SWR BALUSTRADE

Modular Balustrade Installation Guide - Upright Posts

Step 1

Place your base plate down onto the surface. Ensure the full plate sits flush with no obstacles between the surface and the bottom of the base plate.

Once in position, mark out the holes using the pre-drilled holes in the base plate. Continue this process for each base plate. **1)**

Step 2

Start to drill the holes once you are happy with their positioning **2)**

ChemFix & Studding Method

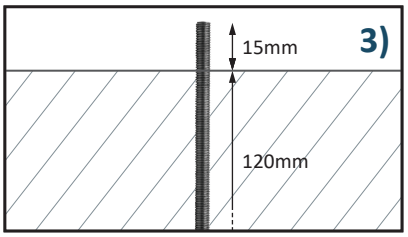
The size of the studding will determine the size of the hole you need to drill. A hole one size up from the studding thickness is required.

e.g. M8 studding requires an M10 hole. An M10 studding requires a M12 hole etc.

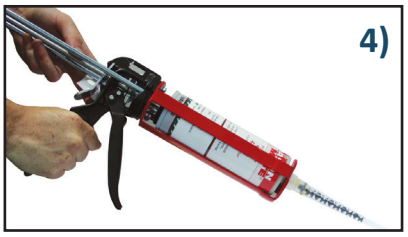
Drill at least 100mm straight down into the surface. Once you have drilled the holes, dispose of any excess debris inside the hole.

Calculate the length of each stud you are fitting into the hill. This is done by taking the distance drilled into the ground plus 15mm. **3)**

e.g. A hole that is 120mm into the ground: 120mm + 15mm = 135mm.

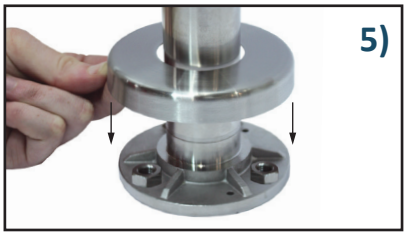


One piece of studding is required per hole drilled. Next, take your ChemFix and slowly apply into each hole. **4)**



PLEASE NOTE: ChemFix sets quickly. Once you have applied it to the first 9-12 holes, twist the studding into each hole. Remove any excess ChemFix before it sets. Repeat this procedure until all holes are filled and leave to set for 60 minutes. Remember to change the Applicator nozzle.

Next, place base plates back over the exposed studding. Then place washers, followed by nuts onto each piece of the studding. Tighten each nut so the base is securely fixed to the surface. Place covers over base plates to cover all exposed fixings. **5)**

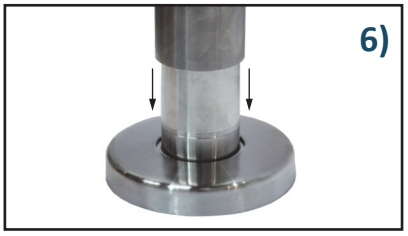


Step 3

Take upright posts and apply contact adhesive to the male fitting exposed from base plate.

PLEASE NOTE: adhesive sets very quickly.

Place all upright posts over the exposed male fittings of the base plates 6)



For more help fitting your balustrade system, please contact our Sales Team..

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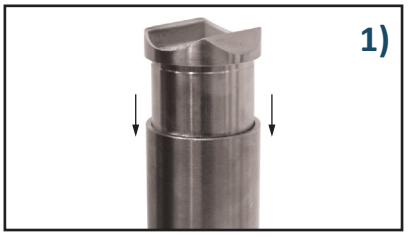
Company Registration No. 02260632

Modular Balustrade Installation Guide - Handrail

Step 1 - Dry Run

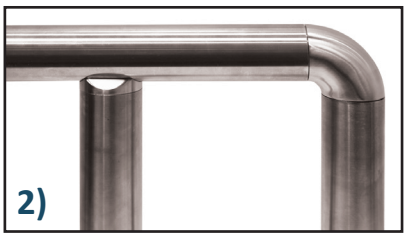
Once all posts are fixed, place handrail supports into the top of each upright.. **1)** Place elbows into the ends of handrails and onto the fixed uprights. **2)**

PLEASE NOTE: DO NOT use any MMA Adhesive at this time.



