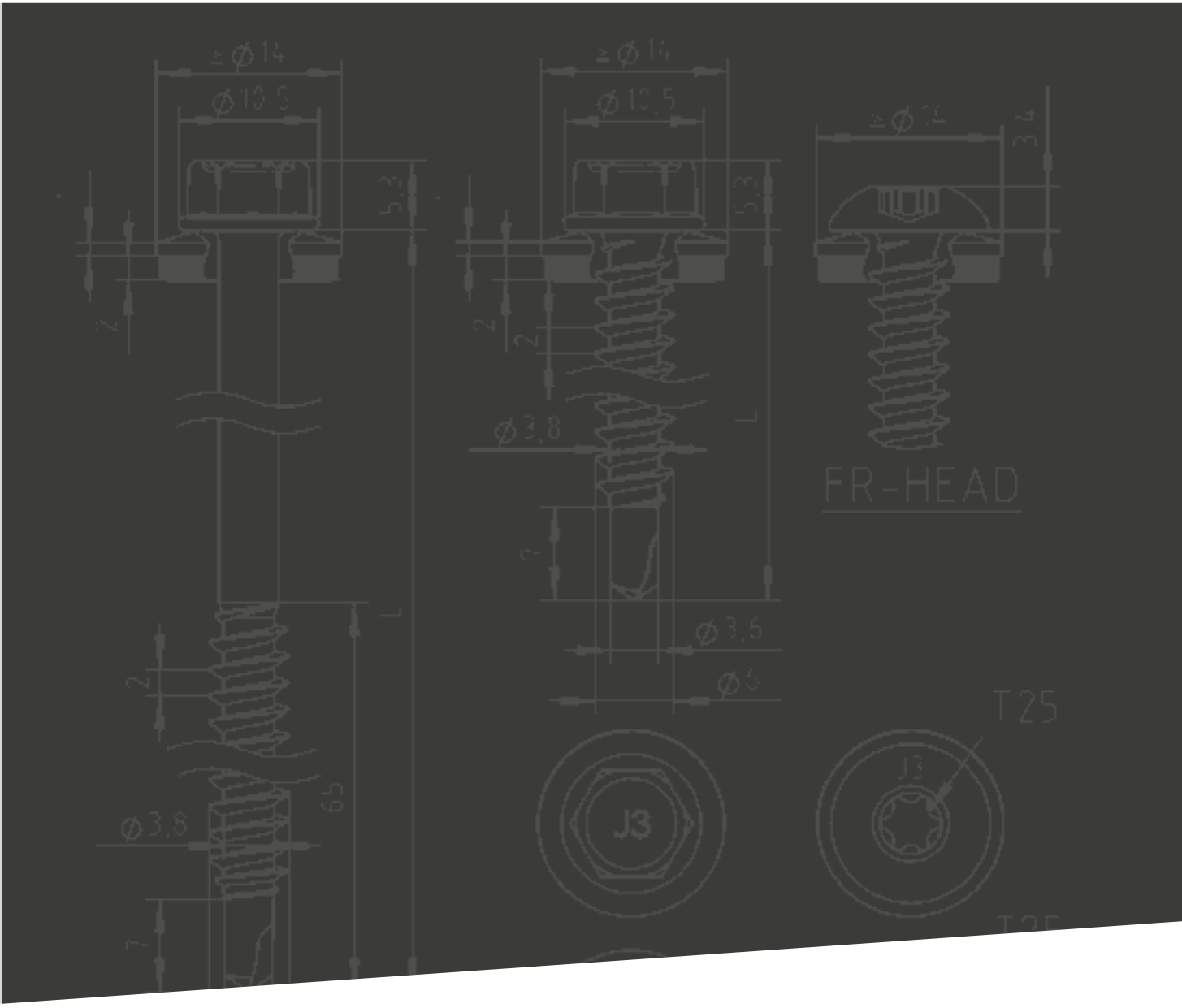
EJOT®

Applications | Products | Special



Through Bolts

Technical Specifications

Through Bolts product overview

	BA-V Plus	BA-F Plus	BA-E Plus
Anchor			
Material	Carbon steel Zinc electroplated	Carbon steel Hot dip galvanized	Stainless steel A4
Applications	Dry indoor conditions, indoor with temporary condensation	Humid indoor use, outdoor inland rural areas only in not safety relevant applications	For indoor, outdoor, industrial use and maritime climate.
Base materials	Cracked concrete Non-cracked concrete	Cracked concrete Non-cracked concrete	Cracked concrete Non-cracked concrete
Thread size*	M8, M10, M12, M16	M8, M10, M12, M16	M8, M10, M12, M16
Tools	Setting tool BA	Setting tool BA	Setting tool BA
Technical data	F120, C1/C2	F120	F120, C1/C2, Rost frei
Approvals	ETA-18/0219	ETA-18/0219	ETA-18/0219

Note: Diameter M6 for multiple use for non-structural applications in concrete available on demand. BA-E Plus HCR available on request

BA-E Plus HCR	BA-C NC
	
Stainless steel HCR 1.4529 / 1.4565	Carbon steel Zinc electroplated
HCR for extremely corrosive conditions, such as high chlorine concentrations (swimming halls) road tunnels and desulphurization plants	Dry internal conditions
Cracked concrete Non-cracked concrete	Non-Cracked concrete ≥ C20/25 "Option 7"
M8, M10, M12, M16	M8, M10, M12, M16
Setting tool BA	Setting tool BA
F120 C1/C2 EDELSTAHL Rostfrei STAINLESS STEEL	
ETA-18/0219	ETA-20/0286

Approvals / Cerfications / Applications

Description of documnt		Authority/ Laboratory	ID	Additional info
European Technical Assessment		ZAG -National Building and Civil Engineering Institute, Slovenia ETA Danmark A/S	BA Plus: ETA-18/0219 BA-C-NC: ETA-20/0286	EAD 330232-00-0601
Fire resistance		ZAG -National Building and Civil Engineering Institute, Slovenia	ETA-18/0219	EOTA TR 020 / EN 1992-4
Seismic resistance		ZAG -National Building and Civil Engineering Institute, Slovenia	ETA-18/0219	EOTA TR 045 BA-V Plus / BA-E Plus anchor size M8: C1 anchor size M10, M12, M16: C2
