



Product Information

The Epoxy Acrylate, Hammer In Capsules are suitable for use in solid concrete and some natural stone. They can be used with reinforcing bar or threaded rods and can achieve high loads by using 2 capsules at double embedment depth.

Features

- 1 Expansion free
- 2 High Loads
- 3 Increased embedment depth
- 4 Rapid installation

For Rebar Design reference should be made to Eurocode 2

Capsule Data

Part Number	Capsule Diameter mm	Capsule Length mm	Rebar				Threaded Studs			
			Nominal Diameter mm	Drill Diameter mm	Hole Depth		Nominal Diameter mm	Drill Diameter mm	Hole Depth	
					Single	Double			Single	Double
JCAPHM08	9	80	8	10	80	160	8	10	80	160
JCAPHM10	11	80	10	13	100	200	10	12	100	200
JCAPHM12	13	95	12	15	120	240	12	14	120	240
JCAPHM16	17	95	16	20	160	320	16	18	125	250
JCAPHM20	22	175	20	25	200	400	20	25	200	400
JCAPHM24	24	210	25	30	250	500	24	28	240	480
JCAPHM30	33	265	32	38	320	640	30	35	300	600

Setting Times

Base Material Temp °C	Cure Time Dry Concrete mins	Cure Time Wet Concrete mins
>20	60	120
10-20	120	240
0-10	300	600
-05.0	600	

Installation Instructions

- 1 Drill correct diameter hole to correct depth
- 2 Clean out hole by brushing and blowing to remove drilling debris and dust
- 3 Insert capsule or capsules into drilled hole with arrow
- 4 Hammer in Rebar or threaded rod. (Take care not to damage end of thread on threaded rod)
- 5 Allow to cure for appropriate time attach fixture or other rebar

Grade 50 Rebar x 1 Capsule (C20/25 Concrete)									
Bar Diameter mm	Characteristic Resistance kN		Design Resistance kN		Recommended Load kN		Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
8	20.0	9.9	9.8	6.6	7.0	4.7	110	65	90
10	28.5	15.7	11.3	10.5	8.1	7.5	180	90	125
12	47.5	30.7	18.8	20.5	13.4	14.6	240	120	160
16	84.4	54.5	33.5	36.3	23.9	25.9	360	180	270
20	131.8	85.5	52.3	57.0	37.4	40.7	400	200	300
25	155.1	96.1	61.6	64.1	44.0	45.8	420	210	360
32	258.6	152.8	102.6	101.9	73.3	72.8	560	280	420

Grade 50 Rebar x 2 Capsule (C20/25 Concrete)									
Bar Diameter mm	Characteristic Resistance kN		Design Resistance kN		Recommended Load kN		Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
8	20.0	9.9	13.3	6.6	9.5	4.7	50	65	90
10	31.6	15.7	21.0	10.5	15.0	7.5	310	165	125
12	61.6	30.7	37.7	20.5	26.9	14.6	480	240	160
16	109.0	54.5	67.0	36.3	47.9	25.9	660	330	270
20	171.1	85.5	104.7	57.0	74.8	40.7	800	400	300
25	192.4	96.1	123.1	64.1	87.9	45.8	900	450	360
32	305.7	152.8	203.8	101.9	145.6	72.8	1150	580	420

Grade 5.8 Studs x 1 Capsule (C20/25 Concrete)									
Bar Diameter mm	Characteristic Resistance kN		Design Resistance kN		Recommended Load kN		Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
8	18.5	9.0	9.8	7.2	7.0	5.1	160	80	90
10	28.5	14.0	11.3	11.2	8.1	8.0	180	90	125
12	47.5	21.0	18.8	16.8	13.4	12.0	240	120	160
16	84.4	39.0	33.5	31.2	23.9	22.3	320	160	270
20	131.8	61.0	52.3	48.8	37.4	34.9	400	200	300
24	155.1	88.0	61.6	70.4	44.0	50.3	420	210	360
30	258.6	140.2	102.6	112.2	73.3	51.3	560	260	420

Grade 5.8 Studs x 2 Capsule (C20/25 Concrete)									
Bar Diameter mm	Characteristic Resistance kN		Design Resistance kN		Recommended Load kN		Spacing mm	Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
8	18.5	9.0	12.2	7.2	8.7	5.1	40	50	90
10	29.0	14.0	19.3	11.2	13.8	8.0	260	150	125
12	56.5	21.0	37.7	16.8	26.9	12.0	480	240	160
16	100.0	39.0	66.6	31.2	47.6	22.3	660	330	270
20	157.0	61.0	104.7	48.8	74.8	34.9	800	400	300
24	176.5	88.0	117.7	70.4	84.1	50.3	810	405	360
30	280.5	140.2	187.0	112.2	133.6	51.3	930	500	420

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

Influence of Concrete Strength

Concrete Strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm ²	20	25	30	40	45	50
Cube	N/mm ²	25	30	37	50	55	60
Factor		1.00	1.10	1.22	1.41	1.48	1.55

When using concrete factors check all other information to ensure Steel Strength and Pull out Resistance is not exceeded

Steel Design Resistance for single anchor

		M8	M10	M12	M16	M20	M24	M30	
Tension	kN	12.0	19.3	28.0	52.0	82.0	118.0	187.0	Grade 5.8 Rebar Fe500
	kN	13.3	21.0	41.0	72.6	114.0	128.0	203.8	
Shear	kN	7.1	11.2	16.8	31.2	48.8	70.4	112.2	Grade 5.8 Rebar Fe500
	kN	6.6	10.5	20.5	36.3	57.0	64.1	101.9	