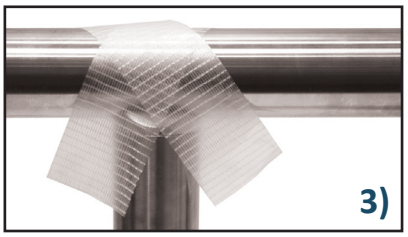
Step 2

Tape supports to handrail using gauze tape. Remove handrail from the uprights ensuring the supports are securely taped in the same position as the handrail was. **3)**



Step 3

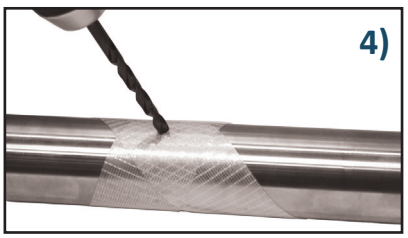
Using a felt pen, mark the holes on the handrail where the handrail support is positioned. Un-tape the handrail supports once all holes are marked.



Step 4

Ensuring the handrail is securely positioned within a vice, place a small piece of gauze tape over the marked area and using a sharp point, gently mark a pilot hole into your handrail - this will help to drill your hole. Place lubricant onto your drill bit and drill holes.. **4)**

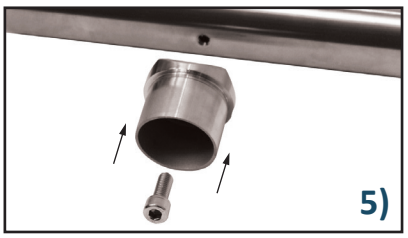
Next, tap the drilled holes with the included tapper. Remove all tape once the holes are drilled and tapped..



Step 5

Replace your handrail supports by lining up holes in the supports with holes in the handrail.

Place fixings through the underside of your handrail support and tighten until the handrail is securely fixed. Repeat for all handrail supports. **5)**



Step 6

Apply adhesive onto the male fittings of your handrail supports and the male fitting of any elbows on the end of your handrail. Place the supports and elbows into your uprights **6)**

Step 7

For extra support, apply gauze tape to areas with adhesive. Leave to set for 24 hours.

For further help with your balustrade system, please contact our sales team.

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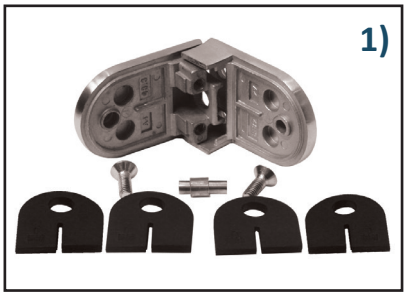
Modular Balustrade Installation Guide - Glass

Step 1

Remove glass brackets and correct sized rubbers from the packaging.

Every glass bracket includes rubbers for 8mm and 10mm glass, a safety pin and an M8 x 20mm socket cap screw to fix the bracket to your upright **1)**

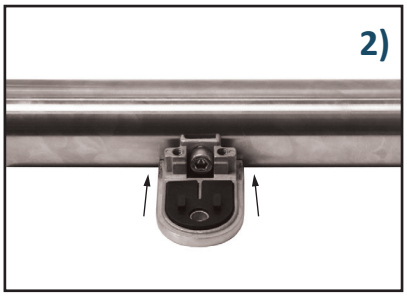
PLEASE NOTE: Only use the safety pin when suspending glass at height. The clamping brackets and rubbers are strong enough to secure your glass in place.



Step 2

Apply the rubber to the inside of your bracket and fix the bracket body onto the upright.

