

VF18

FAST CURE MEDIUM STRENGTH CHEMICAL ANCHOR

CERTIFICATION

TDS

MSDS

Anchor Selection Guide Extract



For Install Support

techadvice@allfasteners.com.au



For Specification Support

engineering@allfasteners.com.au



For Customer Support

1800 255 349

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FAST CURE MEDIUM STRENGTH CHEMICAL ANCHOR

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Fast Cure Medium Strength
Chemical Anchor

NCC
COMPLIANT
AS 5216



- Vinylester
- Anchors may be placed close to free edges
- Suitable for dry, wet & flooded holes with no loss of performance
- Reduced drilling diameter i.e. M20 only requires a 22mm hole making it an economical injection system
- Fixing into concrete, solid & voided rocks and solid & hollow masonry
- Structural concrete
- Canopies, boilers, bicycle racks, hand rails, masonry supports, safety barriers, balcony fences, racking and machinery

Approvals & Certifications

ETA threaded bars in uncracked concrete, 100 year design life

ETA for masonry installations

ETA for post-installed rebar connections, 100 year design life

AS 5216 compliant, NCC

A+ classification according to compulsory French VOC emissions regulation

Tested according to LEED 2009 EQ c4.1, SCAQMD rule 1168 (2005)



Application Times

Temp. (°C)*	5°	10°	15°	20°	30°
Working (mins.)	18'	10'	6'	5'	4'
Cure (mins.)	145'	85'	50'	40'	35'

*Base material & cartridge temperature. Cartridge must be conditioned to minimum 5°C.

Service temperature: -40°C to + 80°C

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Anchor Summary

SCM-Y Chem Stud G5.8 Zinc with VF18

- Zinc plated (3µm min.) / G5.8 steel
- Nut and washer supplied



Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, $t_f^{1)}$	Standard Embedment Depth, h_{nom} ($=h_{ef}$)	Drill Hole Dia x Depth, $d_o \times h_o$	Minimum Concrete Thickness, $h_{min}^{1)}$	Design Capacity in 32MPa Uncracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
						Tension	Shear	
1SCMY08110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	12.0kN	8.8kN	\$1.03
1SCMY10130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	14.4kN	13.6kN	\$1.13
1SCMY12160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	23.8kN	20.0kN	\$1.71
1SCMY16190	M16 x 190mm (nut/washer)	34mm	128mm	18 x 128mm	158mm	39.0kN	37.6kN	\$2.92
1SCMY20260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	57.9kN	59.2kN	\$6.20
1SCMY24300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	85.9kN	84.8kN	\$9.33

SCM-G Chem Stud G5.8 HDG with VF18

- Galvanised (50µm min.) / G5.8 steel
- Nut and washer supplied



Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, $t_f^{1)}$	Standard Embedment Depth, h_{nom} ($=h_{ef}$)	Drill Hole Dia x Depth, $d_o \times h_o$	Minimum Concrete Thickness, $h_{min}^{1)}$	Design Capacity in 32MPa Uncracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
						Tension	Shear	
1SCMG08110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	11.3kN	8.0kN	\$1.29
1SCMG10130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	14.4kN	12.8kN	\$1.46
1SCMG12160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	23.8kN	20.0kN	\$2.03
1SCMG16190	M16 x 190mm (nut/washer)	34mm	128mm	18 x 128mm	158mm	39.0kN	37.6kN	\$3.68
1SCMG20260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	57.9kN	59.2kN	\$6.62
1SCMG24300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	85.9kN	84.8kN	\$11.18

1) For standard embedment. Smaller and larger embedments are possible, please refer to the TDS or AFOS Anchor Design Software for more information. Custom length studs are also available.

2) Without concrete edge or anchor spacing influence. This table contains preliminary design information only. Please refer to our AFOS Anchor Design Software, the TDS and ETA for more details. Assuming up to 60% of total design loading is sustained loading.

3) Based on a volume of 200+ to 500+ fixings, 96+ chemical tubes, as of January 2023. Includes cost of chemical, stud, nut and washer.

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SCM-S Chem Stud 316 (A4) Stainless Steel with VF18

- 316 (A4-70) Stainless Steel
- Nut and washer supplied



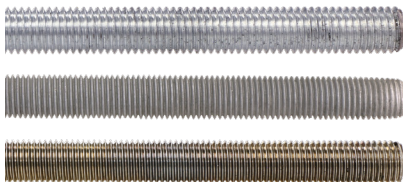
Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, t_f ¹⁾	Standard Embedment Depth, h_{nom} ($=h_{ef}$)	Drill Hole Dia x Depth, d_o x h_o	Minimum Concrete Thickness, h_{min} ¹⁾	Design Capacity in 32MPa Uncracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
						Tension	Shear	
1SCMS08110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	12.8kN	8.3kN	\$2.69
1SCMS10130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	14.4kN	12.8kN	\$3.79
1SCMS12160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	23.8kN	19.2kN	\$5.11
1SCMS16190	M16 x 190mm (nut/washer)	34mm	128mm	18 x 128mm	158mm	39.0kN	35.2kN	\$9.09
1SCMS20260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	57.9kN	55.1kN	\$18.40
1SCMS24300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	85.9kN	79.4kN	\$26.84

1) For standard embedment. Smaller and larger embedments are possible, please refer to the TDS or AFOS Anchor Design Software for more information. Custom length studs are also available.

