

# UAP-S UNDERCUT ANCHOR / PRE-SET / 316 (A4) STAINLESS STEEL

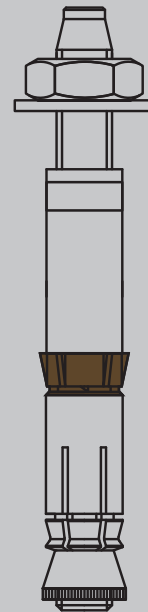
316

CERTIFICATION

TDS

FIRE REPORT

## Technical Data Sheet



**NCC**  
COMPLIANT  
AS 5216



**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



# UAP-S

UNDERCUT ANCHOR / PRE-SET / 316 (A4) STAINLESS STEEL

## UAP-S

 Undercut Anchor, Pre-Set,  
316 (A4) Stainless Steel

 NCC  
COMPLIANT  
AS 5216


- 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
- A4 (316) stainless steel for corrosive environments, outdoors
- Custom lengths can be available

AS 5216 Compliant

ETA Cracked and Uncracked Concrete

R30 – R120 Fire Rated, Fire Rated for Tunnels for M16

Supported by AFOS Anchor Design Software

### Anchor Summary

Part Number	Description, Bolt Thread Dia x L	Max. Fixture Thickness, $t_{fx}$	Effective Anchor Depth, $h_{ef}$	Embedment Depth, $h_{nom}$	Drill Hole Dia x Depth, $d_o \times h_1$	Min. Concrete Thickness, $h_{min}$	Design Capacity in 32MPa Cracked Concrete <sup>1)</sup>		Indicative Price Per Fixing <sup>2)</sup>
							Tension	Shear	
1946.0080080	M8 x 80mm	15mm	40mm	52mm	14 x 60mm	100mm	7.3kN	7.3kN	\$49.79
1946.0080130	M8 x 130mm	25mm	80mm	92mm	14 x 100mm	160mm	10.1kN	11.2kN	\$52.43
1946.0120135	M12 x 135mm	15mm	80mm	96mm	20 x 105mm	160mm	20.7kN	25.5kN	\$78.52
1946.0120220	M12 x 220mm	30mm	150mm	166mm	20 x 175mm	300mm	33.7kN	25.5kN	\$122.10
1946.0160240	M16 x 240mm	40mm	150mm	168mm	25 x 185mm	300mm	50.6kN	47.3kN	\$184.43
1946.0160290	M16 x 290mm	40mm	200mm	218mm	25 x 235mm	400mm	50.6kN	47.3kN	\$196.55

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.

