

VF22PRO+

FAST CURE HIGH STRENGTH CHEMICAL ANCHOR

CERTIFICATION

TDS

MSDS

Anchor Selection Guide Extract



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VF22PRO+

Fast Cure High Strength
Chemical Anchor



- Vinylester
- Anchors may be placed close to free edges
- Installations in dry, wet and flooded holes
- Suitable with all drilling methods including diamond core and dustless
- Reduced drilling diameters i.e. M20 only requires a 22mm hole and M24 requires only 26mm hole making it an economical injection system
- Structural applications in cracked and uncracked concrete
- Applications under seismic conditions (C1 & C2)
- Reinforcing & starter bars
- Fixing into solid rock and masonry
- Suspended ventilation systems, safety barriers, machinery & racking, rolling cranes



Approvals & Certifications

ETA Option 1 for cracked and uncracked concrete including diamond cored and dustless drilling, 100-year design life

ETA according to AS 5216 for post-installed rebar connections including diamond cored and dustless drilling, 100-year design life

Approved for seismic action categories C1 & C2

AS 5216 compliant, NCC

Fire exposure curve for threaded bar in the ETA, design as per TR-082

Certified for contact with potable water

French VOC A+ Rated

Qualifies for LEED V.4.1 BETA (JULY 2019) Specifications

Application Times

Temp. (°C)*	-10°	-5°	0°	5°	10°	15°	20°	25°	30°
Working (mins.)	30'	30'	20'	15'	10'	8'	6'	5'	4'
Cure (mins.)	24hrs	300'	210'	145'	85'	75'	50'	40'	40'

*Base material & cartridge temperature. Cartridge must be conditioned to minimum 5°C. If base material temperature is below -5°C, cartridge must be conditioned to minimum 10°C.

Service temperature: -40°C to +80°C

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Anchor Summary

SCM-Y Chem Stud G5.8 Zinc with VF22PRO+

- Zinc plated (3µm min.) / G5.8 steel
- Nut and washer supplied
- M30 and larger size custom length threaded rod are also available



Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, $t_{fx}^{1)}$	Standard Embedment Depth, $h_{nom} (=h_{ef})$	Drill Hole Dia x Depth, $d_o \times h_o$	Minimum Concrete Thickness, $h_{min}^{1)}$	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
							Tension	Shear	
1056.0080110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	✓ / -	10.3kN	8.8kN	\$1.27
1056.0100130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	✓ / -	14.6kN	13.6kN	\$1.44
1056.0120160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	✓ / ✓	21.4kN	20.0kN	\$2.19
1056.0160190	M16 x 190mm (nut/washer)	37mm	125mm	18 x 125mm	161mm	✓ / ✓	27.2kN	37.6kN	\$3.70
1056.0200260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	✓ / ✓	45.5kN	59.2kN	\$7.73
1056.0240300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	✓ / -	61.9kN	84.8kN	\$11.75
Please enquire	M30 custom length threaded rod	Length - h_{ef} - 43mm	270mm typical	35 x 270mm	340mm	✓ / -	78.2kN	134.4kN	TBA

SCM-G Chem Stud G5.8 HDG with VF22PRO+

- Galvanised (50µm min.) / G5.8 steel
- Nut and washer supplied
- M30 and larger size custom length threaded rod are also available



Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, $t_{fx}^{1)}$	Standard Embedment Depth, $h_{nom} (=h_{ef})$	Drill Hole Dia x Depth, $d_o \times h_o$	Minimum concrete thickness, $h_{min}^{1)}$	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
							Tension	Shear	
1054.0080110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	✓ / -	10.3kN	8.0kN	\$1.55
1054.0100130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	✓ / -	14.6kN	12.8kN	\$1.81
1054.0120160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	✓ / ✓	21.4kN	20.0kN	\$2.53
1054.0160190	M16 x 190mm (nut/washer)	37mm	125mm	18 x 125mm	161mm	✓ / ✓	27.2kN	37.6kN	\$4.55
1054.0200260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	✓ / ✓	45.5kN	59.2kN	\$8.19
1054.0240300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	✓ / -	61.9kN	84.8kN	\$13.80
Please enquire	M30 custom length threaded rod	Length - h_{ef} - 43mm	270mm typical	35 x 270mm	340mm	✓ / -	78.2kN	134.4kN	TBA

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. 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. Assuming up to 60% of total design loading is sustained loading.

3) Based on a volume of 300+ to 500+ fixings, 96+ chemical tubes, as of March 2026. Includes cost of chemical, stud, nut and washer.

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SCM-S Chem Stud 316 (A4) Stainless Steel with VF22PRO+

- 316 (A4-70) Stainless Steel
- Nut and washer supplied
- M30 and larger size custom length threaded rod are also available



