



HOME NEWS PRODUCTS SORMAT OY CONTACT MEDIABANK ACADEMY

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METAL ANCHORS

PFG ANCHORS / SB, SBS



SB Studbolt, zinc plated (ETA M6 - M12)



SBS Studbolt, sherardized (outgoing type)

RANGE AND PACKAGES

SIZE	CODE		PACKAGES BOX/OUTER BOX/PALLET	WEIGHT KG/1000 PCS	SSTL (SB)
	SB	SBS*			
6-15	77001	77051	50 / 500 / 28000	24,8	1356204
6-30	77002	77052	50 / 500 / 28000	27,5	1356205
8-20	77004	77054	50 / 250 / 14000	62,7	1356223
8-30	77005	77055	50 / 250 / 14000	66,3	1356208
8-45	77006	77056	50 / 250 / 14000	69,9	1356209
8-85	77007	77057	25 / 125 / 7000	82,7	1356210
10-10	77009	77059	25 / 125 / 7000	96,2	1356211
10-20	77010	77060	25 / 125 / 7000	101,2	-
10-30	77011	77061	25 / 125 / 7000	106,1	1356212
10-40	77012	77062	25 / 125 / 7000	111,6	1356213
10-50	77013	-	25 / 125 / 7000	117,1	1356214
10-70	77014	77064	25 / 125 / 7000	126,3	1356215
12-20	77016	77066	10 / 100 / 4200	188,0	1356216
12-30	77017	-	10 / 100 / 4200	200,3	1356217
12-50	77018	77068	10 / 50 / 2800	212,6	1356218
12-65	77019	-	10 / 50 / 2800	220,0	1356219
16-25*	77021	77071	10 / 50 / 2100	399,1	1356221
16-45*	77022	77072	10 / 50 / 2100	426,0	1356222

* Do not belong to ETA

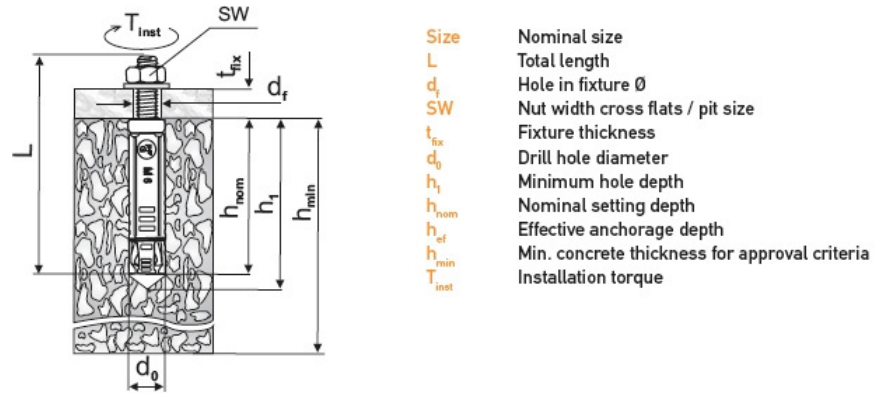
The PFG shield anchor is for medium-heavy and heavy fixings in solid and hard materials like concrete, solid brick (max. M 8) and natural stone. Due to PFG's large expansion, it is also suitable for use in materials of slightly lower and porous quality as found in many old constructions.



INSTALLATION PARAMETERS

SB(-S ⁴)	FIXING DETAILS									
	ANCHOR AND FIXTURE DETAILS					INSTALLATION DATA				
	size	L	d _f	SW	t _{fix}	d ₀	h ₁	h _{nom}	h _{ef}	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
6 - 15	M6	62	7	10	15	10	45	40	40	
6 - 30	M6	77	7	10	30	10	45	40	40	
8 - 20	M8	78	9	13	20	14	55	50	50	
8 - 30	M8	88	9	13	30	14	55	50	50	
8 - 45	M8	103	9	13	45	14	55	50	50	
8 - 85	M8	143	9	13	85	14	55	50	50	
10 - 10	M10	84	11	17	10	16	65	60	60	
10 - 20	M10	94	11	17	20	16	65	60	60	

10 - 30	M10	104	11	17	30	16	65	60	60
10 - 40	M10	114	11	17	40	16	65	60	60
10 - 50	M10	124	11	17	50	16	65	60	60
10 - 70	M10	144	11	17	70	16	65	60	60
12 - 20	M12	115	13	19	20	20	85	80	80
12 - 30	M12	125	13	19	30	20	85	80	80
12 - 50	M12	145	13	19	50	20	85	80	80
12 - 65	M12	160	13	19	65	20	85	80	80
16 - 25 ⁴⁾	M16	145	18	24	25	25	105	100	100
16 - 45 ⁴⁾	M16	165	18	24	45	25	105	100	100



CAPACITIES

TYPE	PERMISSIBLE LOADS ¹⁾²⁾ IN UNCRACKED C20/25 Option 8 - Design method A		
		TENSION	SHEAR ³⁾
	T _{inst} Nm	N _{sk} kN	V _{sk} kN
6 - 15	10	2,4	1,7
6 - 30	10	2,4	1,7
8 - 20	25	4,3	3,1
8 - 30	25	4,3	3,1
8 - 45	25	4,3	3,1
8 - 85	25	4,3	3,1
10 - 10	50	5,7	5,0
10 - 20	50	5,7	5,0
10 - 30	50	5,7	5,0
10 - 40	50	5,7	5,0
10 - 50	50	5,7	5,0
10 - 70	50	5,7	5,0
12 - 20	85	7,6	7,2
12 - 30	85	7,6	7,2
12 - 50	85	7,6	7,2
12 - 65	85	7,6	7,2
16 - 25 ⁴⁾	120	11,9	13,5
16 - 45 ⁴⁾	120	11,9	13,5

¹⁾ Load figures include the resistances' partial safety factors as per approvals and a partial safety factor on the action of $\gamma_F = 1.4$. Load figures apply for a rebar spacing $s \geq 15$ cm or alternatively for a rebar spacing $s \geq 10$ cm in combination with a rebar diameter of $d_s \leq 10$ mm. ²⁾ Concrete is considered uncracked when the value of tension within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3$ N/mm² can be assumed (σ_L equals the tension within the concrete as a result of external loads, forces on anchor included; σ_R equals the tension coming from shrinkage or creep of the concrete, as well as displacements of supports or temperature variations). ³⁾ Shear load figures apply for an anchor without influence of a concrete edge. For shear loads close to an edge ($c \leq 10 \times h_{ef}$), concrete edge failure has to be checked as per ETAG, Annex C, Design Method A. ⁴⁾ Not part of ETA approvals. Figures are manufacturer's recommendation.