For your convenience, SWR pre-drill and tap the holes. Please refer to our Handrail Fitting Instructions if you need to drill and tap on site. Use a 6mm allen key to tighten the screw through the body of the glass bracket into your upright. **2)**



PLEASE NOTE: It is the customer's decision which side the brackets face.

Step 3

Once all brackets are fixed to uprights, you must calculate the size of your glass.

To comply with current buildings, a sphere with a 100mm diameter should not be able to pass through the gaps between the brackets and glass. This includes gaps between the upright posts and glass, the handrail and glass, and gap between the floor and glass.

To calculate the width of your glass, measure between the area within the glass bracket where your glass will rest, up to the same area on the opposing glass bracket. Subtract 10mm off the total for some tolerance. **3)**

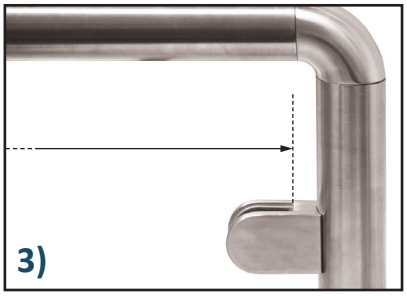
e.g. Inside of glass bracket to inside of opposite glass bracket is 900mm

(900mm – 10mm = 890mm) Glass Width: 890mm

To calculate the height of your glass, measure from the ground to the underside of your handrail and subtract the size of the you wish to leave. Ensure this is no more than 100mm. We recommend a 70mm gap between the handrail and glass, and gap between the floor and glass. **4)**

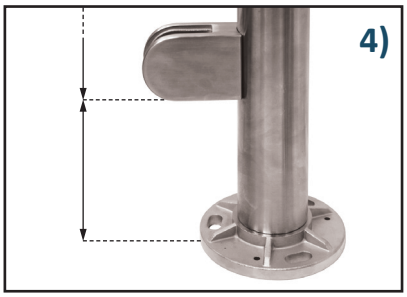
e.g. From surface area to underside of handrail is 1050mm

(1050mm – 70mm – 70mm = 910mm) Glass Width: 910mm



If your glass panels are a "non-standard" shape, we advise that glass templates are made of MDF wood so it can be shaped into how you would like the glass to look. This must be strong enough for transportation via courier and onto our glazier for processing.

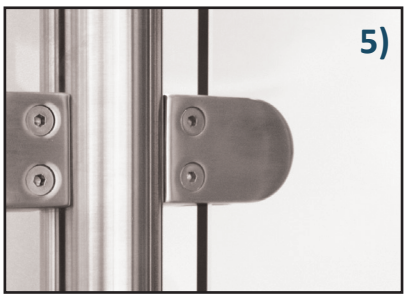
PLEASE NOTE: We are unable to supply any materials for glass templates. A service charge applies for collecting customer templates.



PLEASE NOTE: We are unable to supply any materials for glass templates. A service charge applies for collecting customer templates.

Step 4

Place glass into glass brackets and tighten the clamp. Ensure the glass is securely clamped in all areas. **5)**



Important - Please Read

SWR will advise on the most suitable and safest balustrade system for each project. However, it is the customer's responsibility to ensure the final specification complies with building regulations.

It is also the installer's responsibility to ensure the area in which the system will be fixed is structurally supportive and approved by a structural engineer.

For further help with your balustrade system, please contact our sales team.

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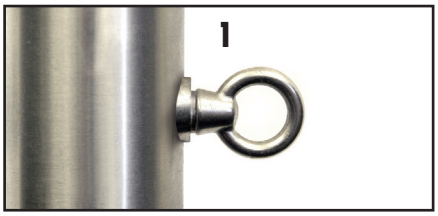
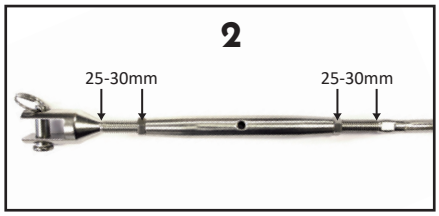
Wire Rope Tension Kits Installation Instructions