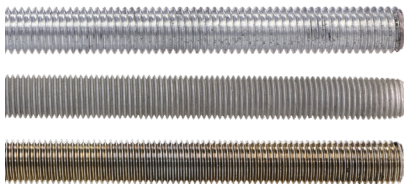
Part Number for Stud	Description, Dia x L	Max. Fixture Thickness, $t_{fix}^{1)}$	Standard Embedment Depth, $h_{nom} (=h_{ef})$	Drill Hole Dia x Depth, $d_0 \times h_0$	Minimum Concrete Thickness, $h_{min}^{1)}$	Seismic C1/C2	Design Capacity in 32MPa Cracked Concrete ²⁾		Indicative Price Per Fixing ³⁾
							Tension	Shear	
1055.0080110	M8 x 110mm (nut/washer)	16mm	80mm	10 x 80mm	110mm	✓ / -	10.3kN	8.3kN	\$3.28
1055.0100130	M10 x 130mm (nut/washer)	22mm	90mm	12 x 90mm	120mm	✓ / -	14.6kN	12.8kN	\$4.63
1055.0120160	M12 x 160mm (nut/washer)	26mm	110mm	14 x 110mm	140mm	✓ / ✓	21.4kN	19.2kN	\$6.28
1055.0160190	M16 x 190mm (nut/washer)	37mm	125mm	18 x 125mm	161mm	✓ / ✓	27.2kN	35.2kN	\$11.12
1055.0200260	M20 x 260mm (nut/washer)	62mm	170mm	22 x 170mm	214mm	✓ / ✓	45.5kN	55.1kN	\$22.46
1055.0240300	M24 x 300mm (nut/washer)	51mm	210mm	26 x 210mm	262mm	✓ / -	61.9kN	79.4kN	\$32.89
Please enquire	M30 custom length threaded rod	Length - h_{ef} - 43mm	270mm typical	35 x 270mm	340mm	✓ / -	78.2kN	125.6kN	TBA

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. 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. 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 March 2026. 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



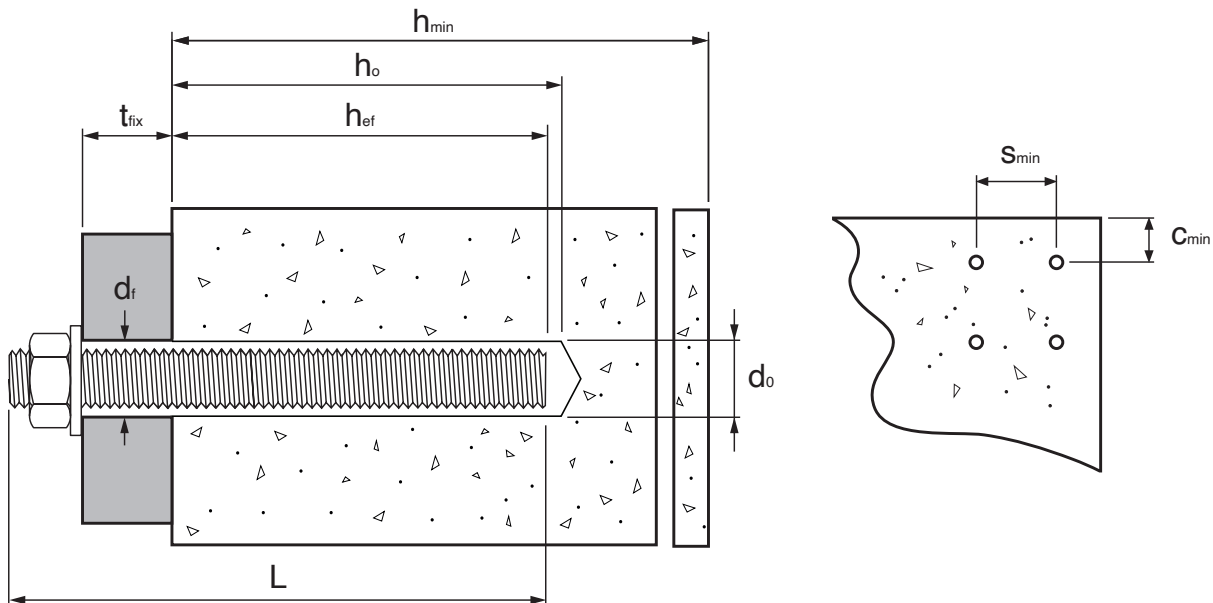
Please refer to our AFOS Anchor Design Software, the TDS and ETA for more details.

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Installation Parameters of Threaded Rod

Anchor Size			M8	M10	M12	M16	M20	M24	M30
Drill hole diameter	$\varnothing d_0$	[mm]	10	12	14	18	22	26	35
Torque moment	$\max T_{fix}$	[Nm]	10	20	40	80	150	200	275
Depth of drill hole for $h_{ef,min}$ (min)	$h_0 = h_{ef}$	[mm]	40	40	48	64	80	96	120
Depth of drill hole for $h_{ef,max}$ (max)	$h_0 = h_{ef}$	[mm]	160	200	240	320	400	480	600
Diameter of clearance hole in fixture	d_f	[mm]	9	12	14	18	22	26	33
Minimum edge distance	C_{min}	[mm]	35	40	50	65	80	96	120
Minimum spacing	S_{min}	[mm]	35	40	50	65	80	96	120
Minimum thickness of concrete member	h_{min}	[mm]	$h_{ef} + 30mm \geq 100mm$			$h_{ef} + 2d_0$			



Installation Parameters of Rebar

Rebar Size			Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32
Drill hole diameter	$\varnothing d_0$	[mm]	12	14	16	20	25	32	40
Depth of drill hole for $h_{ef,min}$ (min)	$h_0 = h_{ef}$	[mm]	40	40	48	64	80	100	128
Depth of drill hole for $h_{ef,max}$ (max)	$h_0 = h_{ef}$	[mm]	160	200	240	320	400	500	640
Minimum edge distance	C_{min}	[mm]	35	40	50	65	80	100	130
Minimum spacing	S_{min}	[mm]	35	40	50	65	80	100	130
Minimum thickness of concrete 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.



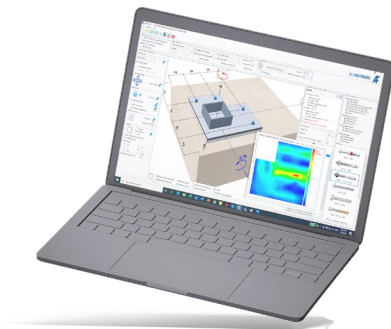
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AFOS[®]
Anchor Design Software

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