FENCES GALORE & Glass
Established 1997

FULLY FRAMELESS GLASS

INSTALLATION

GUIDE

SITE MEASURE

Planning is the first step of any successful project. We stock a large range of sizes to allow for varying site requirements. Simply decide where you would like your pool fence to be located.

Below are some great tips on measuring:

- The recommended distance from the edge of the pool is 1300mm or more – For fences closer than this 'earthing' must be considered. We stock composite (nonconductive) spigots and spigot covers which can avoid having to earth spigots if required.
- Watch out for underground cables & pipes when core drilling
- Aim to use as many of the same sized panels as possible in order to create that designer look – However this can vary from job to job
- Use a steel tape measure to ensure correct measurements are taken
- If you are fixing to pavers, you need to form a concrete footing underneath & re-cement paver onto concrete footing

MOVING & STORING GLASS

Glass panels must never touch, lie against or rest on concrete, tiles or any hard surface. If moving your glass panels, always ensure they sit on rubber, timber or preferably both. Although your glass is safety toughened, if treated incorrectly the panels will shatter into small granules
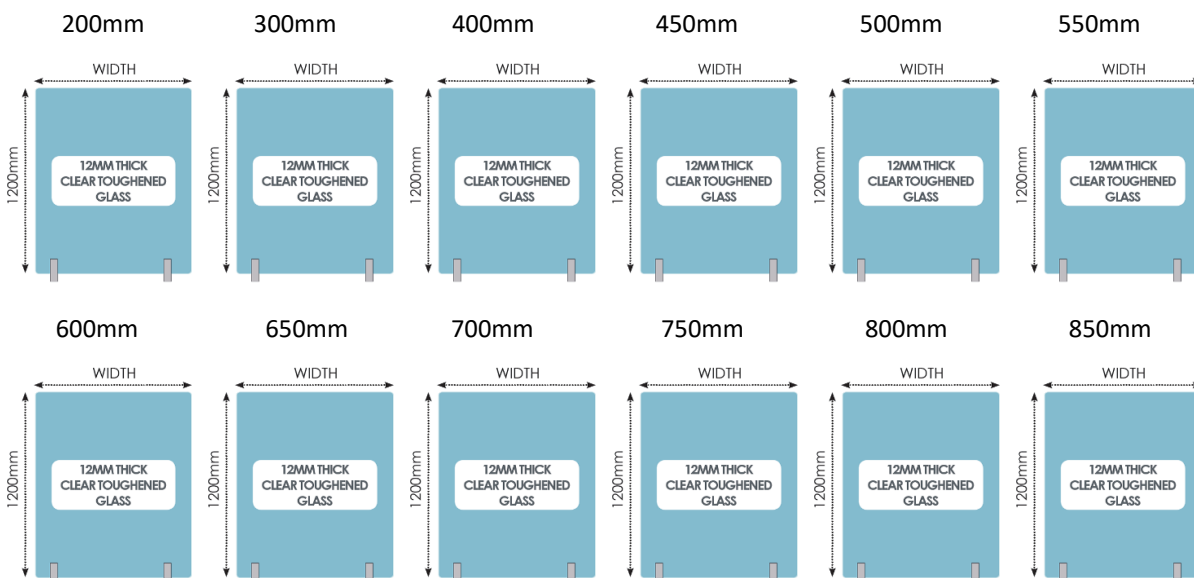
GLASS PANEL DIMENSIONS

Our glass panels are 1200mm in height and are made from 12mm thick Grade 'A' toughened glass. Glass gates are 8mm thick (12mm for Polaris hinges) and are also made from Grade 'A' toughened glass.

For added look and safety, glass panels have 5mm radius safety corners.

