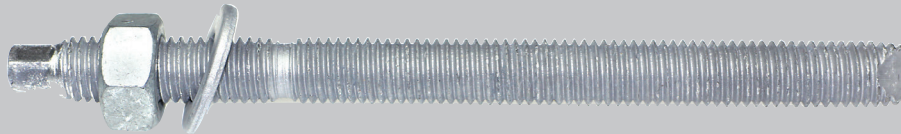


TECHNICAL DATA SHEET

CHEM STUD ANCHORS

CL5.8 / CL8.8 / 316 (A4-70) Stainless

TECHNICAL



For Install Support

techadvice@allfasteners.com.au



For Specification Support

engineering@allfasteners.com.au



For Customer Support

1800 255 349

For Chemical Anchor Performance Data see
individual product Technical Documents:

EF500R+

allfasteners.com.au/ef500r+



VF22PRO+

allfasteners.com.au/vf22pro+





CHEM STUD ANCHORS

CLASS 5.8 / CLASS 8.8 / 316 (A4-70)

CHISEL POINT CHEM STUDS

Allfasteners' Chisel Point Chem Studs are designed specifically to complement installation with CHEM AnchorCap glass capsules and chemical injection systems.

The stud comprises of a metric thread with a chisel point at one end and external hex head at the other; these features assist with safe and correct installation. The spin action and chisel end ensures the CHEM AnchorCap glass capsule is adequately broken and mixed within the pre-drilled hole.

The embedment marker also ensures installer can verify the correct depth of the anchor is set within the concrete.

Key Features:

SCM-Y CL5.8: Zinc plated for low corrosive environments

SCM-G CL5.8: HDG high corrosive protection for long outdoor exposure

SCM-S 316: Stainless steel for external and high corrosive environments

Chem Studs supplied with nut and washer

Non-expanding anchor – can be installed close to edge

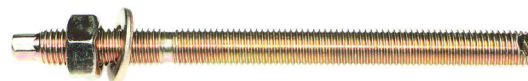
Anchor in concrete and masonry with multiple chemical anchor options



TECHNICAL INFORMATION

SCM-Y

- Property Class: CLASS 5.8
- Coating Specification: Zinc Yellow Electroplated to min. 3µm



SKU	Item	Thread Pitch	Tensile Stress Area	Yield Stress, f_{yt}	Ultimate Tensile Strength, f_{ut}	Characteristic Strength		ULS Design Capacity ¹⁾	
		[mm]	[mm ²]	[MPa]	[MPa]	Tensile [kN]	Shear [kN]	Tensile [kN]	Shear [kN]
1056.0080110	M8 x 110mm	1.25	36.6	400	500	18	11	12.0	8.8
1056.0100130	M10 x 130mm	1.50	58.0	400	500	29	17	19.3	13.6
1056.0120160	M12 x 160mm	1.75	84.3	400	500	42	25	28.0	20.0
1056.0160190	M16 x 190mm	2.00	157	400	500	79	47	52.7	37.6
1056.0200260	M20 x 260mm	2.50	245	400	500	123	74	82.0	59.2
1056.0240300	M24 x 300mm	3.00	353	400	500	177	106	118	84.8
Please enquire M30 custom length threaded rod		3.50	561	400	500	281	168	187	134

1) Ultimate Limit State (ULS) design capacity to AS 5216

Note: For installation instructions, please refer to the Technical Data Sheet for the specific chemical anchor.

