

**SPIGOTS** 

**Installation Tips** 





www.blitzglass.com.au

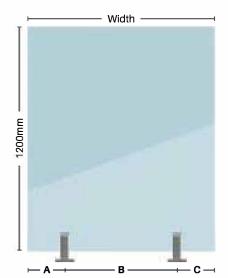


(07) 5493 9779



admin@blitzglass.com.au

### SUGGESTED SPIGOT PLACEMENT





5mm radius corners	
Suits friction spigots	
No hole toughened glass	
Superior edge finishing	
Grade 'A' toughened glass	
Australian standards compl	iant

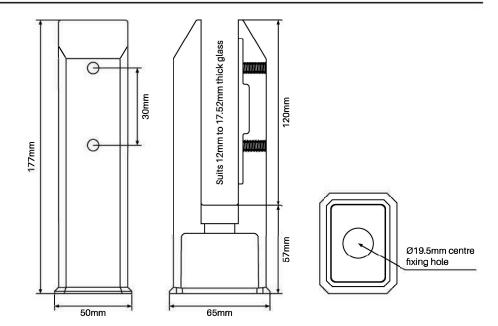


Overall Width	<b>A</b> *	В*	C*	
200mm	50mm	100mm	50mm	
250mm	50mm	150mm	50mm	
300mm	100mm	100mm	100mm	
350mm	100mm	150mm	100mm	
400mm	100mm	200mm	100mm	
450mm	100mm	250mm	100mm	
500mm	100mm	300mm	100mm	
550mm	100mm	350mm	100mm	
600mm	100mm	400mm	100mm	
650mm	100mm	450mm	100mm	
700mm	100mm	500mm	100mm	
750mm	150mm	450mm	150mm	
800mm	150mm	500mm	150mm	
850mm	150mm	550mm	150mm	
900mm	150mm	600mm	150mm	
950mm	150mm	650mm	150mm	
1000mm	150mm	700mm	150mm	
1050mm	150mm	750mm	150mm	
1100mm	200mm	<b>7</b> 00mm	200mm	
1150mm	200mm	750mm	200mm	
1200mm	200mm	800mm	200mm	
1250mm	200mm	850mm	200mm	
1300mm	200mm	900mm	200mm	
1350mm	200mm	950mm	200mm	
1400mm	250mm	900mm	250mm	
1450mm	250mm	950mm	250mm	
1500mm	250mm	1000mm	250mm	
1550mm	250mm	1050mm	250mm	
1600mm	250mm	1100mm	250mm	
1650mm	250mm	1150mm	250mm	
1700mm	250mm	1200mm	250mm	
1750mm	250mm	1250mm	250mm	
1800mm	300mm	1200mm	300mm	
1850mm	300mm	1250mm	300mm	
1900mm	300mm	1300mm	300mm	
1950mm	300mm	1350mm	300mm	
2000mm	300mm	1400mm	300mm	

<sup>\*</sup>To centre of spigot

# Madrid deluxe top fix SS2205





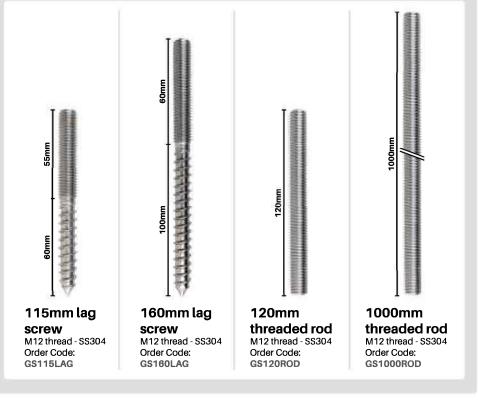
# Madrid Deluxe top fix clamp

Polish or satin finish
Order Code: MADDEL-TF-P (Polish)
MADDEL-TF-S (Satin)

#### **Advantages**

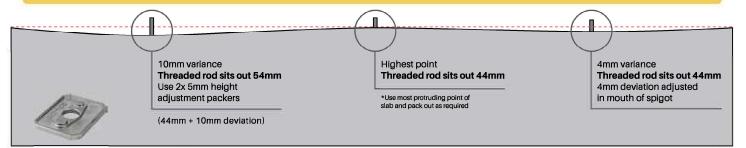
- · Top fix spigot installed with single central M12 fixing and specially machined nut
- · Single central fixing ideal for narrow/PFC beams and slab installations
- · No large core holes, dress rings or domical covers required
- · Stainless Steel 2205 spigot in polish or satin finish
- · 45mm front slimline profile x 65mm depth
- · Suits 12mm up to 17.52mm glass
- · Friction fit glass installation with recessed friction packer no holes in glass required
- $\cdot\,120\text{mm depth spigot mouth provides extra clamping strength and rigidity}$
- · Internal packers included for glass panel alignment and tilt adjustment
- 5mm thick SS2205 height adjustment packer for uneven surfaces available in polish and satin finish (sold separately)





# Madrid top fix concrete install guide

**NOTE:** Attach a stringline to the surface from where the first spigot is being installed to where the last spigot is being installed and note any variance in floor level. Refer to below example for further information.



