

## About This System

The Tensioner Swage Stud System is a popular streamline system for **straight** and **angled** sections using **metal** posts. This system is unique as it passes through both sides of the post to minimise visible fittings once installed.

**This method requires Hydraulic Swaging at an additional cost. Wire rope is costed per metre.** Factory hydraulic swaging applies tonnes of pressure onto the fitting in order to secure the wire into the swage end of the fitting. When you order this system it will come pre-swaged to your specifications.

## Included With This System



**6mm Hex Head  
Tensioner**  
(S7500-06)



**M6x40mm RHT  
Swage Stud**  
(S7801R-030640)



**3.2mm Rod Terminal**  
(S7806-03)

## Related Products



**ProRig® Multi Tool**  
(CSPAN-PR)



**Bevelled Washer**  
(S7702)

# Tensioner Swage Stud System

*For Metal Posts*



## D.I.Y

Scan this code with  
your smart phone  
to see our online  
installation video.



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# FAQ

## Can I install this method myself?

Yes, even someone with no experience can easily install all our wire balustrade systems.

## Do I need any special tools?

Because the Tensioner Swage Stud System arrives at your door pre-made from our factory, you will only require common handyman tools such as an electric drill with 7.5mm and 9mm drill bits and 6mm allen key. You can purchase an optional ProRig Multi Tool for easier installation.

## What size and type of stainless steel wire do I use?

This method is almost always used with 3.2mm 1x19 stainless steel wire rope. This wire is the most functional for stainless steel wire balustrade systems due to its bright surface finish, attractive appearance, durability, strength and low stretch.

## What spacing do I need between my wires?

When using 3.2mm 1x19 stainless steel wire, you will usually need 80mm spacing (usually 11 runs) between your wires when using a standard one (1) meter high handrail. Visit [www.miamistainless.com.au](http://www.miamistainless.com.au) for more information on building regulations and requirements.

## Can I use this balustrade system on a stair or angled section?

Yes, the Tensioner Swage Stud System can be used for stair or angled sections when used with beveled washers.

## When using this system for metal posts, what size hole should I drill for my rod terminal and hex head tensioner?

A 7.5mm hole will suit the rod terminal end and the hex head tensioner end will require a 9mm hole.

## What size hole should I drill through my intermediate posts?

A 7.5mm hole through your intermediate posts will allow the swage stud pass through.

## What is the maximum length run I can do?

The Tensioner Swage Stud System can easily span up to 10 metres. Spans of up to 16 metres can be achieved by using a tensioner at each end, please contact Miami Stainless for further information.

## Can I take my balustrade wire around corners?

It is not possible with this system to take the balustrade wire around corners.

## STEP 1

Mark out and pre-drill all end posts at the required spacing. Rod terminals require a 7.5mm hole drilled through both sides of the post. Hex head tensioners require a 7.5mm hole in the inside post face and a 9mm hole in the outside post face. Drill 7.5mm holes in all intermediate posts.

## STEP 2

Starting from the outside face of the post that will receive the rod terminal, thread the swage stud end through the post, intermediate posts and opposite end post. Pull the wire tight so that the rod terminal rests against the outside edge of the post.

## STEP 3

Insert the hex head tensioner into the 9mm hole on the outside face of the opposite end post. Thread the swage stud into the hex head tensioner meeting inside the post.

## STEP 4

Tension the wire by inserting an M6 allen key into the hex head tensioner and holding a ProRig Multi Tool onto the swage stud. Tighten until desired tension is achieved. For accurate and consistent tension you will require a tension gauge, however you can measure the tension by a deflection test.

## HELPFUL TIPS

### Make a Template



Make a template for marking out the holes on your post for consistency.

Scan this QR code with your smart phone to learn more.

### Use Grommets



Grommets can be used to stop wiring chaffing in middle posts (tube or square posts).

Please note: If you are using grommets, the required drill size for posts is 11/32".

For further information talk to our helpful Sales Consultants by emailing [info@miamistainless.com.au](mailto:info@miamistainless.com.au), calling **1800 022 122** or posting your question on our Facebook page at [www.facebook.com/miamistainless](https://www.facebook.com/miamistainless).