EJOT Anchor Fix calculation software		EJOT Software		Free download: https://www.ejot.com/ software-anchorfix

Additional information concerning all given data in the product data sheet

> Load figures include the partial safety factors as per approvals and a partial safety factor on the action of γ_F= 1.4. Load figures apply for a rebar spacing s ≥ 15 cm or alternatively for a rebar spacing s ≥ 10 cm in combination with a rebar diameter of d_s ≤ 10 mm.

> If spacings or edge distances become smaller than the characteristic figures ($s_{cr,N}$ / $c_{cr,N}$) a calculation as per EOTA TR 055 needs to be carried out. For more details, see ETAs.

> Concrete is considered non-cracked when the value of tension within the concrete is $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification σ_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).

> 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 EOTA TR 055.

Static and quasi-static loads

Characteristic resistances

Anchor size			M8 x 50[1]	M8 [Opt. 7]	M8	M10		M10 [Opt. 7]	M12		M16
Effective anchorage depth h_{ef}		[mm]	23	43	48	40	60	50	50	70	85
Non-cracked concrete											
Tensile N_{Rk}	BA-V Plus / BA-F Plus	[kN]	-	-	11.0	12.0	19.0	-	17.4	25.0	36.0
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	11.0	12.0	19.0	-	17.4	25.0	36.0
	BA-C NC	[kN]	4.3	11.0		-	-	13.0	-	17.0	22.0
Shear V_{Rk}	BA-V Plus / BA-F Plus	[kN]	-	-	12.6*	20.4*	20.4*	-	30.0*	30.0*	54.1*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	15.8*	20.4*	20.4*	-	34.4*	34.4*	68.6*
	BA-C NC	[kN]	5.4	7.0*	-	-	-	13.0	-	20.0	34.0
Cracked concrete											
Tensile N_{Rk}	BA-V Plus / BA-F Plus	[kN]	-	-	8.5	8.7	12.2	-	12.2	16.0	24.0
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	8.5	8.7	12.2	-	12.2	16.0	24.0
Shear V_{Rk}	BA-V Plus / BA-F Plus	[kN]	-	-	12.6*	20.4*	20.4*	-	34.6	30.0*	54.1*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	15.8*	20.4*	20.4*	-	34.6	34.4*	73.1

