

The Richard Burbidge FUSION® Juliette Balcony System comprises a combination of timber and aluminium rails, glass infill panels and brackets designed for use on surfaces that are flush and level around the window/door opening.

Please read all instructions carefully before commencing your installation.

Richard Burbidge FUSION® Juliette Balconies have been independently tested by FIRA and when installed with these instructions conform to Building Regulations requirements of 0.74kN/m strength loadings.

Only genuine Richard Burbidge™ FUSION® Juliette Balcony system components are tested for conformity to Building Regulations.

Richard Burbidge FUSION® Juliette Balconies are designed for use on standard openings between 600 to 2010mm. However, using a single small Glass Panel it is possible to achieve a minimum opening is 250mm.

If the opening width requirement falls outside the range of standard configurations specified in **Figs.4, 5 & 6** we recommend the next width of balcony up is used and the increased projection of the wider balcony unit shared each side of the opening.

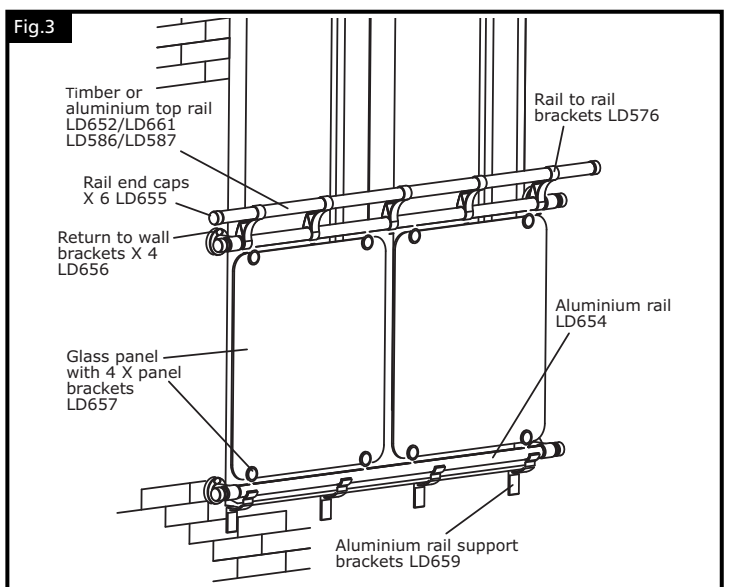
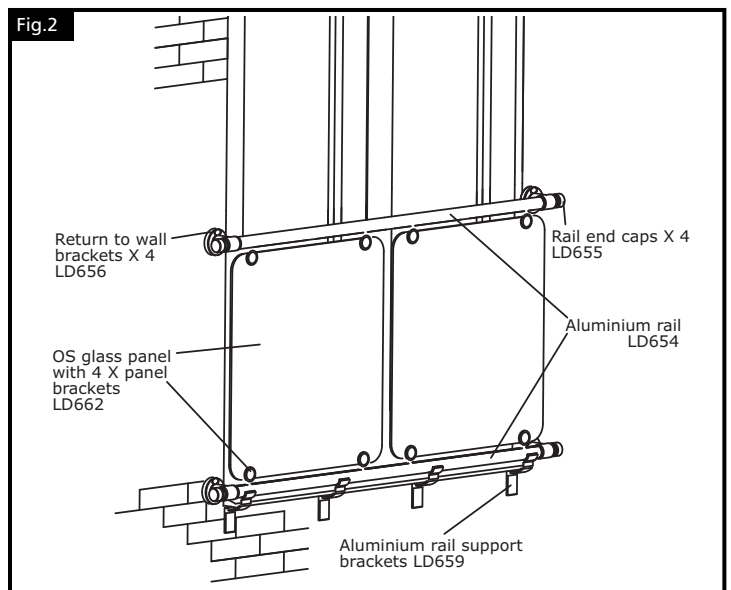
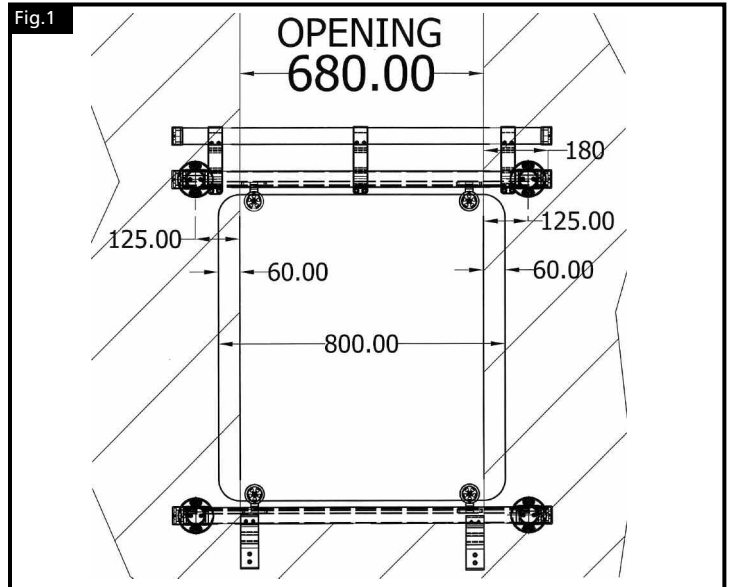
Fig.1 illustrates a typical Richard Burbidge FUSION® Juliette Balcony application. In this example the opening is 680mm with the Glass Panel installed so that it overlaps the edge of the opening by 60mm on each side. **Figs.4, 5 & 6** illustrate configurations with 60mm overlaps.

