ALLFASTENERS .COM.AU

WA2-S1

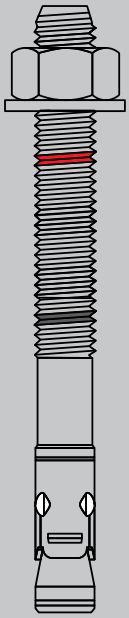
WEDGE ANCHOR / 316 (A4) STAINLESS STEEL / C1 SEISMIC RATED

316

CERTIFICATION | TDS

Technical Data Sheet

- AS 5216 Compliant
- Approved for Cracked and Uncracked Concrete
- C1 Seismic Rated
- Standard and reduced anchorage depths
- Very low splitting forces at small edge distances



ETA

NCC COMPLIANT AS 5216

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For Customer Support
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Certified System Quality ISO 9001 SAI GLOBAL

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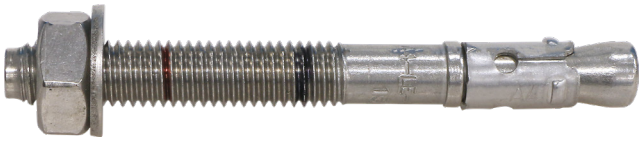
Wedge Anchor,
316 (A4) Stainless Steel, C1 Seismic Rated



NCC COMPLIANT AS 5216

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- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, tunnel services, industrial
- Small spacings and edge distances
- A4 (316) 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}	Effective Anchor Depth, h_{ef}	Embedment Depth, h_{nom}	Drill Hole Dia x Depth, d_o x h_1	Min. Concrete Thickness, h_{min}	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete [1]		Indicative Price Per Fixing [2]
								Tension	Shear	
1071.0080060	M8 x 60mm	5mm	40mm	47mm	8 x 52mm	100mm	✓ / -	7.3kN	7.3kN	$1.97
1071.0080095	M8 x 95mm	40mm					✓ / -			$2.15
1071.0080115	M8 x 115mm	60mm					✓ / -			$2.86
1071.0100095	M10 x 95mm	35mm	40mm	49mm	10 x 54mm	100mm	- / -	7.3kN	7.3kN	$2.91
		15mm	60mm	69mm	10 x 74mm	120mm	✓ / -	13.4kN	15.0kN	
1071.0100115	M10 x 115mm	55mm	40mm	49mm	10 x 54mm	100mm	- / -	7.3kN	7.3kN	$3.28
		35mm	60mm	69mm	10 x 74mm	120mm	✓ / -	13.4kN	15.0kN	
1071.0120105	M12 x 105mm	25mm	50mm	60mm	12 x 68mm	100mm	- / -	10.2kN	10.2kN	$4.64
		5mm	70mm	80mm	12 x 88mm	160mm	✓ / -	17.0kN	19.1kN	
1071.0120125	M12 x 125mm	45mm	50mm	60mm	12 x 68mm	100mm	- / -	10.2kN	10.2kN	$5.02
		25mm	70mm	80mm	12 x 88mm	160mm	✓ / -	17.0kN	19.1kN	
1071.0120145	M12 x 145mm	65mm	50mm	60mm	12 x 68mm	100mm	- / -	10.2kN	10.2kN	$5.46
		45mm	70mm	80mm	12 x 88mm	160mm	✓ / -	17.0kN	19.1kN	

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 500+ fixings, as of March 2026.