*Failure mode = steel; [1]No ETA

Design resistances

Anchor size			M8 x 50[1]	M8 [Opt. 7]	M8	M10		M10 [Opt. 7]	M12		M16
Effective anchorage depth h_{ef}		[mm]	23	43	48	40	60	50	50	70	85
Non-cracked concrete											
Tensile N_{Rd}	BA-V Plus / BA-F Plus	[kN]	-	-	7.3	8.0	12.7	-	11.6	16.7	24.0
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	7.3	8.0	12.7	-	11.6	16.7	24.0
	BA-C NC	[kN]	2.4	6.1	-	-	-	8.7	-	9.4	14.7
Shear V_{Rd}	BA-V Plus / BA-F Plus	[kN]	-	-	10.1*	16.3*	16.3*	-	24.0*	24.0*	43.3*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	12.6*	16.3*	16.3*	-	27.5*	27.5*	54.9*
	BA-C NC	[kN]	3.6	5.18*	-	-	-	8.68	-	15.82	22.68
Cracked concrete											
Tensile N_{Rd}	BA-V Plus / BA-F Plus	[kN]	-	-	5.7	5.8	8.0	-	8.1	10.7	16.0
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	5.7	5.8	8.0	-	8.1	10.7	16.0
Shear V_{Rd}	BA-V Plus / BA-F Plus	[kN]	-	-	10.1*	16.3*	16.3*	-	23.1	24.0*	43.3*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	12.6*	16.3*	16.3*	-	23.1	27.5*	48,7

*Failure mode = steel; [1]No ETA

The data of these tables is based on:

> Concrete C20/25, $f_{ck,cube}$ = 25 N/mm².
> Installation has been done correctly (see page 11).
> No influence of edge distances and spacings.
> Respect of minimum base material thickness (see page 12).

Static and quasi-static loads

Recommended loads

Anchor size			M8 x 50[1]	M8 [Opt. 7]	M8	M10		M10 [Opt. 7]	M12		M16
Effective anchorage depth h_{ef}		[mm]	23	43	48	40	60	50	50	70	85
Non-cracked concrete											
Tensile N_{Rec}	BA-V Plus / BA-F Plus	[kN]	-	-	5.2	5.7	9.0	-	8.3	11.9	17.1
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	5.2	5.7	9.0	-	8.3	11.9	17.1
	BA-C-NC	[kN]	1.7	4.4	-	-	-	6.2	-	6.7	10.5
Shear V_{Rec}	BA-V Plus / BA-F Plus	[kN]	-	-	7.2*	11.7*	11.7*	-	17.1*	17.1*	30.9*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	9.0*	11.7*	11.7*	-	19.7*	19.7*	39.2*
	BA-C-NC	[kN]	2.6	3.7*	-	-	-	6.2	-	11.3	16,2
Cracked concrete											
Tensile N_{Rec}	BA-V Plus / BA-F Plus	[kN]	-	-	4.0	4.1	5.7	-	5.8	7.6	11.4
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	4.0	4.1	5.7	-	5.8	7.6	11.4
Shear V_{Rec}	BA-V Plus / BA-F Plus	[kN]	-	-	7.2*	11.7*	11.7*	-	16.5	17.1*	30.9*
	BA-E Plus / BA-E Plus HCR	[kN]	-	-	9.0*	11.7*	11.7*	-	16.5	19.7*	34.8

*Failure mode = steel; [1]No ETA

The data of these tables is based on:

> Concrete C20/25, $f_{ck,cube}$ = 25 N/mm².
> Installation has been done correctly (see page 11).
> No influence of edge distances and spacings.
> Respect of minimum base material thickness (see page 12).

