

## Tensioned Wire Trellis - DIY Installation Advice

### Each Tensioned Wire Trellis System consists of :

- 1 x 4mm diameter stainless steel wire rope
- 1 x 4mm M8 threaded stainless steel stud fixed at one end
- 1 x 4mm M8 threaded stainless steel DIY end stud
- 2 x Surface mounting stainless steel hubs
- 2 x Stainless steel M8 nuts
- 2 x Stainless steel M8 dome nuts
- 2 x Stainless steel M8 dual thread screws



Manufactured from 316 (marine) grade stainless steel, making this kit ideal for harsh outdoor conditions.

### Preparation :

Plan your project in advance to ensure you have the correct number of mounting hubs, wires and fittings.

The system can be mounted either vertically or horizontally onto masonry and timber surfaces.

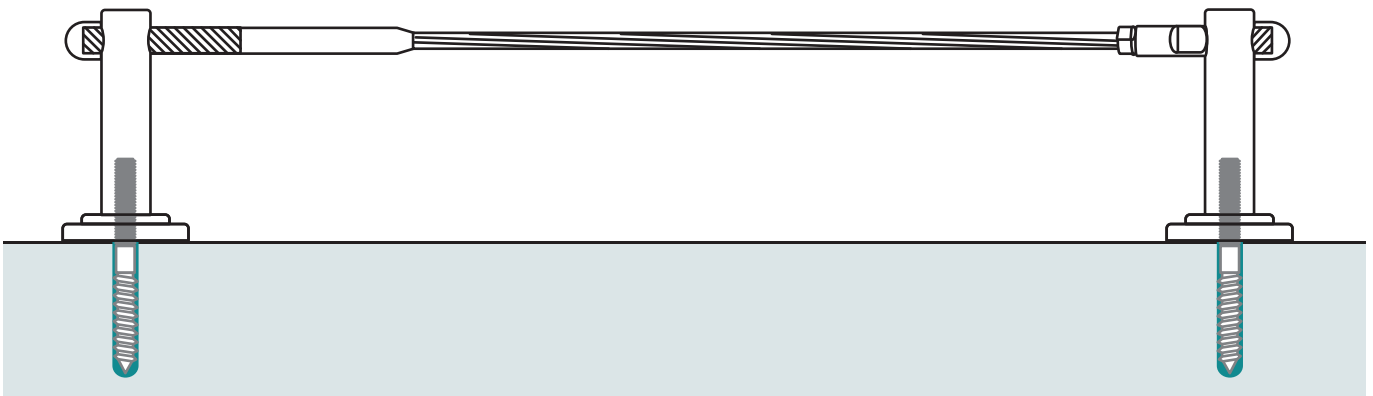
You will need a few tools for a quick and easy installation: Chalk/Pen, Tape Measure, Spirit level, Drill, Hex Head Key, Wire Cutters, Wrench and Spanner.

### Note :

The dual thread pin allows direct installation into hardwood timber (such as oak) and if combined with the correct rawl plug it is attachable to almost any masonry surface.

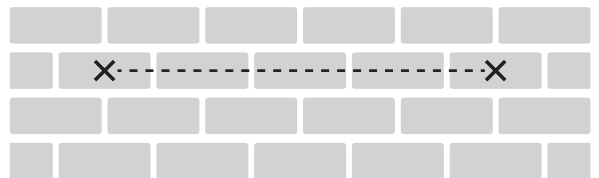
Ensure you leave 20mm of thread protruding from the mounting surface for a perfect fit.

Do not mount onto mortar between bricks as this method is not as strong as mounting into the brick itself.



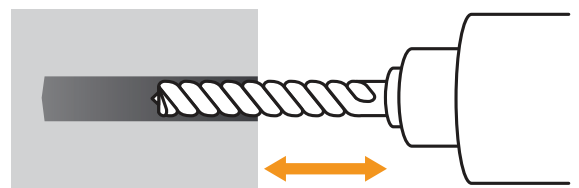
### 1 Getting Started

It is a good idea to layout your design onto the relevant surface with a pen or chalk prior to drilling any holes, taking factors such as brick spacing into consideration.



### 2 Drill Pilot Holes

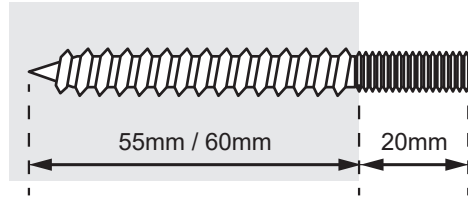
The dual thread pin allows direct installation into hardwood timber (such as oak) or if combined with the correct rawl plug it is attachable to almost any masonry surface. We recommend a 6mm or 7mm drill piece for wood installation or a 12mm hole if using a 12mm x 60mm grey wall plug on solid brick (not mortar) to reduce the chance of cracking).



