

### FIXING BOTTOM PLATES;

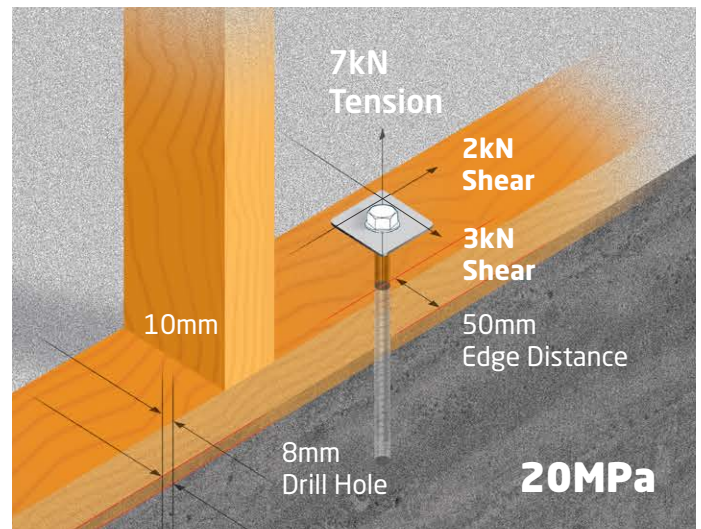
The ICCONS® ThunderBolt®Pro is the latest design in high performance screw-in, self tapping concrete anchors for use in a wide range of concrete and masonry base materials. The ICCONS® ThunderBolt®Pro achieves high loads while generating low expansion forces making it ideal for close to edge applications. Available in a mechanically galvanised finish, the The ThunderBolt®Pro anchors are suitable for use as proprietary bracing solutions complying with NZ standard Timber framed buildigs NZS3604;2011 ref 7.5.12.2 / 7.5.12.4.

### FIXING BOTTOM PLATES EXTERNAL - PROPRIETARY SOLUTION

The SXB08140G **WHITE** Screwbolt has been independently tested for fixing Perimeter bottom plates. Design Tension load **7kN**. Design In Plane Shear load **2kN** and a design Out of Plane shear load of **3kN**. This is in accordance with BRANZ test report No. 125 (2004) and the evaluation of the results are in accordance with BRANZ evaluation method EM1 (1999)

### INTERNAL BOTTOM PLATES - PROPRIETARY SOLUTION

The SXB08100G **Black** Screwbolt meets load requirements in accordance with NZS3604;2011 were edge distance is not a factor. Refer ICCONS document TDS / 1015.2 (NZ)



Contact SESTO Fasteners for full independent report **SSL-10074**.

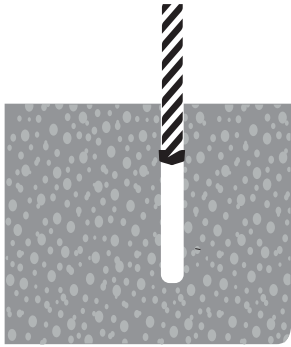
NZS 3604-2011 CLAUSE 7.5.12.3  
Minimum Design Capacities (kN)

Part No.	Anchor Size (mm)	Bottom Plate Type (mm)	Fixing Centres (mm)	In-Plane Shear Loading (mm)	Out-of-Plane Shear Loading (mm)	Tension Loading (mm)
<b>SXB08100G</b>	8 x 100	45 x 90	900	2.0	3.0	7.0
<b>SXB08140G</b>	8 x 140	45 x 90	900	2.0	3.0	7.0



## ANCHOR INSTALLATION INSTRUCTIONS

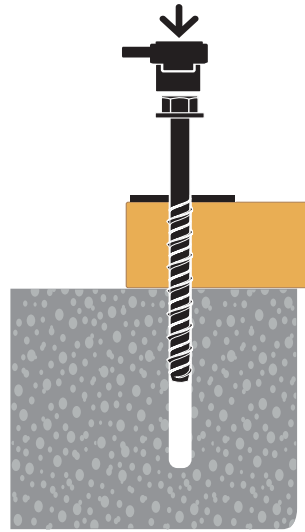
ICCONS® bottom plate fixings must be installed in accordance with ICCONS® published installation instructions.



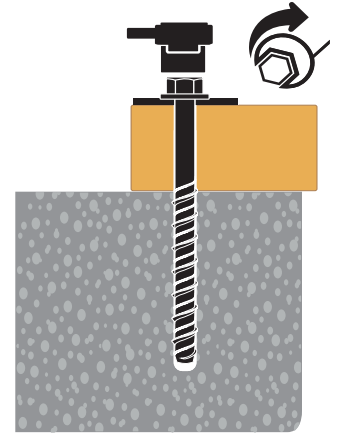
Using a 8mm drill bit, drill a hole to the depth of at least one diameter deeper than the required embedment depth.



Clean dust and other material from the hole.



Install with either a socket or cordless impact driver. Apply pressure against the fixing and rotate to engage the first thread. Continue to tighten the anchor until flanged head is firmly seated against fixture.



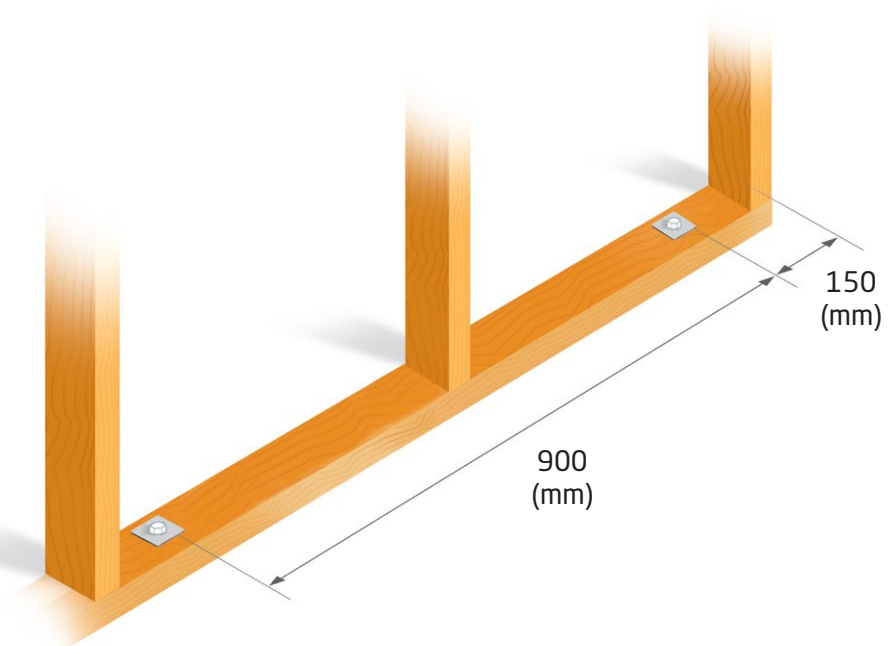
Installation complete!

## DURABILITY

The SXB08100G and SXB08140G ThunderBolt®Pro anchors for use as a bottom plate solution are coated with a proprietary mechanically galvanised coating (NAUTILUS XTEND) designed to achieve 1000 hours in a Neutral Salt spray test (NSS). The life expectancy of the SXB08100G and SXB08140G anchors will depend on the environment where the products are installed, for internal dry environments, the SXB08100G and SXB08140G have a life expectancy of 50 years (minimum). The SXB08100G and SXB08140G also comply 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 body	Mechanically Galvanised
Anchor body	Heat Treated 10B21
Plating	Galvanised Coating thickness 45 microns (min).