The 12mm thick glass panels are available in sizes from 200mm wide x 1200mm high through to 2000mm wide x 1200mm high.
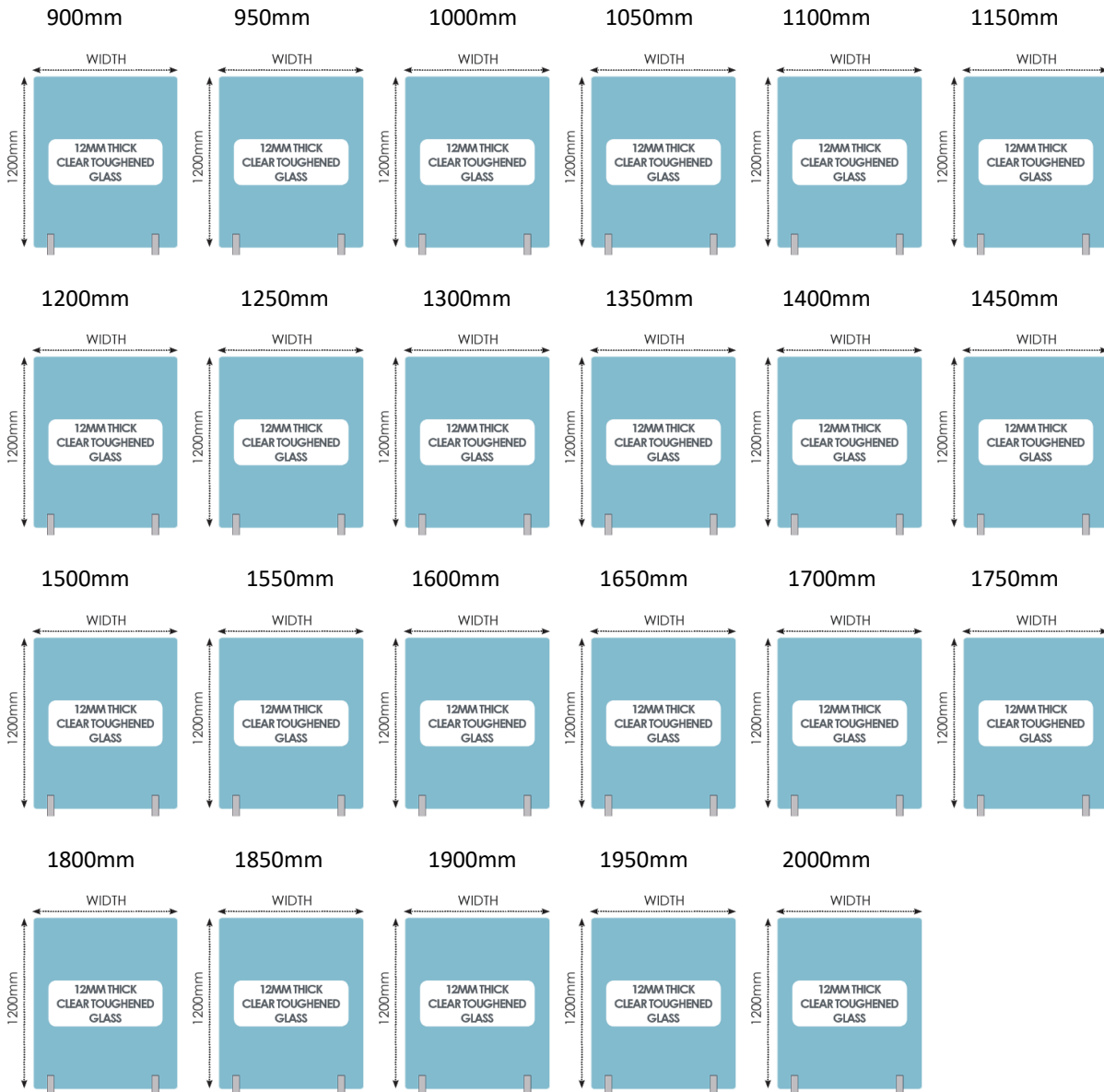
*36kg per lineal metre

IMPORTANT:

When selecting panels do not exceed a 100mm gap between glass panels & existing structures such as posts, pillars or piers. Optimum gap is between 40 & 60mm.
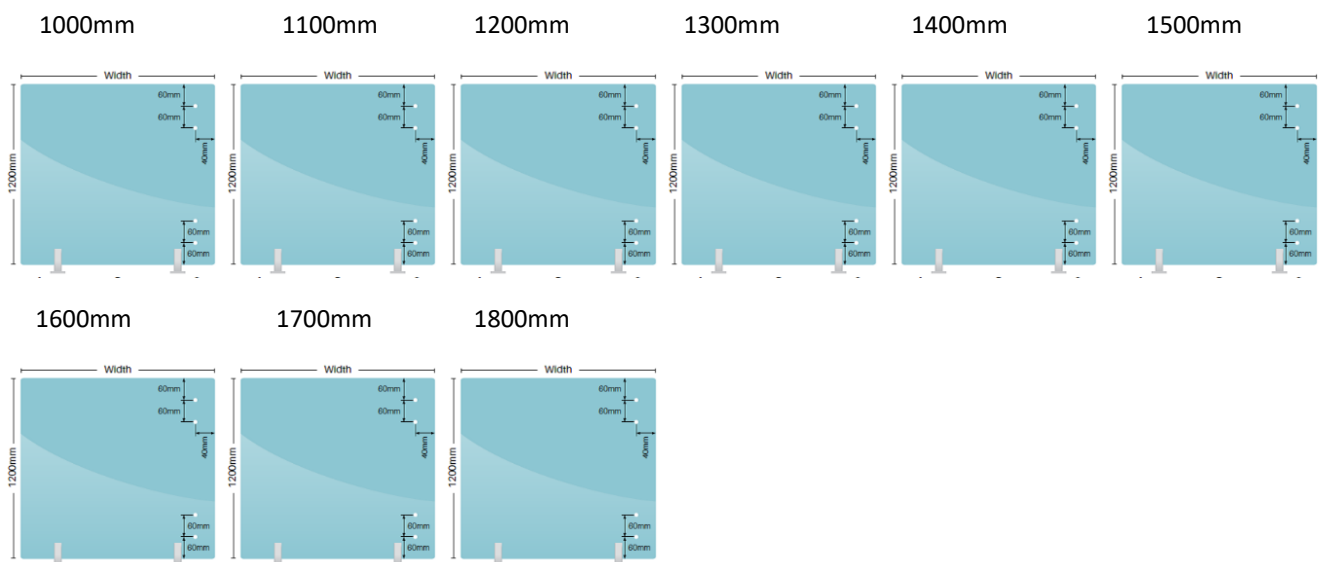
GLASS PANEL DIMENSIONS

