

UAP-Z

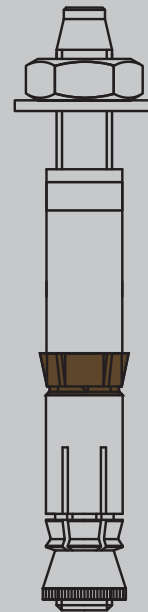
UNDERCUT ANCHOR / PRE-SET / ZINC PLATED / C1 & C2 SEISMIC RATED

ZP

CERTIFICATION

TDS

Technical Data Sheet



For Install Support

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For Specification Support

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For Customer Support

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UNDERCUT ANCHOR / PRE-SET / ZINC PLATED / C1 & C2 SEISMIC RATED

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Undercut Anchor, Pre-Set,
Zinc Plated, C1 & C2 Seismic Rated



- Pre-set installation method – nut and washer to be removed after inserting into drilled hole, prior to fixture being installed
- Most reliable and secure heavy-duty anchor for safety-critical applications including tunnels and nuclear facilities
- Easy to install self-undercutting anchor without any need for special drill bits or undercut tools
- Zinc plated ($\geq 5\mu\text{m}$) for dry internal conditions
- Custom lengths can be available

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, Bolt Thread Dia x L	Max. Fixture Thickness, t_{fix}	Effective Anchor Depth, h_{ef}	Embedment Depth, h_{nom}	Drill Hole Dia x Depth, $d_o \times h_1$	Min. Concrete Thickness, h_{min}	Seismic C1 / C2	Design Capacity in 32MPa Cracked Concrete ¹⁾		Indicative Price Per Fixing ²⁾
								Tension	Shear	
1947.0120135	M12 x 135mm	15mm	80mm	96mm	20 x 105mm	160mm	✓ / ✓	20.7kN	27.2kN	\$26.17
1947.0120220	M12 x 220mm	30mm	150mm	166mm	20 x 175mm	300mm	✓ / ✓	33.7kN	27.2kN	\$40.70
1947.0160240	M16 x 240mm	40mm	150mm	168mm	25 x 185mm	300mm	✓ / ✓	42.1kN	50.4kN	\$61.48
1947.0160290	M16 x 290mm	40mm	200mm	218mm	25 x 235mm	400mm	✓ / ✓	63.2kN	50.4kN	\$65.52

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.