### HEIGHT ADJUSTMENT GUIDE

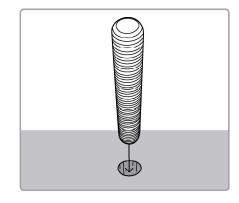
For larger floor variances, continue same methodology

Floor variance	Adjustment required
1mm - 5mm	Adjust glass with packers in mouth of spigot 5mm height adjustment of glass is possible in mouth of spigot
5.1mm - 10mm	Use 1x 5mm stainless packer and adjust glass with packers in mouth of spigot
10.1mm - 15mm	Use 2x 5mm stainless packer and adjust glass with packers in mouth of spigot
15.1mm - 20mm	Use 3x 5mm stainless packer and adjust glass with packers in mouth of spigot
20.1mm - 25mm	Use 4x 5mm stainless packer and adjust glass with packers in mouth of spigot

Drill 1x 14mm hole in concrete slab where spigot will be installed.

Insert M12 threaded rod into the hole and ensure rod is protruding from the slab 44mm (or as required subject to diagram above).

Chemically anchor rods into place.



Place Madrid Top Fix Spigot down onto M12 fixing.

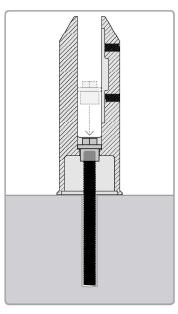
Position machined nut into centrally located cavity in the spigot and tighten nut securely onto thread (It is always recommended to use Loctite 263 on fixing threads).

Ensure spigot is firmly and securely fastened down.

### Trade tip!

Tilt adjustment and side to side adjustment packers are included with each spigot to assist in installation





<sup>\*</sup>Please consult your engineer relating to questions of concrete suitability for installations as hardness of concrete may vary. For chemical anchor, refer to the manufacturer's specification of minimum embedment of anchor and hole diameter as specifications may differ between manufacturers. We are unable to give technical advice regarding substrates.

# Madrid top fix timber install guide

**NOTE:** Attach a stringline to the timber surface from where the first spigot is being installed to where the last spigot is being installed and note any variance in floor level. Refer to below example for further information.



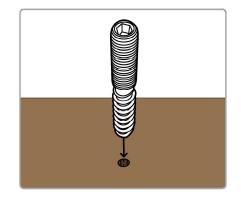
### HEIGHT ADJUSTMENT GUIDE

For larger floor variances, continue same methodology

Floor variance	Adjustment required
1mm - 5mm	Adjust glass with packers in mouth of spigot 5mm height adjustment of glass is possible in mouth of spigot
5.1mm - 10mm	Use 1x 5mm stainless packer and adjust glass with packers in mouth of spigot
10.1mm - 15mm	Use 2x 5mm stainless packer and adjust glass with packers in mouth of spigot
15.1mm - 20mm	Use 3x 5mm stainless packer and adjust glass with packers in mouth of spigot
20.1mm - 25mm	Use 4x 5mm stainless packer and adjust glass with packers in mouth of spigot

Pre-drill 1x pilot holes into timber where spigot will be installed.

Drive M12 lag screw into pilot hole and ensure thread is protruding 44mm from timber (or as required subject to diagram above).



Place Madrid Top Fix Spigot down onto M12 fixing.

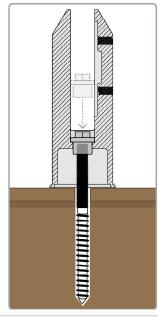
Position machined nut into centrally located cavity in the spigot and tighten nut securely onto thread (It is always recommended to use Loctite 263 on fixing nut thread)

Ensure spigot is firmly and securely fastened down.