900mm	950mm	1000mm	1050mm	1100mm	1150mm

1200mm	1250mm	1300mm	1350mm	1400mm	1450mm

1500mm	1550mm	1600mm	1650mm	1700mm	1750mm

1800mm	1850mm	1900mm	1950mm	2000mm

12MM THICK CLEAR TOUGHENED GLASS — WIDTH — 1200mm

Glass hinge panel sizes

1000mm	1100mm	1200mm	1300mm	1400mm	1500mm

1600mm	1700mm	1800mm

Glass gate panel sizes

Suits standard spring hinges

← 750mm, 834mm or 890mm →
66mm
47mm
209mm
42mm
24mm
1200mm
20mm
47mm
66mm

Suits Polaris soft close hinges

← 800mm or 900mm →
200mm
209mm
42mm
41mm
1200mm
20mm
200mm
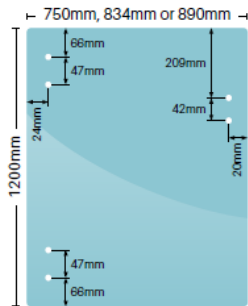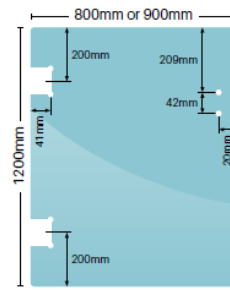
Suits glass to glass installation

← 800mm or 900mm →
200mm
209mm
42mm
61mm
1200mm
20mm
200mm
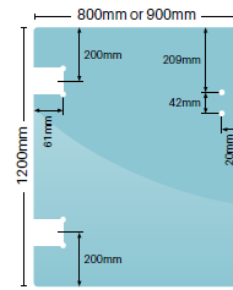
Suits glass to wall/post installation

Glass fence typical gate & panel setup for spring hinges

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

750mm, 834mm or 890mm

Any size panel can be used as a latch panel when using a master range friction latch

Master range hinge panel

Master range gate

Latch panel

1200mm

B + **A** + **C**

10mm gap   9mm gap
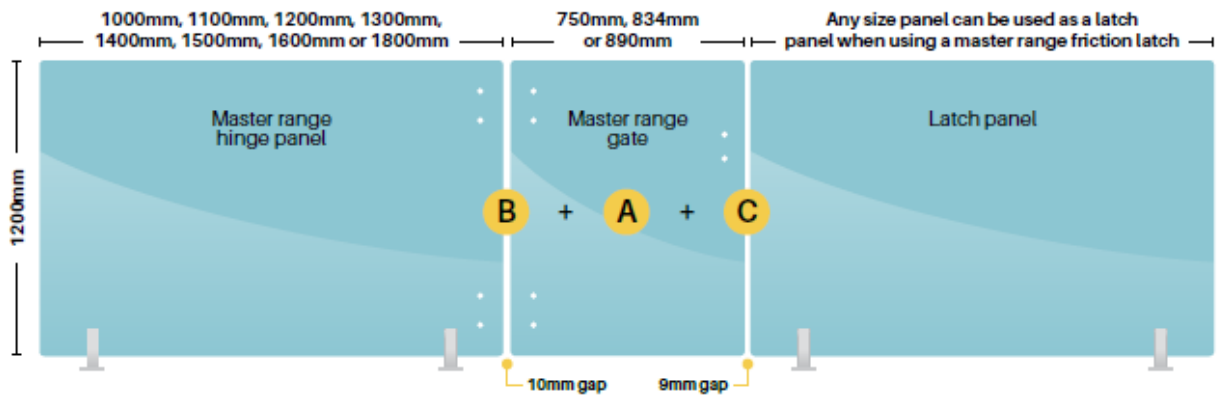
Glass fence typical gate & panel setup for Polaris soft close hinges