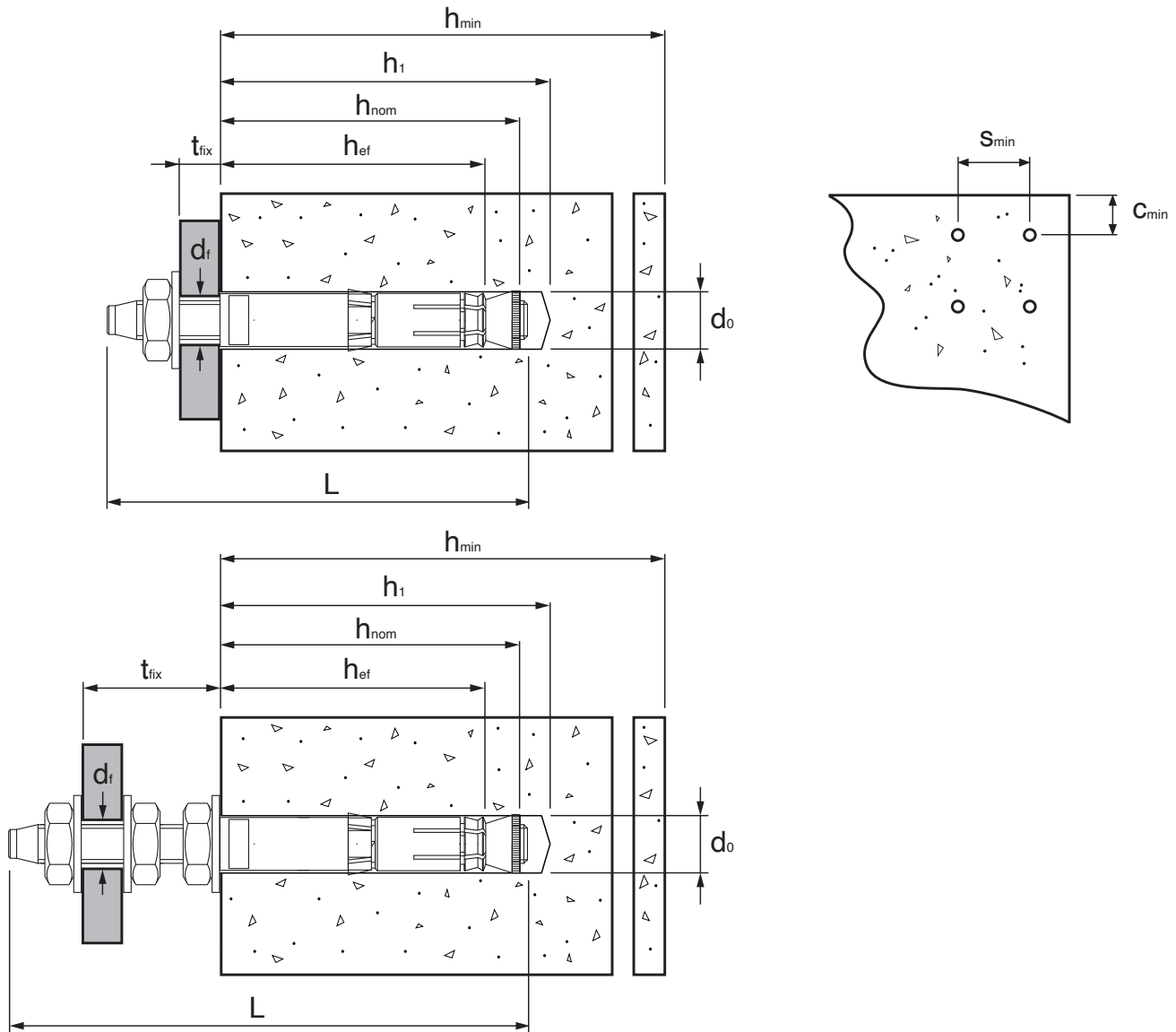
2) Based on a volume of 40+ to 80+ fixings, as of March 2026.

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Installation Parameters

Anchor Size			M12		M16	
Effective anchor depth	h_{ef}	[mm]	80	150	150	200
Embedment depth	h_{nom}	[mm]	96	166	168	218
Drill hole diameter	d_o	[mm]	20		25	
Depth of drill hole	$h_1 \geq$	[mm]	105	175	185	235
Diameter of clearance hole in fixture	d_f	[mm]	14		18	
Installation torque	T_{inst}	[Nm]	80		180	
Minimum thickness of concrete member	h_{min}	[mm]	160	300	300	400
Minimum spacing	s_{min}	[mm]	120	150	200	150
Minimum edge distance	c_{min}	[mm]	100	80	150	100



Installation Instructions

Drill hole preparation and cleaning			Install undercut anchor		
1		Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.	3		Drive in anchor.
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.	4		Remove nut and washer.
			5		Install fixture. Then, install washer and nut. Apply installation torque T_{inst} by using a calibrated torque wrench.

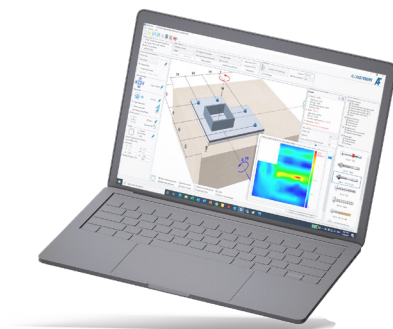
For other anchor properties, please refer to the ETA on our website.



AFOS[®]
Anchor Design Software

DOWNLOAD

allfasteners.com.au/afos



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