CHEM STUD ANCHORS

CLASS 5.8 / CLASS 8.8 / 316 (A4-70)



SCM-G

- Property Class: CLASS 5.8
- Coating Specification: Hot-dipped Galvanised to min. 50µm



SKU	Item	Thread Pitch	Tensile Stress Area	Yield Stress, f_{yf}	Ultimate Tensile Strength, f_{uf}	Characteristic Strength		ULS Design Capacity ¹⁾	
		[mm]	[mm ²]	[MPa]	[MPa]	Tensile [kN]	Shear [kN]	Tensile [kN]	Shear [kN]
1054.0080110	M8 x 110mm	1.25	36.6	400	500	17	10	11.3	8.0
1054.0100130	M10 x 130mm	1.50	58.0	400	500	27	16	18.0	12.8
1054.0120160	M12 x 160mm	1.75	84.3	400	500	42	25	28.0	20.0
1054.0160190	M16 x 190mm	2.00	157	400	500	79	47	52.7	37.6
1054.0200260	M20 x 260mm	2.50	245	400	500	123	74	82.0	59.2
1054.0240300	M24 x 300mm	3.00	353	400	500	177	106	118	84.8
Please enquire M30 custom length threaded rod		3.50	561	400	500	281	168	187	134

¹⁾ Ultimate Limit State (ULS) design capacity to AS 5216

Note: For installation instructions, please refer to the Technical Data Sheet for the specific chemical anchor.

SCM-S

- Property Class: 316 (A4-70) Stainless Steel



SKU	Item	Thread Pitch	Tensile Stress Area	Yield Stress, f_{yf}	Ultimate Tensile Strength, f_{uf}	Characteristic Strength		ULS Design Capacity ¹⁾	
		[mm]	[mm ²]	[MPa]	[MPa]	Tensile [kN]	Shear [kN]	Tensile [kN]	Shear [kN]
1055.0080110	M8 x 110mm	1.25	36.6	450	700	26	13	13.9	8.3
1055.0100130	M10 x 130mm	1.50	58.0	450	700	41	20	21.9	12.8
1055.0120160	M12 x 160mm	1.75	84.3	450	700	59	30	31.6	19.2
1055.0160190	M16 x 190mm	2.00	157	450	700	110	55	58.8	35.3
1055.0200260	M20 x 260mm	2.50	245	450	700	172	86	92.0	55.1
1055.0240300	M24 x 300mm	3.00	353	450	700	247	124	132	79.5
Please enquire M30 custom length threaded rod		3.50	561	450	700	393	196	210	126

¹⁾ Ultimate Limit State (ULS) design capacity to AS 5216

Note: For installation instructions, please refer to the Technical Data Sheet for the specific chemical anchor.



CHEM STUD ANCHORS

CLASS 5.8 / CLASS 8.8 / 316 (A4-70)

TSH-G FLAT CUT CHEM STUDS / HDG CL8.8

Allfasteners' 8.8 Flat Cut Chem Studs available in extended lengths, anchors are pre-cut and chamfered at both ends.

Commonly used with EF500R+ and VF22PRO+, high tensile 8.8 grade studs provide greater performance as specified and designed by engineers.

Hot-dipped galvanised to a minimum of 50µm coating thickness, required for long term outdoor exposure.

Key Features:

Economical option - not cutting onsite, no waste

Chamfered and coated ends

Can be specified with structural nuts and washers or jam nuts and plates

Commonly specified for critical high load in tension and shear applications



TECHNICAL INFORMATION

- Property Class: CLASS 8.8
- Coating Specification: Hot-dipped Galvanised to min. 50µm

Size	Length	Thread Pitch	Tensile Stress Area	Yield Stress, f_{yf}	Ultimate Tensile Strength, f_{uf}	Characteristic Strength		ULS Design Capacity ¹⁾	
		[mm]	[mm ²]	[MPa]	[MPa]	Tensile [kN]	Shear [kN]	Tensile [kN]	Shear [kN]
M12	Various lengths available. See page 5	1.75	84.3	640	800	67	34	44.7	27.2
M16		2.00	157	640	800	126	63	84.0	50.4
M20		2.50	245	640	800	196	98	131	78.4
M24		3.00	353	640	800	282	141	188	113
M30		3.50	561	640	800	449	224	299	179
M36		4.00	817	640	800	654	327	436	262

1) Ultimate Limit State (ULS) design capacity to AS 5216

Note: For installation instructions, please refer to the Technical Data Sheet for the specific chemical anchor.

