

TECHNICAL DATASHEET

GETO PLUS self-threading screw for concrete

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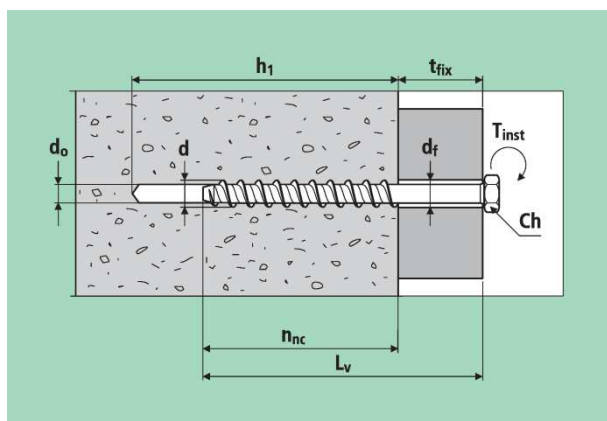


Self threading screws for solid supports, hexagonal head
GEOMET® coating for corrosion protection

Use

specific use

non-cracked concrete
natural stone
solid bricks



d_0 = hole diameter
 d = screw outer diameter
 L_v = screw (anchor) length
 t_{fix} = fixable thickness
 h_1 = minimum hole depth
 h_{nom} = overall embedment depth
 h_{ef} = effective anchorage depth
 d_f = hole diameter in fixture
 Ch = spanner
 T_{inst} = maximum tightening torque

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

art.	descr.	head mark	d_0 mm	d mm	L_v mm	h_1 mm	h_{ef} mm	t_{fix} mm	d_f mm	Ch mm	T_{inst} Nm
87001	GP6/60	6x60	6	7.5	60	*	*	*	8	10	25
87002	GP6/75	6x75			75						
87003	GP8/60	8x60	8	10	60	*	*	*	10	15	40
87004	GP8/75	8x75			75						
87005	GP8/100	8x100			100						
87006	GP8/150	8x150			150						
87007	GP10/60	10x60	10	12	60	*	*	*	12	17	60
87009	GP10/75	10x75			75						
87010	GP10/100	10x100			100						
87013	GP10/130	10x130			130						
87011	GP10/150	10x150			150						

* see below

Other installation data

d_0 mm	6	8	10
min. h_{ef} mm	30	40	50
h_1 mm	$h_{ef} + 10$	$h_{ef} + 15$	$h_{ef} + 20$
t_{fix} mm	$L_v - h_{ef}$		

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GETO PLUS

with flanged hex head

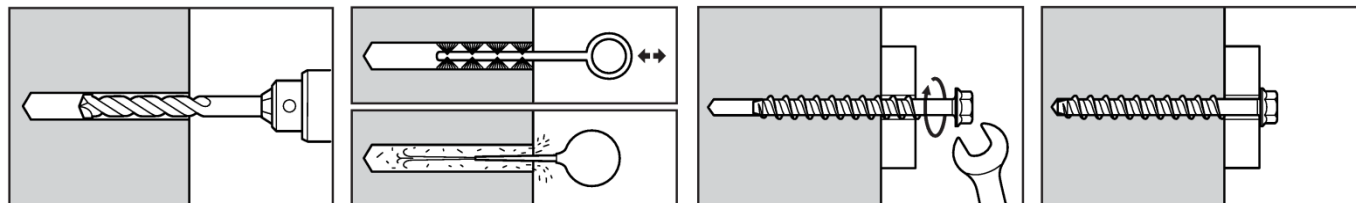


art.	descr.	d ₀ mm	d mm	L _v mm	h ₁ mm	h _{ef} mm	t _{fix} mm	d _f mm	Ch mm	d _w mm	T _{inst} Nm
87032	GP14/115	14	16	115	90	80	35	18	18	30.5	150
87031	GP14/135			135			55				
87033	GP14/160			160			80				

Materials

material	coating
steel	GEOMET®

Installation



Use a socket wrench whilst applying a slight downward pressure to the bolt: this helps commencing the self-tapping action. If resistance is felt, unscrew the bolt for half a turn, then continue screwing it in.

The anchor does not require a preload torque to function; the applied torque should only be that necessary to hold the fixture. Never exceed maximum tightening torque.

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	d ₀ (mm)	6		8		10		14
embedment depth	h _{ef} (mm)	30	45	40	60	50	75	80
tension	N _{Rk} (kN)	8	16	12	24	18	36	29
shear	V _{Rk} (kN)	10	14	24	30	40	50	31

Design resistance (kN)

size	d ₀ (mm)	6		8		10		14
embedment depth	h _{ef} (mm)	30	45	40	60	50	75	80
tension	N _{Rd} (kN)	2,0	4,0	3,0	6,0	4,5	9,0	16,1
shear	V _{Rd} (kN)	2,5	3,5	6,0	7,5	10,0	12,5	20,7

Recommended load (kN)

size	d ₀ (mm)	6		8		10		14
embedment depth	h _{ef} (mm)	30	45	40	60	50	75	80
tension	N _{rec} (kN)	1,4	2,9	2,1	4,3	3,2	6,4	11,5
shear	V _{rec} (kN)	1,8	2,5	4,3	5,4	7,1	8,9	14,8

1 kN ≈ 100 kg

steel failure

Characteristic resistances N_{Rk} e V_{Rk} derive from tests conducted in G&B Fissaggi's laboratories according to international guidelines. Design resistances N_{Rd} e V_{Rd} include partial safety factors on strengths. Recommended values N_{rec} e V_{rec} include the further 1.4 safety factor.

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

Critical spacing and distances

size	d ₀ (mm)	6	8	10	14
critical spacing, tension	s _{cr} (mm)	100	120	170	220
critical edge distance, tension	c _{cr} (mm)	60	60	80	110
critical edge distance, shear	c _{cr} (mm)	80	90	120	