2) Without concrete edge or anchor spacing influence. This table contains preliminary design information only. Please refer to our AFOS Anchor Design Software, the TDS and ETA for more details. Assuming up to 60% of total design loading is sustained loading.

3) Based on a volume of 200+ to 500+ fixings, 96+ chemical tubes, as of January 2023. Includes cost of chemical, stud, nut and washer.

Other Steel Grades



Off the shelf custom length threaded rod is available in the following grades:

- G4.6 Zinc Plated
- G4.6 Galvanised
- G8.8 Galvanised
- 316 (A4-70) Stainless Steel

Other available grades include, but not limited to the following:

- G10.9 Carbon Steel
- A4-80 Stainless Steel

Rebar



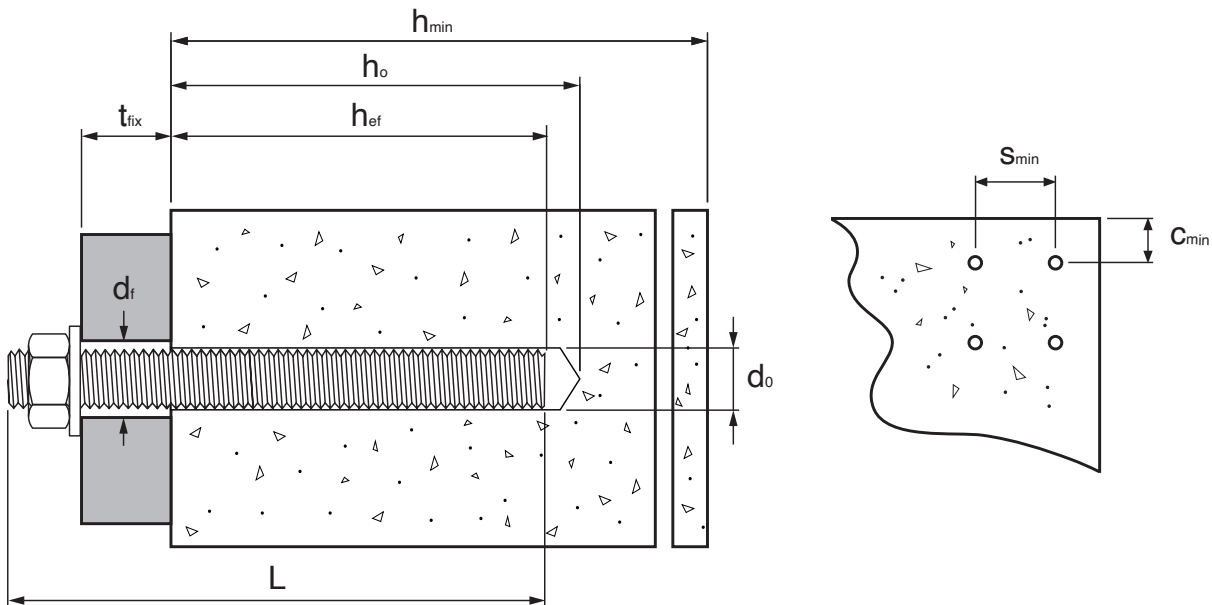
Please refer to our AFOS Anchor Design Software, the TDS and ETA for more details.

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Installation Parameters of Threaded Rod

Anchor Size			M8	M10	M12	M16	M20	M24
Nominal drill hole diameter	$\emptyset d_0$	[mm]	10	12	14	18	22	26
Diameter of cleaning brush	d_b	[mm]	14	14	20	20	29	29
Torque moment	$\max T_{fixt}$	[Nm]	10	20	40	80	150	200
Depth of drill hole for $h_{ef,min}$	$h_0 = h_{ef}$	[mm]	64	80	96	128	160	192
Depth of drill hole for $h_{ef,max}$	$h_0 = h_{ef}$	[mm]	96	120	144	192	240	288
Minimum edge distance	c_{min}	[mm]	35	40	50	65	80	96
Minimum spacing	s_{min}	[mm]	35	40	50	65	80	96
Minimum thickness of member	h_{min}	[mm]	$h_{ef} + 30mm \geq 100mm$				$h_{ef} + 2d_0$	



For installation instructions and other anchor properties, please refer to the TDS or ETA on our website.



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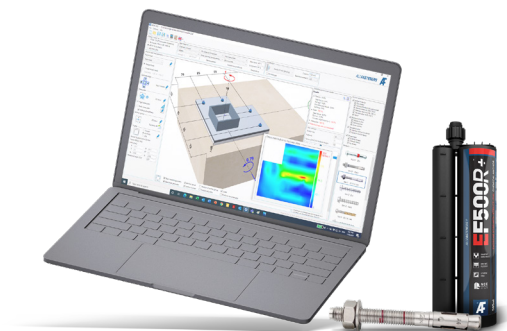
FAST CURE MEDIUM STRENGTH CHEMICAL ANCHOR



AFOS[®]
Anchor Design Software

DOWNLOAD

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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
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