

NON SAFETY CRITICAL

SLEEVE ANCHOR

6.5mm - 20mm sizes

Hot Dip Galvanised Studs
Damp, external applications

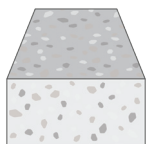
FEATURES & BENEFITS

- Light to medium duty expansion anchor.
- Convenient through fixture fastening.
- Load immediately after installing.
- A wide range of head styles, accomodating a wide range of applications.

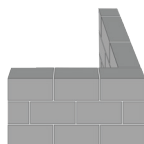
APPLICATIONS/TRADES

- Light to medium load applications into solid brick & block.
- Fixing of signs, gates, handles, grab rails.
- Suspending light fixtures, pipe brackets.
- Shelving unit tie down.

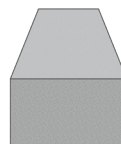
SUBSTRATE SUITABILITY



UNCRAKED
CONCRETE



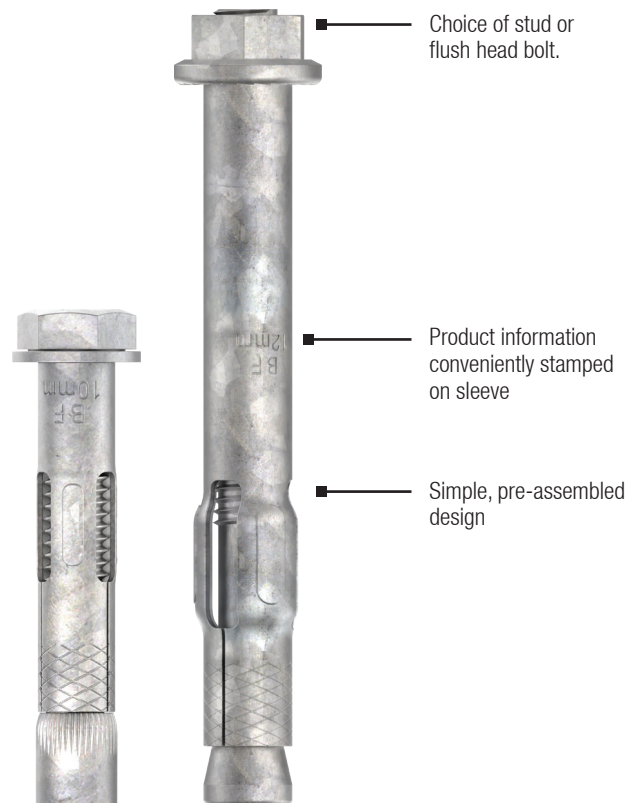
SOLID
BRICK



SOLID
BLOCK



NATURAL
STONE



**HOT DIPPED
GALVANISED**

SLEEVE ANCHOR

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RANGE



HEXAGONAL FLANGE NUT HEAD

Product Code	Pack Qty	Anchor/ Drill hole Ø (mm)	Thread size	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
ASNMG060352	100	6.5	M5	35	5	35	30	8
ASNMG060552	100	6.5	M5	55	20	40	35	8
ASNMG080402	100	8	M6	40	5	45	35	10
ASNMG080652	100	8	M6	65	25	50	40	10
ASNMG080852	50	8	M6	85	45	50	40	10
ASNMG100402	50	10	M8	40	5	45	35	12
ASNMG100502	50	10	M8	50	5	55	45	12
ASNMG100602	50	10	M8	60	10	60	50	12
ASNMG100752	50	10	M8	75	25	60	50	12
ASNMG101002	25	10	M8	100	50	60	50	12
ASNMG101252	25	10	M8	125	75	60	50	12
ASNMG120602	25	12	M10	60	5	70	55	14
ASNMG120752	25	12	M10	75	15	75	60	14
ASNMG121002	20	12	M10	100	40	75	60	14
ASNMG121302	20	12	M10	130	70	75	60	14
ASNMG160652	20	16	M12	65	5	95	60	18
ASNMG161102	10	16	M12	110	30	95	80	18
ASNMG161452	10	16	M12	145	65	95	80	18
ASNMG200752	10	20	M16	75	5	90	70	22
ASNMG201052	5	20	M16	105	10	115	95	22
ASNMG201502	5	20	M16	150	50	120	100	22

