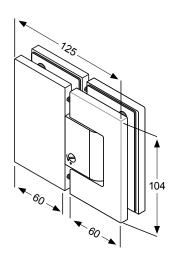
- 2. If gate requires alignment, loosen allen keys on both hinges by 360° as per detail B. Set the door to correct alignment and retighten allen screws.
- 3. To set closing speed, close slotted screws on both hinges then open both 1/4 of a turn. Then open or close slotted valves to obtain required closing speed. Take care to ensure the valves of each hinge are synchronized so they close at equal speed.
- 4. Install clip on covers.

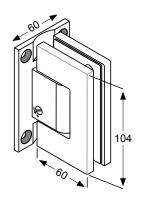


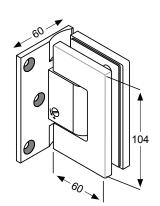
## FRAMELESS COMMERCIAL DOORS

## Installation / Fitting Instructions

## Malibu Hydraulic Door Hinges

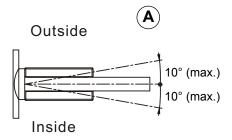


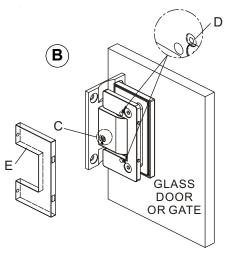




### Door alignment

- 1. Remove covers (E)
- 2. Loosen allen screws by 360° (D)
- 3. Adjust to required angle and retighten allen screws (D)
- 4. (C) is slotted speed valve.





These self closing hydraulic gate hinges are designed to close gates up to 900mm wide in external

and in internal installations. They are designed to be used with the range of MFG Mag Latches for

pool gates. Hinges are Non Hold Open. The hinges are available in both glass to glass and glass to post/wall models and both models are Non Handed, meaning they can be hung on either side of the gate opening.

Gaskets are provided so the glass gate and side panels can be 10mm or 12mm toughened glass.

1. Remove clip on covers and install the hinges. Ensure all clearances are correct.

- 2. If door requires alignment, loosen allen keys on both hinges by 360° as per detail B. Set the door to correct alignment and retighten allen screws.
- 3. To set closing speed, close slotted screws on both hinges then open both ¼ of a turn. Then open or close slotted valves to obtain required closing speed. Take care to ensure the valves of each hinge are synchronized so they close at equal speed.
- 4. Install clip on covers.



# Pool Gate Latches

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A number of options and styles available to suit all applications, meeting all legislative requirements under the New Zealand building code.

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#### Key Features

- Glass to Glass.
- Glass to Post.
- Glass to Wall Latch.
- Glass to Round Post.
- ▶ 90degree Glass to Glass Latch.
- 316 Satin or Polished Stainless Steel Finish as standard. Special colours available on request.
- ▶ Powder coated special colours available.
- ▶ Suits 10 12mm glass.
- Magnetic Bolt lock options.
- Malibu Latches designed to match both the Malibu and Laguna series pool gate hinge design.

### **Support Inquiries**

Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz



## **Pool Gate Latches**

Pivot Doors / Gates – Exterior Lockset



Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
POOL GATE LATCH (GLASS	300918	105x100mm	PSS	316 STAINLESS	POOL GATE LATCH*	PIVOT DOOR	External
TO GLASS	300919	105x100mm	SSS	STEEL			Pool Fence
	300917	105x100mm	ANOD NATURAL		*180 degree (Glass to		
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		Glass)		U
POOL GATE	300912	97x50mm	PSS	316 STAINLESS	POOL GATE	PIVOT DOOR	External
LATCH (GLASS TO POST)	300913	97x50mm	SSS	STEEL	LATCH*		Pool Fence
	300911	97x50mm	ANOD NATURAL		*Glass to Post		
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				
POOL GATE	300915	85x100mm	PSS	316 STAINLESS STEEL	POOL GATE	PIVOT DOOR	External
LATCH (GLASS TO WALL	300916	85x100mm	SSS		LATCH*		Pool Fence
	300914	85x100mm	ANOD NATURAL		*Glass to Post		
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		or Wall		U
POOLGATE	300921	83x100mm	PSS	316 STAINLESS STEEL	POOL GATE LATCH* *Glass to Round Post	PIVOT DOOR	External
LATCH (GLASS TO ROUND POST)	300922	83x100mm	SSS				Pool Fence
	300920	83x100mm	ANOD NATURAL				
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT				U
POOL GATE	300909	115x100mm	PSS	316 STAINLESS STEEL	POOL GATE LATCH* *90 Degree (Glass to	PIVOT DOOR	External Pool Fence
LATCH 90 DEGREE (GLASS	300910	115x100mm	SSS				
TO GLASS)	300908	115x100mm	ANOD NATURAL				
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		(Glass to Glass)		U
MALIBU POOL	300900	128x103mm	PSS	316 STAINLESS	POOL GATE	PIVOT DOOR	External
LATCH (GLASS TO GLASS)	300901	128x103mm	SSS	STEEL	LATCH*		Pool Fence
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		*180 degree (Glass to Glass)		
MALIBU POOL	300902	95x103mm	PSS	316 STAINLESS	POOL GATE	PIVOT DOOR	External
LATCH (GLASS TO WALL)	300903	95x103mm	SSS	STEEL	LATCH		Pool Fence
		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT		*Glass to Post or wall		
OZONE POOL	300906	104x60x60mm	SSS	2205 STAINLESS	POOL GATE	PIVOT DOOR	Pool
GATE LATCH (GLASS TO GLASS)		GLASS THICKNESS: 10-12mm	ON REQUEST: POWDERCOAT	STEEL	LATCH* *180 degree (Glass to		Gates Internal & External
		Max Gate Width 900mm			Glass)		D

