

SAH-G

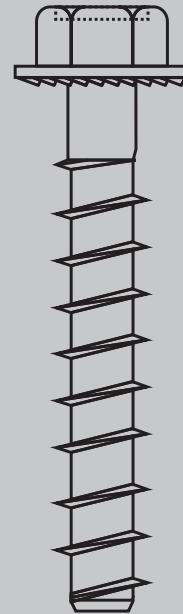
CONCRETE SCREW-ANCHOR HEX HEAD / GALVANISED / C1 SEISMIC RATED

GAL

CERTIFICATION

TDS

Technical Data Sheet



NCC
COMPLIANT
AS 5216



For Install Support

techadvice@allfasteners.com.au



For Specification Support

engineering@allfasteners.com.au



For Customer Support

1800 255 349



Quality
ISO 9001
SAI GLOBAL

SAH-G

CONCRETE SCREW-ANCHOR HEX HEAD / GALVANISED / C1 SEISMIC RATED

SAH-G

Concrete Screw-Anchor Hex Head,
Galvanised, C1 Seismic Rated



- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, industrial, fencing
- Galvanised (**60µm min.**) Market-leading coating thickness.

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 _o x h _i	Minimum Concrete Thickness, h _{min}	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
								Tension	Shear	
1047.0060075	6 x 75mm ¹⁾	20mm	55mm	43mm	6 x 64mm	100mm	- / -	2.0kN ¹⁾	2.0kN ¹⁾	\$0.78
1047.0060100	6 x 100mm ¹⁾	45mm								\$1.01
1047.0080075	8 x 75mm	10mm	65mm	51mm	8 x 75mm	110mm	✓ / -	4.2kN	10.4kN	\$1.35
1047.0080100	8 x 100mm	35mm								\$1.56
1047.0100085	10 x 85mm	10mm	75mm	58mm	10 x 85mm	130mm	✓ / -	8.4kN	12.8kN	\$1.82
1047.0100100	10 x 100mm	25mm								\$1.91
1047.0100120	10 x 120mm	45mm								\$2.37
1047.0100150	10 x 150mm	75mm								\$2.81
1047.0120100	12 x 100mm	5mm	95mm	75mm	12 x 105mm	160mm	✓ / -	11.2kN	26.0kN	\$2.95
1047.0120125	12 x 125mm	30mm								\$3.69
1047.0120150	12 x 150mm	55mm								\$4.18
1047.0160100	16 x 100mm ⁴⁾	5mm	95mm	74mm	16 x 105mm	170mm	- / -	24.4kN ⁴⁾	36.8kN ⁴⁾	\$4.34
1047.0160150	16 x 150mm ⁴⁾	55mm								\$6.07

1) The 6mm anchor 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 600+ to 1000+ fixings, as of March 2026.

4) The 16mm anchor is not NCC compliant in the absence of ETA data for this diameter. Capacities are given for uncracked concrete only with an ULS capacity reduction factor of 0.6.

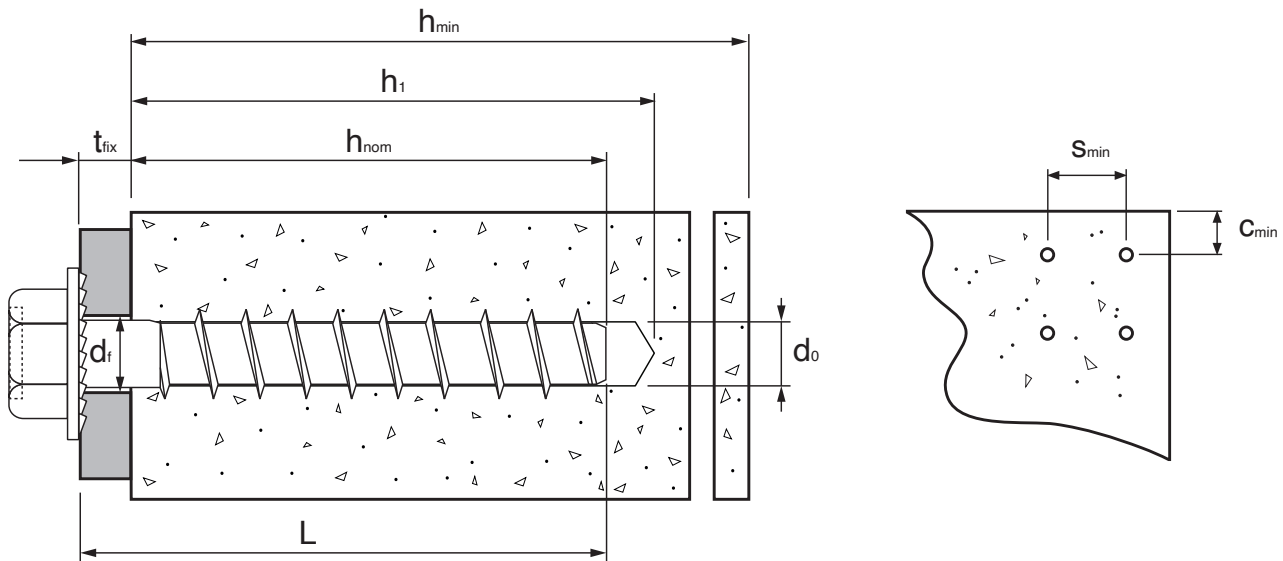
SAH-G

CONCRETE SCREW-ANCHOR HEX HEAD / GALVANISED / C1 SEISMIC RATED

Installation Parameters

Anchor Size		[mm]	6	8	10	12	16
Embedment depth	h_{nom}	[mm]	55	65	75	95	95
Drill hole diameter	d_o	[mm]	6	8	10	12	16
Depth of drill hole	$h_1 \geq$	[mm]	64	75	85	105	105
Fixture clearance hole diameter	d_f	[mm]	9	11	13	15	19
Installation torque (torque wrench)	T_{inst}	[Nm]	20	40	60	80	100
Max. power output, power tool setting	T_{max}	[Nm]	80	185	350	350	450
Driver	Hex	[mm]	10	13	17	19	24
Minimum thickness of concrete member	h_{min}	[mm]	100	110	130	160	170
Minimum spacing	s_{min}	[mm]	40	50	60	70	90
Minimum edge distance	c_{min}	[mm]	40	50	60	70	90

The minimum embedment depths are specified based on ETA values tested and are required for NCC compliance and design according to AS 5216. For non-safety critical applications, smaller embedment can be used.



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 anchor by using a torque wrench or impact driver. Apply installation torque T_{inst} by using a calibrated torque wrench or by tool setting T_{max} if using an impact driver. 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.

Allfasteners[®] 78-84 Logistics Street Keilor Park VIC 3042 Australia +61 3 9330 0555 Allfasteners Pty Ltd. ACN 113 948 100 ABN 86 766 075 300
Copyright © 2026. The contents of this document remains the property of Allfasteners[®] and may not be reproduced without prior written permission.