

NCC COMPLIANT AS5216 CONFORMING

CHEMICAL CAPSULE EPOXY ACRYLATE

Range M8 - M24

Stainless Steel Studs
External & marine applications

FEATURES & BENEFITS

- Ideal for safety critical applications.
- Intended working life of 50 years.
- No mess, no waste - 1 capsule per hole.
- ETA rating - Option 8, Uncracked Concrete.
- Ideal for close to edge & close anchor spacing applications.
- Fast cure times.

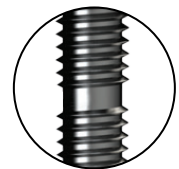
APPLICATIONS/TRADES

- Structural steel connection to concrete.
- Plant room equipment hold down.
- Hand rails.
- Steel framing.
- Machinery hold down.

COMPLIANCE



Convenient external
hex drive head with
driver bit included



Correct install depth
mark on stud aligns
with concrete surface



Chisel point ensures
thorough mixing of
chemical during install

**STAINLESS
STEEL
316**



AS5216



OPTION 8
Uncracked Concrete

CHEMICAL CAPSULE

EPOXY ACRYLATE

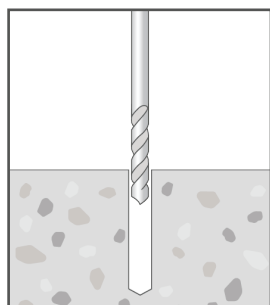
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RANGE

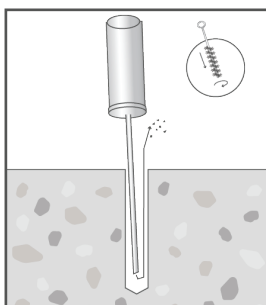
Chemical Anchor Stud - Product Code	Pack Qty	Thread size	Anchor length (mm)	Drill hole Ø (mm)	Drill hole depth (mm)	Minimum concrete thickness (mm)	Maximum fixture thickness (mm)	Fixture clearance hole Ø (mm)
			l_t	d_o	h_1	h_{min}	$t_{fix, max}$	d_f
ACSM6081102	10	M8	110	10	80	110	15	9
ACSM6101302	10	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	25	170	220	50	22
ACSM6243002	5	M24	300	28	210	260	55	26

Chemical Capsule - Product Code	Product Description	Pack Qty	Drill hole Ø (mm)	Drill hole depth (mm)
			d_o	h_1
ACCM080002	Chemical Capsule M8	10	10	80
ACCM100002	Chemical Capsule M10	10	12	90
ACCM120002	Chemical Capsule M12	10	14	110
ACCM160002	Chemical Capsule M16	10	18	125
ACCM200002	Chemical Capsule M20	6	25	170
ACCM240002	Chemical Capsule M24	6	28	210

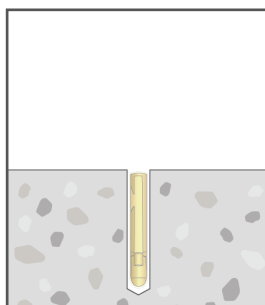
INSTALLATION



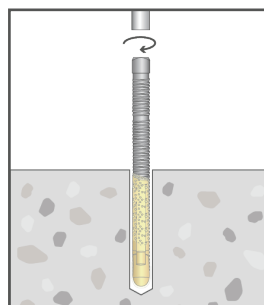
Drill hole into substrate to the specified diameter and depth.



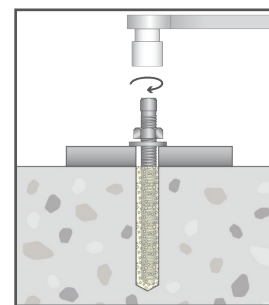
Clean the hole using the following sequence with a blower pump and correctly sized wire / nylon brush: Blow, brush, blow, brush, blow. Protect the hole from contamination prior to completing the installation.



Insert capsule into clean hole.



Using a power tool and the driver bit supplied with the studs, rotate & drive the anchor stud into the capsule until the anchor stud bottoms out in the hole. Stop driving and remove tool / driver at this point. **PROTECT THE ANCHOR FROM DISTURBANCE UNTIL THE CURE TIME HAS ELAPSED.**



Once the cure time has elapsed, place the fixture and clamp it down using a wrench to tighten to the specified installation torque.

CHEMICAL CAPSULE

EPOXY ACRYLATE

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PRODUCT INSTALL & PERFORMANCE INFORMATION

Chemical Anchor Stud - Product Code	Anchor length (mm)	Maximum fixture thickness (mm)	Drill hole depth (mm)	Minimum concrete thickness (mm)	Socket size AF (mm)	Installation torque (Nm)	Design Capacities	
							Uncracked concrete - tension (kN)	Uncracked concrete - shear (kN)
	l_t	$t_{fix, max}$	h_1	h_{min}	SW	T_{inst}	N_{Rd}	V_{Rd}
ACSM6081102	110	15	80	110	13	10	11.1	8.3
ACSM6101302	130	20	90	120	17	20	16.7	12.8
ACSM6121602	160	25	110	140	19	40	22.2	19.2
ACSM6161902	190	35	125	160	24	80	33.3	35.2
ACSM6202602	260	50	170	220	30	120	50.0	55.0
ACSM6243002	300	55	210	260	36	180	66.7	79.4

Note: Concrete cylinder compressive strength = 32MPa.
 Single anchor capacity - no nearby edge, minimum recommended concrete thickness.
 For combined load cases (tension & shear) - must also comply with $(N^* / N_{Rd}) + (V^* / V_{Rd}) \leq 1.2$.

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	Minimum curing time - dry concrete hole	Minimum curing time - wet concrete hole
$\geq 0^{\circ}\text{C}$	5 hours	10 hours
$\geq +5^{\circ}\text{C}$	1 hour	2 hours
$\geq +20^{\circ}\text{C}$	20 minutes	40 minutes
$\geq +30^{\circ}\text{C}$	10 minutes	20 minutes