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

800mm or 900mm

Any size panel can be used as a latch panel when using a master range friction latch

Polaris hinge panel

Polaris gate

Latch panel

1200mm

B + **A** + **C**

6mm gap   9mm gap
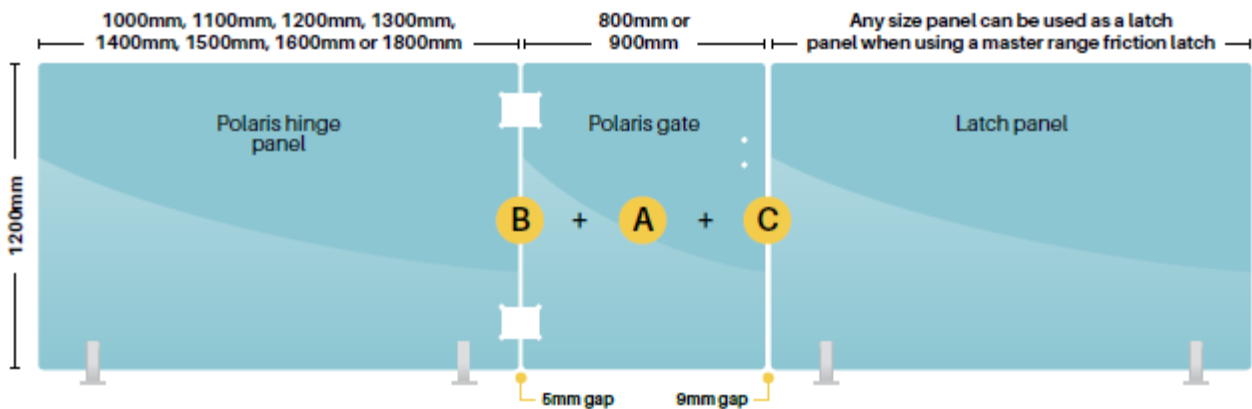
YOUR MATERIALS

For a standard Fully Frameless Glass fence project

you will require

- Glass Panels & Glass Gate
- Spigots & Dress Rings or Domical Covers
- Stainless Steel Hinges
- Stainless Steel Latch
- Grout
- Glass Cleaner & Cloth
- Dyna Bolts (for base plate application

TOOLS REQUIRED

You will require some basic tools in order to

complete your glass fence project installation

- * Steel Tape Measure
- * Chalk Line
- * String Line
- * Core Driller – For Core Drill Spigot Applications
- * Hammer Drill – For Base Plate Applications
- * Bucket for Mixing Grout
- * Allen Key Set, Spirit Level & mats or blankets

Note: For base plate applications on timber substrates, timber screws will be required. It is also stronger recommended for timber decks to be suitably constructed with extra hardwood blocks under decking at each spigot location.

LOCATION

Ring before you begin!
Simply consult your local council before installing a pool fence to ensure compliance with any local by-laws. Council regulations vary from region to region and can help with decisions on distances and heights of fences from neighbours and pavements. Mandatory safety regulations need to be adhered.

FULLY FRAMELESS GLASS INSTALLATION GUIDE

FIXING METHOD: BASE PLATE SPIGOTS

Mark out the centre line of proposed glass fence

with a chalk line. Determine clamp location based on a

sheet size (see recommendation on last page). Use base

plate as a template to mark out the hole positions and

drill holes to suit.

Note: Do not exceed 100mm gaps between glass panels.

Optimum gaps is 40mm to 60mm
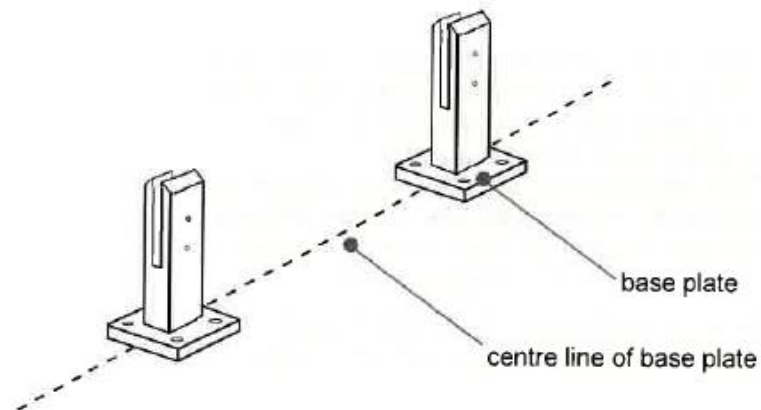
Now the base plated spigots can be fitted to the floor

and plumbed via shims (not supplied) under the base

plates or alternatively use the spigot throat shims (supplied).

