

## Titen HD® 12 x 230 mm Masonry Screw

For retrofitting URM cavity walls for out-of-plane composite behaviour.

The Titen HD 12 mm x 230 mm masonry screw anchor provides a solution to tie two brick leaves together when a cavity exists between them.

Once the masonry screws are installed the new composite infill wall will be strengthened to resist out-of-plane forces that occur during a seismic event (refer to University of Auckland Report – LR0441 for guidance on installation patterns and analysis).

### Base Material

- Masonry, Concrete

### Finish

- Carbon Steel, Mechanically Galvanised

*This product is only available in New Zealand*



**Serrated teeth** facilitate cutting and reduce installation torque



**Easy post-installation inspection:** The head is stamped with the Simpson Strong-Tie "S" sign and the anchor size in mm



**Highly ductile:** Can be bent to a right angle (90 degrees) and remain intact without snapping or breakage

**THD12230MG**



Alternative Countersink Option

## Titen HD® Threaded Rod Hanger Product Availability

Mechanically Galvanised <sup>1</sup>	Anchor and Drill Bit Size	Total Length <sup>2</sup> (mm)	Thread Length (mm)	Wrench Size (mm)	Box Qty	Carton Qty
Model No.		L	L			
<b>THD12230MG</b>	M12	230	190	18	25	50

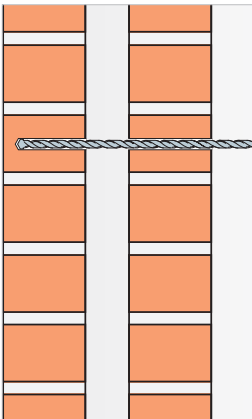
1. Mechanically galvanised finish is ≥ 12 microns in accordance with EN ISO 12683, Type 1. Not recommended for use in highly corrosive or unprotected outdoor environments.  
 2. Length is measured from the underside of the head to the tip of the anchor.  
 3. Only available in New Zealand.

## Titen HD® 12 x 230 mm Masonry Screw Installation

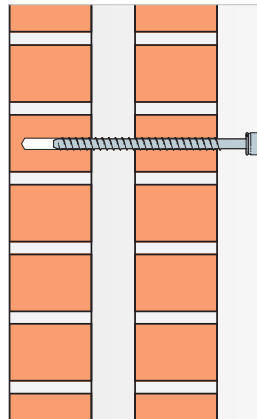


**CAUTION:** Oversized holes in the base material will reduce or eliminate the mechanical interlock of the threads with the base material and will reduce the anchor's load capacity. Use a Titen HD screw anchor one time only. Installing the anchor multiple times may result in excessive thread wear and reduce load capacity.

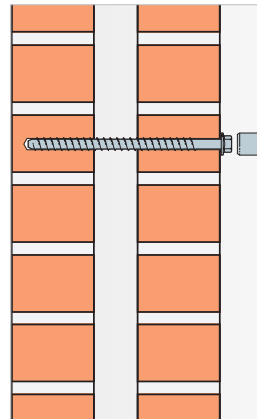
### Installation Sequence



**1. Drill**  
Drill a hole in the base material using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified embedment depth plus 12 mm minimum to allow the thread tapping dust to settle



**2. Install**  
Insert the anchor through the fixture and into the hole. Tighten the anchor into the base material until the hex washer head contacts the surface.



**3.** If the anchor will not install completely, remove the anchor and assure that all dust has been evacuated or drill the hole deeper. Begin re-installation of the anchor by hand to prevent cross-threading.

