

XSAH-Z

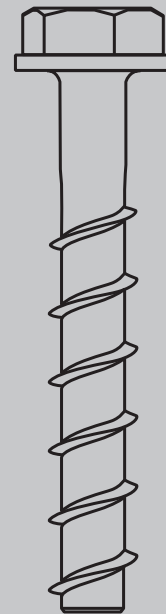
CONCRETE SCREW-ANCHOR HEX HEAD / ZINC PLATED / C1 & C2 SEISMIC RATED

ZP

CERTIFICATION

TDS

Technical Data Sheet



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

XSAH-Z

CONCRETE SCREW-ANCHOR HEX HEAD / ZINC PLATED / C1 & C2 SEISMIC RATED

XSAH-Z

 Concrete Screw-Anchor Hex Head,
Zinc Plated, C1 & C2 Seismic Rated

High Performance ●●●●●


 NCC
COMPLIANT
AS 5216


- Connecting structural steel or timber to concrete
- Lengths of up to 320mm
- Balustrades, building services, height access systems, temporary works
- Zinc Plated ($\geq 5\mu\text{m}$) for dry internal environments or temporary works

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

C1 & C2 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, $d_0 \times h_1$	Min. Concrete Thickness, h_{min}	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾					
								Tension	Shear						
1076.0060040	6 x 40mm	5mm	35mm ¹⁾	27mm ¹⁾	6 x 40mm	80mm	- / -	0.7kN ¹⁾	0.7kN ¹⁾	\$0.65					
1076.0060050	6 x 50mm	15mm	40mm	31mm	6 x 45mm		✓ / -	1.6kN	5.0kN	\$0.68					
		10mm					35mm ¹⁾	27mm ¹⁾	6 x 40mm		- / -	0.7kN ¹⁾	0.7kN ¹⁾		
1076.0060060	6 x 60mm	25mm	40mm	31mm	6 x 45mm		✓ / -	1.6kN	5.0kN	\$0.78					
		5mm	55mm	44mm	6 x 60mm		- / -	0.7kN ¹⁾	0.7kN ¹⁾						
		45mm	35mm ¹⁾	27mm ¹⁾	6 x 40mm		✓ / -	3.3kN	5.6kN						
1076.0060080	6 x 80mm	40mm	40mm	31mm	6 x 45mm		- / -	0.7kN ¹⁾	0.7kN ¹⁾	\$1.06					
		25mm	55mm	44mm	6 x 60mm		✓ / -	1.6kN	5.0kN						
1076.0080060	8 x 60mm	15mm	45mm	35mm	8 x 55mm		80mm	- / -	4.2kN	6.0kN	\$1.38				
		5mm	55mm	43mm	8 x 65mm			✓ / ✓	7.5kN	8.1kN					
1076.0080070	8 x 70mm	25mm	45mm	35mm	8 x 55mm	- / -		4.2kN	6.0kN	\$1.47					
		15mm	55mm	43mm	8 x 65mm	✓ / ✓		7.5kN	8.1kN						
		5mm	65mm	52mm	8 x 75mm	- / -		4.2kN	6.0kN						
1076.0080100	8 x 100mm	55mm	45mm	35mm	8 x 55mm	- / -		4.2kN	6.0kN	\$1.91					
		45mm	55mm	43mm	8 x 65mm	✓ / ✓		7.5kN	8.1kN						
1076.0100060	10 x 60mm	5mm	55mm	43mm	10 x 65mm	80mm		✓ / ✓	10.1kN	10.8kN	\$2.03				
1076.0100070	10 x 70mm	15mm						75mm	60mm	10 x 85mm		90mm	- / -	13.5kN	27.0kN
1076.0100090	10 x 90mm	5mm						85mm	68mm	10 x 95mm		102mm	✓ / ✓	16.2kN	27.2kN

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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, $d_o \times h_i$	Min. Concrete Thickness, h_{min}	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
								Tension	Shear	
1076.0100120	10 x 120mm	65mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$2.53
		45mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		35mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0100160	10 x 160mm	105mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$3.59
		85mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		75mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0100200 ⁴⁾	10 x 200mm	141mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$6.19
		121mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		111mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0100240 ⁴⁾	10 x 240mm	181mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$6.78
		161mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		151mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0100280 ⁴⁾	10 x 280mm	221mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$7.64
		201mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		191mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0100320 ⁴⁾	10 x 320mm	261mm	55mm	43mm	10 x 65mm	80mm	✓ / -	7.5kN	8.1kN	\$8.97
		241mm	75mm	60mm	10 x 85mm	90mm	- / -	13.5kN	27.0kN	
		231mm	85mm	68mm	10 x 95mm	102mm	✓ / ✓	16.2kN	27.2kN	
1076.0120110	12 x 110mm	45mm	65mm	50mm	12 x 75mm	80mm	- / -	10.1kN	10.2kN	\$6.57
		25mm	85mm	67mm	12 x 95mm	101mm	- / -	15.9kN	31.8kN	
		10mm	100mm	80mm	12 x 110mm	120mm	✓ / ✓	20.7kN	33.6kN	
1076.0120150	12 x 150mm	85mm	65mm	50mm	12 x 75mm	80mm	- / -	10.1kN	10.2kN	\$7.58
		65mm	85mm	67mm	12 x 95mm	101mm	- / -	15.9kN	31.8kN	
		50mm	100mm	80mm	12 x 110mm	120mm	✓ / ✓	20.7kN	33.6kN	
1076.0140130	14 x 130mm	55mm	75mm	58mm	14 x 85mm	87mm	- / -	12.8kN	12.8kN	\$10.16
		30mm	100mm	79mm	14 x 110mm	119mm	- / -	20.3kN	40.7kN	
		15mm	115mm	92mm	14 x 125mm	138mm	✓ / ✓	25.6kN	44.8kN	
1076.0140150	14 x 150mm	75mm	75mm	58mm	14 x 85mm	87mm	- / -	12.8kN	12.8kN	\$11.69
		50mm	100mm	79mm	14 x 110mm	119mm	- / -	20.3kN	40.7kN	
		35mm	115mm	92mm	14 x 125mm	138mm	✓ / ✓	25.6kN	44.8kN	

1) For embedment $h_{nom}=35mm$, the fixing is to be used only for multiple anchor redundant non-structural systems in concrete and pre-stressed hollow core slabs. Higher design capacities are possible depending on specific system arrangement (up to 2.5kN tension and 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 1000+ fixings, as of March 2026.

