



Screwbolts SB2 PLUS



X ANCHORS



SYMPAFIX[®]
serious fixings

by

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SB2 SCREWBOLTS

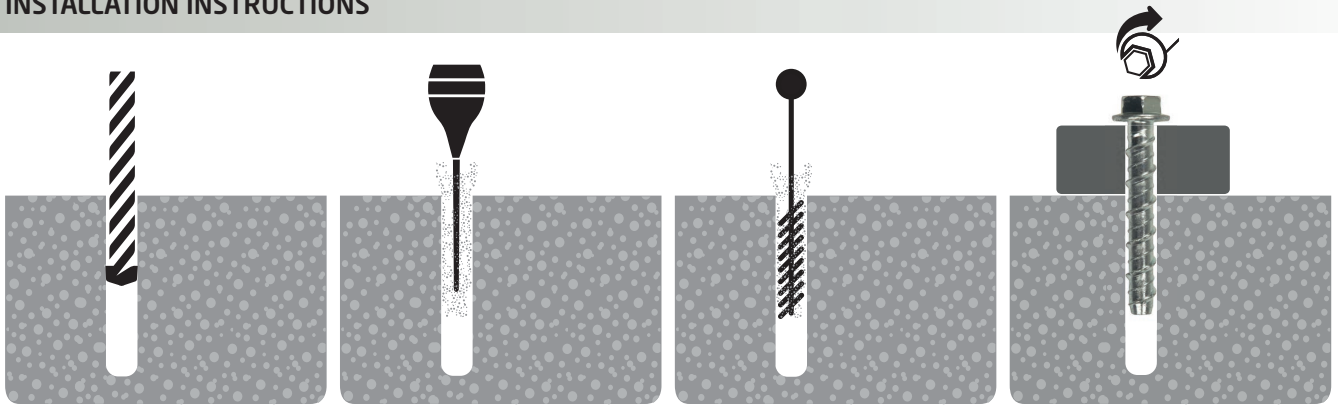
OVERVIEW

- SA TS 101:2015 / AS 5216:2018 Compliant
- ETA Option 1 approval for use in cracked and non-cracked concrete
- 3 approved embedment depths per anchor diameter
- Marking of diameter and anchor length on the head for quick and easy post-installation inspection
- Suitable for concrete, solid brickwork and sandstone/limestone
- Stress free anchoring: suitable for very small edge distances and spacing
- Integrated surated washer to firmly secure the workpiece
- Cutting teeth at the lower end of the thread for quick installation, even in very hard concrete
- Fully removable for temporary fixings
- Aesthetic finish
- F120 Fire Approval

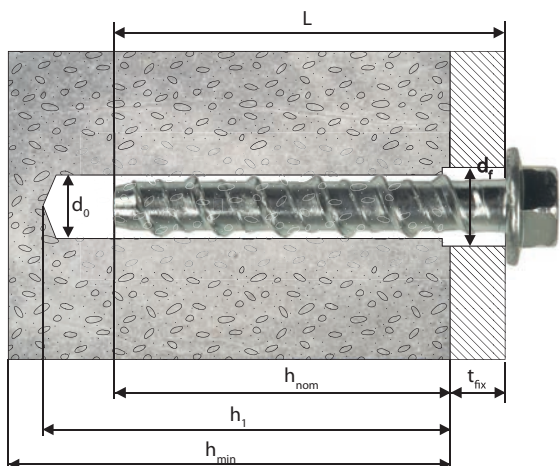
APPROVALS AND TEST REPORTS



INSTALLATION INSTRUCTIONS



TECHNICAL DATA








- L:** anchor length
- t_{fix}:** maximum fixture thickness
- d_f:** diameter through hole fixture
- d_o:** drill hole diameter
- h_{nom}:** embedment depth
- h₁:** minimum drill hole depth
- h_{min}:** minimum member thickness
- c_{min}:** minimum edge distance
- s_{min}:** minimum spacing
- N_{Rd}:** design tension load
- V_{Rd}:** design shear load

SB2 SCREWBOLTS

Design Properties



Screwbolts SB2-PLUS (carbon steel mechanically galvanised 45µm)

Part No.	Description						qty
		mm	mm	mm	t _{fix} mm	mm	
S-SB2+08050G (70464)	8 x 50mm	8	45	5	13	50	400
S-SB2+08075G (70466)	8 x 75mm			30			
S-SB2+10075G (70472)	10 x 75mm	10	50	25	15	50	200
S-SB2+10100G (70474)	10 x 100mm			50			
S-SB2+12100G (70480)	12 x 100mm	12	50	50	16	25	100
S-SB2+14100G (70486)	14 x 100mm	14	60	40	18	25	100
S-SB2+14130G (70488)	14 x 130mm			70		25	100

Performance Data - Design Resistance

Type	Article number	Size indication	Anchor length L (mm)	Maximum fixture thickness t _{fix} (mm)	Diameter through hole fixture d _f (mm)	Drill hole diameter (mm)	Embedment depth (mm)	Effective Anchor Depth h _{ef} (mm)	Noncracked concrete tension load N _{Rd} (kN)	Cracked concrete tension load N _{Rd} (kN)	Noncracked concrete shear load V _{Rd} (kN)	Cracked concrete shear load V _{Rd} (kN)
S-SB2+08050G	70464	8 x 5/50	50	5	12	8	45	30	3.3	1.7	5.5	3.9
S-SB2+08075G	70466	8 x 10-30/75	75	10	12	8	65	47	6.7	4.2	10.9	7.7
				25			50	3.3	2.2	6.7	4.8	
				30			45	3.3	1.7	5.5	3.9	
S-SB2+10075G	70472	10 x 15-25/75	75	15	14	10	60	42	5.0	3.3	9.2	6.5
				25			50	3.3	2.2	6.4	4.6	
S-SB2+10100G	70474	10 x 25-50/100	100	25	14	10	75	54	8.8	5.0	13.4	9.5
				40			60	5.0	3.3	9.2	6.5	
				50			50	3.3	2.2	6.4	4.6	
S-SB2+12100G	70480	12 x 5-50/100	100	5	16	12	95	71	13.9	8.8	25.6	26.5
				40			60	5.0	3.3	18.3	13.1	
				50			50	3.3	2.2	12.8	9.1	
S-SB2+14100G	70486	14 x 30-40/100	100	30	18	14	70	48	6.7	4.2	22.4	16.0
				40			60	5.0	2.8	17.0	12.1	
S-SB2+14130G	70488	14 x 15-70/130	130	15	18	14	115	86	19.4	11.1	35.7	35.7
				60			70	6.7	4.2	22.4	16.0	
				70			60	5.0	2.8	17.0	12.1	

Note: Loads in kN for a single anchor in concrete C20/25, no influence of edge or spacing distances. Refer to Design Fix Software for further design information.