CHEM STUD ANCHORS

CLASS 5.8 / CLASS 8.8 / 316 (A4-70)



SKU	Size		
1056.0080110	SCM-Y Chem Stud M8 x 110mm / ZY	10	200
1056.0100130	SCM-Y Chem Stud M10 x 130mm / ZY	10	200
1056.0120160	SCM-Y Chem Stud M12 x 160mm / ZY	10	100
1056.0160190	SCM-Y Chem Stud M16 x 190mm / ZY	10	50
1056.0200260	SCM-Y Chem Stud M20 x 260mm / ZY	5	25
1056.0240300	SCM-Y Chem Stud M24 x 300mm / ZY	5	20
1054.0080110	SCM-G Chem Stud M8 x 110mm / HDG	10	200
1054.0100130	SCM-G Chem Stud M10 x 130mm / HDG	10	200
1054.0120160	SCM-G Chem Stud M12 x 160mm / HDG	10	100
1054.0160190	SCM-G Chem Stud M16 x 190mm / HDG	10	50
1054.0200260	SCM-G Chem Stud M20 x 260mm / HDG	5	25
1054.0240300	SCM-G Chem Stud M24 x 300mm / HDG	5	20
1055.0080110	SCM-S Chem Stud M8 x 110mm / 316	10	200
1055.0100130	SCM-S Chem Stud M10 x 130mm / 316	10	200
1055.0120160	SCM-S Chem Stud M12 x 160mm / 316	10	100
1055.0160190	SCM-S Chem Stud M16 x 190mm / 316	10	50
1055.0200260	SCM-S Chem Stud M20 x 260mm / 316	5	25
1055.0240300	SCM-S Chem Stud M24 x 300mm / 316	5	20

SKU	Size		
1536.0120220	TSH-G Threaded Stud 8.8 High-Tensile M12 x 220mm / HDG	10	-
1536.0120250	TSH-G Threaded Stud 8.8 High-Tensile M12 x 250mm / HDG	10	-
1536.0120300	TSH-G Threaded Stud 8.8 High-Tensile M12 x 300mm / HDG	10	-
1536.0160200	TSH-G Threaded Stud 8.8 High-Tensile M16 x 200mm / HDG	10	-
1536.0160250	TSH-G Threaded Stud 8.8 High-Tensile M16 x 250mm / HDG	10	-
1536.0160300	TSH-G Threaded Stud 8.8 High-Tensile M16 x 300mm / HDG	10	-
1536.0200200	TSH-G Threaded Stud 8.8 High-Tensile M20 x 200mm / HDG	10	-
1536.0200260	TSH-G Threaded Stud 8.8 High-Tensile M20 x 260mm / HDG	10	-
1536.0200320	TSH-G Threaded Stud 8.8 High-Tensile M20 x 320mm / HDG	10	-
1536.0200380	TSH-G Threaded Stud 8.8 High-Tensile M20 x 380mm / HDG	10	-
1536.0200450	TSH-G Threaded Stud 8.8 High-Tensile M20 x 450mm / HDG	10	-
1536.0240300	TSH-G Threaded Stud 8.8 High-Tensile M24 x 300mm / HDG	10	-
1536.0240350	TSH-G Threaded Stud 8.8 High-Tensile M24 x 350mm / HDG	10	-
1536.0240450	TSH-G Threaded Stud 8.8 High-Tensile M24 x 450mm / HDG	10	-
1536.0300380	TSH-G Threaded Stud 8.8 High-Tensile M30 x 380mm / HDG	1	-
1536.0300500	TSH-G Threaded Stud 8.8 High-Tensile M30 x 500mm / HDG	1	-
1536.0360450	TSH-G Threaded Stud 8.8 High-Tensile M36 x 450mm / HDG	1	-
1536.0360600	TSH-G Threaded Stud 8.8 High-Tensile M36 x 600mm / HDG	1	-

Customer Service 1800 255 349 | techadvice@allfasteners.com.au | allfasteners.com.au

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