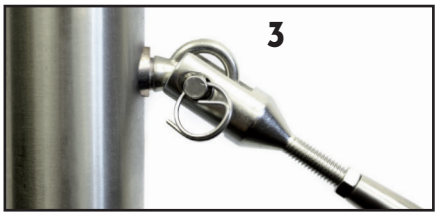
Our balustrade wire rope kits have been designed with you, the installer, in mind. With simple hand tools you can achieve a high quality balustrade cable installation with taut wire rope runs and a superb aesthetic appearance. Kits are suitable for installation to both steel and timber posts (lag screw thread eyebolts are required for timber).



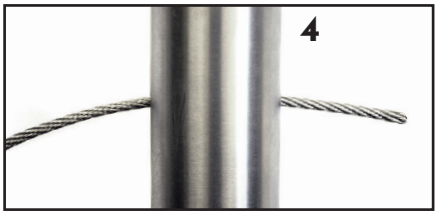
Attach the eyebolts to either end of the run. Holes can be pre-drilled by SWR on request.



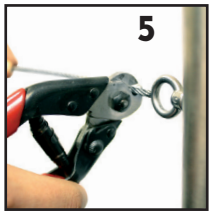
Open the turnbuckle halfway. (For rope over 10m we recommend opening each end ¾ of the way: 40-45mm)

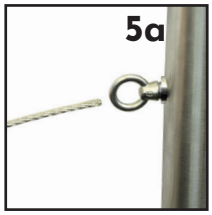


Attach the turnbuckle to the eyebolt at the start of the run.

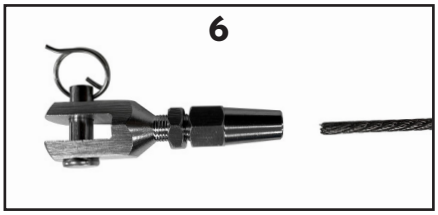


Thread the wire rope through any intermediate posts.

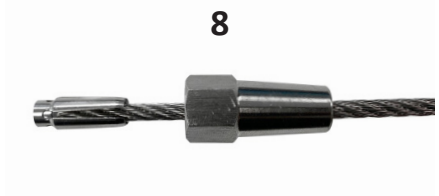


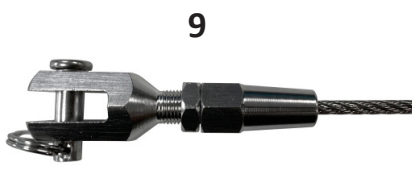


Cut the wire approx. 20mm from the outer edge of the end eyebolt.

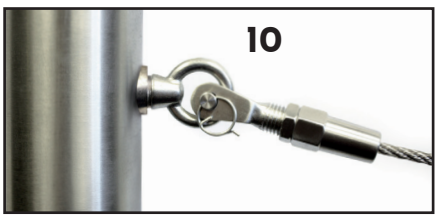


Fit the self-assembly fork to the end of the wire rope. (See box below)

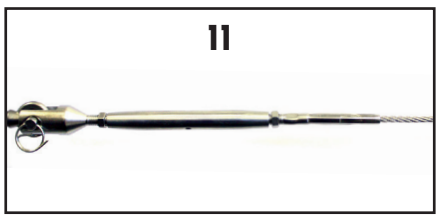




- Slide the jaw housing onto the cable.
- Slide the jaws onto the cable.
- Slide the jaw housing in place so that it covers the jaws.
- Assemble the terminal: Screw the head firmly in place on the jaw housing with a spanner.
- Then tighten the lock nut firmly with a spanner.



Attach the self-assembly fork to the eyebolt at the other end of the run.



Adjust the turnbuckle until wire rope is taut.

Available Online
SWR0060

SWR recommend using our wire rope hand cutting tool as shown in Instruction 5.

For further help fitting your wire rope tension kit or for any other enquiry, please contact SWR using the details below.

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