NCC COMPLIANT
AS5216 CONFORMING

THROUGH BOLT
NUT & WASHER

Range M8 - M16

Ceramic Coated
Damp, external applications

Chamfered impact face prevents thread damage during installation

Thread size = hole size, optimising capacity per hole

Long thread accommodates a wide range of fixture thicknesses

CERAMIC COATED

FEATURES & BENEFITS

- Ideal for safety critical & fire rated applications.
- Intended working life of 50 years.
- Comprehensive range from M8 to M16.
- ETA rating - Seismic C1 for all anchor sizes.
- Fire rating to 120 minutes for all anchor sizes.

APPLICATIONS/TRADES

- Structural steel connections to concrete.
- Safety barriers.
- Formwork restraint.
- Bottom plate fixing.
- Racking.

COMPLIANCE

National Construction Code

AS5216

ETA

C1 SEISMIC FIXING

FIRE RESISTANCE F120

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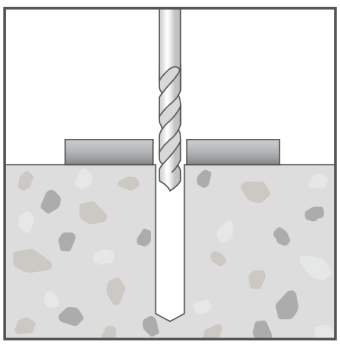
RANGE

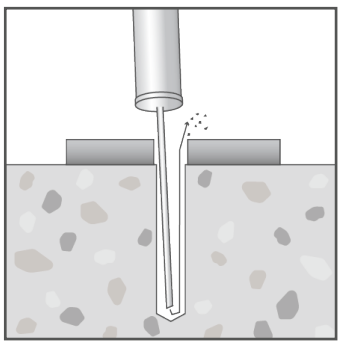
Product Code	Pack Qty	Thread size	Anchor length (mm) l_t	Drill hole Ø (mm) d_o	Drill hole depth (mm) @ tfix, max h_1	Minimum concrete thickness (mm) h_{min}	Maximum fixture thickness (mm) $t_{fix,\ max}$	Fixture clearance hole Ø (mm) d_f
ATBMR08070ETA	100	M8	70	8	65	110	5	9
ATBMR08080ETA	100	M8	80				10	9
ATBMR08095ETA	100	M8	95				25	9
ATBMR08115ETA	100	M8	115				45	9
ATBMR08165ETA	50	M8	165				95	9
ATBMR10095ETA	50	M10	95	10	80	120	15	12
ATBMR10110ETA	50	M10	110				30	12
ATBMR10125ETA	50	M10	125				45	12
ATBMR10140ETA	50	M10	140				60	12
ATBMR10160ETA	50	M10	160				80	12
ATBMR10180ETA	25	M10	180				100	12
ATBMR12110ETA	50	M12	110	12	90	140	15	14
ATBMR12125ETA	50	M12	125				30	14
ATBMR12145ETA	25	M12	145				50	14
ATBMR12165ETA	25	M12	165				70	14
ATBMR12185ETA	25	M12	185				90	14
ATBMR16130ETA	20	M16	130	16	110	160	15	18
ATBMR16145ETA	20	M16	145				30	18
ATBMR16180ETA	20	M16	180				60	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)

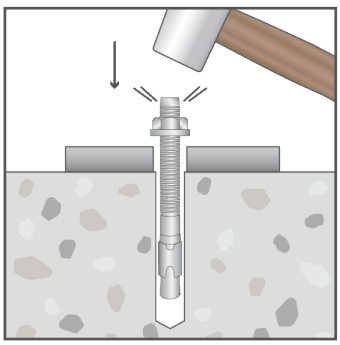
INSTALLATION



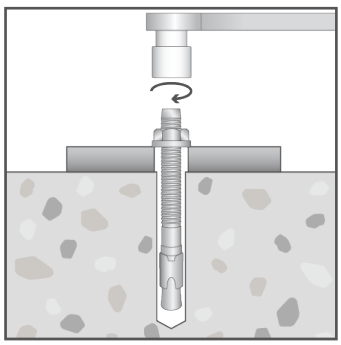
Drill hole through fixture into substrate to the specified diameter and depth.



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

Product Code	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth @ $t_{fix,\ max}$ (mm)	Minimum concrete thickness (mm)	Socket size AF (mm)	Installation torque (Nm)	Design Capacities: Uncracked concrete - tension (kN)	Design Capacities: Uncracked concrete - shear (kN)
	l_t	$t_{fix,\ max}$	h_1	h_{min}	SW	T_{inst}	N_{Rd}	V_{Rd}
ATBMR08070ETA	70	5	65	110	13	20	6.0	6.1
ATBMR08080ETA	80	10						
ATBMR08095ETA	95	25						
ATBMR08115ETA	115	45						
ATBMR08165ETA	165	95						
ATBMR10095ETA	95	15	80	120	17	45	10.0	9.7
ATBMR10110ETA	110	30						
ATBMR10125ETA	125	45						
ATBMR10140ETA	140	60						
ATBMR10160ETA	160	80						
ATBMR10180ETA	180	100						
ATBMR12110ETA	110	15	90	140	19	60	12.0	14.1
ATBMR12125ETA	125	30						
ATBMR12145ETA	145	50						
ATBMR12165ETA	165	70						
ATBMR12185ETA	185	90						
ATBMR16130ETA	130	15	110	160	24	80	17.3	22.7
ATBMR16145ETA	145	30						
ATBMR16180ETA	180	60						

Note: Concrete cylinder compressive strength = 32MPa.
Single anchor capacity - no nearby edge, minimum recommended concrete thickness.
For combined load cases (tension & shear) - must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.

Important Disclaimer: Product performance information contained herein is based on ETA certificate data and AS5216:2021 inputs as appropriate. Capacity information is limited to very simple load case configurations and is provided to enable a relative comparison within and across product ranges. The design of an anchoring solution for a particular application should be conducted by an appropriately qualified design professional.

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