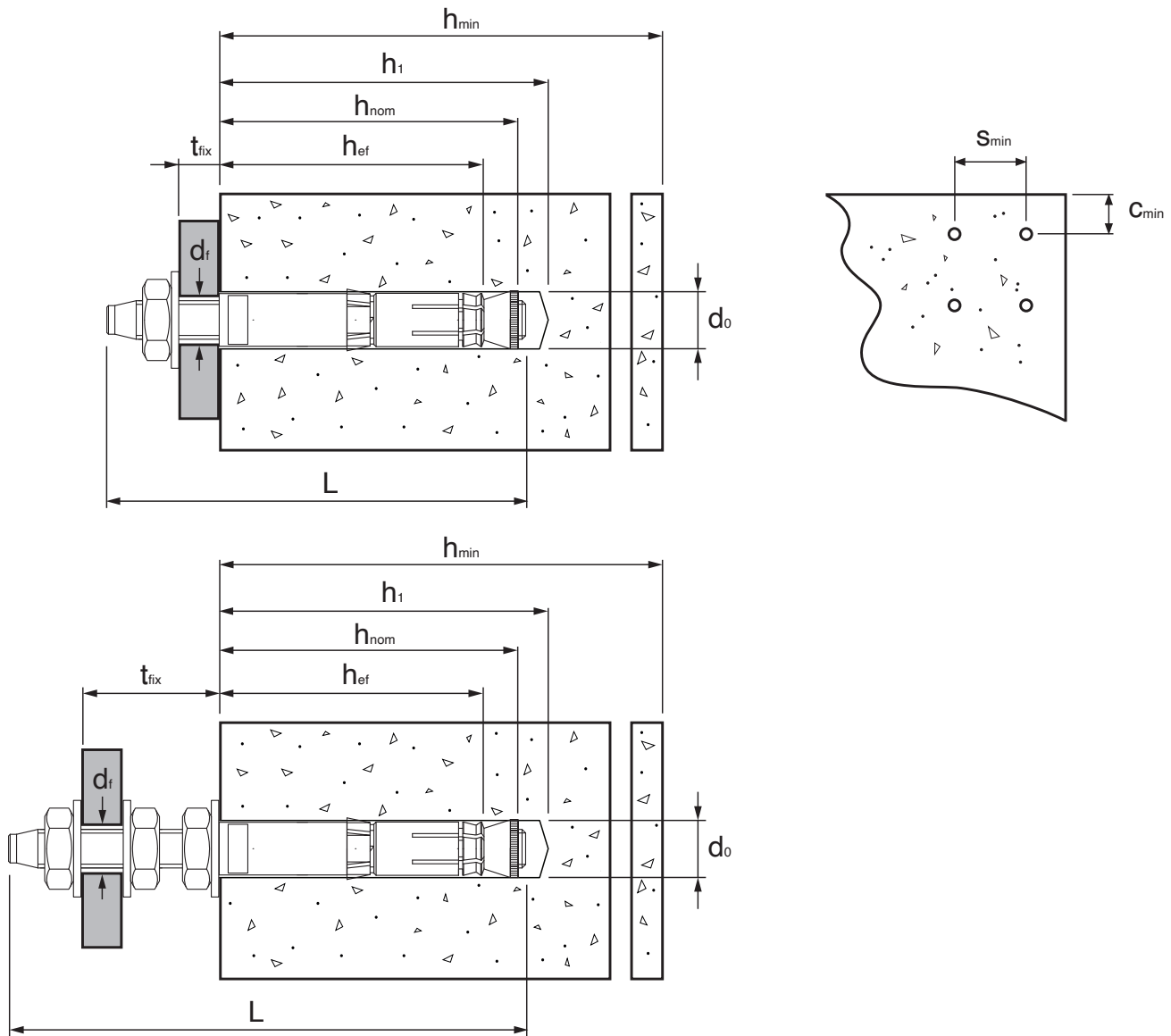
2) Based on a volume of 40+ to 100+ fixings, as of March 2026.

# UAP-S

UNDERCUT ANCHOR / PRE-SET / 316 (A4) STAINLESS STEEL

## Installation Parameters

Anchor Size			M8		M12		M16	
Effective anchor depth	$h_{ef}$	[mm]	40	80	80	150	150	200
Embedment depth	$h_{nom}$	[mm]	52	92	96	166	168	218
Drill hole diameter	$d_o$	[mm]	14		20		25	
Depth of drill hole	$h_1 \geq$	[mm]	60	100	105	175	185	235
Diameter of clearance hole in fixture	$d_f$	[mm]	10		14		18	
Installation torque	$T_{inst}$	[Nm]	25		80		180	
Minimum thickness of concrete member	$h_{min}$	[mm]	100	160	160	300	300	400
Minimum spacing	$s_{min}$	[mm]	80	80	150	150	150	180
Minimum edge distance	$c_{min}$	[mm]	60	50	100	80	100	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.

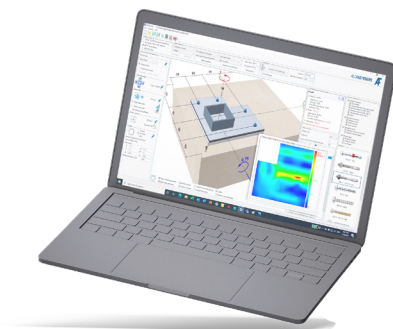
For other anchor properties, please refer to the ETA on our website.



**AFOS**<sup>®</sup>  
Anchor Design Software

DOWNLOAD

[allfasteners.com.au/afos](http://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<sup>®</sup> 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 © 2026. The contents of this document remains the property of Allfasteners<sup>®</sup> and may not be reproduced without prior written permission.