

## Product Information



### DESCRIPTION

IKA-SPIN-IN is a resin anchor system. The system relies on the adhesion between the concrete and resin, which is free from expansion forces. This makes it an ideal choice where there are close edge and spacing distances.

### SUITABLE FOR USE IN:

Concrete.

### FEATURES

1. Quick and easy to install.
2. Capsule contains exact amounts of ingredients making it a very consistent product.
3. Adhesive strength is not affected by unpolluted water (curing time will be affected).
4. Suitable for overhead applications.
5. Suitable for use in wet conditions.

## IKA-SPIN-IN Capsules

CAPSULE SIZE	CAPSULE LENGTH (mm)	MAXIMUM FIXTURE THICKNESS (mm) (Tfx)	HOLE DIAMETER IN CONCRETE (mm)	HOLE DIAMETER IN FIXTURE (mm) (df)	HOLE DEPTH IN CONCRETE (mm) (h)	RECOMMENDED TORQUE (Nm) (Tinst)	CAPSULES PER BOX
						IN CONCRETE	
M8	80	17	10	9	80	11	10
M10	80	28	12	11	90	22	10
M12	95	36	14	13	110	38	10
M16	95	42	18	17	125	95	10
M20	175	65	25	22	170	150	6
M24	210	55	28	26	210	200	6
M30	265	65	35	33	280	320	6

For range of internally threaded sockets see accessories page 54.

## IKA-SPIN-IN Studs (Also suitable for all cartridge resin systems)



STUD THREAD SIZE (mm)	STUD OVERALL LENGTH (mm) (l)	NUT DIAMETER (mm) (AF) (Sw)	WASHER DIAMETER (mm) (Dw)	STUD PRODUCT CODES (Complete with nut and washer)				
				STUDS PER BOX/PACK	ZINC PLATED	STAINLESS STEEL GRADE 304 A2	Stud Drivers	
					NEW CODE	NEW CODE	PRODUCT CODE	NEW CODE
M8	110	13	17	10	IKA-08001	ISS-08001	IKA-25SD SOCKET DRIVE AVAILABLE EXTRA	
M10	130	17	21	10	IKA-10001	ISS-10001		
M12	160	19	24	10	IKA-12001	ISS-12001		
M16	190	24	30	10	IKA-16001	ISS-16001		
M20	260	30	37	6	IKA-20002	ISS-20002		
M24	295	36	44	6	IKA-24001	ISS-24001		
M30	380	46	56	6	IKA-30001	ISS-30001		

BASE MATERIAL TEMPERATURE (°C)	> 20	11 – 20	6 – 10	1 – 5	-5 – 0
Curing time dry	30 mins	1 hour	3 hours	6 hours	15 hours
Curing time wet	1 hour	2 hours	6 hours	12 hours	30 hours

## Specification Data

### IKA SPIN-IN Performance Data (Uncracked Concrete only)

	M8	M10	M12	M16	M20	M24	M30
Concrete Strength 25 - 55 MpA Max. Rec. load/unfactored Tensile kN	4	7	10	15	27	37	60
Concrete Strength 25 - 55 MpA Max. Rec. load/unfactored Shear kN	4	7	10	15	27	37	60
Concrete Strength 15 MpA Max. Rec. load/unfactored Tensile kN	3	5	7	10	19	26	42
Concrete Strength 15 MpA Max. Rec. load/unfactored Shear kN	3	5	7	10	19	26	42
Hole Diameter mm	10	12	14	18	25	28	35
Characteristic Hole Depth mm	85	90	105	125	170	210	280
Characteristic Anchor Spacing Greater than mm	200	220	270	310	420	520	700
Min. Anchor Spacing Equal to mm	80	90	110	125	170	210	280
Characteristic Edge Distance Greater than mm	100	110	135	155	210	260	350
Min. Edge Distance Equal to mm	40	45	55	65	85	105	140
Characteristic Width of concrete Greater than mm	200	220	270	310	420	520	700
Min. Width of concrete Equal to mm	80	90	110	125	170	210	280
Thickness of concrete Greater than mm	130	140	160	175	220	260	330
Hole in the structural steel to be assembled mm	9	11	13	17	22	26	33
Max. Torque with dinamometric handles Nm	10	20	40	80	150	200	400