### Trade tip!

Tilt adjustment and side to side adjustment packers are included with each spigot to assist in installation

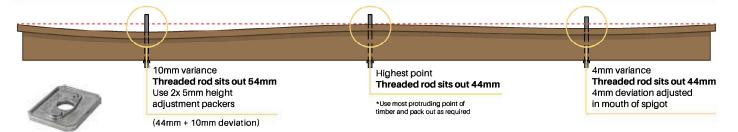




\*Please consult your engineer regarding suitability and structural integrity of timber, steel or other beam/substrate. Timber hardness and strength varies and as each installation situation is different we are unable to provide technical advice regarding suitability of substrate.

# Madrid top fix joist/beam install guide

**NOTE:** Attach a stringline to the surface from where the first spigot is being installed to where the last spigot is being installed and note any variance in floor level. Refer to below example for further information.



### HEIGHT ADJUSTMENT GUIDE

For larger floor variances, continue same methodology

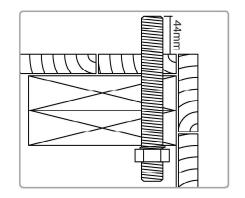
Floor variance	Adjustment required
1mm - 5mm	Adjust glass with packers in mouth of spigot 5mm height adjustment of glass is possible in mouth of spigot
5.1mm - 10mm	Use 1x 5mm stainless packer and adjust glass with packers in mouth of spigot
10.1mm - 15mm	Use 2x 5mm stainless packer and adjust glass with packers in mouth of spigot
15.1mm - 20mm	Use 3x 5mm stainless packer and adjust glass with packers in mouth of spigot
20.1mm - 25mm	Use 4x 5mm stainless packer and adjust glass with packers in mouth of spigot



Pre-drill 1x 12.5mm or 13mm hole through joist/beam.

Insert threaded rods and leave 44mm of thread protruding from top of joist/beam (or as required subject to diagram above).

Ensure enough thread is left protruding from underneath the joist/beam for an M12 nut with spring washer to be affixed (purchase from nut & bolt shop).



2

Place Madrid Top Fix Spigot down onto M12 fixing.

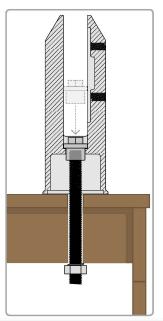
Position machined nut into centrally located cavity in the spigot and tighten nut securely onto thread (It is always recommended to use Loctite 263 on fixing nut thread)

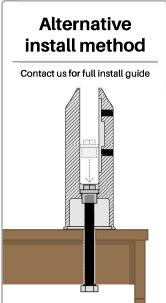
Ensure spigot is firmly and securely fastened down.

### Trade tip!

Tilt adjustment and side to side adjustment packers are included with each spigot to assist in installation







\*Please consult your engineer regarding suitability and structural integrity of timber, steel or other beam/substrate. Timber hardness and strength varies and as each installation situation is different we are unable to provide technical advice regarding suitability of substrate.



### MADRID TILT SS2205

#### Innovative face mount spigot featuring tilt adjustment – ensures easy alignment of glass



### Stackable packer

**BLACK HDPE** 3mm thick Order Code: MAD-TILT-PKR

Fits between wall/beam and rear plate to overcome uneven surfaces. Horseshoe shape design allows easy installation

#### Madrid tilt spigot

#### FRICTION FIT

Polish, satin or matt black finish Order Code: MAD-TILT-S-P (Polish)

MAD-TILT-S-S (Satin) MAD-TILT-S-B (Black)

- Duplex stainless steel 2205
- · Face mount spigot fix to vertical surface of concrete, timber/steel beams or bearers
- · 2 part spigot for easy install: (1) rear plate fixed to vertical surface (2) spigot attaches to rear plate with 2 x M8 counter sunk screws
- · Tilt adjustable innovative design allows for tilt adjustment by simply turning top and bottom M8 grub screws
- · Glass alignment adjustability is a huge installation advantage
- Timber/beam fixing 2 x fixing points in the rear plate for increased strength
- · Concrete fixing ideal for narrow slabs with 1 x sturdy M18 fixing
- · Neat finish slide in cover plate hides exposed screws on spigot front
- · Earthing terminal included
- · 3mm stackable horseshoe packers sold separately that can inserted behind rear plate to overcome uneven vertical surfaces

### **Optional extras**



#### M18 fixing kit

SS304

1x M18x120mm threaded rod, 1x flat washer, 1x spring washer & 1x nut Order Code:

MAD-TILT-M18KIT

Commonly used for concrete installations - single fixing ideal for narrow slabs



#### M12 fixing kit

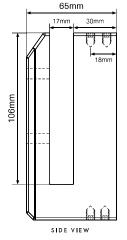
SS304

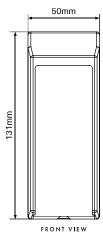
2x M12x93mm lag screws, 2x flat washers, 2x spring washers & 2x nuts Order Code:

MAD-TILT-M12KIT

Commonly used for timber/beam fixing (M12 threaded rod may also be used with rear lock nuts as an alternative to lag screw timber/beam fixing – M12 threaded rod and rear fixing nut not included in MAD-TILT-M12KIT)









TILT GLASS BACK

TILT GLASS FORWARD

#### **EASY TILT ADJUSTMENT**

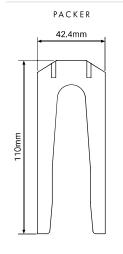
Innovative design - M8 pointed grub screw in top and bottom of spigot pushes onto 45 angle of rear plate allowing front spigot to tilt forward or back.

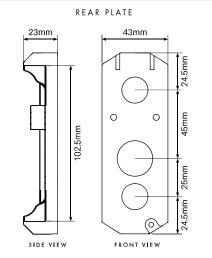
> TILT GLASS BACK

Unwind top M8 grub screw slightly and tighten bottom M8 grub screw to tilt glass back

TILT GLASS FORWARD

Tighten top M8 grub screw and unwind bottom M8 grub screw slightly to tilt glass forward







### MADRID TILT SS2205

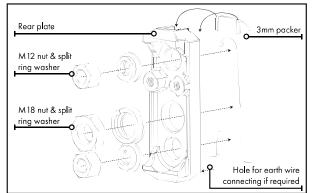


Images & drawings are not to scale





### MADRID TILT ADJUSTMENT INSTALLATION



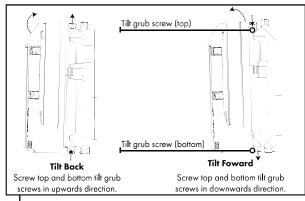
Secure the rear plate to substrate. Ensure rear plate installed with word 'TOP' facing upwards.

Use appropriate fixing depending if steel, concrete, timber or other substrate. Fix rear plate using either (a) top & bottom holes with M12 rod/lag screw or (b) middle hole with M18 rod. Do not fix using all 3 holes.

 $\label{eq:Multiple 3mm packers may be used to space rear plate from mounting wall in cases of over hanging lips etc.$ 

For the M18 and M12 holes, plastic bushes are provided. For each type, select between an offset bush and standard round bush. The offset bush can be rotated for height adjustment.

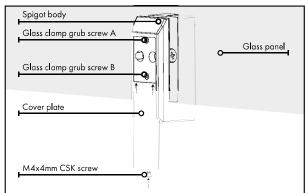
**Install Note:** Central M18 rod to be used only for pool fencing. For balustrate installation always use 2 x M12 fixings per spigot.



Before installing glass, use a spirit level to adjust spigot to vertical position.
Recommended to use a string line from first to last spigot in alignment to ensure all spigots are level.

Use the shown tilt grub screws on the top and bottom to tilt the spigot forward or back. Lock off grub screws (refer 3B) should be loosened off at this stage.

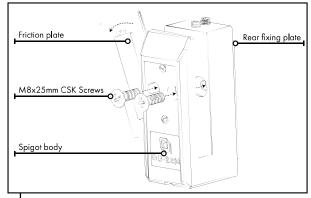
**Install note:** Shorter M8 grub screws included in case of large angle adjustments causing existing grub screw to protrude. Replace with shorter M8 grub screw as required.



Install 12mm thick glass into spigot and tighten glass clamp grub screws A and B. Install cover plate by sliding upwards into recess at front of spigot.

Secure cover in place with 1 x M4x4mm counter sunk screw.

Install note: To ensure cover plate can slide into position, the spigot must have a 70mm minimum gap to floor/ground.

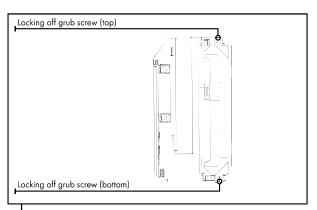


Remove friction plate from spigot body. Insert 2x M8x25mm counter sunk screws through holes in front and into back holes locating into threaded bosses in rear plate.

Tighten M8x25mm counter sunk screws, securing the spigot front to rear plate.

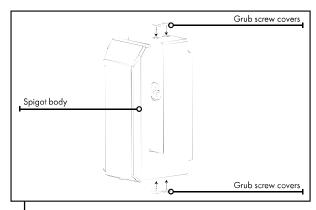
Use Loctite 242 or Ultraloc 3242 to ensure long lasting and secure fixing

Replace friction plate to spigot.