The Rails extend the opening by 180mm each side and the Return-to-Wall Connector is fixed at approximately 125mm to the centre of the connector from the edge of the opening.

Note – Care should be taken when handling and assembling pre-finished components to avoid damaging the finish.

All components and finishes are carefully checked prior to leaving the factory and are designed to withstand most types of normal use, however it is possible to damage these with sharp tools.

Please check all components carefully prior to installation for any damage to the surface, as Richard Burbidge cannot be held responsible for any damage once the installation has commenced.



The LD652 x 2400mm and LD661 x 1200mm timber rails are manufactured from Sapele. Although moderately durable, any untreated timber components exposed to the natural elements should be protected from the weather to make them more resistant to picking up moisture.

To enhance and protect the Hardwood handrails you must apply either a proprietary clear water repellent, exterior grade varnish or semi-transparent stain before installation and apply further coats at regular intervals following the manufacturers recommendations.

This system has been designed for use with sills that have a maximum projection from the wall of 65mm.

Figs.2 & 3 illustrate a typical 1500mm opening using Richard Burbidge FUSION® Juliette Balconies. Both units in **Figs.2 & 3** have a total height of 1100mm from the bottom rail to the top rail. **Fig.3** illustrates the unit with a double top rail with the additional top rail available in either timber or aluminium.

Figs.4, 5 & 6 detail the configurations achievable with minimum and maximum spans. Minimum and maximum openings are based on a minimum 20mm and maximum 90mm gap between Glass Panels.

Glass Panels are available in 2 heights. LD657 @ 800mm width x 850mm height x 8mm thickness and LD658 @ 350mm width x 850mm height x 8mm thickness for use with double top rail options and LD662 @ 800mm width x 970mm height x 8mm thickness and LD663 @ 350mm width x 970mm height x 8mm thickness.

Installation of Aluminium Support Brackets LD659

To install LD659 Aluminium Support Brackets to wall use stainless steel 8mm anchor bolts x 90mm length minimum. Position the 2 outer brackets so they are flush with the edge of the opening and so that the bottom of the rounded cup part of the bracket is level with the top of the sill (**Fig.7**).

Place a length of rail along and on top of these 2 outer brackets to ensure they are level and then space the appropriate number of brackets equally between these 2 x outer brackets (See **Figs.4, 5 & 6** for the appropriate number of brackets dependent on the chosen configuration). Mark through the fixing holes in the brackets to the wall, drill and secure with anchor bolts (**Fig.8**)

Cut Rails to Length

Measure the width of the opening and add 360mm to this measurement, which allows an equal 180mm rail projection past each side of the opening (**Fig.9**). Cut the appropriate number of rails to length. This will be 2 x Aluminium Rails if using option 1 (**Fig.2**) or 3 x Aluminium Rails (with the top aluminium rail being solid) or 2 x Aluminium Rails and 1 x Timber Rail if using option 2 (**Fig.3**).

