

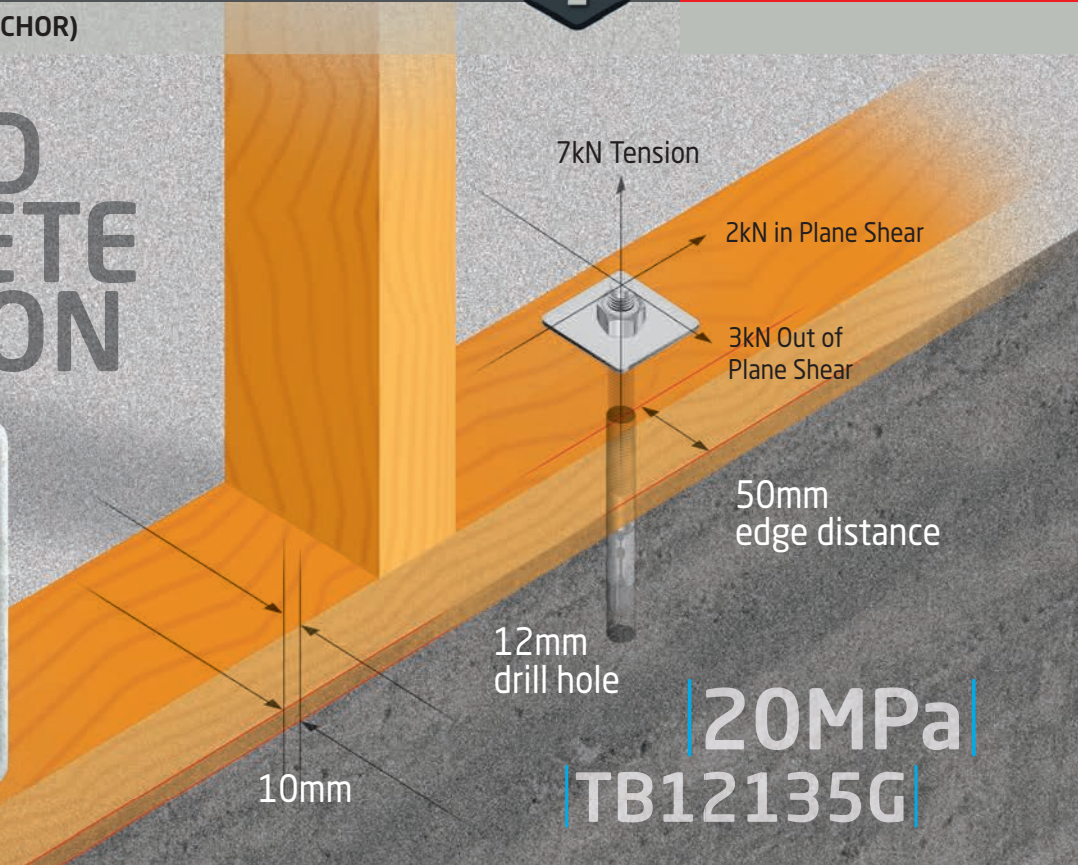
BOTTOM PLATE FIXING SOLUTION



ICCONS®
Serious Connections®

ICCONS® THRU-BOLT (STUD ANCHOR)

FORMED CONCRETE SOLUTION



Galvanised



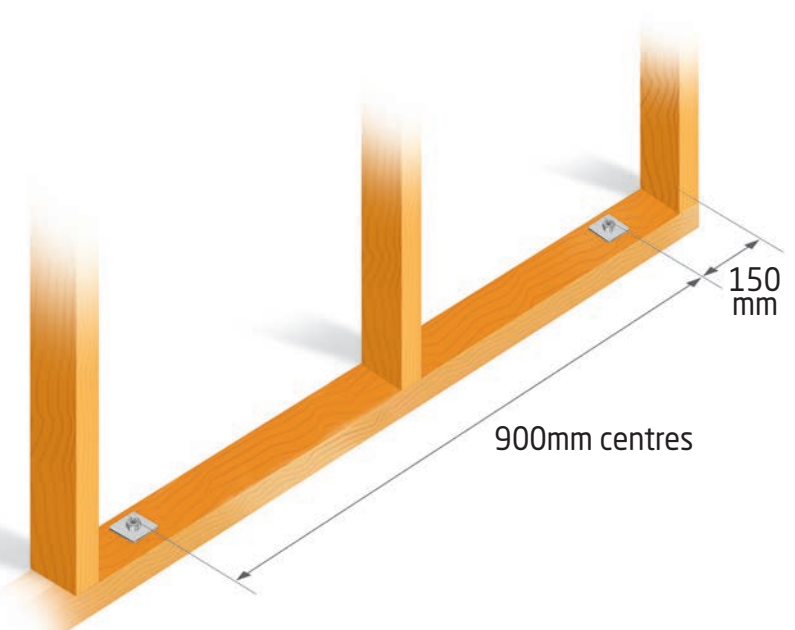
The ICCONS® THRU-BOLT stud anchor is a pre-assembled torque controlled mechanical stud anchor which when tightened draws the tapered end of the bolt into the clip expanding it to create expansion forces against the wall of the drilled hole.