Seismic resistance (only BA Plus)

Design acc. EOTA TR 045: Performance category C1/C2

Characteristic resistances

Anchor size			M8, C1	M10, C2	M12, C2	M16, C2
Effective anchorage depth h_{ef}		[mm]	48	60	70	85
Cracked concrete						
Tensile $N_{Rk, seis}$	BA-V Plus	[kN]	8.5	2.7	2.8	10.2
	BA-E Plus	[kN]	8.4	3.2	3.3	11.1
Shear $V_{Rk, seis}$	BA-V Plus	[kN]	4.1*	4.3*	6.9*	15.4*
	BA-E Plus	[kN]	4.0*	*4.7	7.2*	15.4*

Design resistance

Anchor size			M8. C1	M10. C2	M12. C2	M16. C2
Effective anchorage depth h_{ef}		[mm]	48	60	70	85
Cracked concrete						
Tensile $N_{Rd. seis}$	BA-V Plus	[kN]	5.7	1.8	1.9	6.8
	BA-E Plus	[kN]	5.6	2.1	2.2	7.4
Shear $V_{Rd. seis}$	BA-V Plus	[kN]	3.2*	3.4*	5.5*	12.3*
	BA-E Plus	[kN]	3.2*	3.8*	5.8*	12.3*

Recommended loads

Anchor size			M8. C1	M10. C2	M12. C2	M16. C2
Effective anchorage depth h_{ef}		[mm]	48	60	70	85
Cracked concrete Beton						
Tensile $N_{Rec. seis}$	BA-V Plus	[kN]	4.0	1.3	1.3	4.9
	BA-E Plus	[kN]	4.0	1.5	1.6	5.3
Shear $V_{Rec. seis}$	BA-V Plus	[kN]	2.3*	2.4*	3.9*	8.8*
	BA-E Plus	[kN]	2.3*	2.7*	4.1*	8.8*

α_{seis} and α_{gap} included as per EOTA TR 045. The values don't consider any filling of the annular gap between the anchor and the fixture
* Failure mode = steel

The data of these tables is based on:

> Concrete C20/25, $f_{ck,cube}$ = 25 N/mm².
> Installation has been done correctly (see page 11).
> No influence of edge distances and spacings.
> Respect of minimum base material thickness (see page 12).

Fire resistance (only BA Plus)

Characteristic resistances

Anchor size			M8	M10		M12		M16
Effective anchorage depth h_{ef}		[mm]	48	40	60	50	70	85
R30								
Tensile $N_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	1.31	1.82	2.09	3.05	3.05	5.69
	BA-E Plus / BA-E Plus HCR	[kN]	2.13	1.82	3.00	3.18	4.00	6.00
Shear $V_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	1.31	1.82	2.09	3.05	3.05	5.69
	BA-E Plus / BA-E Plus HCR	[kN]	2.87	1.82	6.66	3.18	10.25	19.09
R60								
Tensile $N_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	1.05	1.66	1.66	2.40	2.40	4.47
	BA-E Plus / BA-E Plus HCR	[kN]	2.13	1.82	3.00	3.18	4.00	6.00
Shear $V_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	1.05	1.66	1.66	2.40	2.40	4.47
	BA-E Plus / BA-E Plus HCR	[kN]	2.70	1.82	4.59	3.18	7.07	13.16
R90								
Tensile $N_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	0.80	1.24	1.24	1.74	1.74	3.25
	BA-E Plus / BA-E Plus HCR	[kN]	1.48	1.82	2.52	3.18	3.88	6.00
Shear $V_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	0.80	1.24	1.24	1.74	1.74	3.25
	BA-E Plus / BA-E Plus HCR	[kN]	1.48	1.82	2.52	3.18	3.88	7.23
R120								
Tensile $N_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	0.67	1.02	1.02	1.41	1.41	2.64
	BA-E Plus / BA-E Plus HCR	[kN]	0.87	1.46	1.48	2.29	2.29	4.26
Shear $V_{Rk,fi}$	BA-V Plus / BA-F Plus	[kN]	0.67	1.02	1.02	1.41	1.41	2.64
	BA-E Plus / BA-E Plus HCR	[kN]	0.87	1.46	1.48	2.29	2.29	4.26

