

SAH-S

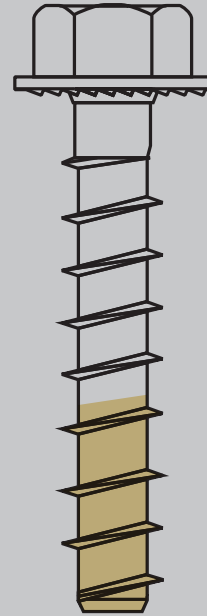
CONCRETE SCREW-ANCHOR HEX HEAD / 316 (A4) STAINLESS STEEL / C1 SEISMIC RATED

316

CERTIFICATION

TDS

Technical Data Sheet



For Install Support

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For Specification Support

engineering@allfasteners.com.au



For Customer Support

1800 255 349

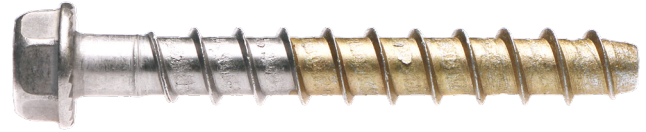


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CONCRETE SCREW-ANCHOR HEX HEAD / 316 (A4) STAINLESS STEEL / C1 SEISMIC RATED

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Concrete Screw-Anchor Hex Head,
316 (A4) Stainless Steel, C1 Seismic Rated



NCC
COMPLIANT
AS 5216



- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, industrial, fencing
- A4 stainless steel for corrosive environments, outdoors

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

C1 Seismic Rated

R30 - R120 Fire Rated

Supported by AFOS Anchor Design Software

Anchor Summary

Part Number	Description, Dia x L	Max. Fixture Thickness, t_{fix}	Embedment Depth, h_{nom}	Effective Anchor Depth, h_{ef}	Drill Hole Dia x Depth, $d_0 \times h_1$	Minimum Concrete Thickness, h_{min}	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
								Tension	Shear	
1048.0060080	6 x 80mm ¹⁾	10mm	70mm ¹⁾	43mm ¹⁾	6 x 80mm	110mm	- / -	2.0kN ¹⁾	2.0kN ¹⁾	\$3.48
1048.0080075	8 x 75mm ¹⁾	23mm	52mm ¹⁾	22mm ¹⁾	8 x 65mm	100mm	- / -	1.6kN ¹⁾	2.0kN ¹⁾	\$4.24
1048.0080100	8 x 100mm	48mm	52mm ¹⁾	22mm ¹⁾	8 x 65mm	100mm	- / -	1.6kN ¹⁾	2.0kN ¹⁾	\$5.15
		15mm	85mm	52mm	8 x 95mm	125mm	✓ / -	4.2kN	10.8kN	
1048.0100105	10 x 105mm	5mm	100mm	59mm	10 x 110mm	140mm	✓ / -	5.9kN	13.0kN	\$6.38
1048.0100115 ⁴⁾	10 x 115mm	15mm	100mm	59mm	10 x 110mm	140mm	✓ / -	5.9kN	13.0kN	\$6.56
1048.0100120	10 x 120mm	20mm	100mm	59mm	10 x 110mm	140mm	✓ / -	5.9kN	13.0kN	\$6.87
1048.0120135	12 x 135mm	15mm	120mm	76mm	12 x 130mm	170mm	✓ / -	11.2kN	31.2kN	\$9.76
1048.0120150	12 x 150mm	30mm	120mm	76mm	12 x 130mm	170mm	✓ / -	11.2kN	31.2kN	\$10.24

1) The anchor at this h_{nom} is to be used only for multiple anchor redundant non-structural systems in concrete. Higher design capacities are possible depending on specific system arrangement (up to 3.0kN).

2) 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.

3) Based on a volume of 300+ to 500+ fixings, as of March 2026.

4) Available on special order only.