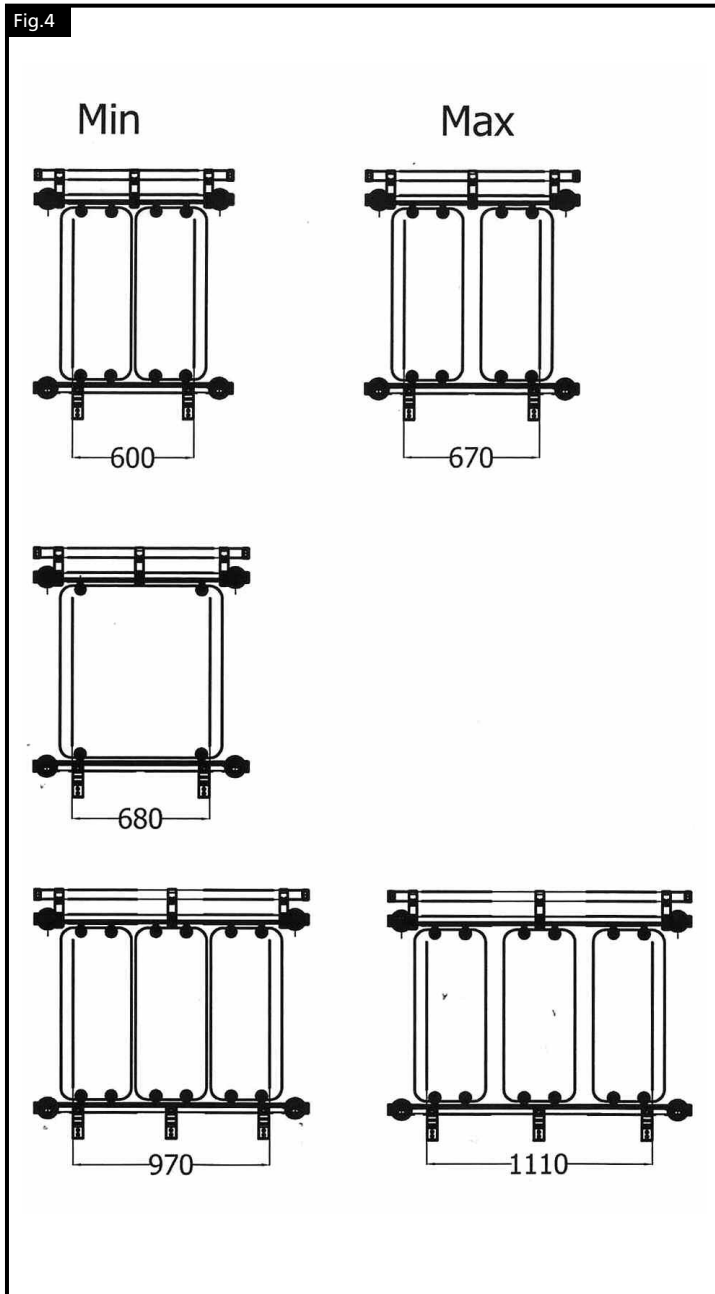


Fig.5

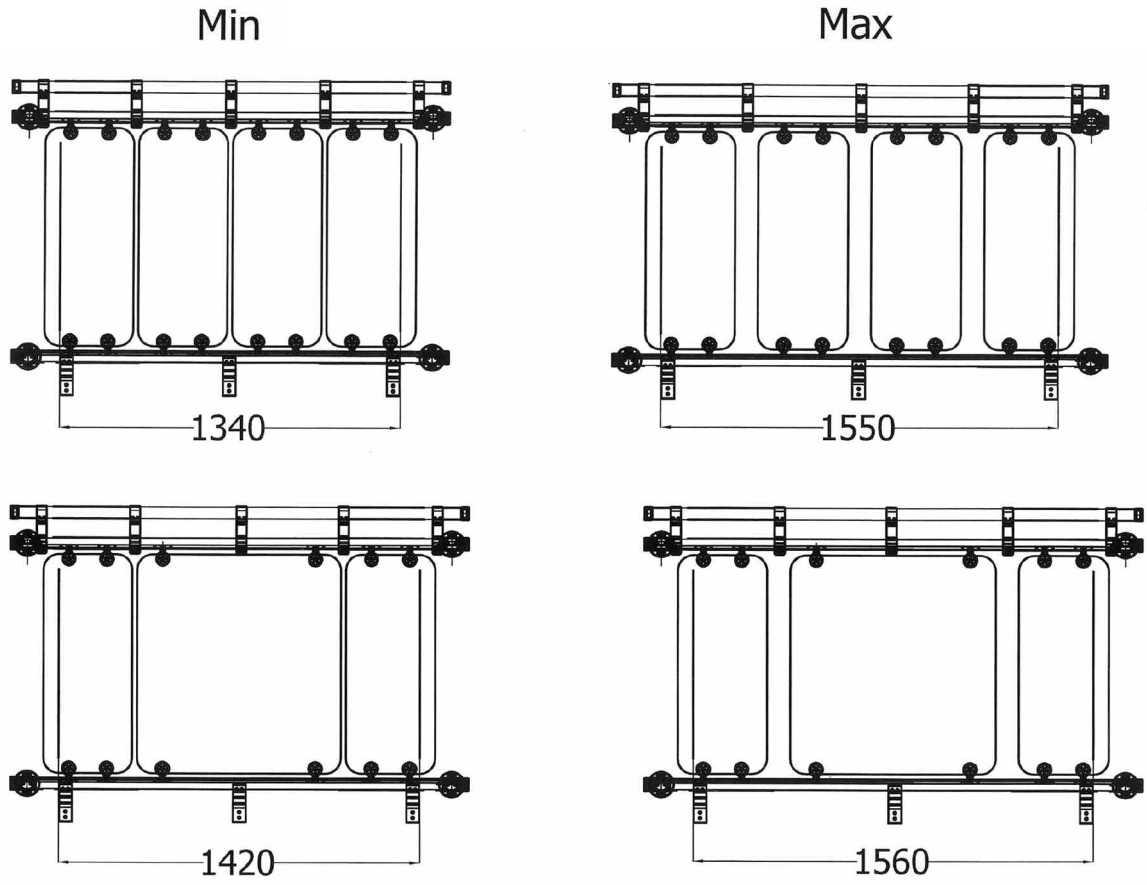
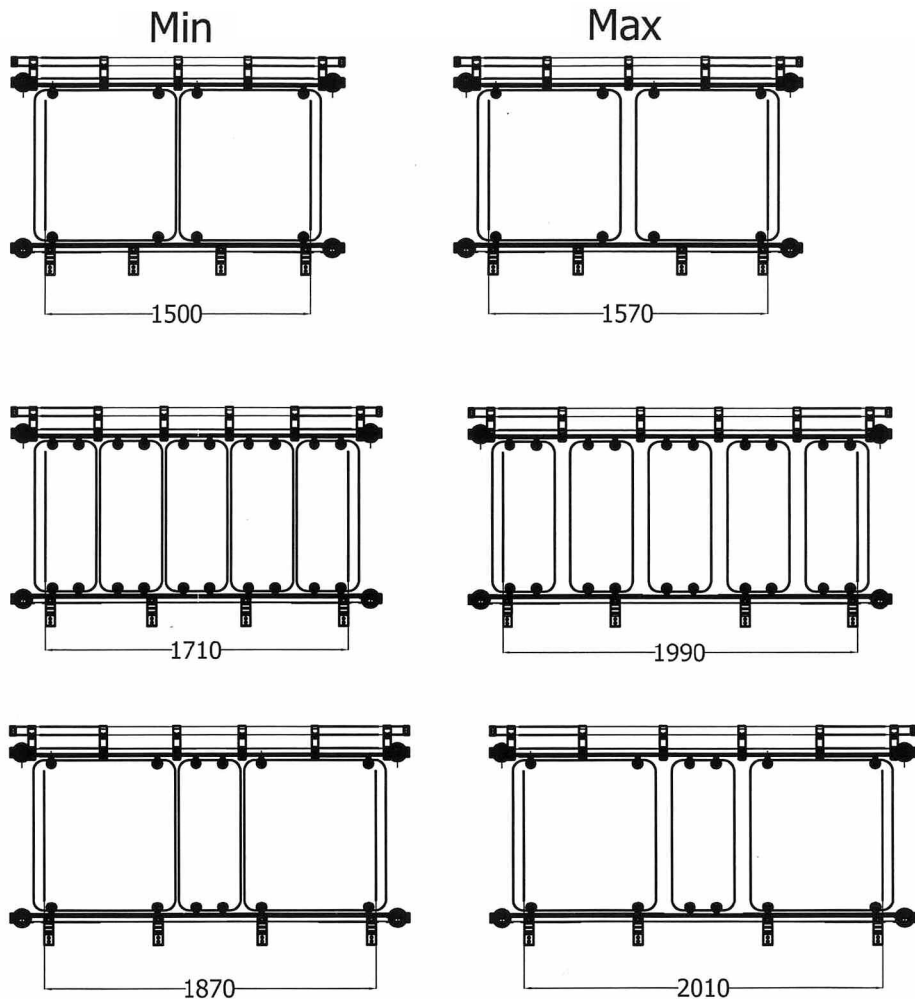


Fig.6



Note – If you have a non-standard opening then you will need to check the additional overlap prior to cutting the rails e.g. adding more than 360mm.

