

# NON SAFETY CRITICAL

## SCREW ANCHOR

5mm - 16mm

Mechanical Galvanised  
Damp, external applications

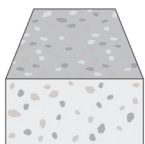
### FEATURES & BENEFITS

- 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.

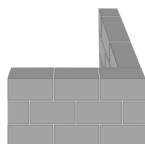
### APPLICATIONS/TRADES

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

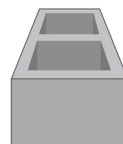
### SUBSTRATE SUITABILITY



UNCRAKED  
CONCRETE



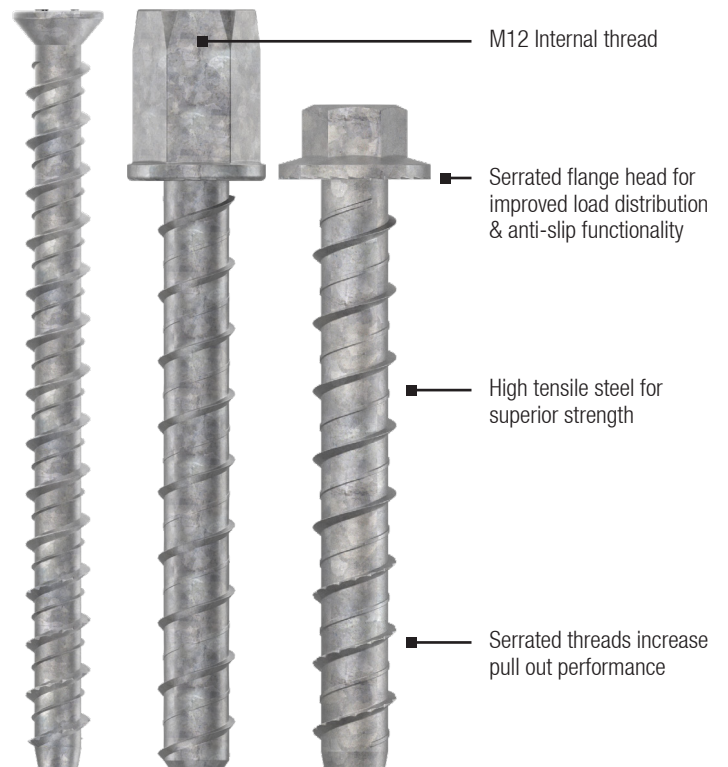
SOLID & HOLLOW  
BRICK



SOLID & HOLLOW  
BLOCK



NATURAL  
STONE



**MECHANICAL  
GALVANISED**

# SCREW ANCHOR

## NON SAFETY CRITICAL

### 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)
			$l_t$	$t_{fix, max}$	$h_1$	$h_{nom}$	$d_f$
ASBMG050502	100	5	50	25	30	25	9
ASBMG060302	100	6	30	5	35	25	10
ASBMG060502	100	6	50	20	40	30	10
ASBMG060752	100	6	75	45	40	30	10
ASBMG061002	100	6	100	70	40	30	10
ASBMG080502	100	8	50	10	50	40	12
ASBMG080602	100	8	60	20	50	40	12
ASBMG080752	100	8	75	35	50	40	12
ASBMG081002	100	8	100	60	50	40	12
ASBMG100602	50	10	60	10	60	50	14
ASBMG100752	50	10	75	25	60	50	14
ASBMG101002	50	10	100	50	60	50	14
ASBMG101252	20	10	125	75	60	50	14
ASBMG101502	20	10	150	100	60	50	14
ASBMG120752	50	12	75	15	75	60	16
ASBMG121002	50	12	100	40	75	60	16
ASBMG121502	20	12	150	90	75	60	16
ASBMG160752	10	16	75	5	90	70	20
ASBMG161002	10	16	100	20	100	80	20
ASBMG161502	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)

# SCREW ANCHOR

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### RANGE

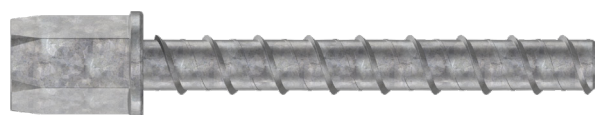


#### COUNTERSUNK HEAD

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)
			$l_t$	$t_{fix, max}$	$h_1$	$h_{nom}$	$d_f$
ASBKG060502	100	6	50	20	40	30	10
ASBKG060752	100	6	75	45	40	30	10
ASBKG061002	100	6	100	70	40	30	10
ASBKG080602	100	8	60	20	50	40	12
ASBKG080752	100	8	75	35	50	40	12
ASBKG081002	100	8	100	60	50	40	12
ASBKG100602	50	10	60	10	60	50	14
ASBKG100752	50	10	75	25	60	50	14
ASBKG101002	50	10	100	50	60	50	14
ASBKG120752	50	12	75	15	75	60	16
ASBKG121002	50	12	100	40	75	60	16
ASBKG121502	20	12	150	90	75	60	16

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



#### TIMBER BOTTOM & TOP PLATE TIE DOWN

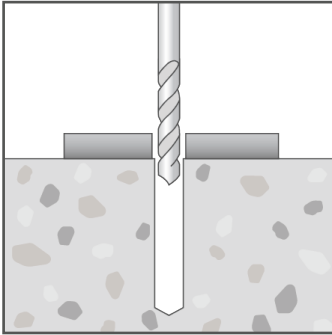
Product Code	Pack Qty	Anchor/Drill hole Ø (mm)	Anchor length (mm)	Maximum bottom plate thickness (mm)	Drill hole depth (mm) @ $t_{fix, max}$	Minimum embedment depth (mm) @ $t_{fix, max}$	Fixture clearance hole Ø (mm)
			$l_t$	$t_{fix, max}$	$h_1$	$h_{nom}$	$d_f$
ASIMG121002	25	12	100	45	70	55	16
ASIMG121502	25	12	150	90	75	60	16

Note: For a bottom plate 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  $(t_{fix, max} - t_{fix, actual})$

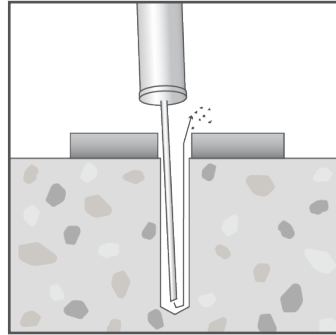
# SCREW ANCHOR

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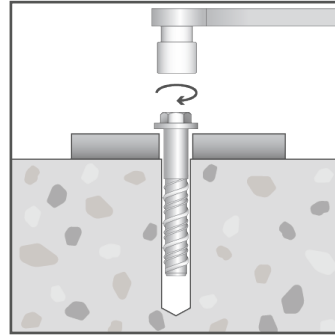
### INSTALLATION



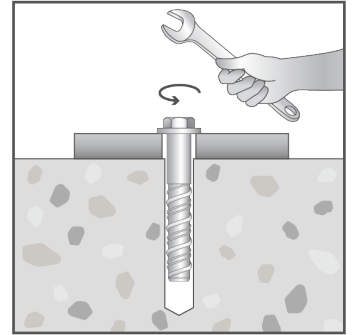
Drill hole through fixture into substrate to the specified diameter and depth



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 Capacities	
						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.