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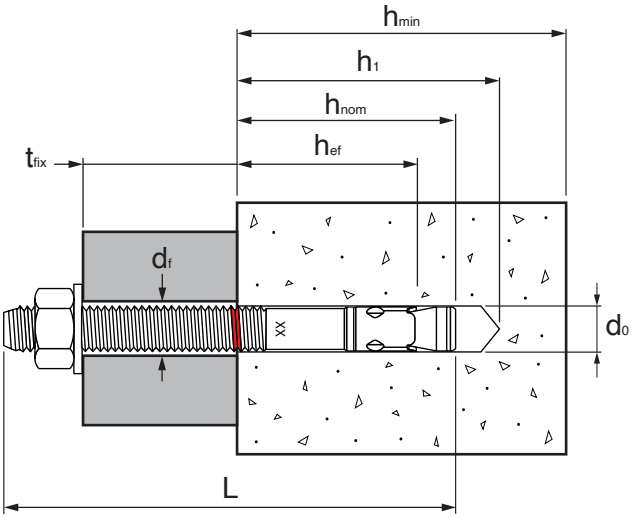
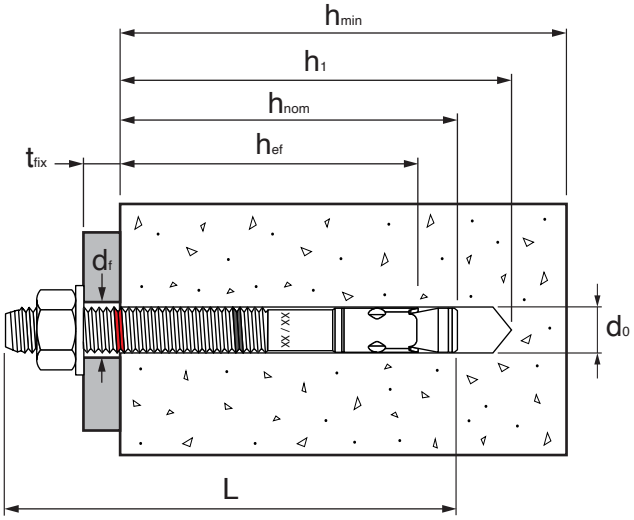
Installation Parameters

Anchor Size			M8	M10	M12
Drill hole diameter	d_0	[mm]	8	10	12
Diameter of clearance hole in the fixture	d_f	[mm]	10	12	14
Installation torque	T_{inst}	[Nm]	20	30	50
Width across nut	SW	[mm]	13	17	19

Standard embedment depth					
Effective anchor depth	h_{ef}	[mm]	40	60	70
Embedment depth	h_{nom}	[mm]	47	69	80
Depth of drill hole	h_1	[mm]	52	74	88
Minimum thickness of concrete member	h_{min}	[mm]	100	120	160
Minimum spacing / for edge distance c	s_{min} / c	[mm]	35/55	40/50	50/55
Minimum edge distance / for spacing s	c_{min} / s	[mm]	40/75	45/55	55/50

Reduced embedment depth					
Effective anchor depth	h_{ef}	[mm]	-	40	50
Embedment depth	h_{nom}	[mm]	-	49	60
Depth of drill hole	h_1	[mm]	-	54	68
Minimum thickness of concrete member	h_{min}	[mm]	-	100	100
Minimum spacing / for edge distance c	s_{min} / c	[mm]	-	40/65	50/85
Minimum edge distance / for spacing s	c_{min} / s	[mm]	-	45/90	55/130





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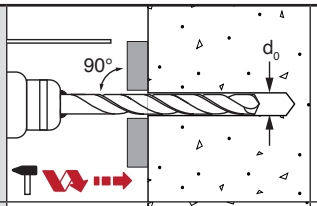
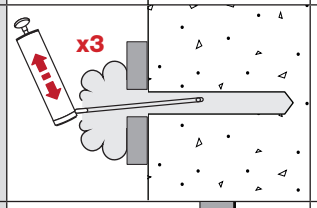
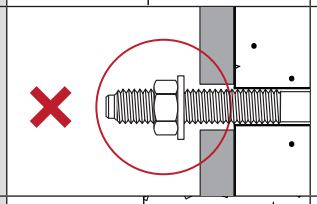
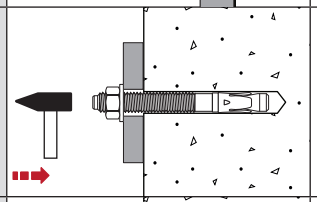
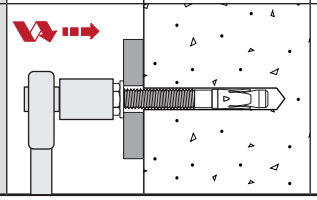
Installation Instructions

1		Drill hole perpendicular to concrete surface using a hammer drill or dustless drill. If using a dustless drill, continue with step 3.
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.
3		Ensure nut and washer are positioned correctly and anchor is properly seated against fixture.
4		Drive in anchor, such that h_{ef} depth is met. This compliance is ensured if thickness of fixture is not greater than the maximum thickness of fixture marked on the anchor.
5		Apply installation torque T_{inst} by using calibrated torque wrench.

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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