ALLFASTENERS .COM.AU

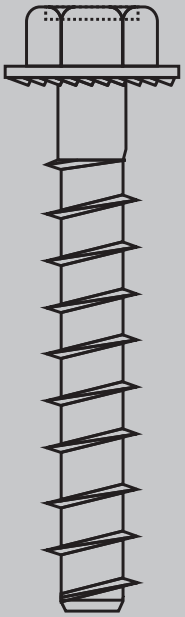
XSAH-S2

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

316

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

Certified System Quality ISO 9001 SAI GLOBAL

XSAH-S2

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

High Performance ● ● ● ● ●

NCC COMPLIANT AS 5216

ETA

- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems
- Multiple embedments available
- Small spacings and edge distances
- 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 x h_0	Min. Concrete Thickness, h_{min}	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete [2]		Indicative Price Per Fixing [3]
								Tension	Shear	
1075.0060060	6 x 60mm	**25mm**	35mm [1]	25mm [1]	6 x 40mm	80mm	- / -	2.0kN [1]	2.0kN [1]	$6.18
		15mm	45mm	34mm	6 x 50mm		✓ / -	1.1kN	5.6kN	
		5mm	55mm	42mm	6 x 60mm	100mm	✓ / -	2.5kN	5.6kN	
1075.0080080	8 x 80mm	**35mm**	45mm	32mm	8 x 55mm	80mm	✓ / -	2.5kN	10.8kN	$8.30
		25mm	55mm	41mm	8 x 65mm	100mm	- / -	4.6kN	10.8kN	
		15mm	65mm	49mm	8 x 75mm	120mm	✓ / -	6.7kN	13.6kN	
1075.0100090	10 x 90mm	**35mm**	55mm	40mm	10 x 65mm	100mm	✓ / -	5.0kN	18.0kN	$12.98
		15mm	75mm	57mm	10 x 85mm	130mm	- / -	10.4kN	27.2kN	
		5mm	85mm	65mm	10 x 95mm	130mm	✓ / -	13.6kN	27.2kN	
1075.0100120	10 x 120mm	**65mm**	55mm	40mm	10 x 65mm	100mm	✓ / -	5.0kN	18.0kN	$13.24
		45mm	75mm	57mm	10 x 85mm	130mm	- / -	10.4kN	27.2kN	
		35mm	85mm	65mm	10 x 95mm	130mm	✓ / -	13.6kN	27.2kN	

1) For embedment h_{nom} = 35mm, the fixing is to be used only for multiple anchor redundant non-structural systems in concrete. Higher design capacities are possible depending on specific system arrangements (up to 3.0kN shear).

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 500+ to 1000+ fixings, as of March 2026.

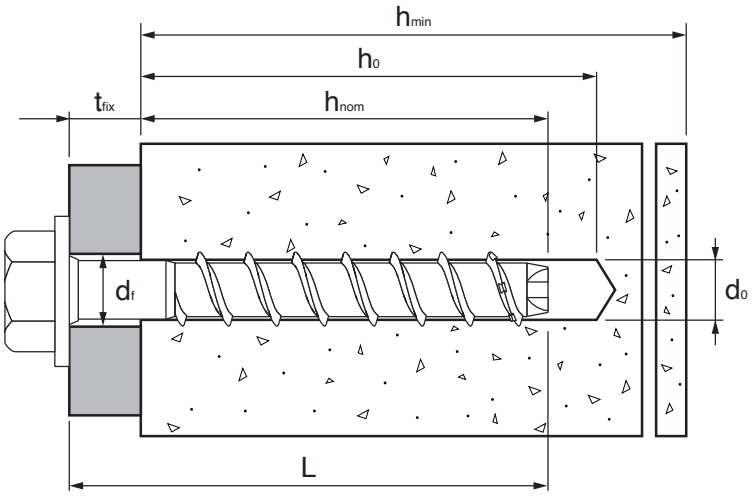
XSAH-S2

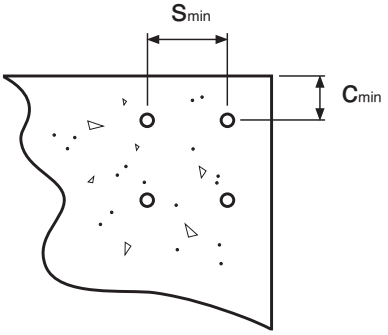
CONCRETE SCREW-ANCHOR HEX HEAD / 316 (A4) STAINLESS STEEL / C1 SEISMIC RATED

Installation Parameters

Anchor Size		[mm]	6			8			10		
Embedment depth	h_{nom}	[mm]	35	45	55	45	55	65	55	75	85
Drill hole diameter	d_0	[mm]	6			8			10		
Depth of drill hole	$h_o \geq$	[mm]	40	50	60	55	65	75	65	85	95
Diameter of clearance hole in fixture	$d_f \leq$	[mm]	8			12			14		
Tangential impact screw driver[1)]	$T_{imp,max}$	[Nm]	160			300			450		
Driver	Hex	[mm]	13			13			15		
Minimum thickness of concrete member	h_{min}	[mm]	80		100	80	100	120	100	130	
Minimum spacing	s_{min}	[mm]	35			35			40		
Minimum edge distance	c_{min}	[mm]	35			35			40		

1) Installation with tangential impact screw driver, with maximum power output $T_{imp,max}$ according to manufacturer's instructions is possible.

