

WA-G2

WEDGE ANCHOR / GALVANISED / C1 & C2 SEISMIC RATED

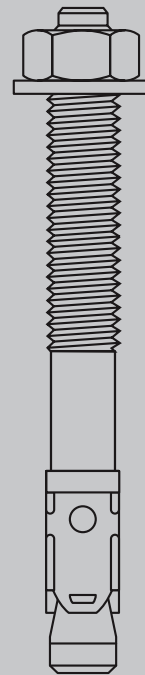
CERTIFICATION

TDS

GAL

Technical Data Sheet

- AS 5216 Compliant
- Approved for Cracked and Uncracked Concrete
- C1 & C2 Seismic Rated
- Standard and reduced anchorage depths



For Install Support

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WEDGE ANCHOR / GALVANISED / C1 & C2 SEISMIC RATED

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Wedge Anchor,
Galvanised, C1 & C2 Seismic Rated



NCC
COMPLIANT
AS 5216



- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, tunnel services, industrial, fencing
- Reduced anchorage depth for greater flexibility
- Galvanised ($\geq 40\mu\text{m}$)

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

C1 & C2 Seismic Rated

R30 – R120 Fire Rated

Swiss Shock Load Approval

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, $d_o \times h_i$	Minimum Concrete Thickness, h_{min}	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ¹⁾		Indicative Price Per Fixing ²⁾		
								Tension	Shear			
1067.0080080	M8 x 80mm	26mm	35mm ³⁾	41mm	8 x 49mm	80mm	- / -	4.2kN	9.7kN	\$0.91		
		15mm	46mm	52mm	8 x 60mm		✓ / ✓					
1067.0080095	M8 x 95mm	41mm	35mm ³⁾	41mm	8 x 49mm		- / -				16.0kN	\$1.00
		30mm	46mm	52mm	8 x 60mm		✓ / ✓					
1067.0080115	M8 x 115mm	61mm	35mm ³⁾	41mm	8 x 49mm	- / -	16.0kN	\$1.13				
		50mm	46mm	52mm	8 x 60mm	✓ / ✓						
1067.0100070	M10 x 70mm	10mm	40mm	48mm	10 x 55mm	80mm			- / -	6.3kN	24.0kN	\$1.25
1067.0100090	M10 x 90mm	30mm	40mm	48mm	10 x 55mm	80mm			- / -	6.3kN		
		10mm	60mm	68mm	10 x 75mm	100mm	✓ / ✓	7.5kN				
1067.0100130	M10 x 130mm	70mm	40mm	48mm	10 x 55mm	80mm	- / -	6.3kN	24.0kN	\$1.67		
		50mm	60mm	68mm	10 x 75mm	100mm	✓ / ✓	7.5kN				
1067.0120085	M12 x 85mm	10mm	50mm	60mm	12 x 70mm	100mm	- / -	10.2kN			24.0kN	\$1.82
1067.0120110	M12 x 110mm	35mm	50mm	60mm	12 x 70mm	100mm	- / -	10.2kN				
		15mm	70mm	80mm	12 x 90mm	120mm	✓ / ✓	13.4kN				
1067.0120145	M12 x 145mm	70mm	50mm	60mm	12 x 70mm	100mm	- / -	10.2kN	24.0kN	\$2.56		
		50mm	70mm	80mm	12 x 90mm	120mm	✓ / ✓	13.4kN				