Once spigot is level use locking off grub screws (top and bottom) to secure spigot in position.

Ensure grub screws are tightly affixed.



Adhere grub screw covers with silicone

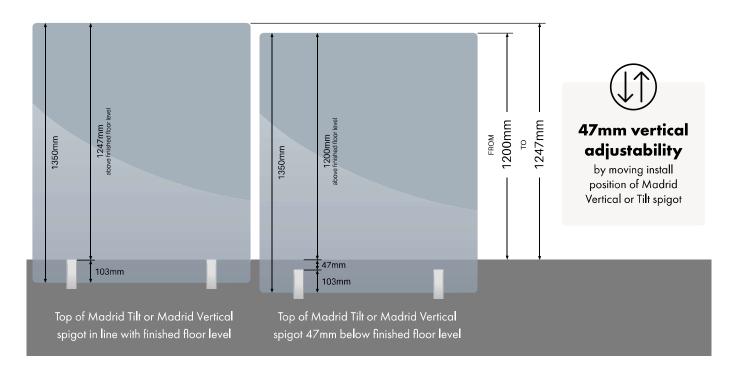
BEWARE OF ELECTRICAL WIRING PRIOR TO DRILLING AND INSTALLING ANY FITTINGS

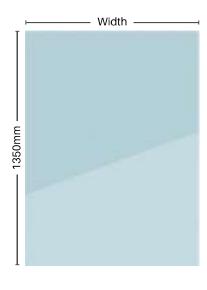


### MADRID TILT SS2205

### **Applies to Madrid Tilt & Madrid Vertical spigots**

Using 1350mm high clear toughened for face mount pool fencing panels





Order Code	Perth Order Code	Width	Height	Sqm	Weight
12CG-0600	C12CG-0600	600mm	1350mm	0.81	24kg
12CG-0700	C12CG-0700	700mm	1350mm	0.95	28kg
12CG-0800	C12CG-0800	800mm	1350mm	1.08	32kg
12CG-0900	C12CG-0900	900mm	1350mm	1.22	37kg
12CG-1000	C12CG-1000	1000mm	1350mm	1.35	41 kg
12CG-1100	C12CG-1100	1100mm	1350mm	1.49	45kg
12CG-1200	C12CG-1200	1200mm	1350mm	1.62	49kg
12CG-1300	C12CG-1300	1300mm	1350mm	1. <i>7</i> 6	53kg
12CG-1400	C12CG-1400	1400mm	1350mm	1.89	<i>57</i> kg
12CG-1500	C12CG-1500	1500mm	1350mm	2.03	61kg
12CG-1600	C12CG-1600	1600mm	1350mm	2.16	65kg

12mm thick clear toughened

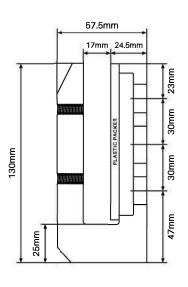
5mm radius corners

(i)

Perth's pool fencing panels are pre-wrapped in cardboard

# **Madrid vertical SS2205**







# Madrid Vertical WALL MOUNT CLAMP

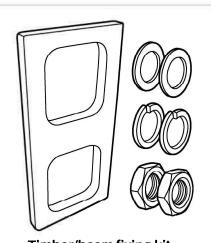
Polish or satin finish

Order Code: MAD-VC-P (Polish) MAD-VC-S (Satin)

#### **Advantages**

- · Stainless steel 2205 in polish or satin finish
- Face mount spigot can be fixed to concrete, timber, beams or bearers
- · A fast and easy alternative to glass standoffs
- · Suits 12mm glass friction fit
- Ideal for narrow concrete slab installations with single central fixing
- Earthing terminal included for installations near waters edge
- Pool fencing and balustrade compliant. Contact us for load test reports
- Tilting packer tapered from 0.8mm to 1.3mm included to assist installation
- Eccentric rear bush included allows for vertical and horizontal adjustment when installing
- · Fixing kits sold separately

### Fixing kits & accessories



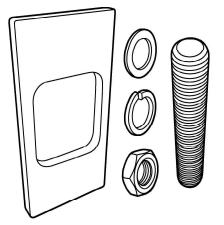
#### Timber/beam fixing kit

Order Code: MAD-M12KIT

#### Kit includes:

- 2x flat washers & 2x spring washers
- 2x nuts
- 1x 6.5mm thick packer
- \*M12 lag screws sold separately

For **timber fixing**, purchase as required separately 93mm, 115mm or 160mm lag screws (2 per spigot) For **steel beam fixing**, M12 threaded rod and rear lock off nuts can be used

