

UAT-S

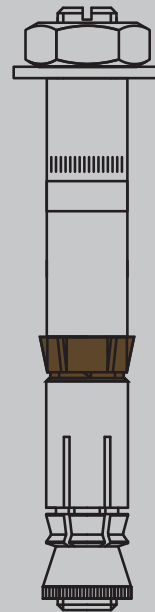
UNDERCUT ANCHOR / THROUGH-SET / 316 (A4) STAINLESS STEEL

316

CERTIFICATION

TDS

Technical Data Sheet



For Install Support

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For Specification Support

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For Customer Support

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UAT-S

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

UAT-S

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



- 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_{fx}	Effective Anchor Depth, h_{ef}	Embedment Depth, h_{nom}	Drill Hole Dia x Depth, $d_o \times h_i$	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							
		25mm	80mm	92mm	14 x 100mm	160mm	10.1kN	33.5kN	\$54.61
1948.0120130	M12 x 130mm	15mm	80mm	96mm	20 x 105mm	160mm	20.7kN	41.5kN	\$74.90
1948.0120145	M12 x 145mm	30mm							
1948.0160220	M16 x 220mm	30mm	150mm	168mm	25 x 185mm	300mm	50.6kN	106.6kN	\$182.57
1948.0160280	M16 x 280mm	90mm							
		40mm	200mm	218mm	25 x 235mm	400mm	50.6kN	127.6kN	\$196.32

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.

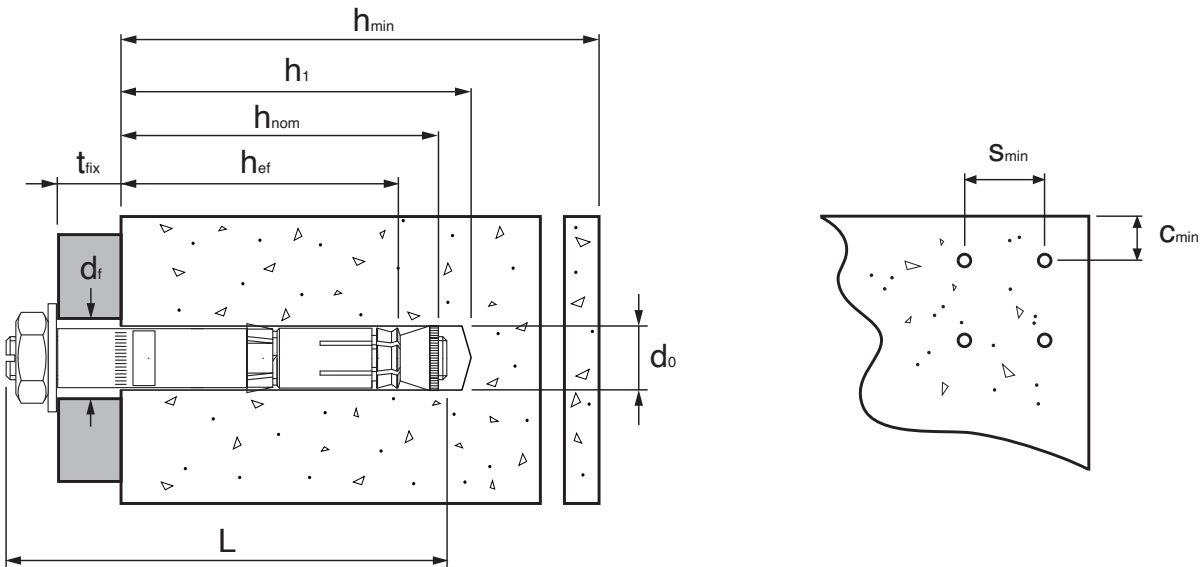
2) Based on a volume of 40+ to 100+ fixings, as of March 2026.

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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



Installation Instructions

Drill hole preparation and cleaning		Install undercut anchor through fixture	
1		<p>Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.</p>	
2		<p>Blow out dust or alternatively vacuum clean down to the bottom of the hole.</p>	
3		<p>Drive in anchor.</p>	
4		<p>Apply installation torque T_{inst} by using a calibrated torque wrench.</p>	

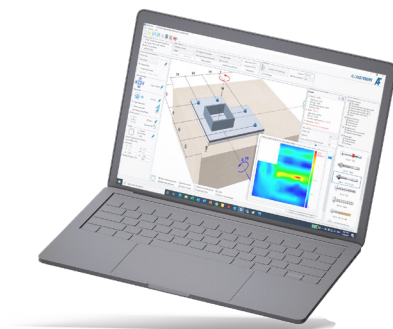
For other anchor properties, please refer to the ETA on our website.



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



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