Be sure to tighten firmly as the smallest of movement at the

base plate will result in noticeable movement at the top

of the glass fence.

Tip: By setting the two outer spigots of your total span, a

string line can be run in the throat of the spigots, giving correct

height for all spigots in between

Note: Do not exceed 100mm gap from the fixing surface to the

bottom of the glass.
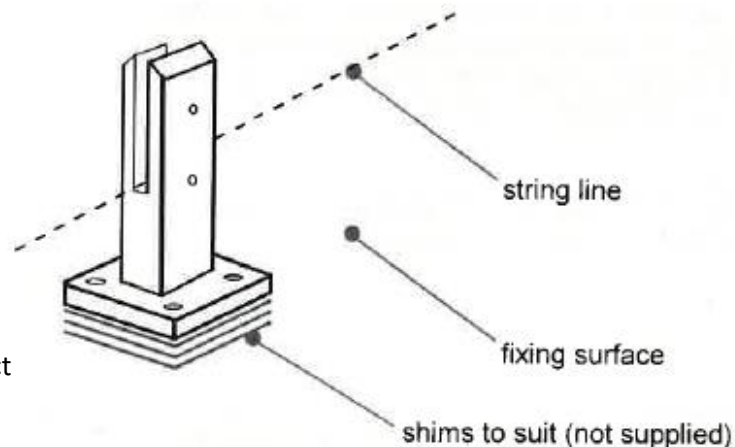
When all spigots are installed, slip domical cover over the top

of the spigot to hide fixings. It will ne necessary to turn the

adjustment screws on the spigot face all the way in to allow cover

to pass over.
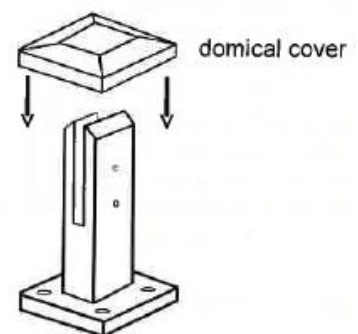
**Note**: Same installation method applies to round base plate spigots

The glass is then installed to the spigots. Place plastic packers between glass and spigot on sides and underneath, at no stage should glass touch the metal.

How friction adjustability works;

1. Place glass in spigot
2. Fix/tension glass from grub screw side with allen key. Plastic packers can be added or removed to adjust the glass laterally and also, for tilt adjustment.


plastic packer
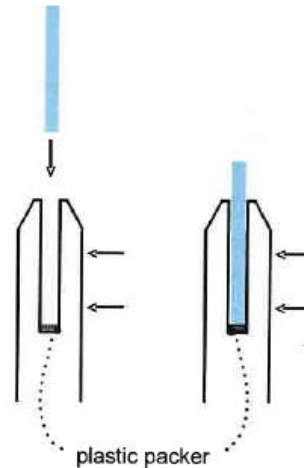
FIXING METHOD: CORE DRILL SPIGOTS

Mark out the centre line of proposed glass fence with a chalk line.

Determine spigot location based on a sheet size (see recommendation on last page).

Once spigot positions are marked, core drill a 76mm or 83mm diameter hole at 110mm deep. **Ensure no wiring or underground pipe will be effected**. Remove the core and clean the hole of any excess water & concrete which may obstruct spigot.
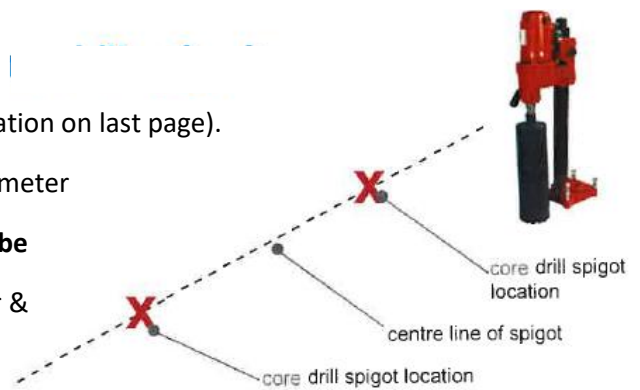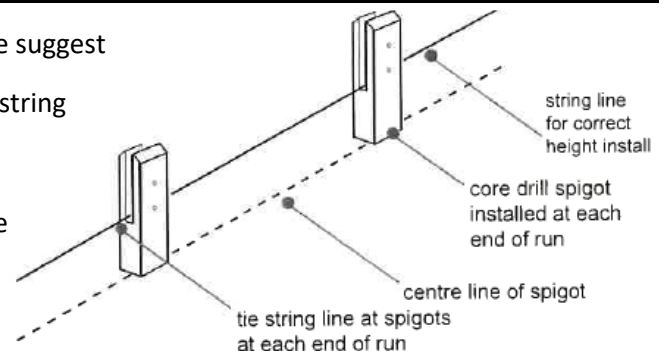
Note; Do not exceed 100mm gaps between glass panels. Optimum