The data of these tables is based on:

> In the absence of other national regulations the partial safety factor or resistance under fire exposure $\gamma_{M,fi}$ = 1,0 is recommended
> Concrete C20/25, $f_{ck,cube}$ = 25 N/mm²
> Installation has been done correctly (see page 11).
> No influence of edge distances and spacings.
> Respect of minimum base material thickness (see page 12).

Fire resistance (only BA Plus)

Recommended loads

Anchor size			M8	M10		M12		M16
Effective anchorage depth h_{ef}		[mm]	48	40	60	50	70	85
R30								
Tensile $N_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	1.31	1.82	2.09	3.05	3.05	5.69
	BA-E Plus / BA-E Plus HCR	[kN]	2.13	1.82	3.00	3.18	4.00	6.00
Shear $V_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	1.31	1.82	2.09	3.05	3.05	5.69
	BA-E Plus / BA-E Plus HCR	[kN]	2.87	1.82	6.66	3.18	10.25	19.09
R60								
Tensile $N_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	1.05	1.66	1.66	2.40	2.40	4.47
	BA-E Plus / BA-E Plus HCR	[kN]	2.13	1.82	3.00	3.18	4.00	6.00
Shear $V_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	1.05	1.66	1.66	2.40	2.40	4.47
	BA-E Plus / BA-E Plus HCR	[kN]	2.70	1.82	4.59	3.18	7.07	13.16
R90								
Tensile $N_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	0.80	1.24	1.24	1.74	1.74	3.25
	BA-E Plus / BA-E Plus HCR	[kN]	1.48	1.82	2.52	3.18	3.88	6.00
Shear $V_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	0.80	1.24	1.24	1.74	1.74	3.25
	BA-E Plus / BA-E Plus HCR	[kN]	1.48	1.82	2.52	3.18	3.88	7.23
R120								
Tensile $N_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	0.67	1.02	1.02	1.41	1.41	2.64
	BA-E Plus / BA-E Plus HCR	[kN]	0.87	1.46	1.48	2.29	2.29	4.26
Shear $V_{Rec, fi}$	BA-V Plus / BA-F Plus	[kN]	0.67	1.02	1.02	1.41	1.41	2.64
	BA-E Plus / BA-E Plus HCR	[kN]	0.87	1.46	1.48	2.29	2.29	4.26

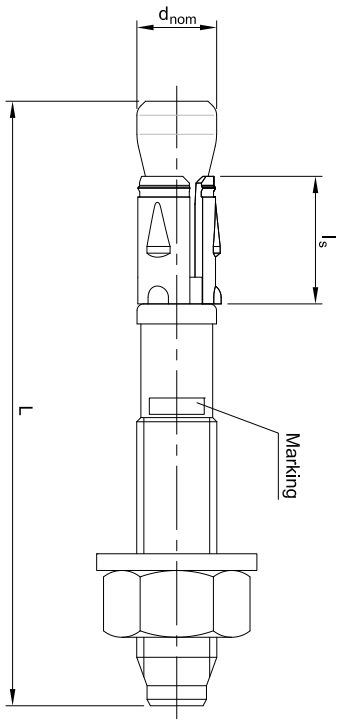
The data of these tables is based on:

> In the absence of other national regulations the partial safety factor or resistance under fire exposure $\gamma_{M,fi}$ = 1,0 is recommended
> Concrete C20/25, $f_{ck,cube}$ = 25 N/mm²
> Installation has been done correctly (see page 11).
> No influence of edge distances and spacings.
> Respect of minimum base material thickness (see page 12).