4) Comes with a 44x4mm oversized removable washer



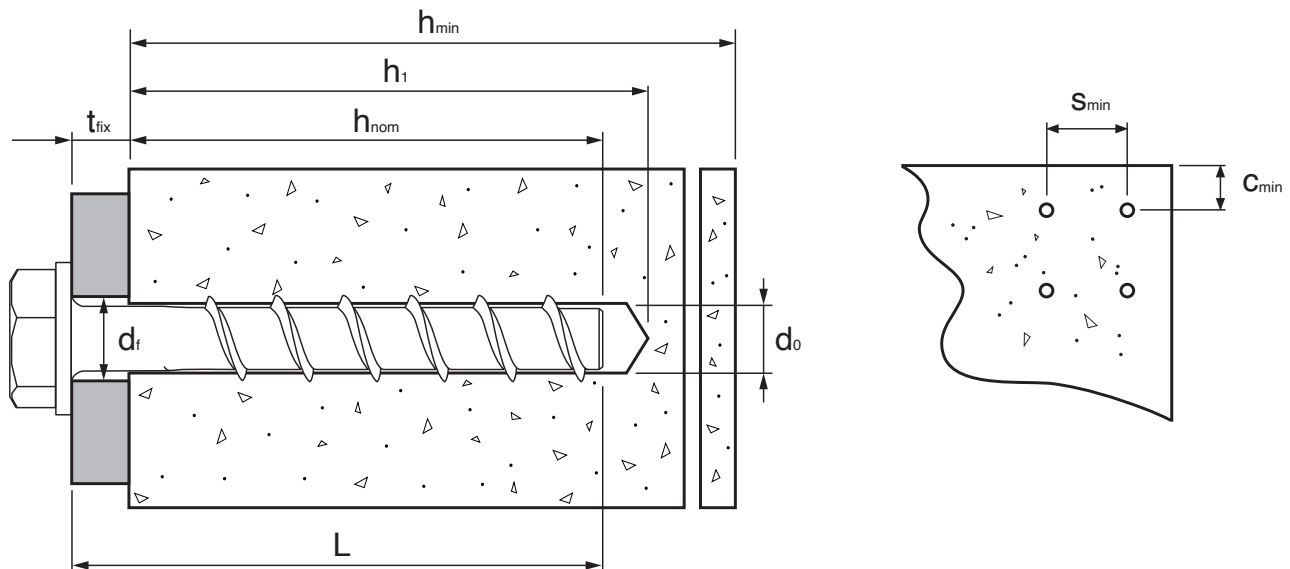
Structural Timber to Concrete Connections

- 10mm XSAH-Z anchors
- Lengths: 200mm, 240mm 280mm and 320mm
- Removable oversized washer 44 x 4mm

Installation Parameters

Anchor Size		[mm]	6			8			10			12			14		
Embedment depth	h_{nom}	[mm]	35	40	55	45	55	65	55	75	85	65	85	100	75	100	115
Drill hole diameter	d_o	[mm]	6			8			10			12			14		
Depth of drill hole	$h_1 \geq$	[mm]	40	45	60	55	65	75	65	85	95	75	95	110	85	110	125
Diameter of clearance hole in fixture	$d_f \leq$	[mm]	8			12			14			16			18		
Tangential impact screw driver ¹⁾	$T_{imp,max}$	[Nm]	160			300			400			650			650		
Driver	Hex	[mm]	13			13			15			17			21		
Minimum thickness of concrete member	h_{min}	[mm]	80			80			80	90	102	80	101	120	87	119	138
Minimum spacing	s_{min}	[mm]	35	40	40	50	50			50	70	50	70	70			
Minimum edge distance	c_{min}	[mm]	35	40	40	50	50			50	70	50	70	70			

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



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Installation Instructions

Drill hole preparation and cleaning			Install concrete screw-anchor		
1		Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.	3		Screw in anchor by using an impact driver to installation torque $T_{imp,max}$.
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.	4		Observe completed setting and full contact of screw head with fixture. Head must be undamaged.

Adjustment (if needed)

Adjustment 1			Adjustment 2		
5		Anchor maybe untightened maximum 10mm.	8		Anchor maybe untightened a second time by maximum 10mm.
6		After adjustment, screw in the anchor with a tangential impact driver to $T_{imp,max}$.	9		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.	10		After the second adjustment the anchor must be in full contact with fixture. Head must remain undamaged.

Notes:

- Adjustment is permitted for fixings with concrete screw anchors size 8mm, 10mm, 12mm and 14mm, all anchorage depths
- 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.



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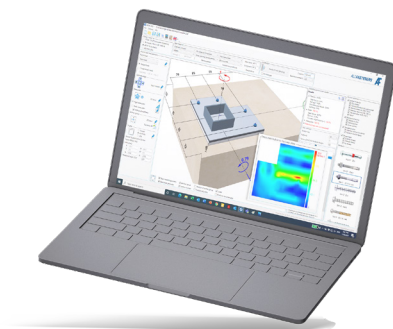
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AFOS[®]
Anchor Design Software

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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
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