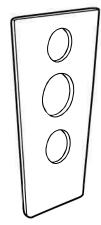


#### Concrete fixing kit

Suits installation into concrete
Use appropriate chemical anchor
Order Code: MAD-M18KIT

#### Kit includes

- 1x M18x120mm threaded rod
- 1x flat washer & 1x spring washer
- 1x nut
- 1x 6.5mm thick packer

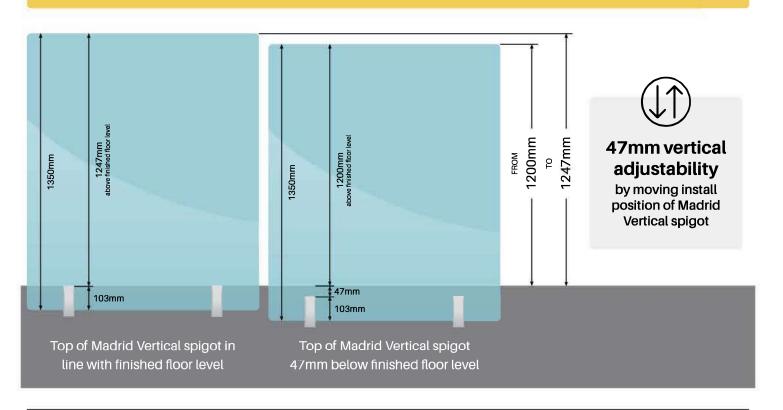


#### 2.5mm thick back packer

Packer can be used for out of plumb walls to pack out rear of Madrid vertical spigot Order Code: MAD-PACKER

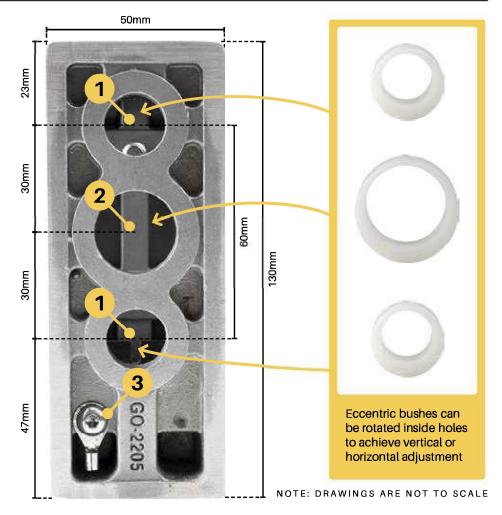
# Madrid vertical install tips

### Using 1350mm high clear toughened pool fencing panels



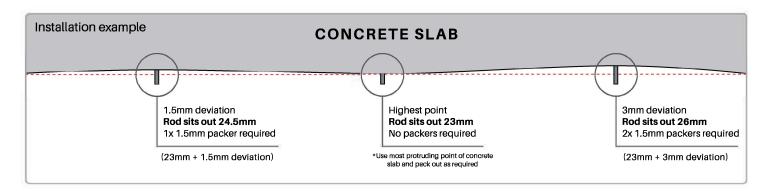
# Madrid vertical dimensions and install features

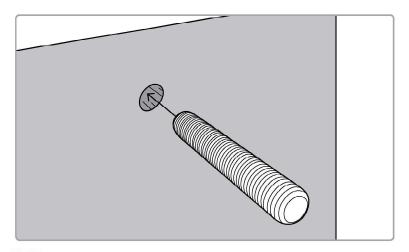
- Top and bottom hole use with M12 lag screws or threaded rod for timber or joist fixing. Spigot comes with eccentric bush which allows adjustment up/down and sideways when installing
- Middle hole for concrete/slab installations comes with eccentric bush which allows adjustment up/down and sideways when installing
- **3** Earthing terminal provided for installations near water's edge

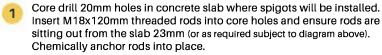


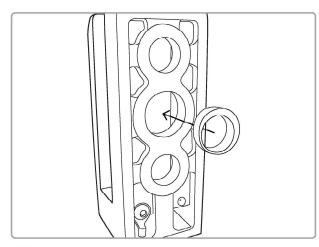
# Madrid vertical concrete install guide

**NOTE:** Attach a stringline to the concrete surface from where the first clamp is being installed to where the last clamp is being installed and note any variance in slab deviation. Refer to below example for further information.