Features of THRU-BOLT stud anchor include:

- Heavy duty Class 5.8 Carbon steel material
- Thru fixing for fast installation
- Anchor Diameter = Hole Diameter (e.g. M12 anchor = 12mm drill hole)
- Engineered Clip designed for high loads preventing anchor rotation

The ICCONS® THRU-BOLT stud anchor is designed for use as a bottom plate fixing in timber frame construction.

The ICCONS® TB12135G has been tested and complies with the requirements set out in NZS 3604-2011, clause 7.5.12.3 & 4 (for external and internal walls).



BOTTOM PLATE IN 20MPa CONCRETE SLAB

NZS 3604-2011 CLAUSE 7.5.12.3
Minimum Design Capacities (kN)

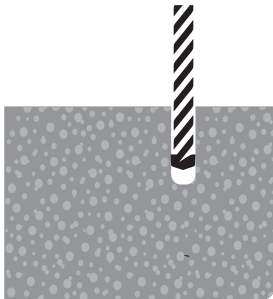
Fixing type	Anchor size (mm)	Bottom plate type (mm)	Fixing centres (mm)	Edge distance (mm)	In-plane shear loading (kN)	Out-of-plane shear loading (kN)	Tension loading (kN)
Thru-Bolt Stud Anchor	12 x 135	45 x 90	900	50	2.0	3.0	7.0



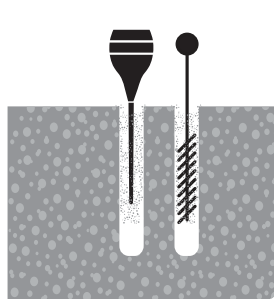
ICCONS® THRU-BOLT (STUD ANCHOR)

ANCHOR INSTALLATION INSTRUCTIONS

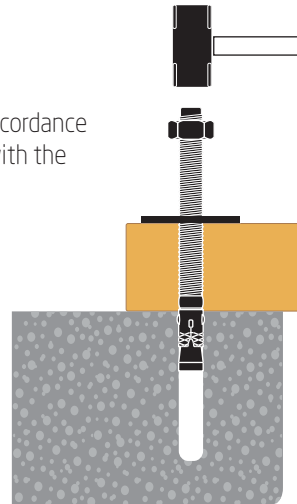
ICCONS® THRU-BOLT stud anchor TB12135G must be installed in accordance with ICCONS® published installation instructions in order to comply with the requirements stipulated in NZS 3604-2011, clause 7.5.12.3 & 4.



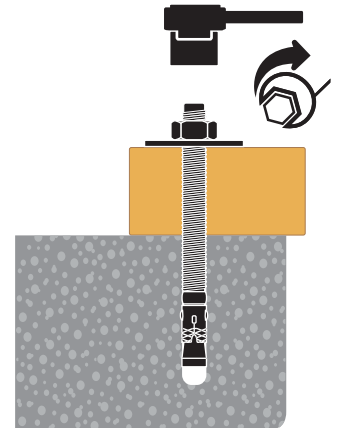
Using a 12mm drill bit, drill a hole to the correct depth.



Clean dust and other material from the hole.



Insert anchor into position.



With correct size socket or spanner tighten anchor to specified torque. Installation complete!

SPECIFICATION DATA

GAL EXTERNAL								
Part No.	Description	External Thread	Anchor Size mm	mm	mm	mm	torque Nm	qty
TB12135G	with standard round washer Ø24	M12	12 x 135	12	65	45	45	25
ITB12135GBSQ	with galvanised square 50 x 50 x 3mm Washer							100
ITB12135GSQ	with galvanised square 50 x 50 x 3mm Washer							25
ITB12135GTSQ	with galvanised square 50 x 50 x 3mm Washer							50 (tub)

DURABILITY

The TB12135G stud anchor for use as a bottom plate fixing solution is coated with a galvanised coating of 45 microns thickness. The life expectancy of the TB12135G stud anchor will depend on the environment where the product is installed. For internal dry environments, the TB12135G stud anchor has a life expectancy of 50 years (minimum). The TB12135G also complies with durability requirements for all zones in a closed environment as stipulated in NZS 3604-2011, table 4.1.

WARRANTY

This Technical document has been prepared to provide guidance for design professionals and trades people in the correct selection and use of proprietary bottom plate fixings designed to comply with requirements stipulated in NZS 3604-2011, clause 7.5.12.3 & 4. ICCONS® and SESTO Fasteners shall not be held liable for any claim, damage, demand expense, injury or loss, direct, incidental or consequential, based on product misuse and factors outside the control of both ICCONS® and SESTO Fasteners.

MATERIAL SPECIFICATIONS



Anchor Part	Galvanised
Expander Clip	400 series S/S
Washer	AISI1010
Nut	AISI1010
Anchor bolt	Class 5.8
Plating	Galvanised Coating thickness 45 microns (min.)

Contact Sesto Fasteners for full independent report details on bottom plate testing conducted using the ICCONS® TB12135G Thru-Bolt Stud Anchor (REPORT: SSL-10010).