

SAH-Z

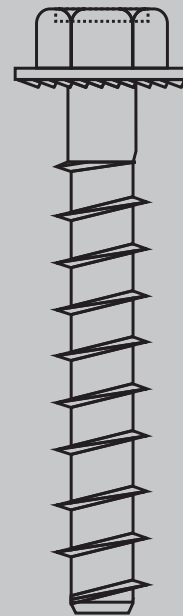
CONCRETE SCREW-ANCHOR HEX HEAD / ZINC PLATED / C1 SEISMIC RATED

ZP

CERTIFICATION

TDS

Technical Data Sheet



NCC
COMPLIANT
AS 5216



For Install Support

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Quality
ISO 9001
SAI GLOBAL

SAH-Z

CONCRETE SCREW-ANCHOR HEX HEAD / ZINC PLATED / C1 SEISMIC RATED

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Concrete Screw-Anchor Hex Head,
Zinc Plated, C1 Seismic Rated



- Connecting structural steel or timber to concrete
- Balustrades, building services, height access systems, industrial, fencing
- Zinc plated (5µm min.) for dry internal conditions, or temporary works

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_{fx}	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 ¹⁾		Indicative Price Per Fixing ²⁾
								Tension	Shear	
1049.0080075	8 x 75mm	10mm	65mm	51mm	8 x 75mm	110mm	✓ / -	4.2kN	10.4kN	\$1.04
1049.0080100	8 x 100mm	35mm	65mm	51mm	8 x 75mm	110mm	✓ / -	4.2kN	10.4kN	\$1.30
1049.0100100	10 x 100mm	25mm	75mm	58mm	10 x 85mm	130mm	✓ / -	8.4kN	12.8kN	\$1.69
1049.0100120	10 x 120mm	45mm	75mm	58mm	10 x 85mm	130mm	✓ / -	8.4kN	12.8kN	\$1.91
1049.0120100	12 x 100mm	5mm	95mm	75mm	12 x 105mm	160mm	✓ / -	11.2kN	26.0kN	\$1.97
1049.0120150	12 x 150mm	55mm	95mm	75mm	12 x 105mm	160mm	✓ / -	11.2kN	26.0kN	\$3.07

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 1000+ fixings, as of March 2026.

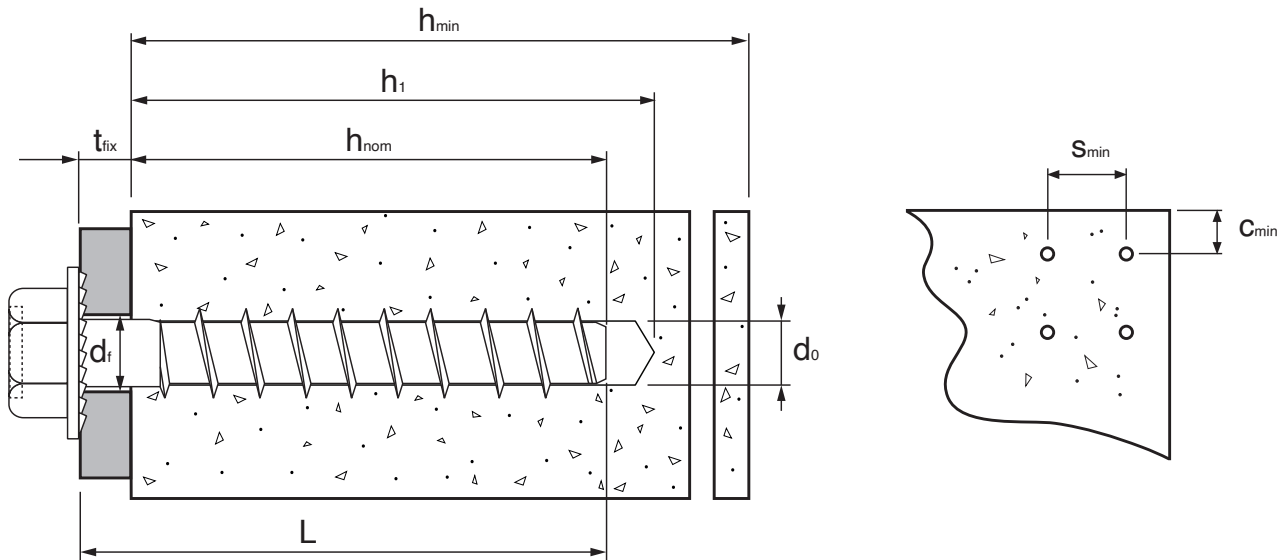
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Installation Parameters

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

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 Instruction

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>

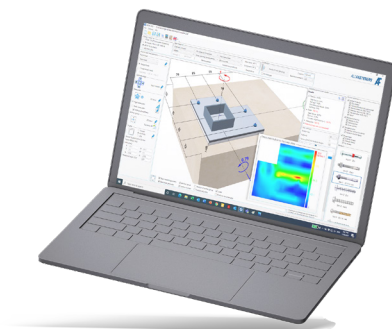
For other anchor properties, please refer to the ETA on our website.



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



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