

FRAMELESS GLASS FENCING SYSTEMS PTY LTD

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Semi Frameless Systems – Specifications & Installation

2 way and 3 way post - 54 mm diameter x 4 mm thick structural grade aluminium. Our unique post system has been developed over more than 10 years of research and development and the evaluation of many other similar types of systems. Many other systems which were originally designed to have a top rail, do not meet many of the specifications required even in a 1000 mm high semi frameless fence and they are simply not designed to meet some of the applications that they are being used for.

Our system has been designed to be up to 60% stronger than many of these glazing posts and incorporate many features that other posts simply do not have.

Features

54 mm diameter offers much more strength than 50 mm diameter 4 mm wall allows the post to be even more rigid and provides that extra strength needed for 1200 mm high fences pool fences. Double internal supports allows the post to be bolted through with M8 bolts without weakening the post. Glazing rebates 19 mm deep allow for maximum engagement of the glass, particularly important when used on timber structures or when angling or sloping the glass.

When used with reasonable sized gates the same size 2 - way or 3- way posts can be used as the gate posts.

Posts are available in Mill Finish, Powder coated or in our most popular finish of polished anodised silver which has an average coating of 22 microns and is suitable for most environments.

General Installation

Posts can be fixed by a number of different methods including setting into an individual or strip footing. Into a core drilled hole or bolted into place, the main thing is to ensure is that the structure is suitable and strong enough to support the complete installed fence without any excess movement and able to stand the test of time.

Once the posts are all installed, measure between the posts, preferably at the bottom and add 13 mm for glass engagement for each end, (26 mm in total).

Assuming the tops of the posts are level within 6mm, measure from the top of the post to the ground around the post and deduct the height of the glass plus 15 mm. Cut a piece of infill and slide it into the post, repeat for all posts receiving glass, also fit a full length of infill in unused glazing rebates.

Install cover plate now (optional) and set the 5 mm packing block on top of the infill, then slide the glass in from the top. Install all of the glass (depending on the prevailing weather conditions such as wind strength etc) then start at the shortest post and level all the glass by sliding small packers (1, 2, 3 mm etc) under the glass until all panels are level. Cut the appropriate sized rubber a little longer than the height of the glass and wet the glass at the post using glass cleaner or soapy water (this allows the rubber to slide into the post easier) and starting at the bottom push the rubber into the gap making sure the small side goes in first and that it clips into place (it is much easier to install with 1 person doing each side together, otherwise you will need strong fingers or a blunt tool, NO scratches).

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Once everything is secured, trim off the excess rubber sticking out the top of the posts and fit the caps using a dab of silicon or similar. Due to the design of our caps any slight variation in the post heights will be hidden under the cap and the finish will look perfect!

We recommend grouting around the base of the posts even when a cover plate is used to eliminate moisture sitting in the void around the post. Clean the glass without washing the grout out of your holes and the job is complete.

Post Spacings

Post spacings depend on wind loading

Standard backyard is normally 0.6 kpa - calculations based on 1.0 kpa
Toughened glass with polished edges

Panel length recommendations for pool fencing are approximate only and should be calculated using local Codes and wind load calculations or by contacting a local engineer.

6 mm glass - usable but not recommended

8 mm glass - usable but not recommended

10 mm glass - 1700 panels

Higher wind area panel lengths - extreme conditions should be calculated by an engineer.

10mm glass - 1400mm

The exact length of panels should be calculated using AS1288- 2006 and supplement 1.

Powder coated products should be chromate converted and a long life powder coated used.

Anodised finish should be as close to 25 micron as possible with an average of 22 microns to provide maximum protection.

The information provided in this information sheet is designed as a guide only and Frameless Glass Fencing Systems Pty Ltd cannot be held responsible for any error on these pages, any calculations referred to here should be confirmed by referring to your relevant local building glass code and/or engineer. Also allowing for the individual site, structure and situation of the installation.