

WA-G1

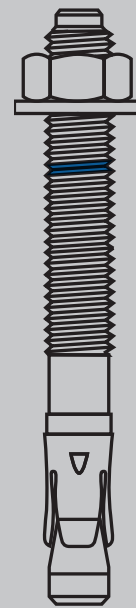
WEDGE ANCHOR / GALVANISED

GAL

CERTIFICATION

TDS

Technical Data Sheet



For Install Support

techadvice@allfasteners.com.au



For Specification Support

engineering@allfasteners.com.au

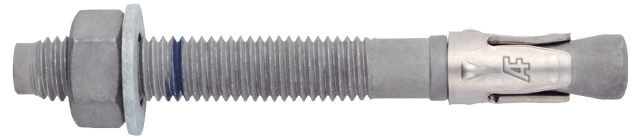


For Customer Support

1800 255 349

WA-G1

Wedge Anchor
Galvanised



NCC
COMPLIANT
AS 5216



- Connecting structural steel or timber to concrete
- Facades, balustrades, building services, height access systems, industrial, fencing
- Galvanised (40µm min.) carbon steel anchor, nut and washer, with 316 (A4) stainless steel expansion clip

ETA cracked and uncracked concrete

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, $d_o \times h_1$	Minimum Concrete Thickness, h_{min}	Design Capacity in 32MPa Cracked Concrete ¹⁾		Indicative Price Per Fixing ²⁾
							Tension	Shear	
1ETBG08080	M8 x 80mm	14mm	48mm	55mm	8 x 60mm	100mm	4.2kN	8.8kN	\$0.68
1ETBG08100	M8 x 100mm	34mm							\$0.74
1ETBG08120	M8 x 120mm	54mm							\$0.85
1ETBG10090	M10 x 90mm	10mm	60mm	68mm	10 x 75mm	120mm	7.1kN	13.9kN	\$1.05
1ETBG10120	M10 x 120mm	40mm							\$1.20
1ETBG12100	M12 x 100mm	4mm	70mm	80mm	12 x 85mm	140mm	13.4kN	20.2kN	\$1.56
1ETBG12140	M12 x 140mm	44mm							\$2.16
1ETBG16125	M16 x 125mm	8mm	85mm	97mm	16 x 105mm	170mm	21.0kN	37.6kN	\$3.33
1ETBG16140	M16 x 140mm	23mm							\$3.52
1ETBG16190	M16 x 190mm	73mm							\$4.92

1) Without concrete edge or anchor spacing influence. This table contains preliminary design information only. Please refer to our AFOS Anchor Design Software and the ETA for more details.

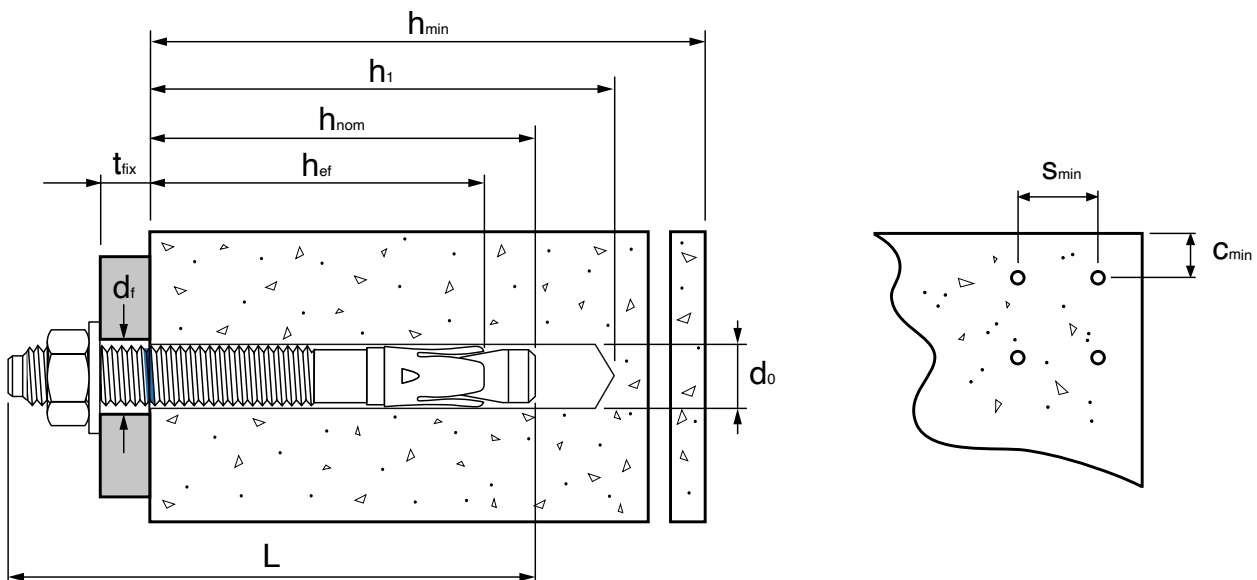
2) Based on a volume of 1000+ fixings, as of January 2023.

