

### MASONRY ANCHORS

# **NON SAFETY CRITICAL**

### **THROUGH BOLT**

M6 - M20 sizes

Stainless Steel Studs Marine & external applications

#### **FEATURES & BENEFITS**

- Medium to heavy duty torque controlled expansion anchor.
- Convenient through fixture fastening.
- Load immediately after installing.
- Extensive range covers a multitude of applications.
- Optimised for high shear loads.



### **APPLICATIONS/TRADES**

- Warehouse racking.
- Conveyor lines / production plant.
- Plant room equipment hold down.
- Safety barriers.
- Timber bottom plate hold down.

### SUBSTRATE SUITABILITY







# **THROUGH BOLT** NON SAFETY CRITICAL



## RANGE

#### **HEXAGONAL FLANGE NUT HEAD**

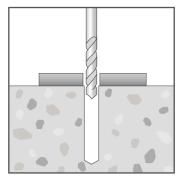
Product Code	Pack Qty	Anchor/ Drill hole Ø (mm)	Thread size	length		Drill hole depth (mm) @ t <sub>fix, max</sub>	Minimum embedment depth (mm) @ t <sub>fix, max</sub>	Fixture clearance hole Ø (mm)
				l <sub>t</sub>	<b>t</b> <sub>fix, max</sub>	h <sub>1</sub>	h <sub>nom</sub>	d <sub>f</sub>
ATBM6060652	50	6	M6	65	35	40	30	8
ATBM6080502	20	8	M8	50	10	50	40	10
ATBM6080602	50	8	M8	60	20	50	40	10
ATBM6080802	25	8	M8	80	40	50	40	10
ATBM6080902	20	8	M8	90	50	50	40	10
ATBM6100652	25	10	M10	65	15	60	50	12
ATBM6100752	25	10	M10	75	25	60	50	12
ATBM6100902	20	10	M10	90	40	60	50	12
ATBM6101202	20	10	M10	120	70	60	50	12
ATBM6120802	20	12	M12	80	20	75	60	14
ATBM6121002	20	12	M12	100	40	75	60	14
ATBM6121202	20	12	M12	120	60	75	60	14
ATBM6121402	20	12	M12	140	80	75	60	14
ATBM6161052	20	16	M16	105	25	95	80	18
ATBM6161252	20	16	M16	125	45	95	80	18
ATBM6161402	20	16	M16	140	60	95	80	18
ATBM6161802	10	16	M16	180	100	100	80	18
ATBM6201252	10	20	M20	125	25	120	100	24
ATBM6201602	10	20	M20	160	60	120	100	24

Note:

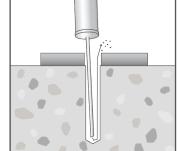
For a fixture thickness ( $t_{fix}$ ) that is less than the  $t_{fix,max}$  value tabled above: - increase both the drill hole depth ( $h_1$ ) & concrete thickness ( $h_{min}$ ) by ( $t_{fix,max}$  -  $t_{fix}$  actual)

# THROUGH BOLT NON SAFETY CRITICAL

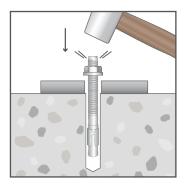
### **INSTALLATION**



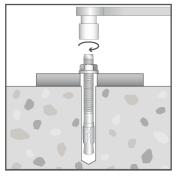
Drill hole through fixture into substrate to the specified diameter and depth.



Clear hole of drilling debris.



Insert anchor into hole and drive until anchor is flush with the surface of the fixture.



Using a wrench, expand anchor by tightening to the specified installation torque.

### **PRODUCT INSTALL & PERFORMANCE INFORMATION**

Anchor / Drill hole Ø	Minimum embedment depth	Minimum substrate thickness	Socket size AF (mm)	Installation torque (Nm)	Critical anchor spacing (mm)	Critical anchor edge distance (mm)	<b>Recommended Capacities</b>	
(mm)							Tensile (kN)	Shear (kN)
d <sub>nom</sub> / d <sub>o</sub>	h <sub>nom</sub>	h <sub>min</sub>	sw	T <sub>inst</sub>	s <sub>cr</sub>	с <sub>сг</sub>	N <sub>rec</sub>	V <sub>rec</sub>
6	30	60	10	5	75	40	1.9	2.5
8	40	80	13	15	100	50	3.0	3.9
10	50	100	16	30	120	60	4.1	5.3
12	60	120	18	45	150	75	5.5	7.6
16	80	160	24	110	200	100	8.4	12.2
20	100	200	30	180	240	120	11.7	16.7

Note:

Recommended capacities are based on:

- Single anchor.
- Critical anchor spacing and edge distance values.
- 20MPa concrete compressive strength.
- (Characteristic ultimate concrete capacities / 3) & (characteristic ultimate steel capacities / 2.5).
- Shear load directed away from concrete edge.
- For combined load cases (tension & shear) must also comply with ( $N_{app} / N_{rec}$ ) + ( $V_{app} / V_{rec}$ )  $\leq$  1.2.

Important Disclaimer: Capacity information is limited to the simple scope above and is provided to enable a relative comparison within and across product ranges. Please contact Bremick to enable an anchoring solution to be optimised for your particular anchoring application.

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to specifications as part of ongoing development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure suitability for their application.

The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.

#### **BREMICK**<sup>®</sup>

Bremick Pty Ltd Head Office | 88 Dalmeny Avenue, Rosebery 2018 National Distribution Centre | M5/M7 Logistics Park, Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170