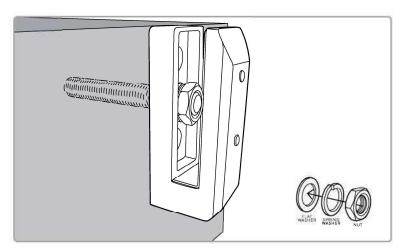




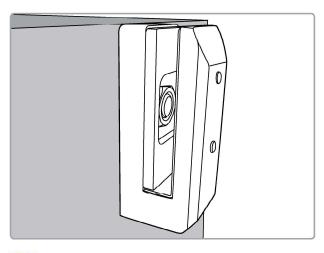




Insert offset washer into centre hole on the back of the spigot. Discard other offset washers. The offset washer can be rotated inside centre hole to achieve vertical or horizontal adjustment.



3 Slide spigot with offset washer onto threaded rod and tighten nut over flat washer and spring washer.
(Nut requires 26mm open ended ring spanner)

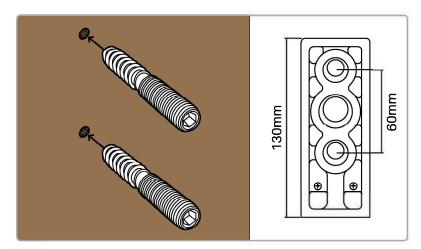


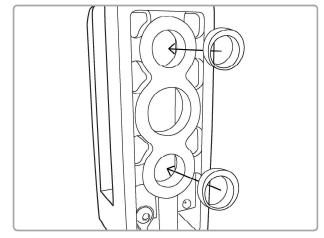
Take 6.5mm packer with centre cutout, remove 2x pieces of double sided tape and fit inside throat of spigot over threaded rod.

# Madrid vertical timber install guide

**NOTE:** Attach a stringline to the timber surface from where the first clamp is being installed to where the last clamp is being installed and note any variance in timber deviation. Refer to below example for further information.



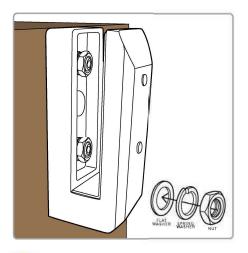




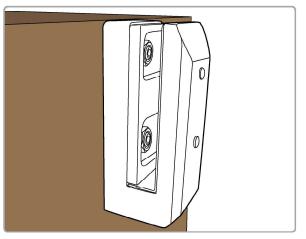
Pre-drill 2x pilot holes into timber where spigots will be installed (hole centres are 60mm).

Drive  $2x\ M12$  lag screws into pilot holes and ensure thread is sitting out from the timber 23mm (or as required subject to diagram above).

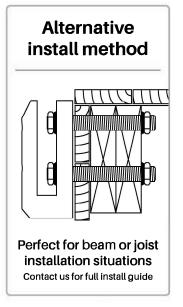
Insert 2x offset washers into top and bottom holes on the back of the spigot. Discard large offset washer. The offset washers can be rotated inside top and bottom holes for vertical or horizontal adjustment.



3 Slide spigot with offset washers onto lag screws and tighten nuts over flat washers and spring washers (Nut requires 19mm open ended ring spanner)



Take 6.5mm packer with 2x top and bottom cutouts, remove 2x pieces of double sided tape and fit inside throat of spigot over 2x lag screws with nuts



# Versatilt adjustable glazing channel



# The Versatilt aluminium channel system with glass tilt adjustability sets the new standard for face mount and deck mount channel installations.

Channels are available in a clear anodise finish at 4200mm long with pre-drilled fixing holes suitable for either face mount or deck mount installation. Once installed, covers simply snap on to conceal all fixings. In a massive technical advancement, the patented rotator plates allow friction fitting and *TILT ADJUSTMENT* of glass inside the channel.

Although more common for balustrade installations, the Versatilt channel may also be considered for pool fence installations and particularly face mount situations.

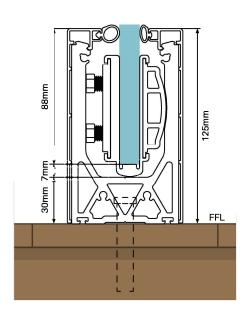
#### **Advantages**

- · Suits 12mm to 15mm toughened glass (including SGP toughened laminate glass)
- · Channel finish is clear anodised Covers available in brushed satin anodised or mill finish
- · Face mount & deck mount styles available 4200mm long
- · Pre-machined elongated fixing holes
- · Easy snap-on covers hide all fixings
- · Highest quality complete channel system + easy to install!
- · For corner installations there is no need to mitre cut the channel itself. Simply cut covers longer for easy installation
- · For pool fencing applications, use our 1350mm high 'Clear glaze' glass (See page 60)
  - \*Please take care to refer to relevant standards to ensure our Versatilt system is suitable for your needs as each installation situation/compliance requirement is unique