Inserting Panel Brackets and Rail-to-Rail Brackets

For double top rail configurations (**Fig.3**) insert panel brackets and rail-to-rail brackets in the correct sequence (**Figs.4, 5 & 6** Configurations Diagrams). For the aluminium bottom rail you need to insert panel brackets only (**Fig.10**).

Note - If installing option 1 type balcony, the rail to rail brackets (LD660) are not required

Please ensure that the Richard Burbidge dovetail logo on all panel brackets face in the same direction to the rail-to-rail brackets (**Fig.11**).

Positioning Panel Brackets

Position the edge of Glass Panels 120mm in from ends of the aluminium rails. Move the panel brackets so they line up with the pre-drilled holes in the glass panels. Mark the position of all panel brackets to the rails. (**Fig.12**).

Remove the Glass Panels and pilot drill and fix panel brackets into position using the stainless steel No8 x 19mm self-tapping screws supplied.

If installing more than 2 x Glass Panels fix the outside panels as described and equally space the panels in between.

Installing Glass Panels

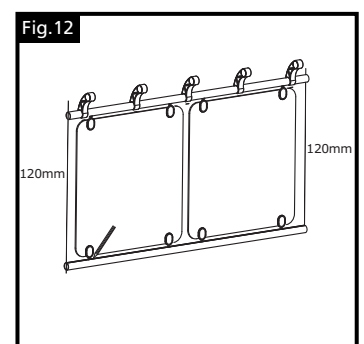
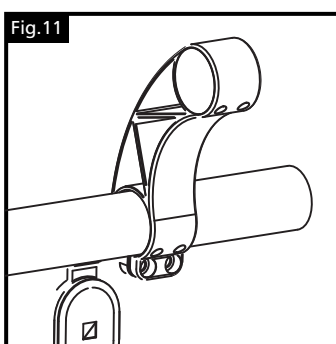
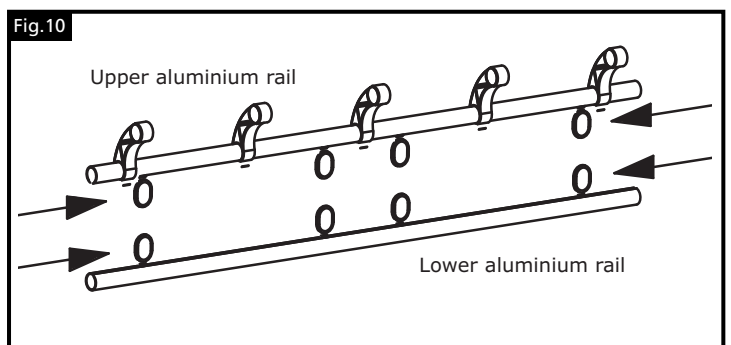
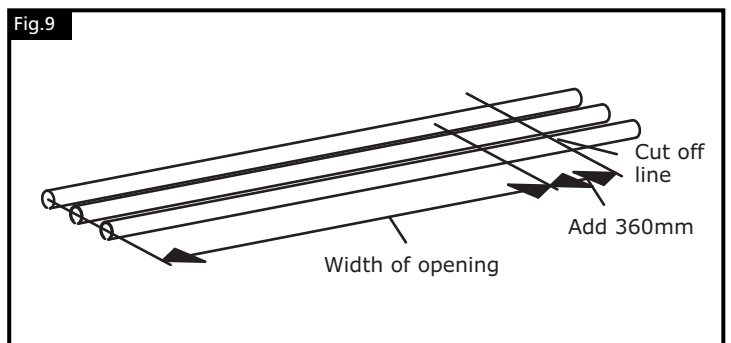
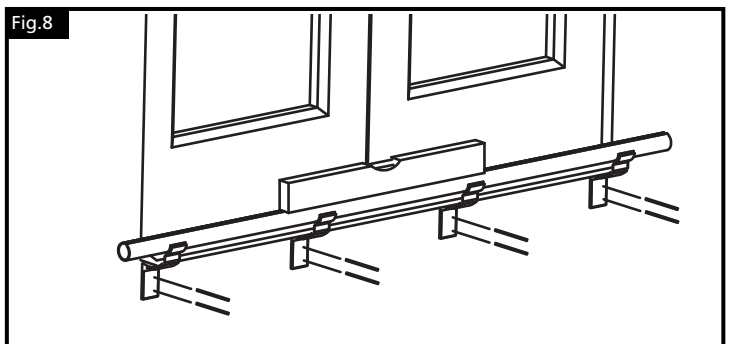
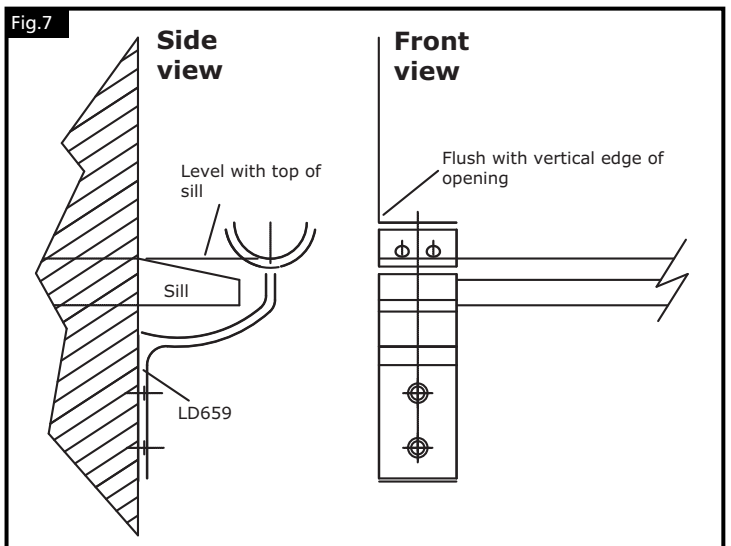
Fix the rubber strips and washers onto all panel brackets. Reposition the Glass Panels onto the panel brackets (PT1) and fix the panel bracket (PT2) using the stainless steel M6 x 10mm countersunk socket head screw first and the M4 x 10mm cap head screw last (**Fig.13**).