NOTE: Allowance must be made in the glass panel for cut out holes



## **Pool Gate Latches**

Pivot Doors / Gates – Exterior Lockset

Product	Model	Sizes mm	Finish	Material	Туре	Application	Area
OZONE POOL	300907	90x75mm	SSS	2205 STAINLESS STEEL	POOL GATE	PIVOT DOOR	External Pool Fence
GATE LATCH 90 DEGREE (GLASS		GLASS	ON REQUEST:		LATCH*		
TO GLÁSS)		THICKNESS: 12mm	POWDERCOAT		*90 Degree (Glass to		
					Glass)		
OZONE POOL	300905	65x74mm	SSS	2205 STAINLESS	POOL GATE	PIVOT DOOR	External
GATE LATCH (GLASS TO POST)		GLASS	ON REQUEST:	STEEL	LATCH		Pool Fence
and the second s		THICKNESS: 10-12mm	POWDERCOAT		*Glass to Post or wall		$\square$
MAGNA LATCH	300899	60x73mm	N/A	BLACK*	POOL GATE	PIVOT DOOR	External
(MAGNETIC GATE LATCH)				*Molded	LATCH		Pool Fence
				polymers & stainless steel	*Glass Gate Hardware Kit		
					designed to fit 50mm round posts		

NOTE: Allowance must be made in the glass panel for cut out holes



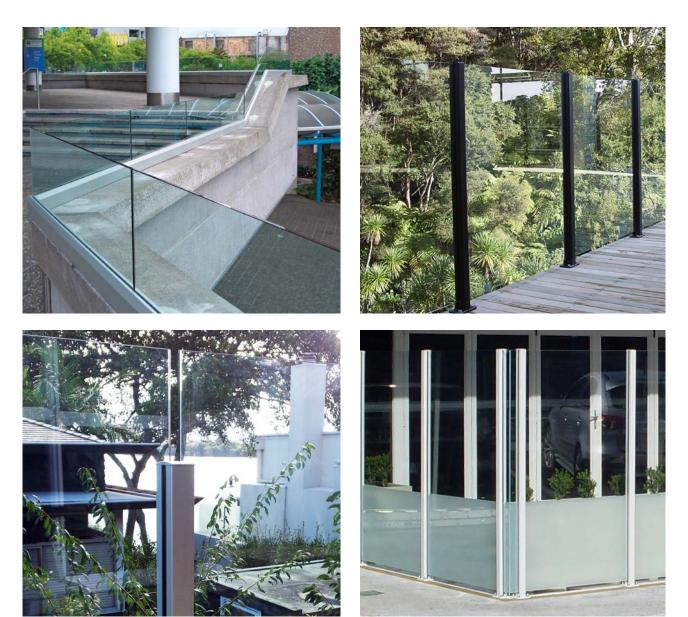




# Wind Break Systems

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A frameless glass windbreak means you can enjoy your favourite space all year round. Perfect for windswept outdoor spaces and to block off cold southerly winds without interrupting or blocking those views.



NOTE: If protecting a fall greater than a metre, please refer through to the Balustrade section.

#### **Key Features**

- Custom designed to fit your space, windbreaks can be used for commercial and residential properties.
- Shut out unexpected winds or rain and keep them closed in Winter to stay warm but without interrupting the view.
- Frameless glass windbreaks allow you to enjoy your favourite place all year round.

#### **Types**

Our Windbreak and Privacy Screen system works in conjunction with our balustrade systems. Please view Section 1 for selection and specification.

### Scope of Use

- Protection from the elements including but not limited to wind, rain, sun. Our frameless glass windbreaks can be applied in many different ways. From protecting your outdoor dining area to a contemporary apartment building zoning solution.
- Windbreaks can also be used as Privacy screens for modern apartment buildings consisting of communal and zoned spaces aimed at enhancing the inner-city lifestyle.
- Windbreaks require extra consideration for wind loadings dependent on the size of the screen and support required to resist the implied loads.

#### **Support Inquiries**

 Metro Technical phone (09) 927 3000 or email technical@metroglass.co.nz

