

TECHNICAL DATASHEET

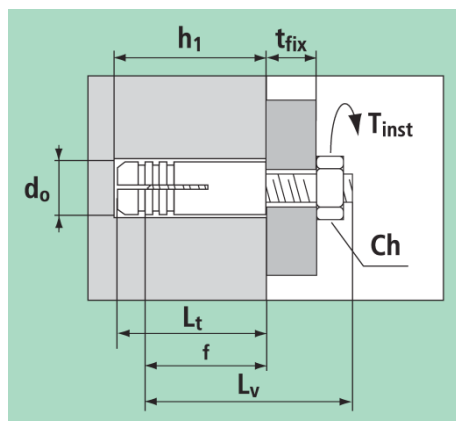
BETA drop-in anchor for heavy loads on concrete

EN
rev. 07/2014
p. 1/2

Use

specific use

concrete
natural stone



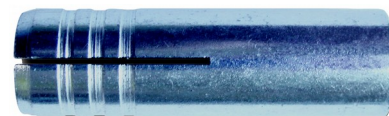
d = anchor diameter
 L_t = anchor length
 t_{fix} = fixable thickness
 f = thread length
 d_0 = hole diameter
 h_1 = minimum hole depth
 h_{nom} = overall embedment depth
 h_{ef} = effective anchorage depth
 d_f = hole diameter in fixture
 T_{inst} = tightening torque
 L_v = screw length

$$h_{nom} = h_{ef} = L_t$$

$$L_v = f + t_{fix}$$

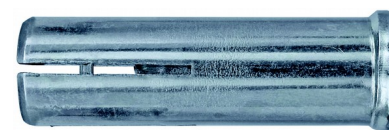
BETA Steel percussion anchor with internal cone

art.	descr.	d mm	L _t mm	vite	f mm	d ₀ mm	h ₁ mm	d _f mm	T _{inst} Nm
TTB06	B6	8	25	M6	11	8	30	7	4
TTB08	B8	10	30	M8	13	10	35	9	9
TTB10	B10	12	40	M10	15	12	45	12	17
TTB12	B12	15	50	M12	19	15	55	14	30
TTB16	B16	20	65	M16	25	20	70	18	75



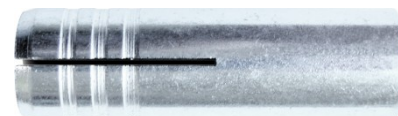
BETA Steel with lip percussion anchor with internal cone

art.	descr.	d mm	L _t mm	vite	f mm	d ₀ mm	h ₁ mm	d _f mm	T _{inst} Nm
TTBL06	BL6	8	25	M6	11	8	30	7	4
TTBL08	BL8	10	30	M8	13	10	35	9	9
TTBL10	BL10-L30	12	30	M10	10	12	35	12	17
TTBL11	BL10-L40		40		15		45		
TTBL12	BL12	16	50	M12	19	16	55	14	30
TTBL16	BL16	20	65	M16	25	20	70	18	75



BETA A4 Stainless steel percussion anchor with internal cone

art.	descr.	d mm	L _t mm	vite	f mm	d ₀ mm	h ₁ mm	d _f mm	T _{inst} Nm
TTBI06	BI6	8	25	M6	11	8	30	7	4
TTBI08	BI8	10	30	M8	13	10	35	9	9
TTBI10	BI10	12	40	M10	15	12	45	12	17
TTBI12	BI12	15	50	M12	19	15	55	14	30
TTBI16	BI16	20	65	M16	25	20	70	18	75

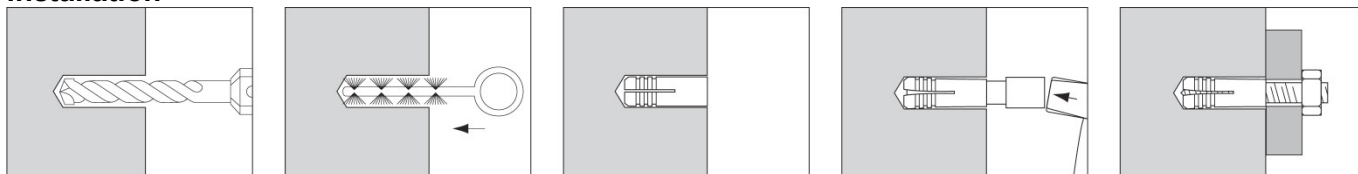


TECHNICAL DATASHEET

BETA drop-in anchor for heavy loads on concrete

EN
rev. 07/2014
p. 2/2

Installation



Materials

version	material	coating
BETA	C1008 steel	white zinc plating $\geq 5 \mu\text{m}$ ISO 4042
BETA with lip	C1008 steel	white zinc plating $\geq 5 \mu\text{m}$ ISO 4042
BETA stainless steel	AISI 316 (A4) stainless steel	

Setting parameters

size		M6	M8	M10	M12	M16
minimum thickness of base material	$h_{\min}$ mm	100	100	100	100	130
critical spacing	s_{cr} mm	100	120	160	200	240
critical edge distance	c_{cr} mm	50	60	80	100	120

Strength data

Valid for a single anchor, isolated and far from the edges, on a thick concrete member of class C20/25.

Characteristic resistance (kN)

size		M6	M8	M10	M12	M16
tension	N_{Rk} kN	3,0	4,8	6,6	10,2	16,8
shear	V_{Rk} kN	3,5	3,6	4,5	7,8	13,8

1 kN $\approx$ 100 kg

A safety factor of at least 3 is recommended.

Characteristic resistances N_{Rk} e V_{Rk} derive from tests conducted in G&B Fissaggi's laboratories according to international guidelines.

For anchors with reduced spacing or reduced edge distance (lower than the critical values) the resistance of anchors must be decreased.