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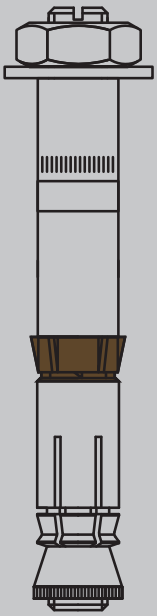
UAT-S

UNDERCUT ANCHOR / THROUGH-SET / 316 (A4) STAINLESS STEEL

316

CERTIFICATION | TDS

Technical Data Sheet



ETA

NCC COMPLIANT AS 5216

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For Customer Support
1800 255 349

Certified System Quality ISO 9001 SAI GLOBAL

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Undercut Anchor, Through-Set,
316 (A4) Stainless Steel

NCC COMPLIANT AS 5216

ETA

- Most reliable and secure heavy-duty anchor for safety-critical applications including tunnels and nuclear facilities
- Easy to install self-undercutting anchor without any need for special drill bits or undercut tools
- A4 (316) stainless steel for corrosive environments, outdoors
- Custom lengths can be available

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

R30 – R120 Fire Rated

Supported by AFOS Anchor Design Software

Anchor Summary

Part Number	Description, Bolt Thread Dia x L	Max. Fixture Thickness, t_{fix}	Effective Anchor Depth, h_{ef}	Embedment Depth, h_{nom}	Drill Hole Dia x Depth, d_o x h_1	Min. Concrete Thickness, h_{min}	Design Capacity in 32MPa Cracked Concrete [1]		Indicative Price Per Fixing [2]
							Tension	Shear	
1948.0080080	M8 x 80mm	**15mm**	40mm	52mm	14 x 60mm	100mm	7.3kN	7.3kN	$30.96
1948.0080130	M8 x 130mm	**65mm**							$54.61
		25mm	80mm	92mm	14 x 100mm	160mm	10.1kN	33.5kN	
1948.0120130	M12 x 130mm	**15mm**	80mm	96mm	20 x 105mm	160mm	20.7kN	41.5kN	$74.90
1948.0120145	M12 x 145mm	**30mm**							$81.06
1948.0160220	M16 x 220mm	**30mm**	150mm	168mm	25 x 185mm	300mm	50.6kN	106.6kN	$182.57
1948.0160280	M16 x 280mm	**90mm**							$196.32
		40mm	200mm	218mm	25 x 235mm	400mm	50.6kN	127.6kN	

1) Without concrete edge or anchor spacing influence. Static and quasi-static load such as wind. To consider all design inputs and details, please refer to our AFOS Anchor Design Software or the ETA.

2) Based on a volume of 40+ to 100+ fixings, as of March 2026.

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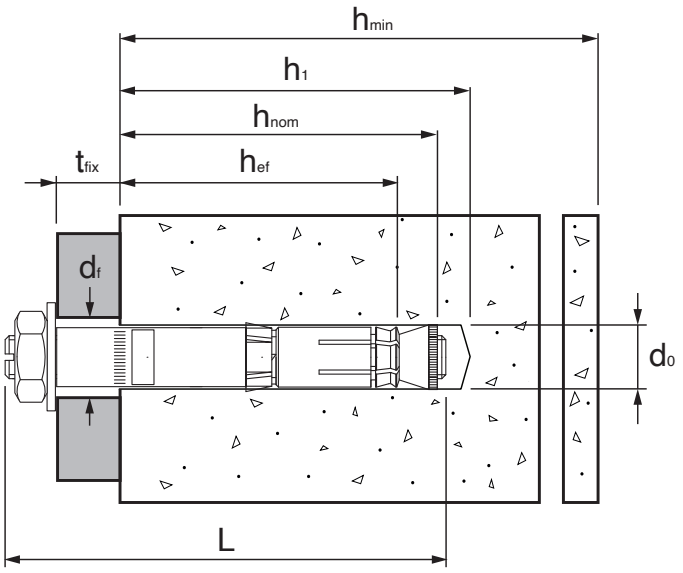
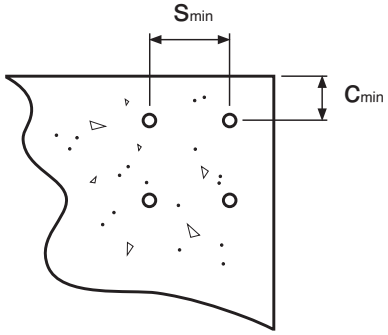
Installation Parameters

Anchor Size			M8		M12		M16	
Effective anchor depth	h_{ef}	[mm]	40	80	80	150	150	200
Embedment depth	h_{nom}	[mm]	52	92	96	166	168	218
Drill hole diameter	d_o	[mm]	14		20		25	
Depth of drill hole	$h_1 \geq$	[mm]	60	100	105	175	185	235
Diameter of clearance hole in fixture	d_f	[mm]	16		21		26	
Installation torque	T_{inst}	[Nm]	25		80		180	
Minimum thickness of concrete member	h_{min}	[mm]	100	160	160	300	300	400
Minimum spacing	s_{min}	[mm]	80	80	150	150	150	180
Minimum edge distance	c_{min}	[mm]	60	50	100	80	100	100





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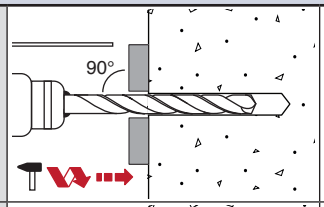
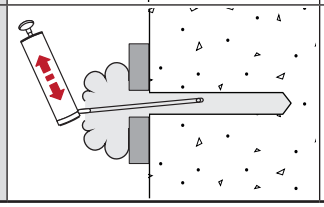
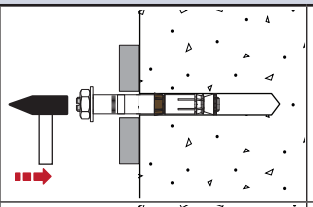
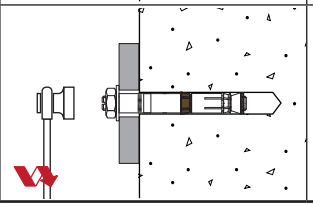
Installation Instructions

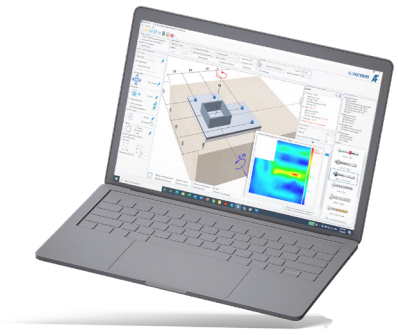
Drill hole preparation and cleaning		
1		Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.

Install undercut anchor through fixture		
3		Drive in anchor.
4		Apply installation torque T_{inst} by using a calibrated torque wrench.

For other anchor properties, please refer to the ETA on our website.

AFOS®
Anchor Design Software

DOWNLOAD **allfasteners.com.au/afos**



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