

# NON SAFETY CRITICAL

## SCREW ANCHOR

5mm - 16mm sizes

Zinc Plated  
Dry, internal applications

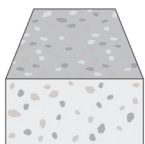
### FEATURES & BENEFITS

- High tensile single piece anchor, cuts thread into substrate.
- Ideal for close to edge & close anchor spacing applications.
- Fully removable - ideal for temporary works.
- Can load immediately after installing.
- Convenient through fixture fastening.

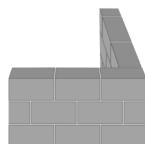
### APPLICATIONS/TRADES

- Timber bottom & top plate tie down.
- Medium load applications into brick & block.
- Temporary fixings - event barriers / hand rails.

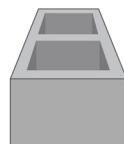
### SUBSTRATE SUITABILITY



UNCRACKED CONCRETE



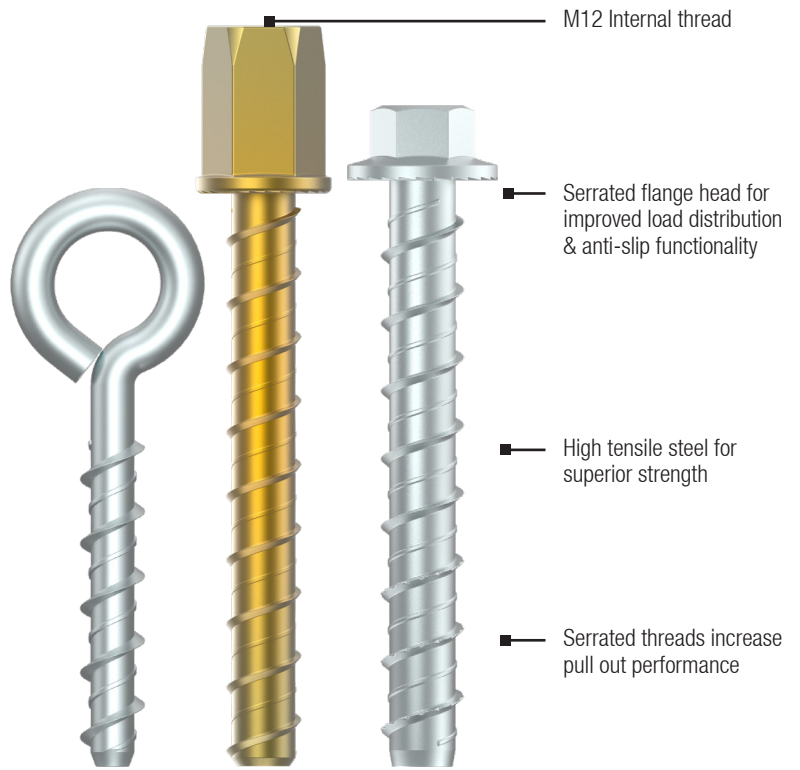
SOLID & HOLLOW BRICK



SOLID & HOLLOW BLOCK



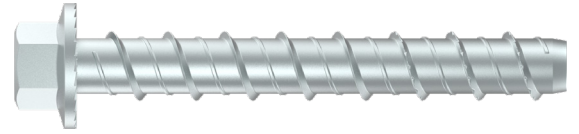
NATURAL STONE



# SCREW ANCHOR

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### RANGE

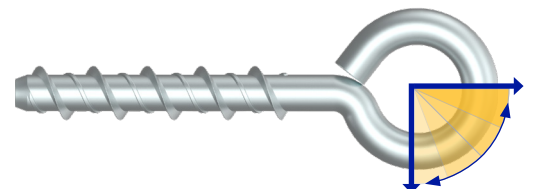


#### HEXAGONAL FLANGE HEAD

Product Code	Pack Qty	Anchor/Drill hole Ø (mm)	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth (mm) @ $t_{fix, max}$	Minimum embedment depth (mm) @ $t_{fix, max}$	Fixture clearance hole Ø (mm)
			$l_t$	$t_{fix, max}$	$h_1$	$h_{nom}$	$d_f$
ASBMZ050502	100	5	50	25	30	25	9
ASBMZ060302	100	6	30	5	35	25	10
ASBMZ060502	100	6	50	20	40	30	10
ASBMZ060752	100	6	75	45	40	30	10
ASBMZ061002	100	6	100	70	40	30	10
ASBMZ080502	100	8	50	10	50	40	12
ASBMZ080602	100	8	60	20	50	40	12
ASBMZ080752	100	8	75	35	50	40	12
ASBMZ081002	100	8	100	60	50	40	12
ASBMZ100602	50	10	60	10	60	50	14
ASBMZ100752	50	10	75	25	60	50	14
ASBMZ101002	50	10	100	50	60	50	14
ASBMZ101202	20	10	120	70	60	50	14
ASBMZ101502	20	10	150	100	60	50	14
ASBMZ120752	50	12	75	15	75	60	16
ASBMZ121002	50	12	100	40	75	60	16
ASBMZ121502	20	12	150	90	75	60	16
ASBMZ160752	10	16	75	5	90	70	20
ASBMZ161002	10	16	100	20	100	80	20
ASBMZ161502	10	16	150	70	100	80	20

