Madrid vertical SS2205

Adantages
- 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

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

NOTE: DRAWINGS ARE NOT TO SCALE
Madrid vertical install tips

Using 1350mm high clear toughened pool fencing panels

Top of Madrid Vertical spigot in line with finished floor level
Top of Madrid Vertical spigot 47mm below finished floor level

47mm vertical adjustability by moving install position of Madrid Vertical spigot

Madrid vertical dimensions and install features

1. **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.

2. **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.

Eccentric bushes can be rotated inside holes to achieve vertical or horizontal adjustment.

**NOTE:** DRAWINGS ARE NOT TO SCALE
Core drill 20mm holes in concrete slab where spigots will be installed. Insert M18x120mm threaded rods into core holes and ensure rods are sitting out from the slab 23mm (or as required subject to diagram above). Chemically anchor rods into place.

1.5mm deviation
Rod sits out 24.5mm
1x 1.5mm packer required
(23mm + 1.5mm deviation)

Highest point
Rod sits out 23mm
No packers required

3mm deviation
Rod sits out 26mm
2x 1.5mm packers required
(23mm + 3mm deviation)

*Use most protruding point of concrete slab and pack out as required

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.

1. Core drill 20mm holes in concrete slab where spigots will be installed. Insert M18x120mm threaded rods into core holes and ensure rods are sitting out from the slab 23mm (or as required subject to diagram above). Chemically anchor rods into place.

2. 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)

4. 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.

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**Installation example**

1. **1.5mm deviation**
   - Lag screws sit out 24.5mm
   - 1x 1.5mm packer required
   - (23mm + 1.5mm deviation)

2. **Highest point**
   - Lag screws sit out 23mm
   - No packers required

3. **3mm deviation**
   - Lag screws sit out 26mm
   - 2x 1.5mm packers required
   - (23mm + 3mm deviation)

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**NOTE:** Drawings are not to scale

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1. 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).

2. 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)

4. 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

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**Alternative install method**

Perfect for beam or joist installation situations

Contact us for full install guide
Madrid deluxe top fix SS2205

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
- 120mm 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)

5mm height adjustment packer
Order Code: MADDEL-TFPKR-P (Polish) MADDEL-TFPKR-S (Satin)
- SS2205 in polish or satin finish
- Sits under top fix spigot, Packers can be stacked on top of each other

115mm lag screw
M12 thread - SS304
Order Code: GS115LAG

160mm lag screw
M12 thread - SS304
Order Code: GS160LAG

120mm threaded rod
M12 thread - SS304
Order Code: GS120ROD

1000mm threaded rod
M12 thread - SS304
Order Code: GS1000ROD

NOTE: DRAWINGS ARE NOT TO SCALE
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.

*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.

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

**IMPORTANT!**
Fixing nut suits 8mm hex drive or 14mm socket

**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

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<thead>
<tr>
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<td>Use 1x 5mm stainless packer and adjust glass with packers in mouth of spigot.</td>
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<td>20.1mm - 25mm</td>
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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.

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.

10mm variance
- Lag screw sits out 54mm
- Use 2x 5mm height adjustment packers
  (44mm + 10mm deviation)

Highest point
- Lag screw sits out 44mm
* Use most protruding point of timber and pack out as required

4mm variance
- Lag screw sits out 44mm
- 4mm deviation adjusted in mouth of spigot

**IMPORTANT: Fixing nut suits 8mm hex drive or 14mm socket**

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**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.

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1. 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

**Important!**

Fixing nut suits 8mm hex drive or 14mm socket

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