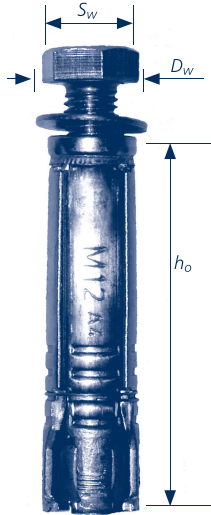


IKA STAINLESS STEEL 304 (A2) SHIELD ANCHOR LOOSE BOLT FOR CONCRETE, BRICKWORK & STONE



Product Information



DESCRIPTION

World's most popular expanding shield anchor.
Easy to use with good load carrying capacity.
Ideal general purpose anchor bolt with excellent tolerance to variation in hole size.
The collapsible ferrule ensures positive clamping force is transmitted to the fixture.

SUITABLE FOR USE IN:

Concrete
Brickwork
Stone.

FEATURES

1. Shield available seperately.

STAINLESS STEEL 304 Shield Anchor Loose Bolt

REFERENCE	BOLT SIZE	BOLT LENGTH	BOLT HEAD DIAMETER	WASHER DIAMETER (mm)	SHIELD LENGTH	FIXTURE THICKNESS (mm)		HOLE DIAMETER (mm)		MINIMUM HOLE DEPTH (mm)	EFFECTIVE EMBEDMENT DEPTH (mm)	RECOMMENDED TORQUE	
						MAX (mm)	MIN (mm)	IN FIXTURE	IN STRUCTURE			30N/mm ² CONCRETE	20.5N/mm ² BRICKWORK
6 x 60	M6	60	10	12.5	40	10	0	6.5	10	45	35	6	4.5
8 x 70	M8	70	13	17	50	10	0	9	14	55	40	14	7
10 x 75	M10	75	17	21	60	10	0	11	16	65	50	27	13
12 x 90	M12	90	19	24	80	10	0	13	20	85	60	46	20

IKA STAINLESS STEEL 304 (A2) SHIELD ANCHOR LOOSE BOLT FOR CONCRETE, BRICKWORK & STONE



Specification Data

STAINLESS STEEL 304 Shield Anchor Loose Bolt Performance Data

SIZE	CONCRETE = 30N/mm ² (C20/25)				BRICKWORK = 20.5N/mm ²
	RECOMMENDED LOAD		ULTIMATE LOAD		RECOMMENDED LOAD
	KN		KN		KN
	TENSILE	SHEAR	TENSILE	SHEAR	TENSILE AND SHEAR
M6	2.0	1.6	4.2	3.9	1.0
M8	3.9	3.4	7.9	6.9	1.2
M10	5.7	5.3	11.4	10.2	1.4
M12	8.6	7.4	17.3	14.9	2.0

Edge Distance (Concrete Only)

EDGE (mm)	TENSILE: EDGE REDUCTION FACTORS							EDGE (mm)	SHEAR: EDGE REDUCTION FACTORS						
	M6	M8	M10	M12	M16	M20	M24		M6	M8	M10	M12	M16	M20	M24
50	0.70							60	0.50						
60	0.80	0.70						70	0.64						
70	0.90	0.80	0.70					80	0.76	0.50					
80	1.00	0.90	0.80	0.70				100	1.00	0.75	0.50				
100		1.00	0.90	0.78	0.70			120		1.00	0.69	0.50			
120			1.00	0.85	0.78	0.70		160			1.00	0.85			
140				0.93	0.85	0.76	0.70	170			0.93	0.50			
160				1.00	0.93	0.82	0.76	180			1.00	0.55			
190					1.00	0.88	0.82	220				0.76	0.50		
220						0.94	0.88	260				1.00	0.75	0.50	
250						1.00	0.94	300					1.00	0.75	
280							1.00	350						1.00	

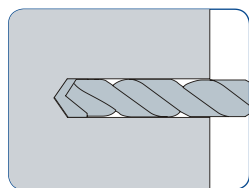
Spacing (Concrete Only)

SPACING (mm)	TENSILE & SHEAR REDUCTION FACTORS							
	M6	M8	M10	M12	M16	M20	M24	
60	0.70							
80	0.80	0.70						
100	0.90	0.80	0.70					
120	1.00	0.90	0.80	0.70				
150		1.00	0.90	0.78	0.70			
180			1.00	0.85	0.78	0.70		
210				0.93	0.85	0.78	0.70	
250				1.00	0.93	0.85	0.76	
290					1.00	0.93	0.82	
330						1.00	0.88	
370							0.94	
420								1.00

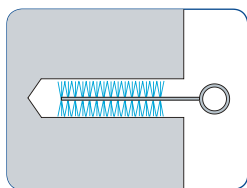
Brickwork Application

When installing into brickwork and there is a combined load in tension and shear, the resultant load must not exceed the quoted performance figure.

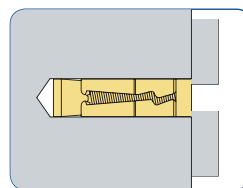
Installation



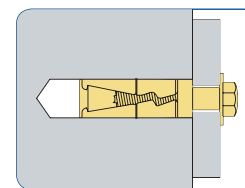
1. Drill a hole of required diameter and depth.
Note: When fixing into brickwork, mortar joints should be avoided.



2. Remove debris and thoroughly clean hole with brush and pump.



3. Remove bolt and washer. Insert shield and place fixture over the hole.



4. Insert bolt with washer through the fixture and tighten to the recommended torque.