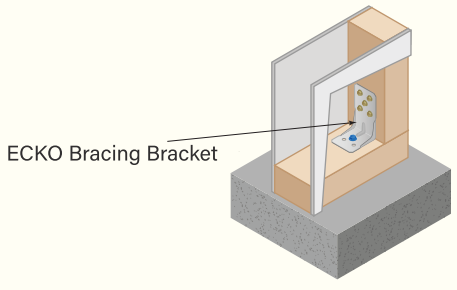
Panel Hold-Down Details

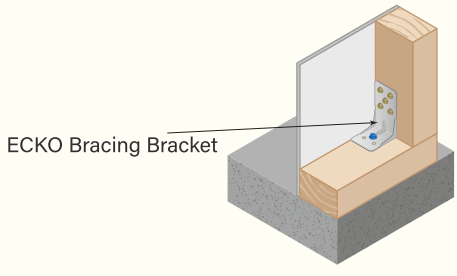
SPECIFIED BY Firth RIBRAFT® HOTEDGE® EXTRA

Concrete Floor - Internal Wall



At both ends of the bracing element, the bottom plate is fixed using a ECKO's 15kN screw bolt. The bracket should be placed in the center of the bottom plate and all 5 screws be installed through the top flange into the corresponding stud.

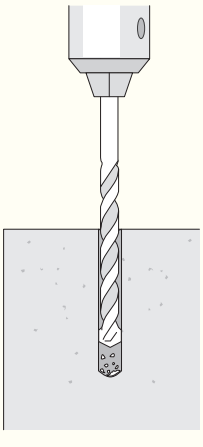
Concrete Floor - External Wall



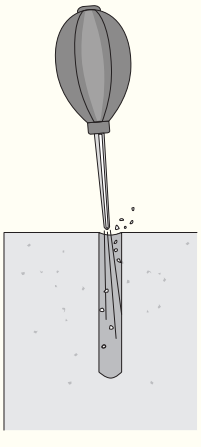
At both ends of the bracing element, the bottom plate is fixed using a ECKO's 15kN screw bolt. The bracket should be aligned with the inside edge of the bottom plate to maximise edge distance. All 5 screws be installed through the top flange into the corresponding stud.

Materials:
G300 Z275 Galvanised Steel

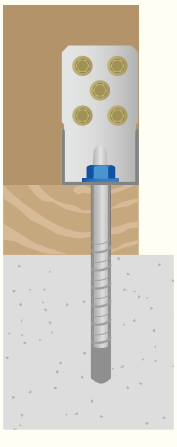
Bracket Installation Guide



Step 1
Using the correct masonry drill bit, drill a hole to the required embedment +10mm. Ensure that the minimum edge distance of 55mm is adhered too.



Step 2
Clean dust and debris from hole.



Step 3
Put the bracket in place and screw in anchor using torque wrench or impact wrench until flange head is firmly secured against the bracket. **DO NOT OVER- TIGHTEN.** Install all 5 screws in top flange.

Bracing Bracket Fixings Guide

ECKO Bracing Bracket has been developed and tested in NZ to be installed with commonly used bracing systems where hold-downs are required at both ends of the bracing element. The system was tested by **BRANZ (ST-18221)** under the **EM1 methodology specified in NZS3604:2011.**



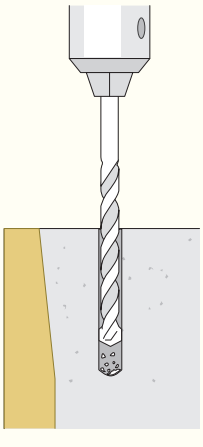
KEY FEATURES

- Quick and easy to fit
- Provides a flush surface for internal lining
- Can be used as a substitute for bottom
- plate-to-stud hold-down straps
- Can be fitted at any stage before lining
- Easy for council inspection
- **Material:** G300 Z275 Galvanised Steel

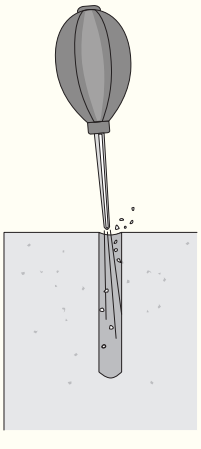
HotEdge

The **ECKO M10 x 155 Screw Bolt (Orange Head)** was developed in **partnership with Firth** to provide a fixing for a 90mm bottom plate where **Firth's RibRaft HotEdge Extra insulation** is used and can be substituted for the blue headed screw bolt provided. The Orange Head Screw Bolt has been **BRANZ tested (ST18050-01-02)** and meets the required 15kN pullout rating to be used in common bracing systems, along with 3kN out of plane and 2kN in plane requirements set out in **NZ3604:2011.**

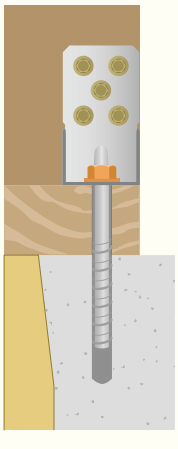
Bracket Installation with HotEdge Guide



Step 1
Using a 10mm masonry drill bit, drill a hole to the required embedment + 10mm. Ensure that the minimum edge distance (from outside of insulation) of 58mm is adhered too.



Step 2
Clean dust and debris from hole.



Step 3
Put the bracket in place and screw in anchor using torque wrench or impact wrench until flange head is firmly secured against the bracket. **DO NOT OVER- TIGHTEN.** Install all 5 screws in top flange.

NOTE

* 15kN hold down is dependent on a minimum of 20MPa concrete.
** Two additional holes are provided on the bottom flange to allow specific engineered design for alternative fixings (ie balustrade fixing, post fire stability, etc)

Z275 Galvanised - Indoor Use		
Product Code	Description	PCS / Pack
MBB-75	ECKO Bracing Bracket Z275 Galvanised	75
MBB-KIT	Includes 2 x ECKO Brackets, 10 x 14g x 35mm Hex Head Screws, 2 x M10 x 140mm Screw Bolts	1 Kit
MBBTUB-10KIT	Includes 20 x ECKO Bracing Bracket, 100 x Hex Screw 14g x 35mm, 20 x Screw Bolt M10 x 140mm	1 Tub