

SAH-G CONCRETE SCREW-ANCHOR HEX HEAD / GALVANISED



CERTIFICATION

TDS

Technical Data Sheet









For Install Support

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For Specification Support

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For Customer Support

1800 255 349

SAH-G

Concrete Screw-Anchor Hex Head, Galvanised







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

ETA cracked and uncracked concrete

R30 - R120 fire rated

Supported by AFOS anchor design software

Anchor Summary

Part Number	Description, Dia x L	Max. Fixture Thickness, t _{fix}	Embedment	Drill Hole Dia x Depth,	Minimum Concrete	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per
			Depth, h _{nom}	d _o x h ₁	Thickness, h _{min}	Tension	Shear	Fixing ³⁾
1SAHG06075	6 x 75mm ¹⁾	20mm	55mm	6 x 64mm	100mm	2.0kN¹)	2.0kN ¹⁾	\$0.71
1SAHG06100	6 x 100mm ¹⁾	45mm	3311111					\$0.91
1SAHG08075	8 x 75mm	10mm	CF	8 x 75mm	110mm	2.7kN	10.4kN	\$1.21
1SAHG08100	8 x 100mm	35mm	65mm					\$1.41
1SAHG10085	10 x 85mm	10mm		10 x 85mm	130mm	8.4kN	12.8kN	\$1.64
1SAHG10100	10 x 100mm	25mm	75					\$1.72
1SAHG10120	10 x 120mm	45mm	75mm					\$2.14
1SAHG10150	10 x 150mm	75mm						\$2.53
1SAHG12100	12 x 100mm	5mm		12 x 105mm	160mm	8.4kN	26.0kN	\$2.81
1SAHG12125	12 x 125mm	30mm	95mm					\$3.41
1SAHG12150	12 x 150mm	55mm						\$4.01
1SAHG16100	16 x 100mm ⁴⁾	5mm	95mm	16 x 105mm	170mm	33.0kN ⁴⁾	36.8kN ⁴⁾	\$3.87
1SAHG16150	16 x 150mm ⁴⁾	55mm	וווווונפ					\$5.41

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. This table contains preliminary design information only. Please refer to our AFOS Anchor Design Software and the ETA for more details.

³⁾ Based on a volume of 400+ to 1000+ fixings, as of January 2023.

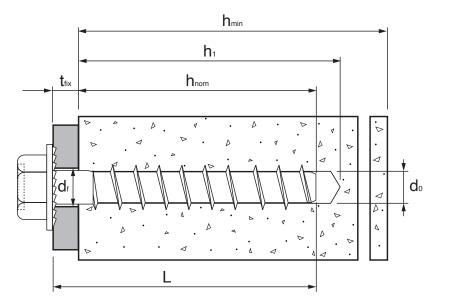
⁴⁾ The 16mm anchor is not NCC compliant in the absence of ETA data for this diameter. Capacities are given for uncracked concrete only with an ULS capacity reduction factor of 0.6.

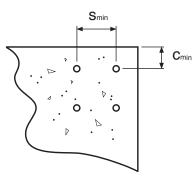


Installation Parameters

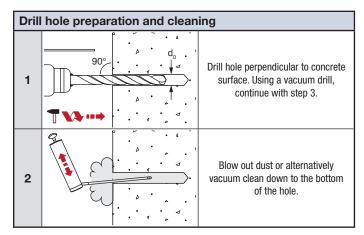
Anchor Size			6	8	10	12	16
Nominal diameter of drill bit	d _o	[mm]	6	8	10	12	16
Fixture clearance hole diameter	d _f	[mm]	9	11	13	15	19
Minimum edge distance	C _{min}	[mm]	40	50	60	70	90
Minimum spacing	S _{min}	[mm]	40	50	60	70	90
Nominal installation torque (torque wrench)	T _{inst}	[Nm]	20	40	60	80	100
Max. power output, power tool setting	T _{max}	[Nm]	80	185	350	350	450

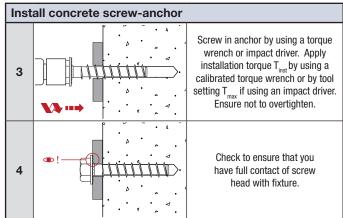
The minimum embedment depths are specified based on ETA values tested and are required for NCC compliance and design according to AS 5216. For non-safety critical applications, smaller embedment can be used.





Installation Instructions:





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





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