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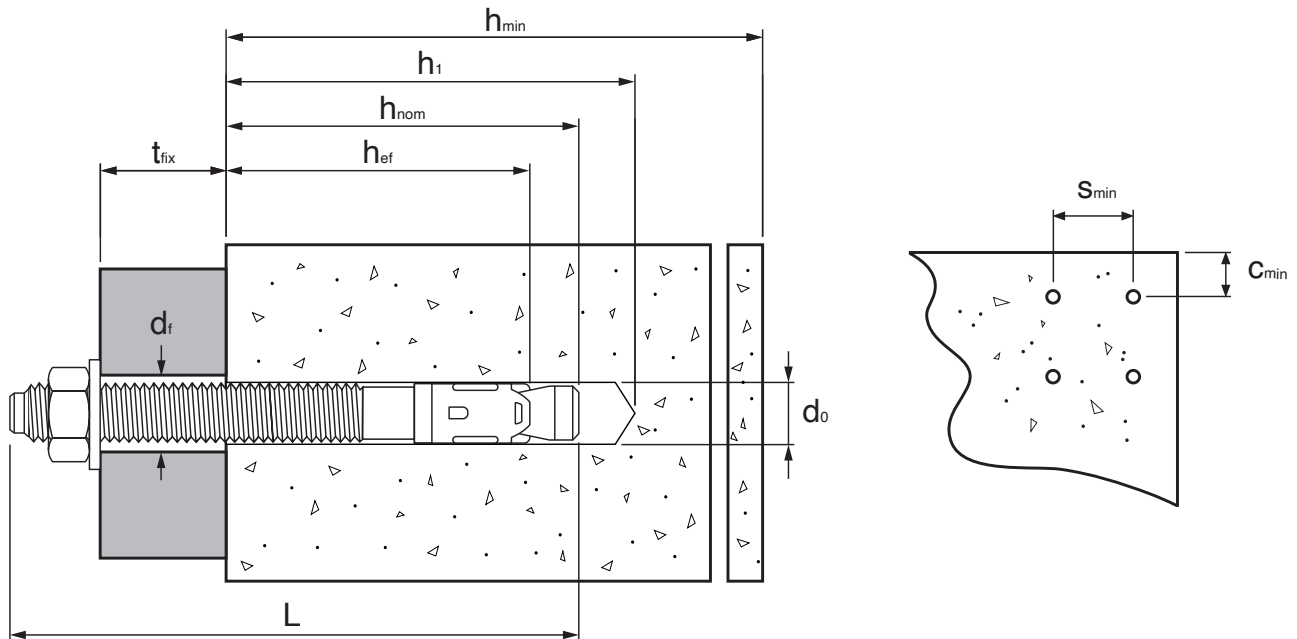
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Part Number	Description, Dia x L	Max. Fixture Thickness, t_{fix}	Effective Anchor Depth, h_{ef}	Embedment Depth, h_{nom}	Drill Hole Dia x Depth, $d_o \times h_1$	Minimum Concrete Thickness, h_{min}	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ¹⁾		Indicative Price Per Fixing ²⁾
								Tension	Shear	
1067.0160135	M16 x 135mm	35mm	65mm	77mm	16 x 90mm	140mm	- / -	15.2kN	36.5kN	\$3.97
		15mm	85mm	97mm	16 x 110mm		✓ / ✓	21.0kN	44.0kN	
1067.0160145	M16 x 145mm	45mm	65mm	77mm	16 x 90mm		- / -	15.2kN	36.5kN	\$4.11
		25mm	85mm	97mm	16 x 110mm		✓ / ✓	21.0kN	44.0kN	
1067.0160200	M16 x 200mm	100mm	65mm	77mm	16 x 90mm		- / -	15.2kN	36.5kN	\$6.20
		80mm	85mm	97mm	16 x 110mm		✓ / ✓	21.0kN	44.0kN	
1067.0200165	M20 x 165mm	30mm	100mm	114mm	20 x 125mm	200mm	✓ / ✓	29.0kN	51.8kN	TBA
1067.0200195	M20 x 195mm	60mm					✓ / ✓			
1067.0200235	M20 x 235mm	100mm					- / -			

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.

3) Anchors with effective anchor depth $h_{ef} < 40mm$ are applicable only for statically indeterminate (redundant) non-structural systems as per AS 5216.



Installation Parameters

Anchor Size			M8		M10		M12		M16		M20
Standard effective anchorage depth	h_{ef}	[mm]	46	-	60	-	70	-	85	-	100
Reduced effective anchorage depth	$h_{ef,red}$	[mm]	-	35	-	40	-	50	-	65	-
Embedment depth	h_{nom}	[mm]	52	41	68	48	80	60	97	77	114
Drill hole diameter	d_o	[mm]	8		10		12		16		20
Diameter of clearance hole in the fixture	d_f	[mm]	9		12		14		18		22
Depth of drill hole	h_1	[mm]	60	49	75	55	90	70	110	90	125
Installation torque	T_{inst}	[Nm]	16		22		40		90		160
Width across nut	SW	[mm]	13		17		19		24		30

Minimum spacing and edge distance for standard thickness of concrete member
Cracked Concrete

Standard thickness of concrete member	$h_{min,1}$	[mm]	100	-	120	-	140	-	170	-	200
Minimum spacing / for edge distance C	s_{min} / c	[mm]	40/70	-	45/70	-	60/100	-	60/100	-	95/150
Minimum edge distance / for spacing S	c_{min} / s	[mm]	40/80	-	45/90	-	60/140	-	60/180	-	95/200

Uncracked Concrete

Minimum spacing / for edge distance C	s_{min} / c	[mm]	40/80	-	45/70	-	60/120	-	65/120	-	90/180
Minimum edge distance / for spacing S	c_{min} / s	[mm]	50/100	-	50/100	-	75/150	-	80/150	-	130/240

Minimum spacing and edge distance for minimum thickness of concrete member
Cracked Concrete

Minimum thickness of concrete member	$h_{min,2}$	[mm]	80	80	100	80	120	100	140	140	-
Minimum spacing / for edge distance C	s_{min} / c	[mm]	40/70	50/60	45/90	50/100	60/100	50/160	70/160	65/170	-
Minimum edge distance / for spacing S	c_{min} / s	[mm]	40/80	40/185	50/115	65/180	60/140	65/250	80/180	100/250	-

Uncracked Concrete

Minimum spacing / for edge distance C	s_{min} / c	[mm]	40/80	50/60	60/140	50/100	60/120	50/160	80/180	65/170	-
Minimum edge distance / for spacing S	c_{min} / s	[mm]	50/100	40/185	90/140	65/180	75/150	100/185	90/200	170/65	-

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Installation Instructions

Drill hole preparation and cleaning		
1		<p>Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.</p>
2		<p>Blow out dust or alternatively vacuum clean down to the bottom of the hole.</p>
Install WA-G2 through fixture		
3		<p>Ensure anchor is properly seated against fixture.</p>
4		<p>Drive in anchor, such that h_{ef} or $h_{ef,red}$ 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 T_{inst} by using calibrated torque wrench.</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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