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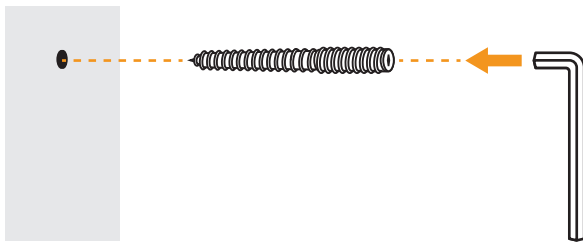
### 3 Insert Dual Thread Screw

It is important to ensure that 20mm of thread is protruding from the mounting surface.



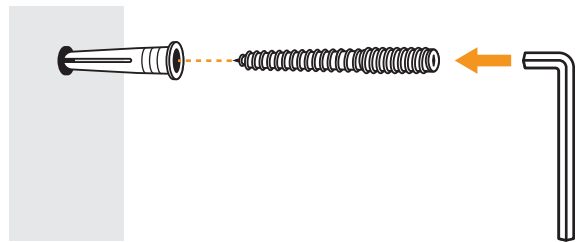
#### A: Timber Mount

Screw in the dual thread screw into place using a hex head key.



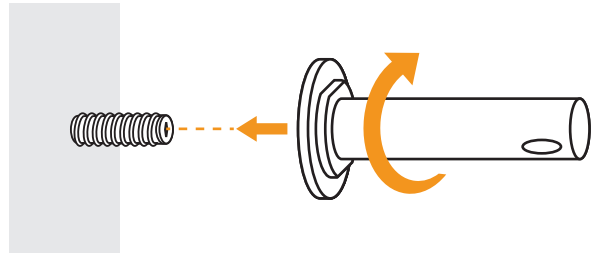
#### B: Masonry Mount

Insert rawl plug first and then screw in the dual thread screw into place using the hex head key.



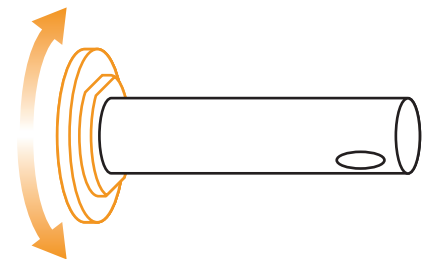
### 4 Attach Hubs

Screw the surface mounting hubs onto the dual thread screws, aligning the centre holes with each other.



#### Hub Alignment

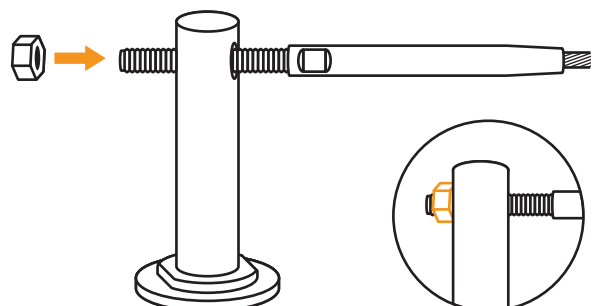
Perfect alignment of the cross holes can be achieved by simply turning the adjustable base plate of your hub in or out.



### 5 Attach Fixed Cable End

Thread your wire through the first hub, so that the fixed wire end stud can be secured - using a stainless steel M8 nut (supplied).

Remember to leave only a small amount of thread, so that as you tension the wire, more thread will be revealed to provide thread for the dome end nut.



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### 6 Measure Your Wire

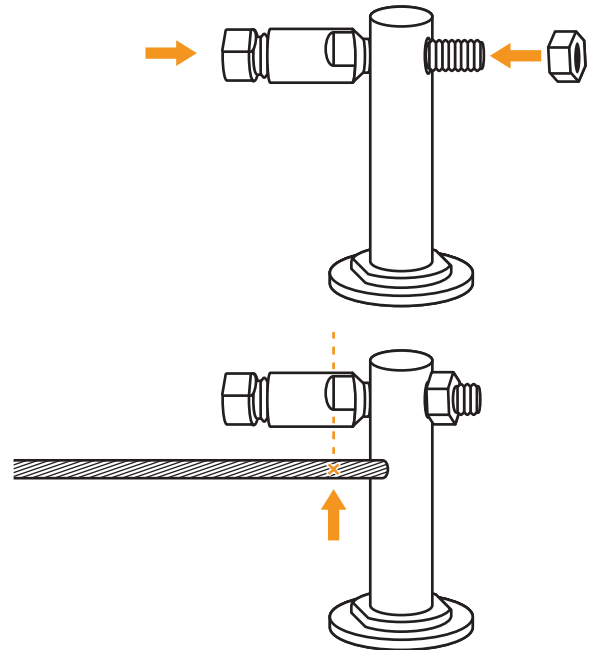
Place the DIY stud end in place through the other hub.

We recommend attaching a M8 nut to hold the DIY end stud in place while you measure the wire rope.