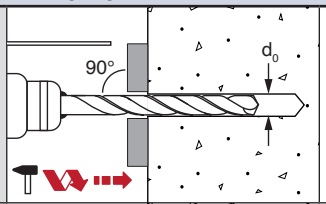
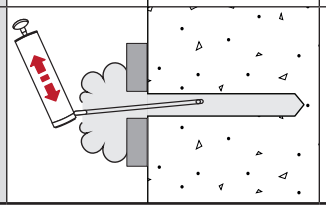


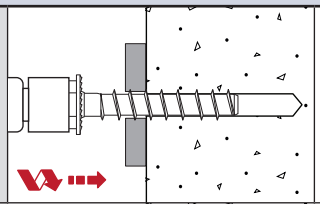
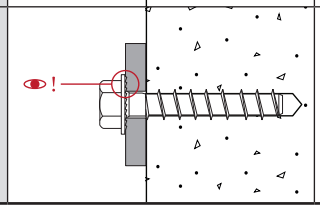


XSAH-S2

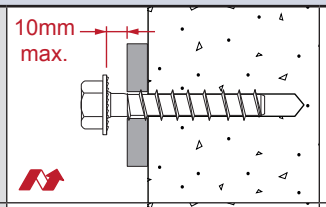
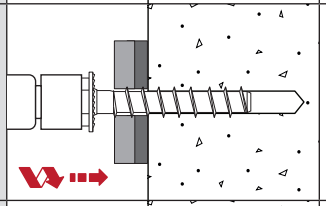
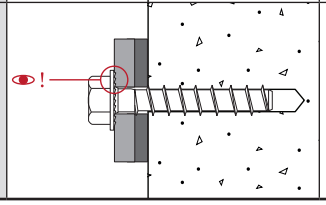
CONCRETE SCREW-ANCHOR HEX HEAD / 316 (A4) STAINLESS STEEL / C1 SEISMIC RATED

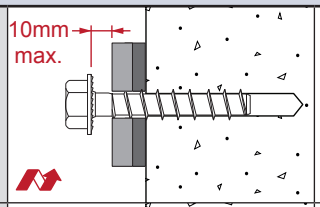
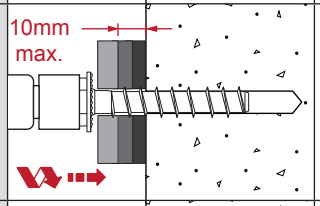
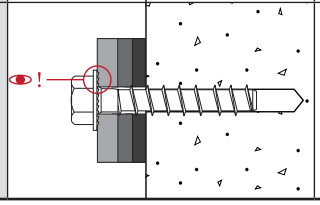
Installation Instructions

Drill hole preparation and cleaning		
1		Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.

Install concrete screw-anchor		
3		Screw in the anchor using an impact screw driver to the corresponding torque value / setting / maximum power output. Ensure not to overtighten.
4		Check to ensure that you have full contact of screw head with fixture. Head must be undamaged.

Adjustment (if needed)

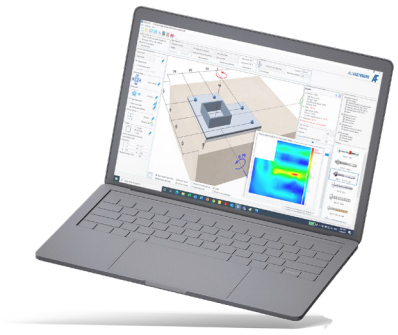
Adjustment 1		
5		Anchor maybe untightened maximum 10mm.
6		After adjustment, screw in the anchor with a tangential impact driver to $T_{imp,max}$.
7		After initial adjustment the anchor must be in full contact with fixture. Head must remain undamaged.

Adjustment 2		
8		Anchor maybe untightened a second time by maximum 10mm.
9		After adjustment, screw in the anchor with a tangential impact driver to $T_{imp,max}$.
10		After the second adjustment the anchor must be in full contact with fixture. Head must remain undamaged.

Notes:

1. Adjustment is permitted for fixings except for anchors with filled borehole and anchors with seismic action.
2. The anchor may be adjusted max. 2 times. The anchor must not be screwed back by more than 10mm in each case. The relining carried out during adjustments must not exceed 10mm in total. Specified embedment depth, h_{nom}, must still be maintained after adjustment.

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



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