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)

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RANGE

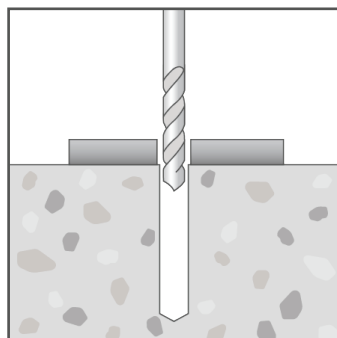


HEXAGONAL FLUSH HEAD

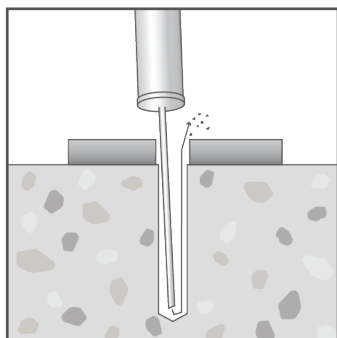
Product Code	Pack Qty	Anchor/ Drill hole Ø (mm)	Thread size	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth (mm) @ $t_{fix, max}$	Minimum embedment depth (mm) @ $t_{fix, max}$	Fixture clearance hole Ø (mm)
				l_t	$t_{fix, max}$	h_1	h_{nom}	d_f
ASFMG100552	50	10	M8	55	5	60	50	12
ASFMG100802	50	10	M8	80	30	60	50	12
ASFMG101002	50	10	M8	100	50	60	50	12
ASFMG120652	50	12	M10	65	5	75	60	14
ASFMG160752	20	16	M12	75	5	85	70	18

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)

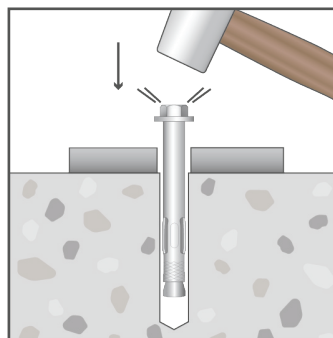
INSTALLATION



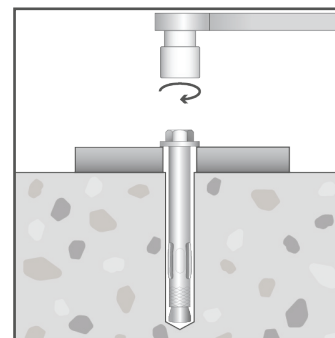
Drill hole through fixture into substrate to the specified diameter and depth.



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.

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PRODUCT INSTALL & PERFORMANCE INFORMATION

Anchor / Drill hole Ø (mm)	Minimum embedment depth	Minimum substrate thickness	Socket size AF (mm)	Installation torque (Nm)	Critical anchor spacing (mm)	Critical anchor edge distance (mm)	Recommended Capacities	
d_{nom} / d_o	h_{nom}	h_{min}	SW	T_{inst}	s_{cr}	c_{cr}	Tension (kN)	Shear (kN)
N_{rec}	V_{rec}							
6.5	30	60	8	3	75	40	1.9	1.8
6.5	35	70	8	3	90	45	1.9	1.8
8	35	70	10	6	85	45	2.3	2.5
8	40	80	10	6	100	50	2.7	2.5
10	35	70	13	11	75	40	2.0	2.8
10	45	90	13	11	105	55	3.4	4.5
10	50	100	13	11	120	60	3.4	4.5
12	55	110	16	22	130	65	4.6	6.1
12	60	120	16	22	145	75	4.7	7.2
16	60	120	18	38	135	70	4.8	7.1
16	80	160	18	38	195	100	7.3	10.5
20	70	140	24	95	150	75	5.8	8.2
20	95	190	24	95	225	115	9.9	15.7
20	100	200	24	95	240	120	9.9	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.