Through bolt BA-E Plus / BA-E Plus DIN 9021



Application range

- For embedment in cracked and uncracked concrete ≥ C20/25
- Dry internal conditions
- Wet areas
- Outdoors, including in industrial atmospheres and coastal environments
- For embedment of medium-heavy to heavy fixings such as pillars, metal structures and wooden structures
- For pre-, push-through and distance installations
- Seismic approval category (C1 for M8, C2 for M8–M16)

Characteristics

- A4 stainless steel
- Approval for concrete, option 1
- Fire resistance classes F30, F60, F90, F120

Notice

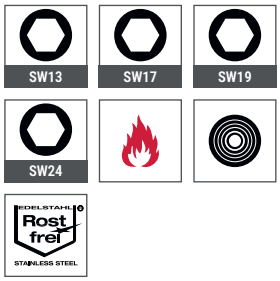
Characteristic values apply to the compression strength of C20/25 concrete. Design load of an anchor for centric tension in cracked concrete.

The load values in these tables are based on concrete C20/25, $f_{ck,cube}$ = 25 N/mm²; correct installation; no influence of centre and edge distances; observe the minimum thickness of the base material.

Applications



Technical specifications



Certifications

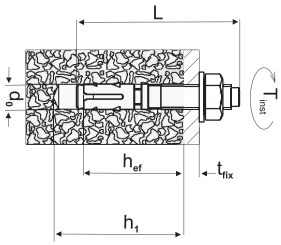


Cross references

Cordless hammer drill ABH
Hammer drill SDS plus®
Installation tool through bolts
Torque wrench
Socket wrench
Cleaning brush
Blow-out pump

Installation process





Anchor type	Effective embedment depth h_{ef} [mm]	Recommended load F_{rec} [kN]	Centre distance [mm]			Edge distance [mm]			Recommended bending moment M_{rec} [Nm]	Tightening torque T_{inst} [Nm]
			$s_{cr,N}$	S_{min}	C	$c_{cr,N}$	C_{min}	S		
BA-E Plus 8	35	2.4	106	55	75	53	40	140	14.3	15
	48	4.0	144	35	50	72	40	55	14.3	15
BA-E Plus 10	40	4.1	120	50	95	60	50	190	29.1	45
	60	5.7	180	40	60	90	50	100	29.1	45
BA-E Plus 12	50	5.8	150	55	110	75	60	215	51.4	60
	70	7.6	210	60	70	105	55	110	51.4	60
BA-E Plus 16	65	8.6	195	65	100	98	65	200	122.7	110
	85	11.4	254	65	95	127	65	150	122.7	110

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Order description	d_0 [mm]	L [mm]	t_{fix} ≤ [mm]	h_1 ≥ [mm]	h_{ef} ≥ [mm]	SW [mm]	PU [pieces]	Price/100 [EUR]	Article number	EAN
BA-E-Plus-8/5/-	8	57	5	47	35	13	50		9650005308	4061245090733
BA-E-Plus-8/23/10	8	75	23/10	47/60	35/48	13	50		9650005310	4061245037349
BA-E-Plus-8/43/30	8	95	43/30	47/60	35/48	13	50		9650005312	4061245037356
BA-E-Plus-8/63/50	8	115	63/50	47/60	35/48	13	40		9650005314	4061245037363
BA-E-Plus-8/98/85	8	150	98/85	47/60	35/48	13	40		9650005316	4061245037370
BA-E-Plus-10/10/-	10	72	10	55	40	17	40		9650005323	4061245037387
BA-E-Plus-10/30/10	10	92	30/10	55/75	40/60	17	40		9650005325	4061245037394
BA-E-Plus-10/40/20	10	102	40/20	55/75	40/60	17	25		9650005326	4061245037400
BA-E-Plus-10/50/30	10	112	50/30	55/75	40/60	17	25		9650005327	4061245037417
BA-E-Plus-10/70/50	10	132	70/50	55/75	40/60	17	25		9650005329	4061245037424
BA-E-Plus-10/100/80	10	162	100/80	55/75	40/60	17	25		9650005331	4061245037431
BA-E-Plus-12/10/-	12	88	10	70	50	19	20		9650005338	4061245037448
BA-E-Plus-12/25/5	12	103	25/5	70/90	50/70	19	20		9650005340	4061245037455
BA-E-Plus-12/40/20	12	118	40/20	70/90	50/70	19	20		9650005342	4061245037462
BA-E-Plus-12/50/30	12	128	50/30	70/90	50/70	19	20		9650005343	4061245037479
BA-E-Plus-12/70/50	12	148	70/50	70/90	50/70	19	20		9650005345	4061245037486
BA-E-Plus-12/85/65	12	163	85/65	70/90	50/70	19	20		9650005346	4061245037493
BA-E-Plus-12/100/80	12	178	100/80	70/90	50/70	19	20		9650005347	4061245037509
BA-E-Plus-16/25/5	16	123	25/5	90110	65/85	24	10		9650005357	4061245038995
BA-E-Plus-16/40/20	16	138	40/20	90/110	65/85	24	10		9650005359	4061245038988
BA-E-Plus-16/70/50	16	168	70/50	90/110	65/85	24	10		9650005362	4061245039008
BA-E-Plus-16/80/60	16	178	80/60	90/110	65/85	24	10		9650005363	4061245039015
Through bolt BA-E Plus, A4 stainless steel, DIN 9021										
BA-E Plus-8/5/-+DIN9021	8	57	5	47	35	13	50		9650005448	4061245122427
BA-E Plus-8/10+DIN9021	8	75	23/10	47/60	35/48	13	50		9650005410	4061245066127
BA-E Plus-8/30+DIN9021	8	95	43/30	47/60	35/48	13	50		9650005412	4061245066400
BA-E Plus-8/50+DIN9021	8	115	63/50	47/60	35/48	13	40		9650005414	4061245066417
BA-E Plus-10/10/- +DIN9021	10	92	30/10	55/75	40/60	17	25		9650005423	4061245066134
BA-E Plus-10/50/30+DIN9021	10	112	50/30	55/75	40/60	17	25		9650005427	4061245075310
BA-E Plus-12/85/65+DIN9021	12	163	85/65	70/90	50/70	19	10		9650005446	4061245109886
BA-E Plus-12/100/80+DIN9021	12	178	100/80	70/90	50/70	19	10		9650005447	4061245109893