

# WA2-S1

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

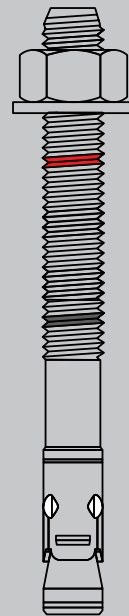
CERTIFICATION

TDS

316

### 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



#### For Install Support

[techadvice@allfasteners.com.au](mailto:techadvice@allfasteners.com.au)



#### For Specification Support

[engineering@allfasteners.com.au](mailto:engineering@allfasteners.com.au)



#### For Customer Support

1800 255 349

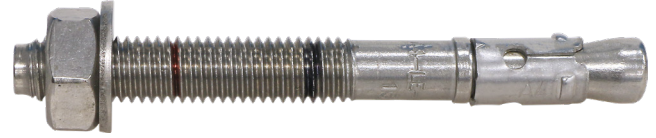


# WA2-S1

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

## WA2-S1

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



- 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 <sub>fix</sub>	Effective Anchor Depth, h <sub>ef</sub>	Embedment Depth, h <sub>nom</sub>	Drill Hole Dia x Depth, d <sub>o</sub> x h <sub>1</sub>	Min. Concrete Thickness, h <sub>min</sub>	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete <sup>1)</sup>		Indicative Price Per Fixing <sup>2)</sup>
								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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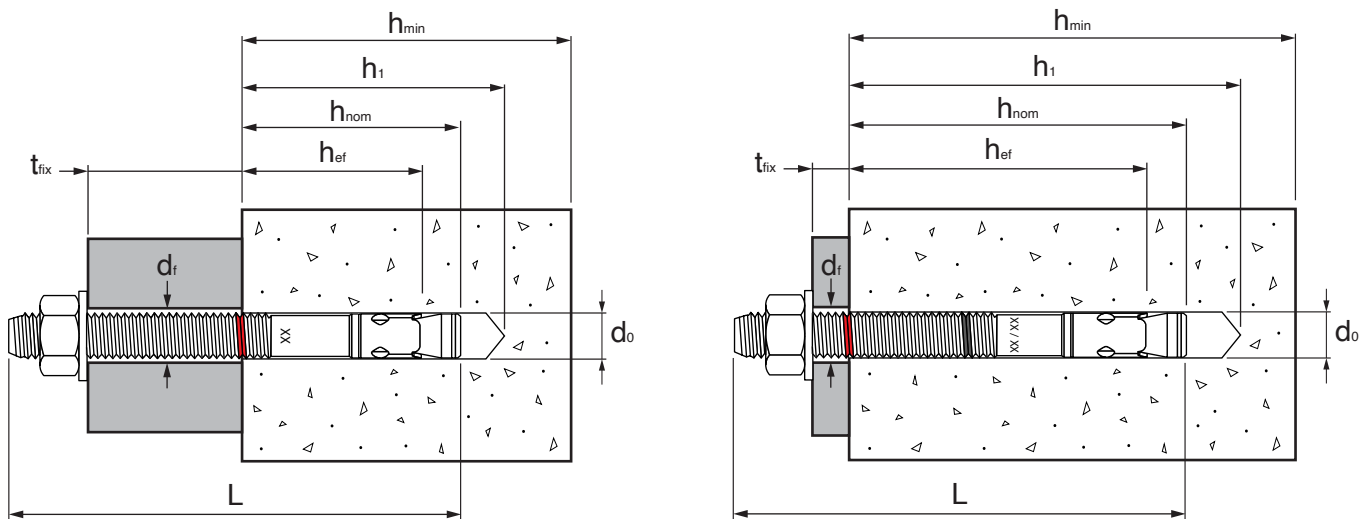
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## Installation Parameters

Anchor Size			M8	M10	M12
Drill hole diameter	$d_o$	[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

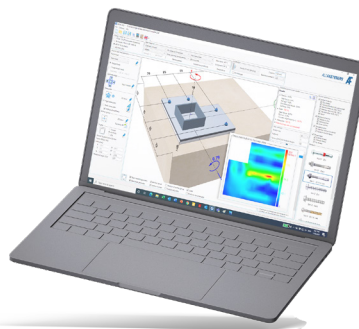
Reduced embedment depth					
Effective anchor depth	$h_{ef}$	[mm]	-	40	50
Embedment depth	$h_{nom}$	[mm]	-	49	60
Depth of drill hole	$h_1$	[mm]	-	54	68
Minimum thickness of concrete member	$h_{min}$	[mm]	-	100	100
Minimum spacing / for edge distance C	$s_{min} / C$	[mm]	-	40/65	50/85
Minimum edge distance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



**Installation Instructions**

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

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



**AFOS**<sup>®</sup>

Anchor Design Software

DOWNLOAD

[allfasteners.com.au/afos](http://allfasteners.com.au/afos)

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