Now simply tension the wire by pulling the dead end and aligning to the DIY end stud.

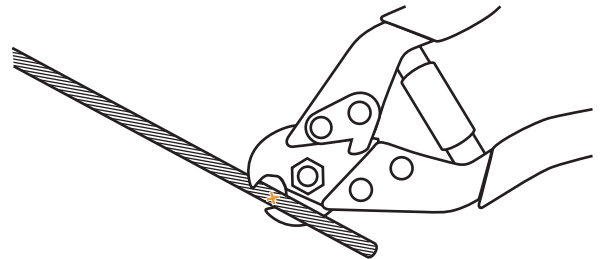
Use a pen to mark the wire in-line with the spanner flat of the DIY compression fitting.

Once you have done this remove the threaded end stud from the hub.



### 7 Cut Your Wire

We recommend using a good set of hand held wire rope cutters to cut your wire to length.



### 8 DIY Compression threaded End Stud

You are now ready to attach the DIY threaded end stud.

The first step is to take apart the threaded end stud by unscrewing the threaded end stud from the nose piece, this will reveal the inner cone.



### 9 Thread Nose Piece onto the Wire Rope

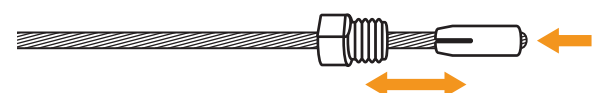
Simply slide the threaded nose piece onto the stainless steel wire. Remember: the threaded end should be facing the wire end.



### 10 Thread Cone onto the Wire Rope

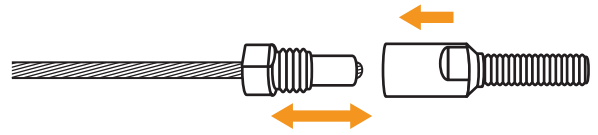
Place the cone (tapered end first) onto the wire rope and pushed into the threaded nose piece.

Align the combined unit flush with the end of the wire rope.

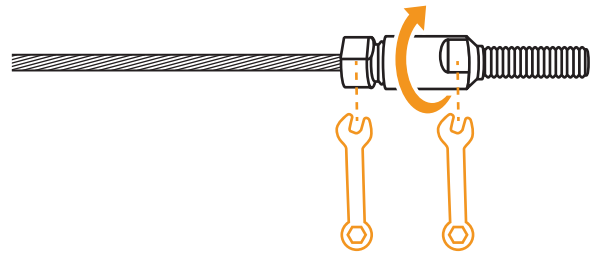


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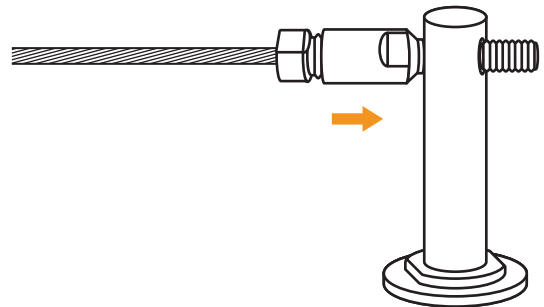
- 11 Place Threaded End Stud onto Wire Rope**  
Take the stainless steel end stud and push onto the wire rope, bringing the three component parts together. Turn in opposite directions to thread them together.



- 12 Secure DIY End Fitting**  
Using 8mm and 9 mm spanners or wrenches, screw the two sections together until tight.



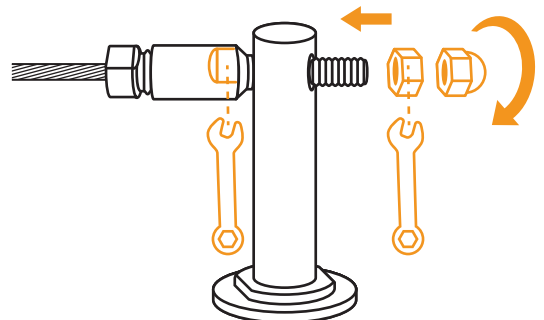
- 13 Position DIY End Stud**  
Insert threaded end through the fixing hole of the hub.



- 14 Secure DIY End Stud in Place**  
We recommend using a 9mm spanner or set of grips on the spanner flat of the threaded end stud, this will stop the wire from twisting as you fix in the end stud in place.

First attach the stainless steel M8 nut first followed by the M8 dome nut.

Using a set of spanners, tighten the nuts against each other to create a secure rigid fix.



- 15 Applying Tension**  
Now return to the pre-fixed cable end, using a 6mm spanner or grips on the spanner flat of the end stud to ensure the wire rope does not twist while adding tension.

Simply tighten the M8 nut, this will apply tension to the wire, as you do this more thread will be revealed for the M8 dome nut.

- 16 Finish Your Assembly with the M8 Dome Nut**  
Once the required tension is achieved simply thread the M8 dome nut into place and tighten against the M8 nut.

