

## BOTTOM PLATE TO CONCRETE SLAB TIE-DOWN

UPDATED MAY 2020

Meyer Timber® has a range of concrete anchors to assist with the tie-down of bottom plates to the slab.

### PRODUCT DESCRIPTION

**CS75102** 7.5 dia x 102mm TX-CON™ concrete screws for low uplift applications

**XBolt®10100** M10 x 100mm XBolt® anchors for medium uplift applications

**XBolt®12150** M12 x 150mm XBolt® anchors for high uplift applications

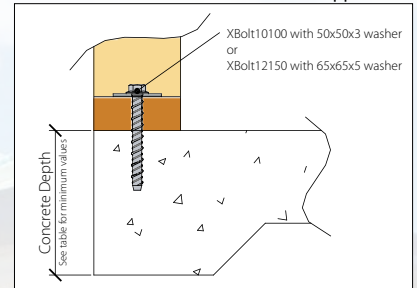
### SPECIFICATION (SHEET ROOF)

ANCHOR TYPE	Hole diameter (mm)	Concrete depth for 35mm bottom plate (mm)	Minimum washer size (mm)	N2 WIND		N3 WIND	
				Tie-down Spacing		Tie-down Spacing	
				900mm	1200mm	900mm	1200mm
				MAXIMUM ROOF LOAD WIDTHS (mm)			
CS75102	6.5	100	N/A	7000	5000	3000	2000
XBolt®10100	10	100	50x50x3	8000+		7000	5000
XBolt®12150	12	150	65x65x5	8000+			

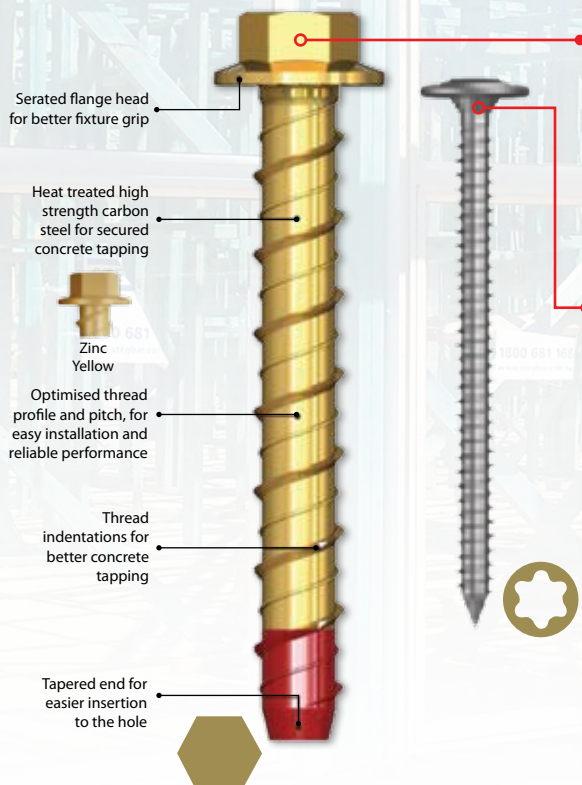
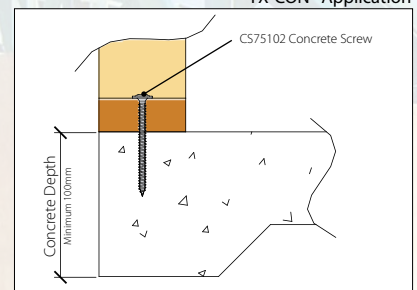
#### NOTES:

- 8000+ - the maximum Roof Load Widths (RLW) have been limited to 8000mm.
- Max RLWs for internal walls = 8000+ unless noted otherwise below:
  - N2 Wind - CS75102 : 6000mm @ 1200 c/c
  - N3 Wind - CS75102 : 4000mm @ 900 c/c; 3000mm @ 1200 c/c
- The design capacity is based on a 35mm bottom plate, 45mm edge distance in Grade 20 concrete.
- Use XBolt®12150 as a substitute for 13 kN capacity tie-down connector, as specified in AS 1684.2 - 2010 for high capacity wall bracing units.
- XBolt®12150 requires minimum wall frame thickness of 90mm (for external walls only).
- For applications outside the scope of the above table contact a Meyer Timber® Engineer for advice.

#### XBOLT® Application



#### TX-CON™ Application



### ANCHOR SCREWS

#### XBOLT® - Hex Flange Head

XBolts® are single unit screw type anchors that are used in solid concrete applications. Fixing is achieved by screwing the anchor into the hole. As it is screwed in, it creates its own undercut by tapping the concrete hole. The cutting and locking mechanism enables the anchor to be used in close spacing and edge distance applications.

### CONCRETE SCREWS

#### TX-CON™ T40 Washer Head Screw

TX-CON™ is designed for light duty concrete applications. These anchors tap the drilled concrete hole and are ideal for quick installation, close anchor spacing or edge distance and removability.

### INSTALLATION

- Drill hole 15mm deeper than screw penetration.
- Blow out hole.
- Insert anchor using ratchet or impact driver.