Material and dimensions

BA Plus Anchor dimensions

Anchor size			M8	M10	M12	M16
Total length	L	[mm]	62 – 420	62 – 420	78 – 420	118 – 420
Sleeve length	L_s	[mm]	14.8	17.9	19.1	26.0
Bolt body	d_{nom}	[mm]	8	10	12	16
Hexagonal nut	SW	[mm]	13	17	19	24
	m		≥ 6.5	≥ 8.0	≥ 10.0	≥ 13.0



BA-C NC Anchor dimensions

Anchor size			M8	M10	M12	M16
Total length	L	[mm]	50 – 135	85 – 215	110 – 320	135 – 320
Sleeve length	L_s	[mm]	14.4	16.5	19.0	23.0
Bolt body	d_{nom}	[mm]	8.0	10.0	12.0	16.0
Hexagonal nut	SW	[mm]	13.0	17.0	19.0	24.0

Mechanical properties

Specifications		Anchor / size		M8	M10	M12	M16
Nominal tensile strength	$f_{uk, thread}$	BA-V Plus / BA-F Plus	[N/mm²]	700	680	660	660
		BA-E Plus / BA-E Plus HCR	[N/mm²]	670	680	660	660
		BA-C NC	[N/mm²]	≥ 550	≥ 670	≥ 630	≥ 600
Char. bending resistance	$M^0_{Rk,s}$	BA-V Plus / BA-F Plus	[Nm]	26.3	51	90	219.8
		BA-E Plus / BA-E Plus HCR	[Nm]	25.1	51	90	214.8
		BA-C NC	[Nm]	12.0	25.6	45.1	104.4
Design bending resistance	$M_{Rd,s}$	BA-V Plus / BA-F Plus	[kN]	21.0	40.8	72.0	175.8
		BA-E Plus / BA-E Plus HCR	[kN]	20.1	40.8	72.0	171.8
		BA-C NC	[kN]	10.0	17.1	35.8	69.6
Recommended bending resistance	M_{Rec}	BA-V Plus / BA-F Plus	[kN]	15.0	29.1	51.4	125.6
		BA-E Plus / BA-E Plus HCR	[kN]	14.3	29.1	51.4	122.7
		BA-C NC	[kN]	6.4	12.2	25.6	49.7

Material quality

Part of anchor	Anchor	Material
Bolt	BA-V Plus / BA-C NC	Carbon steel, zinc electroplated
	BA-F Plus	Carbon steel, hot dip galvanized
	BA-E Plus	Stainless steel A4
	BA-E Plus HCR	Stainless steel HCR 1.4529 / 1.4565

Installation instructions

Installation equipments

Specification	M8	M10	M12	M16
Rotary hammer (reccomendation)	720 – 1200 U/min / 1.8 – 3.3 J			360 – 550 r.p.m 4.9 – 11.5 J
Setting tool (optional)	BA-V 6-10 SDS+		BA-V 12-20 SDS+	
Drill bit	SDS+ 2-SCHNITT/4-SCHNITT 8 mm – 16 mm			
Additional tools	brush, air pump/compressor, hammer, torque wrench			

