

BeziFix[®] Anchor ZF/ZS/ZSS

TECHNICAL DATA SHEET



SIHGA®	BeziFix® Anchor		ZF	ZS	ZSS
coating			SC 12	SC 12	SC 4
diameter	Ø	[mm]	7,5	10,5	12,5
screw-in depth	h_{nom}	[mm]	55	75	95
effective anchoring depth	h_{ef}	[mm]	41	55	71
drill diameter - concrete	d_o	[mm]	6,0	9,0	10,0
drilling hole depth	h_1	[mm]	70	90	110
min. concrete thickness	h_{min}	[mm]	100	160	200
max.tightening torque ⁴⁾	T_{max}	[Nm]	250	450	450
mind. edge and axial distances without load influence		[mm]	40	55	65

recommended tensile capacity F_1 per anchor without edge influence, with edge distance $c \geq 1,2 \times C_{Cr,sp}$ (lt. ETA) and axial distance $s \geq 3 \times h_{ef}$

uncracked concrete min. C 20/25	F_1	[kN]	2,9 ¹⁾	3,3 ²⁾	13,9 ²⁾
cracked concrete min. C 20/25	F_1	[kN]	1,4 ¹⁾	1,7 ²⁾	6,7 ²⁾
recommended edge distance	$C_{d,F1}$	[mm]	90	120	168
recommended axial distance	$S_{d,F1}$	[mm]	123	165	213

recommended lateral capacity F_2 per anchor without edge influence, with edge distance $c \geq 10 \times h_{ef}$ and axial distance $s \geq 3 \times h_{ef}$

concrete min. C 20/25	F_2	[kN]	7,6 ³⁾	14,9 ³⁾	23,1 ³⁾
recommended edge distance	$C_{d,F2}$	[mm]	410	550	710
recommended axial distance	$S_{d,F2}$	[mm]	123	165	213

¹⁾ low installation safety $\gamma_2 = 1.4$; ETAG 001 2010 annex C

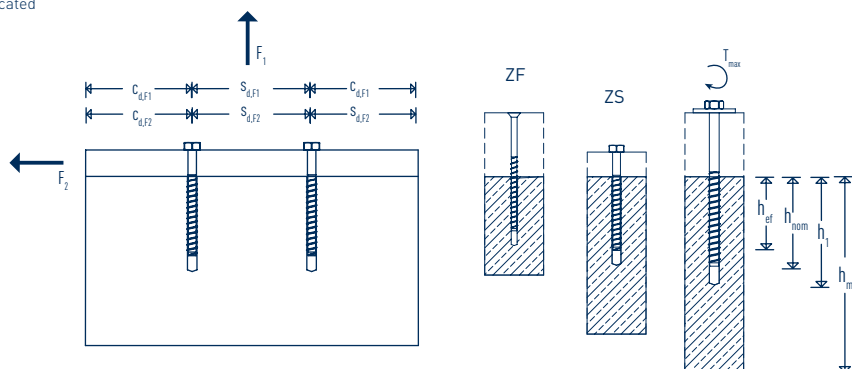
²⁾ normal installation safety $\gamma_2 = 1.2$; ETAG 001 2010 annex C

³⁾ high installation safety $\gamma_2 = 1.0$; ETAG 001 2010 annex C

⁴⁾ setting tool: Tangential impact wrench, max. power rating T_{max} per manufacturer's instructions

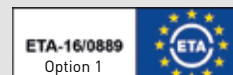
ETAG 001 2010 Annex C – dimensioning of metal anchors for use in concrete / safety concept 3.2.3.1 and 3.2.3.2

Recommended loads for single anchor in concrete C 20/25, standard reinforcement - in compliance with AD (thickness add-on part) and edge distance as indicated



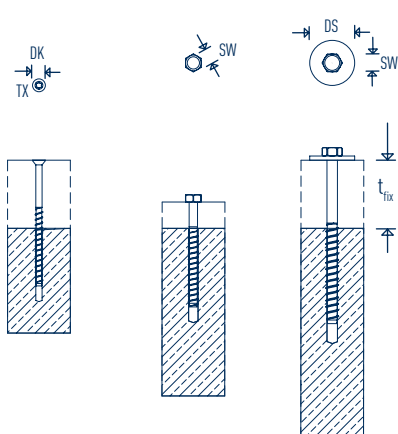
DETAILS

- fastens in concrete without dowels
- approved with grades C 20/25 to C 50/60 in cracked and non-cracked concrete
- just tighten by hand to achieve the full load-bearing capacity



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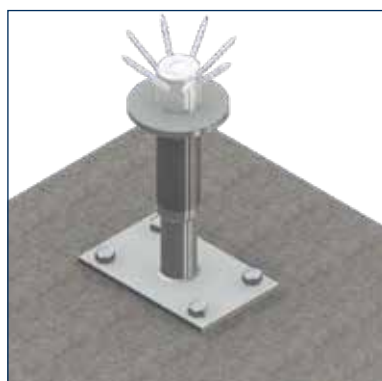
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SIHGA [®]		Dimension	Installation Part Thickness	Dimension	
montagepack		BeziFix [®] Anchor ZF	t _{fix}	Drive	DK
Art. No.	PU	d1 x L	[mm]	TX	[mm]
41306	100	7,5 x 40	5	40	13
41316	100	7,5 x 60	5	40	13
41326	100	7,5 x 80	25	40	13
41336	100	7,5 x 100	45	40	13
41346	100	7,5 x 120	65	40	13
41356	100	7,5 x 140	85	40	13
41366	100	7,5 x 160	105	40	13

montagepack		BeziFix [®] Anchor ZS	t _{fix}	SW
Art. No.	PU	d1 x L	[mm]	[mm]
41506	50	10,5 x 60	5	15
41516	50	10,5 x 80	5	15
41526	50	10,5 x 100	25	15
41536	50	10,5 x 120	45	15
41546	50	10,5 x 140	65	15
41556	50	10,5 x 160	85	15

montagepack		BeziFix [®] Anchor ZSS	t _{fix}	SW	DS
Art. No.	PU	d1 x L	[mm]	[mm]	
41806	30	12,5 x 80	5	17	44
41816	30	12,5 x 100	5	17	44
41826	30	12,5 x 120	25	17	44
41836	30	12,5 x 140	45	17	44
41846	30	12,5 x 160	65	17	44
41856	30	12,5 x 180	85	17	44
41866	30	12,5 x 200	105	17	44
41876	30	12,5 x 240	145	17	44
41886	30	12,5 x 280	185	17	44
41896	30	12,5 x 320	225	17	44



DETAILS

- BeziFix[®] Anchor ZF with counter-sunk head and Torx drive, BeziFix[®] Anchor ZS with hex head, BeziFix[®] Anchor ZSS with hex head and washer DIN 440

Tangential impact wrench recommended for processing.