WA-G1

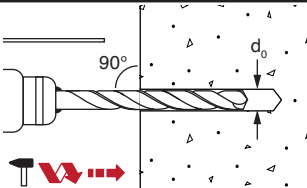
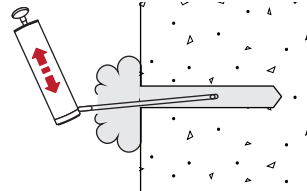
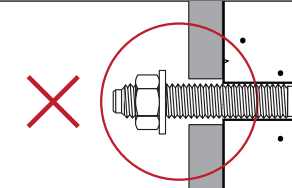
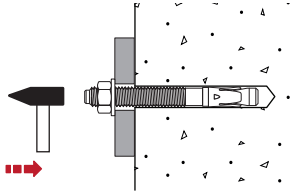
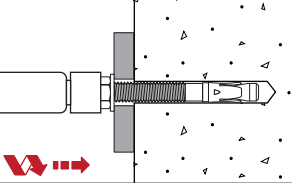
WEDGE ANCHOR / GALVANISED

Installation Parameters

Anchor Size			M8	M10	M12	M16
Nominal diameter of drill bit	d_o	[mm]	8	10	12	16
Fixture clearance hole diameter	d_f	[mm]	9	12	14	18
Nominal installation torque	T_{inst}	[Nm]	15	40	60	100
Minimum thickness of concrete member	h_{min}	[mm]	100	120	140	170
Depth of drilled hole	h_1	[mm]	60	75	85	105
Overall anchor embedment depth in the concrete	h_{nom}	[mm]	55	68	80	97
Minimum spacing	s_{min}	[mm]	50	60	70	128
Minimum edge distance	c_{min}	[mm]	50	60	70	128



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 wedge anchor		
3		Ensure anchor is properly seated against fixture.
4		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.
5		Apply installation torque T_{inst} by using calibrated torque wrench.

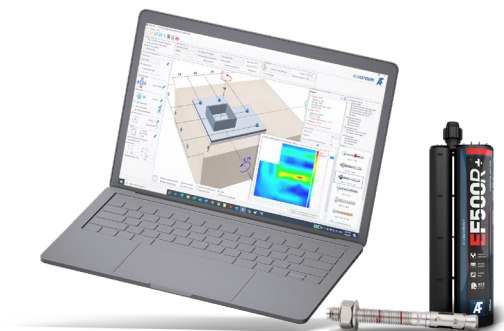
For other anchor properties, please refer to the ETA on our website.



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



Important Note: Whilst all reasonable care is taken in compiling technical data on the Company's products, all information, recommendations, or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable, and that in the light of our continual research and development programme the information relating to each product has not been superseded. Allfasteners, its agencies and employees, disclaim any and all liability in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

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
Copyright © 2023. The contents of this document remains the property of Allfasteners[®] and may not be reproduced without prior written permission.