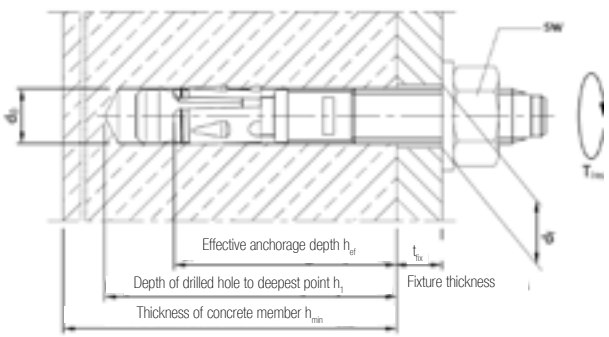
Installation data

Parameters and anchors sizes				M8 x 50[1]	M8	M10	M12	M16
Drill hole diameter d_0	BA-Plus	d_0	[mm]	-	8	10	12	16
	BA-C NC			8				
Cutting diameter at the upper tolerance limit (max. diam. bit)	BA-Plus	$d_{cut,max} \leq$	[mm]	-	8.45	10.45	12.50	16.50
	BA-C NC			8.45				
Depth of drilled hole to deepest point	BA-Plus	$h_1 \geq$	[mm]	-	60	55 75	70 90	110
	BA-C NC			38	63	69	92	109
Effective anchorage depth	BA-Plus	h_{ef}	[mm]	-	48	40 60	50 70	85
	BA-C NC			23	43	50	70	85
Nominal anchorage depth	BA-Plus	h_{nom}	[mm]	-	53	48 68	61 81	97
Diameter of clearance hole in the fixture	BA-Plus	$d_f \geq$	[mm]	-	9	12	14	18
	BA-C NC			9				
Width across flats	BA-Plus	SW	[mm]	-	13	17	19	24
	BA-C NC			13				
Required torque	BA-V Plus / BA-F Plus	T_{inst}	[Nm]	-	15	30	60	110
	BA-E Plus / BA-E Plus HCR			-	20	45	60	110
	BA-C NC			13	15	30	50	90

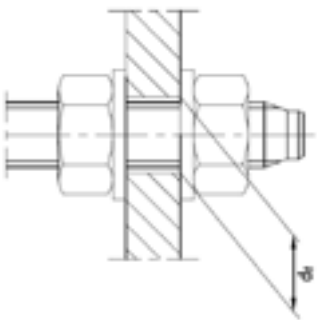
[1]No ETA

Installation methods

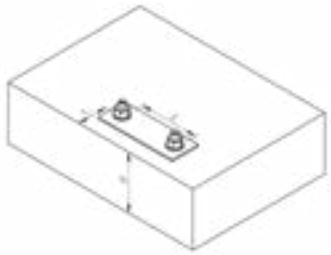
Through installation



Distance installation



Installaton parameters



BA Plus Range

Minimum thickness of concrete member, spacing and edge distance

Cracked and non-cracked concrete			M8	M10		M12		M16
Effective anchorage depth	h_{ef}	[mm]	48	40	60	50	70	85
Minimum thickness of base material	h_{min}	[mm]	100	100	120	100	140	170
	$h_{min\ red}$	[mm]	80	-	100	-	-	-
Minimum spacing for h_{min}	s_{min}	[mm]	35	50	40	55	60	65
	$c \geq$	[mm]	50	95	60	110	70	95
Minimum edge distance for h_{min}	c_{min}	[mm]	40	50	50	60	55	65
	$s \geq$	[mm]	55	190	100	215	110	150
Minimum spacing for $h_{min-red}$	s_{min}	[mm]	35	-	40	-	-	-
	$c \geq$	[mm]	55	-	100	-	-	-
Minimum edge distance for h_{min}	c_{min}	[mm]	40	-	60	-	-	-
	$S \geq$	[mm]	60	-	90	-	-	-
Critical spacing for splitting failure and concrete cone failure (in case characteristic loading affects)	$s_{cr,sp}$	[mm]	192	160	240	200	280	340
	$s_{cr,N}$	[mm]	144	120	180	150	210	254
Critical edge distance for splitting failure and concrete cone failure (in case characteristic loading affects)	$c_{cr,sp}$	[mm]	96	80	120	100	140	170
	$c_{cr,N}$	[mm]	72	60	90	75	105	127

BA-C NC

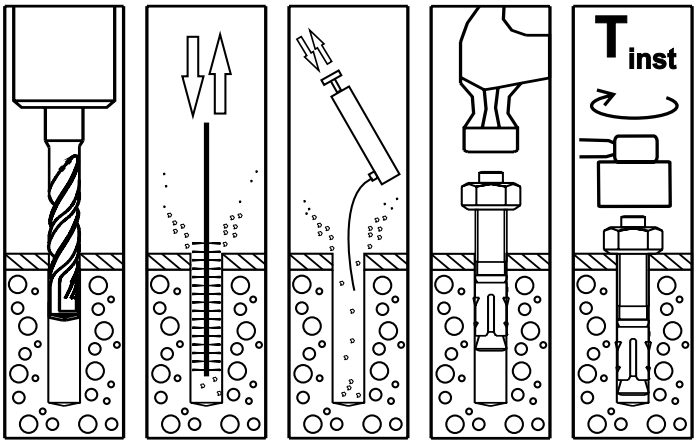
Minimum thickness of concrete member, spacing and edge distance