Gap is 40mm – 60mm

core drill spigot location

centre line of spigot

core drill spigot location

Check level of floor to determine the height of each spigot. We suggest Installing a spigot at each end of a straight run and then use a string line to set the spigot heights in between.

Note: Do not exceed 100mm gap from the fixing surface to the bottom of the glass.

string line for correct height install

core drill spigot installed at each end of run

centre line of spigot

tie string line at spigots at each end of run

The following procedure is done one hole at a time.

Mix the spigot grout in a small container (refer to manufacturers specifications), enough to fill ¾ of the hole. Position spigot in holes and hold in place using a small timber wedge until firm (approx. 15 mins). While grout is wet, clean any excess with a wet sponge.

When removing the timber wedges top up the core holes with Grout. It is important to position to minimise glass adjustment.

Predetermined height

Spigot

Threaded rod supplied

5mm allowance for bracket bearing

level

Spigot

timber wedges

fill core with 3/4 spigot grout
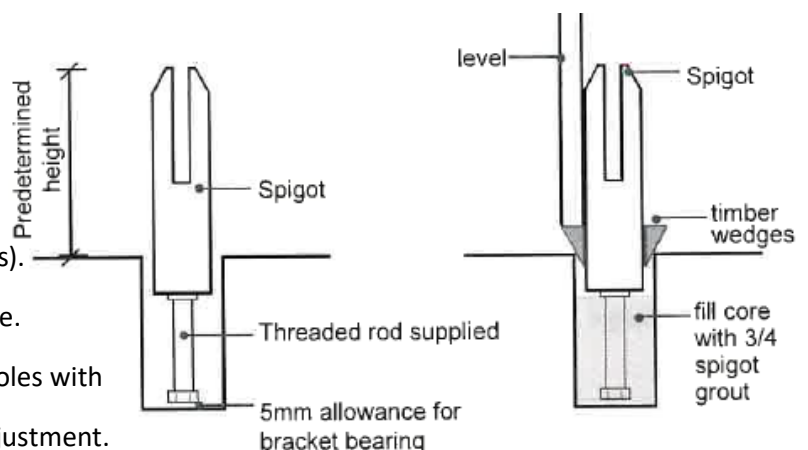
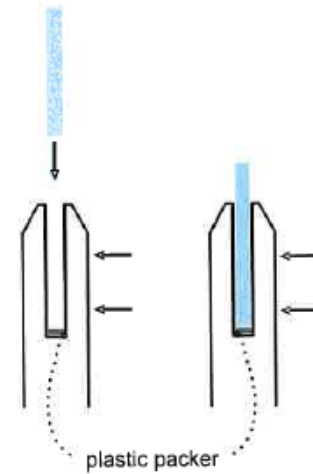When all spigots are installed slip dress ring over clamp. It will be necessary to turn the adjustment screws on the spigot face all the way in to allow the dress ring to pass over. Place plastic packers between glass and spigot on sides and underneath, at no stage should glass touch the metal. The glass is then installed to the spigots.

How friction adjustability works;

3. Place glass in spigot
4. Fix/tension glass from grub screw side with allen key. Plastic

packers can be added or removed to adjust glass laterally and also for tilt adjustment.

plastic packer

GATE LAYOUTS

Glass To Glass Application

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

750mm, 834mm or 890mm

Any size panel can be used as a latch panel when using a master range friction latch