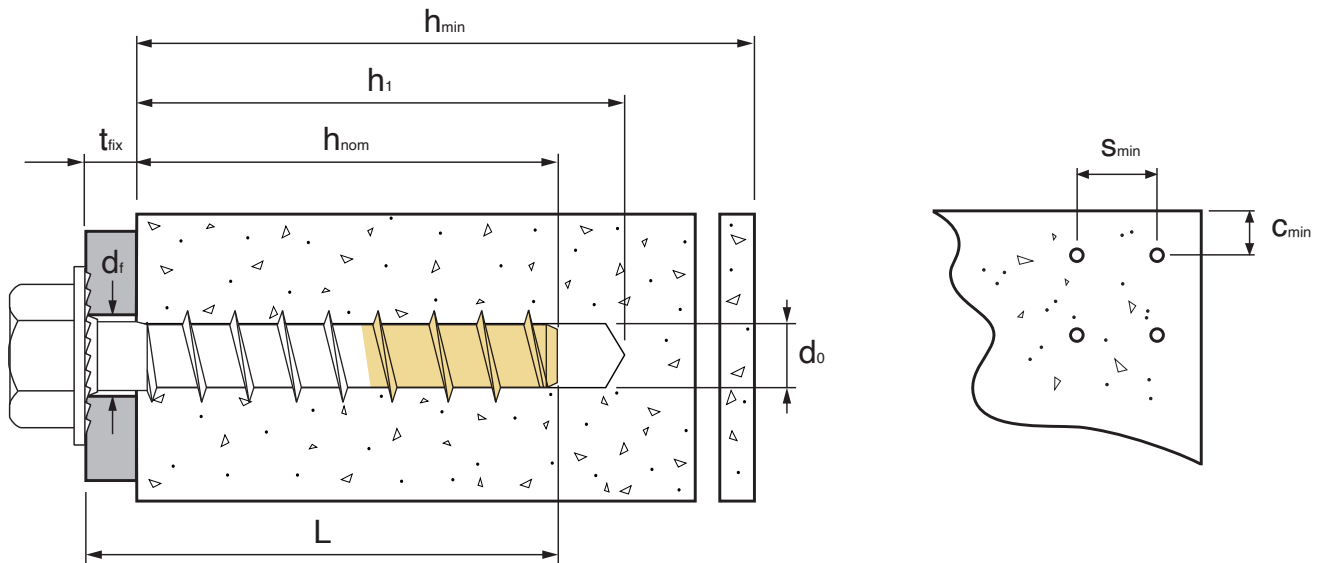
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Installation Parameters

Anchor Size		[mm]	6	8	10	12
Embedment depth	h_{nom}	[mm]	70 ¹⁾	85 (52 ¹⁾)	100	120
Drill hole diameter	d_o	[mm]	6	8	10	12
Depth of drill hole	$h_1 \geq$	[mm]	80	95 (65 ¹⁾)	110	130
Fixture clearance hole diameter	d_f	[mm]	9	11	13	15
Max. power output, power tool setting	T_{max}	[Nm]	120	120 (185 ¹⁾)	185	185
Driver	Hex	[mm]	10	13	17	19
Minimum thickness of concrete member	h_{min}	[mm]	110	125 (100 ¹⁾)	140	170
Minimum spacing	s_{min}	[mm]	40	50 (55 ¹⁾)	60	70
Minimum edge distance	c_{min}	[mm]	40	50 (55 ¹⁾)	60	70

1) For multiple anchor redundant non-structural systems in concrete.



Installation Instructions

Drill hole preparation and cleaning		Install concrete screw-anchor			
1		<p>Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.</p>	3		<p>Screw in the anchor using an impact screw driver to the corresponding torque value / setting / maximum power output. Ensure not to overtighten.</p>
2		<p>Blow out dust or alternatively vacuum clean down to the bottom of the hole.</p>	4		<p>Check to ensure that you have full contact of screw head with fixture.</p>

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



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



Important Note: Whilst all reasonable care is taken in compiling technical data on the Company's products, all information, recommendations, or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable, and that in the light of our continual research and development programme the information relating to each product has not been superseded. Allfasteners, its agencies and employees, disclaim any and all liability in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

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