TRUTEK TAB HE – ANCHOR SCREW FOR CONCRETE

Usage:

- anchor designed for fastening elements of building structures, facades, barriers, handrails, etc. in the scope of medium loads
- fixing the feet of storage rack
- fastening devices and installation elements to ceilings in cracked concrete
- temporary fastening of formwork supports and pre-fabricated walls

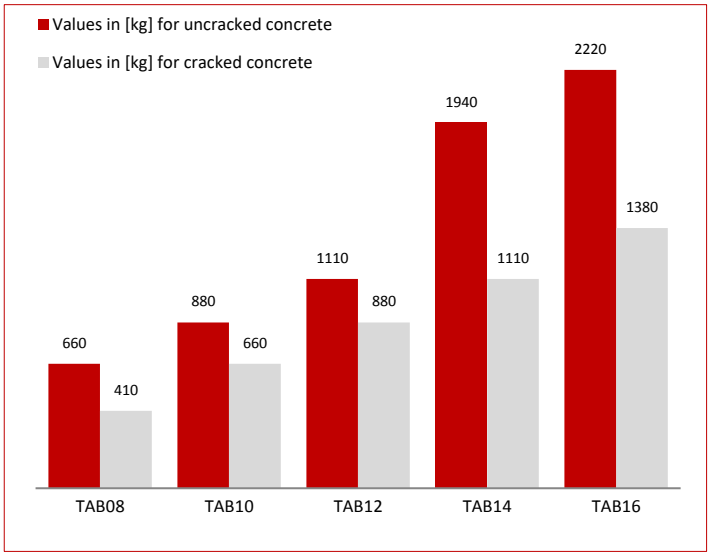
Advantages:

- one anchor for installation in non-cracked and cracked concrete
- twice as fast as compared to segment anchors
- adjustable attachment element
- fully disassembly capability
- the anchor does not introduce local stresses in the ground distributing the load across the entire depth of the hole

Anchor material:
TAB HE anchors are made of hardened, carbon steel and are covered with a layer of galvanized steel not less than 5µm thick.

Substrate material:
Cracked and non-cracked concrete, class C20 / 25 to C50 / 60 min

Design load capacity for pulling out of concrete C20 / 25 in kg



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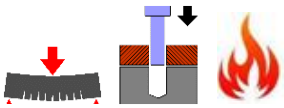

TAB HE anchor marking method			
Trutek Ankerbolt	Hole Sized [mm]	Anchor Length L [mm]	Head Version
TAB	08	080	HE

Technical parameters of TAB HE anchors

Product code	Hole Daimeter in base material	Thread Size	Min. Hole Depth	Effective Anchorage Depth	Min. substrate Thickness	Max. Thickness of Fixed Element	Min. Hole Diameter in Fixed Element	Anchor Length
	d_o [mm]	d [mm]	h_1 [mm]	h_{ef} [mm]	h_{min} [mm]	t_{fix} [mm]	d_f [mm]	L [mm]
TAB08080HE	8	10	90	75	120	5	12	80
TAB08100HE						25		100
TAB08130HE						55		130
TAB08150HE						75		150
TAB10100HE	10	12	100	85	125	15	14	100
TAB10130HE						45		130
TAB10150HE						65		150
TAB12100HE	12	14	110	95	140	5	16	100
TAB12130HE						35		130
TAB12150HE						55		150
TAB12200HE						105		200
TAB14150HE	14	16	130	110	170	40	18	150
TAB14200HE						90		200
TAB16150HE	16	18	145	120	190	30	20	150
TAB16200HE						80		200

The entire European Technical Assessment ETA-15/0040 should be taken into account when designing

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Design bearing capacity of TAB HE anchors in cracked and non-cracked concrete, class min. C20/25

Technical Data:	TAB08	TAB10	TAB12	TAB14	TAB16
Effective anchoring depth hef [mm]	75	85	95	110	120
Tensile load capacity NRd [kN] - non-cracked concrete	6,6	8,8	11,1	19,4	22,2
Tensile load capacity NRd [kN] - cracked concrete	4,1	6,6	8,8	11,1	13,8
Shear load capacity VRd [kN] - non-cracked concrete	11,3	27,3	32,1	39,3	44,7
Shear load capacity VRd [kN] - cracked concrete	8,1	19,5	22,8	28,0	31,8
Anchor spacing Smin [mm]	50	60	70	80	90
Distance from the edge Cmin [mm]	50	60	70	80	90
Torque Tinst [Nm]	40	60	80	90	100
A / F key size [mm]	15	17	19	24	27

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Characteristic strengths of TAB HE anchors in cracked concrete and non-cracked class min. C20 / 25 in case of fire

Techncial Data:	TAB08	TAB10	TAB12	TAB14	TAB16
Effective anchoring depth hef [mm]	75	85	95	110	120
Tensile load R30 NRd, f or shear VRd, f [kN]	0,4	1,1	2,0	2,8	3,7
Tensile load R60 NRd, f or shear VRd, f [kN]	0,4	0,9	1,5	2,1	2,8
Tensile load R90 NRd or shear VRd, f [kN]	0,3	0,7	1,3	1,8	2,4
Tensile load R120 NRd or shear VRd, f [kN]	0,2	0,6	1,0	1,4	1,8
Anchor spacing Scr, fi [mm]	300	340	380	440	480
Distance from the edge Ccr, fi [mm]	150	170	190	220	240
Torque Tinst [Nm]	40	60	80	90	100
A / F key size [mm]	15	17	19	24	27

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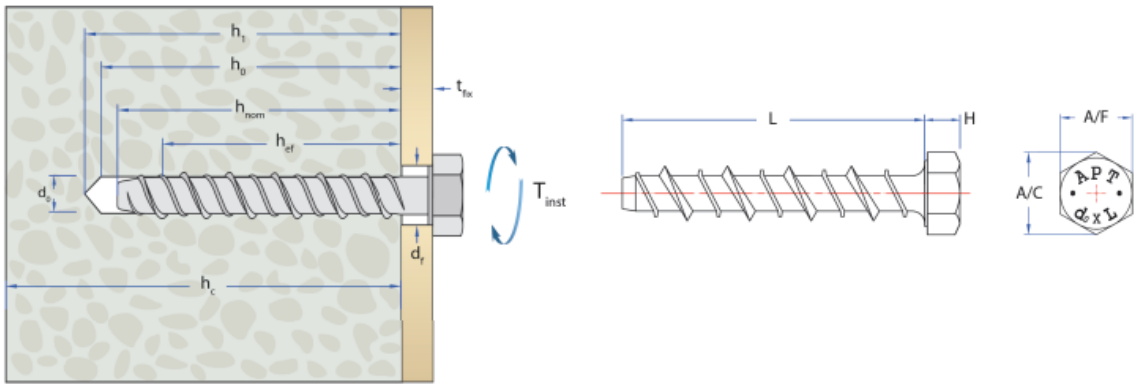
Installation diagram of TAB HE anchors



Installation diagram of TAB HE anchors