Master range hinge panel

Master range gate

Latch panel

1200mm

B + A + C

10mm gap   9mm gap
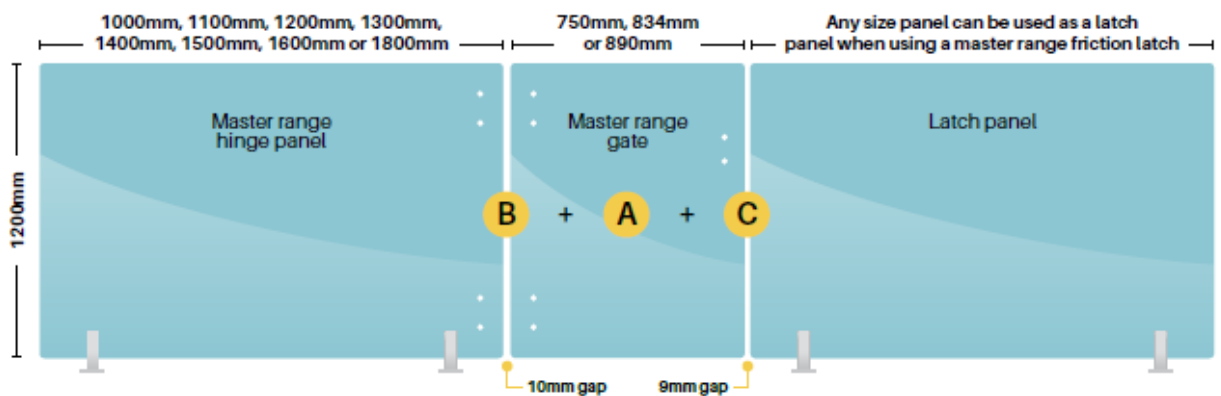
Glass To Wall Application

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

750mm, 834mm or 890mm

Master range hinge panel

Master range gate

Wall/post

1200mm

B + A + C

10mm gap   9mm gap
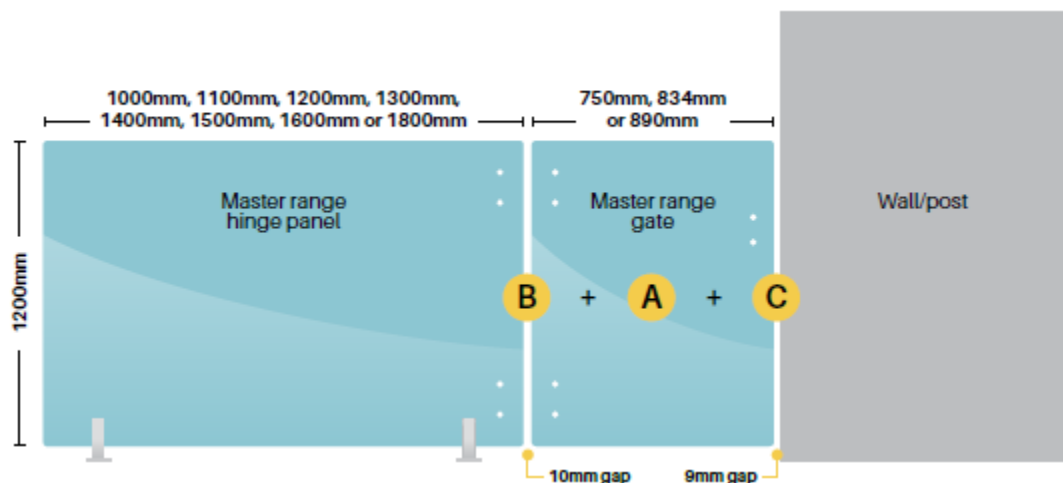
Wall To Glass Latch Application

Wall/post

750mm, 834mm or 890mm

Master range gate

Any size panel can be used as a latch panel when using a master range friction latch

Latch panel

1200mm

B + A + C

22mm gap   9mm gap
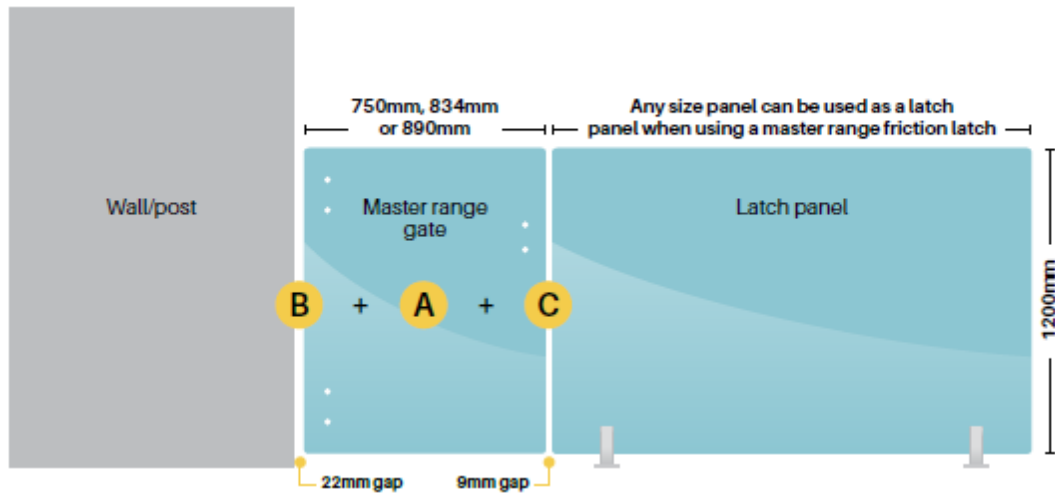
Glass To 90° External Corner Application

