

Through bolt BA-F-PLUS



Application range

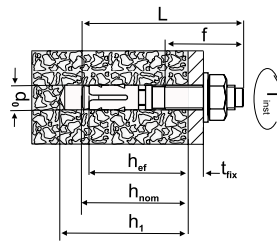
- > For embedment in cracked and non-cracked concrete \geq C20/25
- > Also suitable for natural stone
- > Dry indoor areas
- > For embedment of medium-heavy to heavy fixings such as pillars, metal structures and wooden structures
- > For pre-, push-through and distance installations

Properties

- > Steel, hot dip galvanized
- > Approval for concrete, option 1
- > Fire resistance classes F30, F60, F90, F120
- > For increased corrosion protection

Note

Characteristic values apply to the compression strength of C20/25 concrete. Design load of an anchor for centric tension in cracked concrete.



Cross references

- Cleaning brush
- Blow-out pump
- Tool belt
- Hammer drill SDS-plus
- Installation tool for through bolts
- Cordless hammer drill
- Torque wrench
- Socket wrench

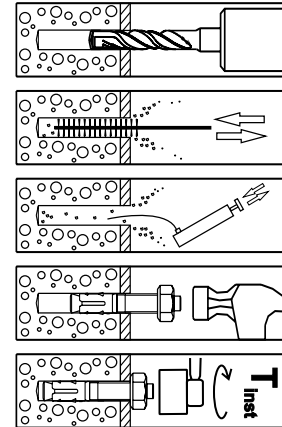
Applications



Technical data



Certifications



Anchor type	Effective embedment depth h_{ef} [mm]	Permitted load F_{zul} [kN]	Centre distance [mm]			Edge distance [mm]			Permitted bending moment M_{zul} [Nm]	Seismic performance category	Tightening torque T_{inst} [Nm]
			$s_{cr,N}$	S_{min}	C	$c_{cr,N}$	C_{min}	S			
BA-F Plus 8	48	4.0	144	35	50	72	40	55	15.0	None	15
BA-F Plus 10	40	4.1	120	50	95	60	50	190	28.6		30
	60	5.7	180	40	60	90	50	100	28.6		30
BA-F Plus 12	50	5.8	150	55	110	75	60	215	49.1		60
	70	7.6	210	60	70	105	55	110	49.1		60
BA-F Plus 16	85	11.4	254	65	95	127	65	150	122.7	110	

$s_{cr,N}$ = characteristic centre distance; S_{min} = minimum centre distance; C = minimum edge distance at S_{min} ; $c_{cr,N}$ = characteristic edge distance; C_{min} = minimum edge distance; S = minimum edge distance at C_{min}





Product online



Order description	d_0 [mm]	L [mm]	$t_{tx} \leq$ [mm]	$h_1 \geq$ [mm]	$h_{ef} \geq$ [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
BA-F-PLUS-8/10	8	75	10	60	48	50		9650003310	4061245037172
BA-F-PLUS-8/30	8	95	30	60	48	50		9650003312	4061245037189
BA-F-PLUS-8/50	8	115	50	60	48	40		9650003314	4061245037196
BA-F-PLUS-8/85	8	150	85	60	48	40		9650003316	4061245037202
BA-F-PLUS-10/10/-	10	72	10	55	40	40		9650003323	4061245037219
BA-F-PLUS-10/30/10	10	92	30/10	55/75	40/60	40		9650003325	4061245037226
BA-F-PLUS-10/40/20	10	102	40/20	55/75	40/60	25		9650003326	4061245037233
BA-F-PLUS-10/50/30	10	112	50/30	55/75	40/60	25		9650003327	4061245037240
BA-F-PLUS-10/70/50	10	132	70/50	55/75	40/60	25		9650003329	4061245037257
BA-F-PLUS-10/100/80	10	162	100/80	55/75	40/60	25		9650003331	4061245037264
BA-F-PLUS-12/10/-	12	88	10	70	50	20		9650003338	4061245037271
BA-F-PLUS-12/25/5	12	103	25/5	70/90	50/70	20		9650003340	4061245037288
BA-F-PLUS-12/40/20	12	118	40/20	70/90	50/70	20		9650003342	4061245037295
BA-F-PLUS-12/50/30	12	128	50/30	70/90	50/70	20		9650003343	4061245037301
BA-F-PLUS-12/70/50	12	148	70/50	70/90	50/70	20		9650003345	4061245037318
BA-F-PLUS-12/85/65	12	163	85/65	70/90	50/70	20		9650003346	4061245037325
BA-F-PLUS-12/100/80	12	178	100/80	70/90	50/70	20		9650003347	4061245037332
BA-F-PLUS-16/5	16	123	5	110	85	10		9650003357	4061245038957
BA-F-PLUS-16/20	16	138	20	110	85	10		9650003359	4061245038940
BA-F-PLUS-16/50	16	168	50	110	85	10		9650003362	4061245038964
BA-F-PLUS-16/60	16	178	60	110	85	10		9650003363	4061245038971

d_0 = drill hole diameter; L = length; $t_{tx} = t_{tol} +$ thickness of attachment; t_{tol} = thickness of tolerance compensation or of the non-load-bearing outer layer; h_1 = drill hole depth to deepest point; h_{ef} = effective embedment depth