Non-cracked concrete (Option 7)			M8 x 50[1]	M8	M10	M12	M16
Effective anchorage depth	h_{ef}	[mm]	23	43	50	70	85
Minimum thickness of base material	h_{min}	[mm]	100	100	120	150	160
Minimum spacing for h_{min}	s_{min}	[mm]	90	50	100	120	140
Minimum edge distance for h_{min}	c_{min}	[mm]	50	50	90	100	125

[1]No ETA

Setting instructions

Installation



1. Drill a hole according to the product data.
2.-3. Clean the hole using a metal brush and a blow-out pump.
4. Install anchor with a hammer or a setting tool.
5. Tighten the anchor to the specified installation torque.

Accessories

Setting tool BA

Hammering tool to make through bolt installation quicker and smoother

> Original EJOT through bolts setting tool with designed head that does not damage the head of the anchor and keep the head from slipping.
> Besides ensuring most efficient and safe through bolt installation in general, the setting tool also significantly saves time and energy in serial installation.
> Compatible with all SDS+ chuck machines.

Delivery program

				BA-V Plus	BA-F Plus	BA-E Plus	BA-E Plus HCR	BA-C-NC
Thread size	Typ	t_{fix}	Length	Zinc	Hot dip	Stainless steel A4	HCR	Zinc
M8	M8x50 (5)*	5	50	-	-	-	-	●
	M8/10	10	75	●	●	●	●	●
	M8/30	30	95	●	●	●	●	●
	M8/50	50	115	●	●	●	●	●
	M8/85	85	150	●	●	●	●	-
M10	M10/10/-	10	72	●	●	●	●	-
	M10/10	10	85	-	-	-	-	●
	M10/30/10	30/10	92	●	●	●	●	-
	M10/20	20	95	-	-	-	-	●
	M10/40/20	40/20	102	●	●	●	●	-
	M10/30	30	105	-	-	-	-	●
	M10/50/30	50/30	112	●	●	●	●	-
	M10/50	50	125	-	-	-	-	●
	M10/70/50	70/50	132	●	●	●	●	-
	M10/100/80	100/80	162	●	●	●	●	-
M12	M12/10/-	10	88	●	●	●	●	-
	M12/25/5	25/5	103	●	●	●	●	-
	M12/10	10	110	-	-	-	-	●
	M12/40/20	40/20	118	●	●	●	●	-
	M12/20	20	120	-	-	-	-	●
	M12/30	30	130	-	-	-	-	●
	M12/70/50	70/50	148	●	●	●	●	-
	M12/50	50	150	-	-	-	-	●
	M12/85/65	85/65	163	●	●	●	●	-
	M12/100/80	100/80	178	●	●	●	●	-
M16	M16/5	5	123	●	●	●	●	-
	M16/10	10	135	-	-	-	-	●
	M16/20	20	138	●	●	●	●	-
	M16/20	20	145	-	-	-	-	●
	M16/50	50	168	●	●	●	●	-
	M16/50	50	175	-	-	-	-	●
	M16/60	60	178	●	●	●	●	-

● On request | *No ETA

Note: Diameter M6 for multiple use for non-structural applications in concrete available on demand.

Engineering Service

EJOT® Anchor Fix – anchor dimensioning made easy

EJOT offers free dimensioning software for embedments, a very helpful tool for the static initial sizing of building projects.

The computer program EJOT Anchor Fix was developed for structural engineers, specifiers, engineers and technicians. The software can be a useful guide in the pre-planning phase. It supports the user for easy assessment of the static requirements of the planned building project.

With EJOT Anchor Fix, the limits of the load-carrying capacity of anchor bolts in concrete substrates can be determined, stored and printed. In addition, further documents such as approvals and product data sheets can be accessed. The software also offers a language selection for the international use. The software automatically looks for updates each time it is retrieved.

EJOT Anchor Fix can be downloaded here:
www.ejot.com/software-anchorfix

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