

NCC COMPLIANT AS5216 CONFORMING

CHEMICAL INJECTION BREMFIX VINYLESTER

Range M8 - M24

Stainless Steel Studs External & marine applications

FEATURES & BENEFITS

- Ideal for safety critical applications.
- Intended working life of 50 years.
- ETA rating Option 1 for cracked concrete.
- VOC A+ rating.
- WRAS Approved for potable drinking water.
- LEED Compliance.
- Suitable for dry, wet & flooded holes.
- Fast cure time

APPLICATIONS/TRADES

- Structural steel connections to concrete.
- Road, tunnel & bridge heavy construction.
- Cracked concrete applications.
- Fast turnaround time structural connections.

COMPLIANCE



AS5216





EIN CONJUNCTION

DUSTRIAL STRENG









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RANGE						
Chemical Injection - Product Code & description	Anchor thread size	ETA Cert'n level	# fixings per cartridge (per below Range tables)			
			300ml	410ml		
ACIPCVR3002	M8 (10 x 80mm hole)	Option 1 - Cracked Concrete	75	100		
BremFix Vinylester Chemical Injection -	M10 (12 x 90mm hole)		50	67		
300ml cartridge	M12 (14 x 110mm hole)		32	42		
ACIPCVR4102	M16 (18 x 125mm hole)		20	26		
BremFix Vinylester Chemical Injection - 410ml cartridge	M20 (22 x 170mm hole)		12	15		
	M24 (28 x 210mm hole)		6	8		

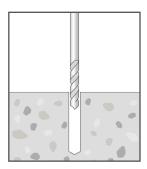
Chemical Anchor Stud - Product Code	Pack Qty	Thread size	Anchor length (mm)	Drill hole Ø (mm)	Drill hole depth (mm)	Minimum concrete thickness (mm)	Maximum fixture thickness (mm)	Fixture clearance hole Ø (mm)
			l _t	d _o	h ₁	h _{min}	t _{fix, max}	d _f
Chemical Anchor Studs (Stainless Steel A4 - 70)								
ACSM6081102	10	M8	110	10	80	110	15	10
ACSM6101302	10	M10	130	12	90	120	20	12
ACSM6121602	10	M12	160	14	110	140	25	14
ACSM6161902	10	M16	190	18	125	160	35	18
ACSM6202602	5	M20	260	22	170	220	50	22
ACSM6243002	5	M24	300	28	210	260	55	26



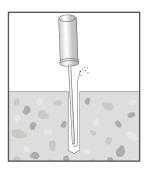
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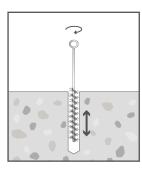
INSTALLATION



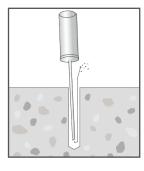
Drill hole into substrate to the specified diameter and depth using a rotary hammer drill and correctly sized carbide bit.



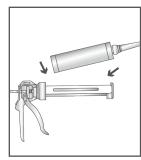
Blow out from the base of the drill hole at least 4 times until removed air is free of noticeable debris. For drill holes up to 22mm diameter - a manual blower pump may be used to clean the hole. For larger diameter holes - compressed air cleaning must be used and may also be used for smaller holes.



Brush 4 times with a wire brush (its diameter should be greater than the drill hole diameter) - inserting the brush to the base of the hole and withdrawing it with a twisting motion. If no resistance is felt during this step, the brush is worn - replace it.



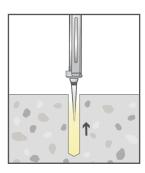
Blow out again at least 4 times.



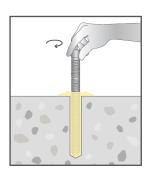
Insert the cartridge into the dispenser and screw the correct mixing nozzle onto the cartridge.



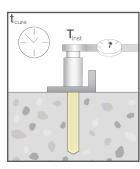
Prior to dispensing into the anchor hole, squeeze out a 10cm length bead of material and discard. The adhesive should now have a consistent, uniform color indicating correct mixing is occurring.



With the cartridge nozzle tip at the base of the cleaned drill hole, inject adhesive until the hole is approximately 2/3 full. Slowly withdraw the nozzle from the hole whilst injecting, keeping the nozzle tip immersed in the adhesive. This will avoid creating air pockets within the adhesive.



Ensure the anchor stud is clean and free of contaminants, grease etc. Push the anchor stud into the adhesive - slowly rotating the stud until it is seated against the base of the hole. An excess of adhesive around the top of the hole indicates sufficient material was injected into the hole, otherwise remove the anchor stud and renew the hole with adhesive.



All steps prior must be completed within the working time of the adhesive. Protect the anchor from disturbance until the full curing time has been reached. Once full cure is achieved, carefully place the fixture and apply the specified installation torque.



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PRODUCT INSTALL & PERFORMANCE INFORMATION									
							Design Capacities		
Chemical Anchor Stud - Product Code	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth (mm)	Minimum concrete thickness (mm)	Socket size AF (mm)	Installa- tion torque (Nm)	Uncracked concrete - tension (kN)	Uncracked concrete - shear (kN)	
	I _t	t _{fix, max}	h ₁	h _{min}	sw	T _{inst}	N _{Rd}	\mathbf{V}_{Rd}	
Chemical Anchor Studs (Stainless Steel A4 - 70)									
ACSM6081102	110	15	80	110	13	10	10.5	8.3	
ACSM6101302	130	20	90	120	17	20	13.5	12.8	
ACSM6121602	160	25	110	140	19	40	19.8	19.2	
ACSM6161902	190	35	125	160	24	60	24.4	35.3	
ACSM6202602	260	50	170	220	30	120	39.3	55.1	
ACSM6243002	300	55	210	260	36	160	50.9	79.5	

Note:

Installation in accordance with this Technical Data Sheet.

Concrete cylinder compressive strength = 32MPa.

Single anchor capacity - no nearby edge, minimum recommended concrete thickness

In service temperature range I.

Hammer drilled holes.

For combined load cases (tension & shear) - must also comply with $(N^*/N_{Rd}) + (V^*/V_{Rd}) \le 1.2$.

To address specific design cases, please refer to the product ETA document and Bremick for further details.

Important Disclaimer: Product performance information contained herein is based on ETA certificate data and AS5216:2021 inputs as appropriate. Capacity information is limited to very simple load case configurations and is provided to enable a relative comparison within and across product ranges. The design of an anchoring solution for a particular application should be conducted by an appropriately qualified design professional.

MINIMUM CURING TIMES						
Temperature in the concrete substrate	Gel / working time	Minimum curing time - dry concrete hole	Minimum curing time - wet concrete hole			
0°C ≤ substrate < 10°C	20 minutes	90 minutes	180 minutes			
10°C ≤ substrate < 20°C	9 minutes	60 minutes	120 minutes			
20°C ≤ substrate < 30°C	5 minutes	30 minutes	60 minutes			
30°C ≤ substrate < 40°C	3 minutes	20 minutes	40 minutes			
Cartridge / adhesive temperature ≥ 20°C						

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