#### Reduction factors - Edge and spacing distances

Where characteristic dimensions are equal to or greater than those supplied in above table, the full recommended anchor loads per individual anchor are achieved. Where these dimensions are not achievable the appropriate reduction needs to be applied (ie. where  $y =$  appropriate size bolt. Then  $yKN \times a \times ar =$  New anchor strength)

#### REDUCTION FACTORS ANCHOR SPACING - "a" (From midpoint to midpoint)

(mm)	M8	M10	M12	M16	M20	M24	M30
350							1.00
340							0.97
330							0.94
320							0.91
310							0.89
300							0.83
290							0.80
280							0.77
270							0.74
260						1.00	0.71
250						0.96	0.69
240						0.92	0.67
235						0.90	0.63
220						0.85	0.60
210					1.00	0.81	0.57
200					0.95	0.77	0.54
190					0.90	0.73	0.51
180					0.86	0.69	0.49
170					0.81	0.69	0.46
160					0.76	0.62	0.44
155				1.00	0.74	0.60	0.43
150				0.97	0.71	0.58	0.40
140				0.90	0.67	0.54	
135			1.00	0.87	0.64	0.52	
130			0.96	0.84	0.62	0.50	
120			0.87	0.77	0.57	0.46	
110		1.00	0.81	0.71	0.52	0.42	
104		0.95	0.77	0.67	0.50	0.40	
100	1.00	0.91	0.74	0.65	0.48		
94	0.94	0.85	0.70	0.61	0.45		
90	0.90	0.82	0.67	0.58	0.43		
84	0.84	0.76	0.62	0.54	0.40		
80	0.80	0.73	0.59	0.52			
70	0.70	0.64	0.52	0.45			
62	0.62	0.56	0.46	0.40			
60	0.60	0.55	0.44				
54	0.54	0.49	0.40				
50	0.50	0.45					
44	0.44	0.40					
40	0.40						
(mm)	M8	M10	M12	M16	M20	M24	M30

#### REDUCTION FACTORS EDGE CONCRETE DISTANCE SPACING - "ar"

(mm)	M8	M10	M12	M16	M20	M24	M30
700							1.00
680							0.99
660							0.97
640							0.96
620							0.94
600							0.93
580							0.91
560							0.90
540							0.89
520						1.00	0.87
500						0.98	0.86
470					1.00	0.95	0.84
450					0.98	0.93	0.82
440					0.97	0.92	0.81
420					0.95	0.90	0.80
400					0.93	0.88	0.79
380					0.90	0.87	0.77
360					0.88	0.85	0.76
340					0.86	0.83	0.74
320					0.84	0.81	0.73
310				1.00	0.83	0.80	0.72
300				0.98	0.82	0.79	0.71
280				0.95	0.80	0.77	0.70
270			1.00	0.94	0.79	0.76	
260			0.98	0.92	0.78	0.75	
240			0.94	0.89	0.76	0.73	
220		1.00	0.91	0.85	0.73	0.71	
208		0.97	0.89	0.84	0.72	0.70	
200	1.00	0.95	0.87	0.82	0.71		
188	0.97	0.93	0.85	0.80	0.70		
180	0.95	0.91	0.83	0.79			
168	0.92	0.88	0.81	0.77			
160	0.90	0.86	0.80	0.76			
140	0.85	0.82	0.76	0.73			
124	0.81	0.78	0.73	0.70			
120	0.80	0.77	0.72				
108	0.77	0.75	0.70				
100	0.75	0.73					
88	0.72	0.70					
80	0.70						
(mm)	M8	M10	M12	M16	M20	M24	M30