#### **Face mount**

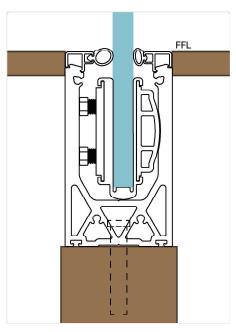
#### NOTE: When installing Versatilt as face mount, use our 1350mm high 'Clear glaze' glass to achieve height required for pool fencing

#### **Deck mount**



NOTE: When installing Versatilt as deck mount, you must contact your local glass supplier for a custom made gate (Not stocked by Glass Outlet)

#### Concealed in deck

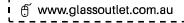


NOTE: Ensure adequate water drainage points!

Not suitable for concrete slab concealing due to potential water retension

# We want to make your job easier.

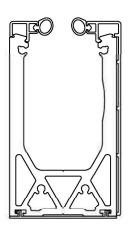
View our trade focused online installation videos for in-depth info on this revolutionary channel system







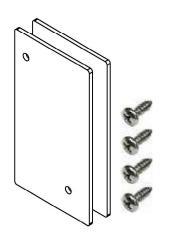
# Versatilt adjustable glazing channel



## Face mount channel kit Mill or brushed satin finish

Order Code: VER-4200-FMK-M VER-4200-FMK-SA

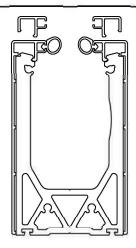
- · Clear anodise aluminium
- 4200mm long channel (6063 T6)
- Mill or brushed satin finish aluminium 4450mm long covers (6463 - T5)
- Pre-machined elongated fixing holes in channel



### Face mount end plates Mill or brushed satin finish

Order Code: VER-2FMEP-M VER-2FMEP-SA

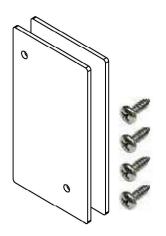
- · 2x machined aluminium end plates (6063 T5)
- Suits face mount channelMill or brushed satin finish
- · 4x SS316 panhead screws



#### Deck mount channel kit Mill or brushed satin finish

Order Code: VER-4200-DMK-M VER-4200-DMK-SA

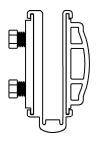
- $\cdot \, \text{Clear anodise aluminium} \\$
- 4200mm long channel (6063 T6)
- · Mill or brushed satin finish aluminium 4450mm long covers (6463 - T5)
- · Pre-machined elongated fixing holes in channel



#### Deck mount end plates Mill or brushed satin finish

Order Code: VER-2DMEP-M VER-2DMEP-SA

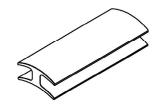
- · 2x machined aluminium end plates (6063 T5)
- · Suits deck mount channel
- · Mill or brushed satin finish
- · 4x SS316 panhead screws



#### Pressure plate kit

Order Code: VER-PPKIT

- · Suits 12mm thick glass
- $\cdot$  Use 4x plate kits per pool panel



#### Top infill

Order Code: VER-0300-TI

- · 300mm long cut as required
- · EPDM black rubber



#### **Alignment pins**

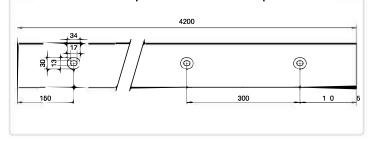
Order Code: VER-PINS

- · SS316 10 pack
- · Use to join inline channels together

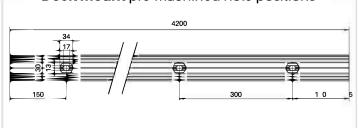


Please consult your engineer regarding suitability and structural integrity of the substrate as this will vary for each installation situation. We are unable to provide technical advice regarding suitability of substrate or fixings.

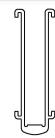
#### Face mount pre-machined hole positions



#### **Deck mount** pre-machined hole positions



Using 15mm thick glass? You'll need these.



#### 15mm U gasket kit

Order Code: VER-15KIT-GAS

- · Pack of 6 gaskets
- Thin U gasket to use with 14.28mm and 15mm thick glass
- Use with VER-PP-KIT: Simply discard standard U gasket



# 15mm glazing rubber kit

Order Code: VER-15KIT-RUB

- · Includes 2x 4450mm (R2 & R14 bulb) rubbers to suit Versatilt covers
- Simply discard standard rubbers supplied with covers