Installing Return to Wall Brackets & End Caps to Aluminium rails

Slide the LD656 Return to Wall Brackets onto the ends of the aluminium rails so they are pointing in the opposite direction to the rail-to-rail brackets (**Fig.14**). Slide the End Caps onto the ends of the rail.

Fix the End Caps into position by pilot drilling and securing with the stainless steel No8 x 19mm self-tapping screws supplied. Apply the decorative badge to end caps (**Fig.14**).

Move the return to wall brackets so they butt up to the fixed end caps then lay the whole assembly onto a flat floor and align the back of the return to wall brackets to each other. Pilot drill and fix to the aluminium rail with the stainless steel No8 x 19mm self-tapping screws supplied (**Fig.15**).



Installing Timber & Aluminium Top Rail (Double Top Rail as Fig.2)

Position the rail-to-rail brackets as illustrated in the configuration diagrams (Fig.3). Slide the timber or aluminium rail, LD652 and LD661 Timber Rails or LD586 and LD587 Aluminium Top Rails through the rail-to-rail brackets so the ends of the rails are aligned with the previously fixed aluminium rail ends (Fig.16).

Check that all brackets are aligned correctly and pilot drill through the rail-to-rail brackets and fix to the aluminium rail with the stainless steel No8 x 19mm self-tapping screws supplied

(1). Insert and tighten 2 x M10 socket cap bolts in the bottom of rail-to-rail connectors

(2). Pilot drill through the top holes of the rail-to-rail brackets into either the timber rail and secure with the stainless steel No8 x 32mm self-tapping screws supplied or with the stainless steel No8 x 19mm self-tapping screws supplied if using an aluminium top rail

(3). Slide the End Caps onto each end of the timber or aluminium rail and fix with the stainless steel No8 x 19mm self-tapping screws supplied (Fig.17).

Securing The Juliette Balcony Assembly To The Wall

Locate the assembly onto the previously fixed rail support brackets and position so that the projection is equal on both sides of the opening.

This will be approximately 125mm from the edge of the opening to the hole centres of the LD656 Return To Wall Bracket (Fig.18).