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

Master range hinge panel

10mm gap   9mm gap

750mm, 834mm or 890mm

Master range gate

Any size panel can be used as a latch panel when using a master range friction latch

B + A + C

12mm latch panel

Master range gate

9mm gap

Gate swing direction

Look!

Specially designed hook plate ensures latch cannot detach if return panel moves sideways.

IMPORTANT:

Gate must hinge away from pool

Glass To 90° Internal Corner Application

1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm or 1800mm

Master range hinge panel

10mm gap   9mm gap

750mm, 834mm or 890mm

Master range gate

B + A + C

Any size panel can be used as a latch panel when using a master range friction latch

Important!

Offset gate requirement

Master range gate

17mm offset

12mm latch panel

Gate swing direction

9mm gap

Look!

Specially designed internal catch ensures latch cannot detach if return panel moves sideways.

Hinge Tension Guide

hinge + 70mm tensioning tool + adjustment holes 15mm stop

1) With 70mm tension tool, remove the 15mm stop, located in adjustment holes and bolt hinge to the hinge panel & gate
2) Install the latch hardware
3) Using the 70mm tension tool re-apply tension to spring as required & apply '15mm stop' to adjustment holes

IMPORTANT:

Gate must self-close from all opened positions to a latched position.

FINISHING TOUCHES

Just a few more things to finish off your new fully frameless glass fence.

- Wipe down the glass panels & spigots with some soapy water to ensure they are clean from any dirt or residue
- Remove any access dirt, tools & enjoy your pool safely with your new glass fence.

TIPS! - FOR GLASS HANDLING & INSTALLATION

Glass handling should be done with the utmost care and attention. Guidelines recommended include employing several checks prior to undertaking any activity:

- Ensure that there is enough room to manoeuvre the glass
- Check the weight prior to lifting, if too heavy, call for assistance or use other means
- Use safe lifting posture
- When lifting glass, it should be kept upright and movement smooth to avoid undue flexing

Recommended personal protective equipment used when undertaking activities with glass include:

- Suitable gloves (non-slip)
- Steel capped boots are always a good idea
- Safety glasses
- Suction cups and lifting devices (if large pieces of glass moved)
- Clothing should be tight fitting so that no loose items can catch the glass causing trips and falls

Glass should be stored in dry conditions on its edge and should not come in contact with any substance harder that itself. Also, glass should be stored having an inclination of 3 degrees for static racks and 5-6 degrees for transportation racks and trolleys and it both cases supported evenly over its surface in the recommended upright position incline. Do not put glass bottom edges directly on the ground when storing upright – always pit suitable timber/hard rubber blocks under the bottom edge to avoid chipping edges.

Suggested spigot placement
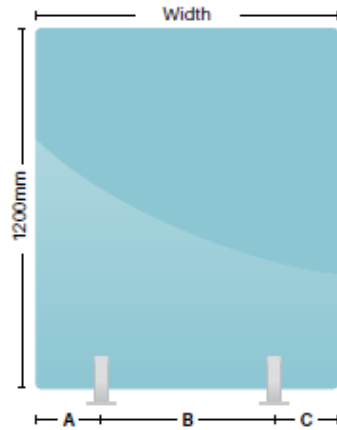
Overall Width	A*	B*	C*
200mm	50mm	100mm	50mm
300mm	100mm	100mm	100mm
400mm	100mm	200mm	100mm
450mm	100mm	250mm	100mm
500mm	100mm	300mm	100mm
550mm	100mm	350mm	100mm
600mm	100mm	400mm	100mm
650mm	100mm	450mm	100mm
700mm	100mm	500mm	100mm
750mm	150mm	450mm	150mm
800mm	150mm	500mm	150mm
900mm	150mm	600mm	150mm
950mm	150mm	650mm	150mm
1000mm	150mm	700mm	150mm
1050mm	150mm	750mm	150mm
1100mm	200mm	700mm	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

*To centre of spigot