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)

### RANGE



#### EYE BOLT

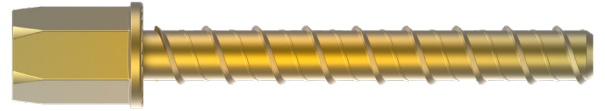
Product Code	Pack Qty	Anchor/Drill hole Ø (mm)	Anchor length (mm)	Drill hole depth (mm) @ $t_{fix, max}$	Minimum embedment depth (mm) @ $t_{fix, max}$
			$l_t$	$h_1$	$h_{nom}$
ASEMZ080552	50	8	55	70	55

Capacity of Eyebolt variant limited to 50kg load applied as shown

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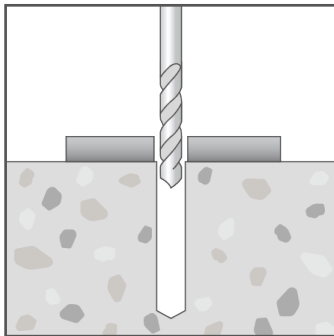
### RANGE



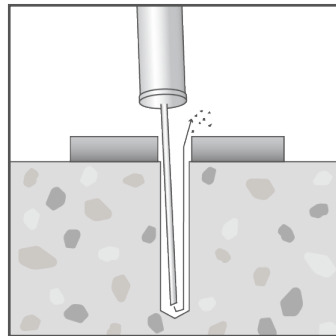
#### TIMBER BOTTOM & TOP PLATE TIE DOWN

Product Code	Pack Qty	Anchor/Drill hole Ø (mm)	Anchor length (mm)	Maximum bottom plate thickness (mm)	Drill hole depth (mm) @ $t_{fix, max}$	Minimum embedment depth (mm) @ $t_{fix, max}$	Fixture clearance hole Ø (mm)
			$l_t$	$t_{fix, max}$	$h_i$	$h_{nom}$	$d_f$
ASIMY121002	25	12	100	45	70	55	16
ASIMY121502	25	12	150	90	75	60	16

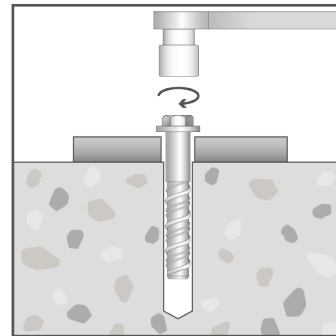
### INSTALLATION



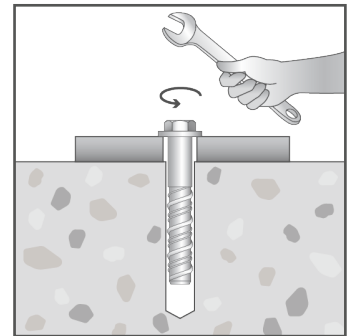
Drill hole through fixture into substrate to the specified diameter and depth



Clear hole of drilling debris.



Insert anchor into hole and screw in using spanner, socket or an impact wrench. Apply constant forward pressure when driving and tighten until the fixture is firmly clamped.



Use hand tools when removing the anchor. Do not remove with power tools if resetting the anchor.

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### PRODUCT INSTALL & PERFORMANCE INFORMATION

Anchor/ Drill hole Ø (mm)	Minimum embedment depth	Minimum substrate thickness	Socket size AF (mm)	Critical anchor spacing (mm)	Critical anchor edge distance (mm)	Recommended Capacity	
						Tensile (kN)	Shear (kN)
$d_{nom} / d_o$	$h_{nom}$	$h_{min}$	SW	$s_{cr}$	$c_{cr}$	$N_{rec}$	$V_{rec}$
5	25	50	8	60	30	1.5	1.7
6	25	50	10	60	30	1.4	1.7
6	30	60	10	75	40	1.9	2.6
8	40	80	15	100	50	3.0	3.9
10	50	100	17	120	60	4.1	5.3
12*	55*	120	19	130	45*	3.7	3.7
12	60	120	19	145	75	5.5	7.6
16	70	140	27	165	85	6.5	9.6
16	80	160	27	195	100	8.4	12.2

- 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  $(N_{app} / N_{rec}) + (V_{app} / V_{rec}) \leq 1.2$ .
  - \* Special case: timber bottom / top plate tie down through a 45mm bottom plate with 45mm edge distance.

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.