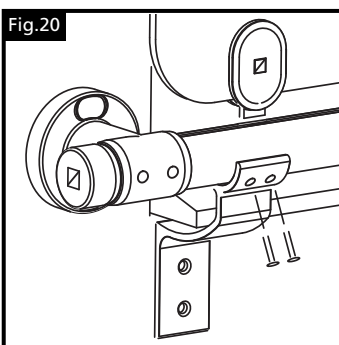
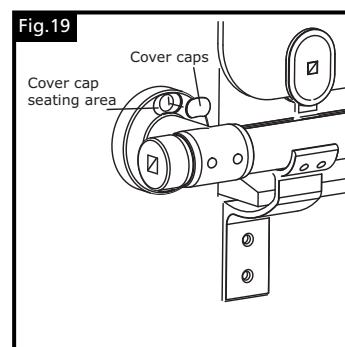
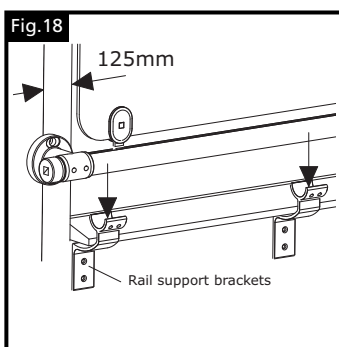
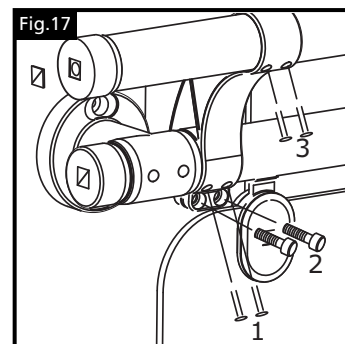
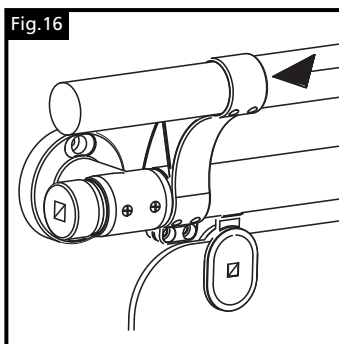
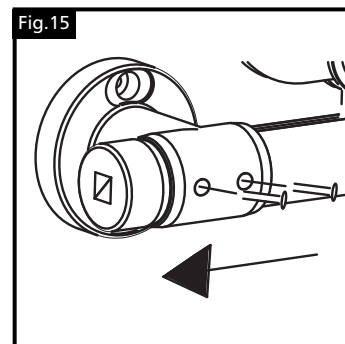
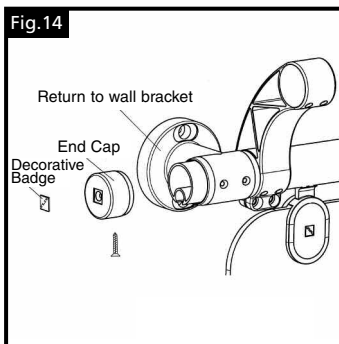
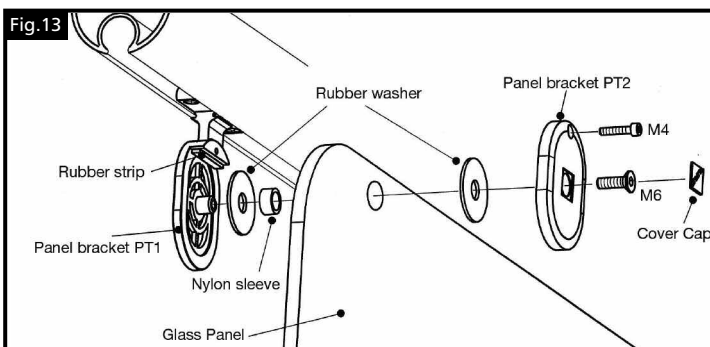
Mark through all holes in return to wall brackets, drill and fix using 6mm x 90mm anchor bolts (not supplied) making sure that the bolt does not protrude past the seating area for the cover cap. Gently knock in cover caps using a rubber mallet (Fig.19).

Fixing to Rail Support Brackets

Pilot drill through the holes in the rail support brackets into the aluminium rail and fix with the stainless steel No8 x 19mm self-tapping screws supplied. (Fig.20)

Plastic Infill Strip

Measure the gaps between the Glass Panel Brackets on the aluminium rails. Cut the plastic strips to length and fix so that the plastic strip snaps/locks into the groove of the rails.



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