TRUTEK TT G – SEGMENT ANCHOR

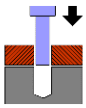
Usage:

- anchor designed for fastening elements of building structures, facades, barriers, handrails, etc. in the scope of medium loads.
- fastening structural elements and installations to ceilings in the expanded concrete zone,
- fastening on road and industrial infrastructure facilities

Advantages:

- one anchor for installation in non-cracked and cracked concrete
- easy and quick assembly
- fire resistance in the range from R30 to R120
- cold formed expansion spindle
- expansion clip made of stainless steel
- increased thickness of zinc ensures increased corrosion resistance of the anchor

ETAG 001 Option 1 for cracked concrete

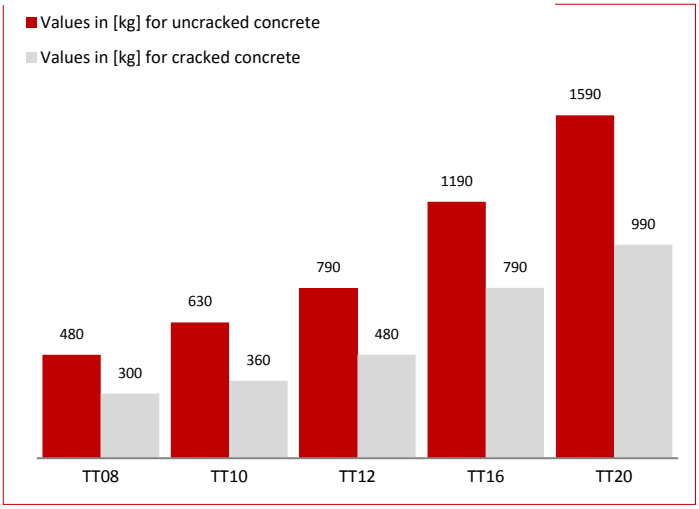


Method of determining TT G anchors		
Trutek Throughbolt	Thread Size d [mm]	Anchor length L.[mm]
TT G	**08**	**075**

Anchor material:
TT anchors are made of ordinary carbon steel in the mechanical properties class 4.8 according to PN-EN ISO 898-1: 2013 standards and are covered with a layer of galvanization not less than 45µm thick according to PN-EN ISO 1461: 2011

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



Technical parameters of TT G anchors

Product Code	Thread size	Hole dia in base material	Min. hole depth	Effective / reduced anchorage depth	Min. substrate thickness	Max. thickness of fixed element	Min. hole diameter in element to be attached	Anchor length
	d [mm]	d_o [mm]	h_1 [mm]	h_{ef} [mm]	h_{min} [mm]	t_{fix} [mm]	d_f [mm]	L [mm]
TT08050G	8	8	60	50	100	-	10	50
TT08075G						25		75
TT08095G						45		95
TT08120G						70		120
TT10060G	10	10	70	55	110	5	12	60
TT10080G						25		80
TT10095G						40		95
TT10100G						45		100
TT10125G						70		125
TT12085G	12	12	90	70	140	15	14	85
TT12100G						30		100
TT12115G						45		115
TT12145G						75		145
TT16110G	16	16	110	85	170	25	18	110
TT16125G						40		125
TT16150G						65		150
TT16175G						90		175
TT16200G						115		200
TT20170G	20	20	130	100	200	70	22	170
TT20220G						120		220
TT20280G						180		280

Design bearing capacity of TT G anchors in cracked and non-cracked concrete, class min. C20/25*

Technical Data:	TT08	TT10	TT12	TT16	TT20
Effective anchoring depth hef [mm]	50	55	70	85	100
Tensile load capacity NRd [kN] - uncracked concrete	4,80	6,30	7,90	11,90	15,90
Tensile load capacity NRd [kN] - cracked concrete	3,00	3,60	4,80	7,90	9,90
Shear load capacity VRd [kN] - non-cracked concrete	2,70	3,85	16,85	31,40	49,00
Shear load capacity VRd [kN] - cracked concrete	3,20	4,25	6,90	12,50	16,00
Anchor spacing Scr, N [mm]	150	165	210	255	300
Distance from the edge Ccr, N [mm]	100	110	140	170	200
Tinstacking torque Tinst [Nm]	20	45	65	150	250

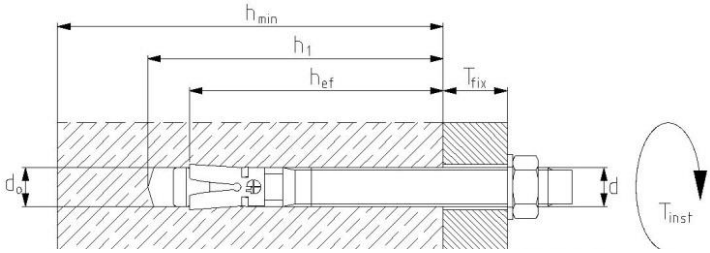
* The entire technical approval AT-15-7728 / 2016 should be taken into account when designing

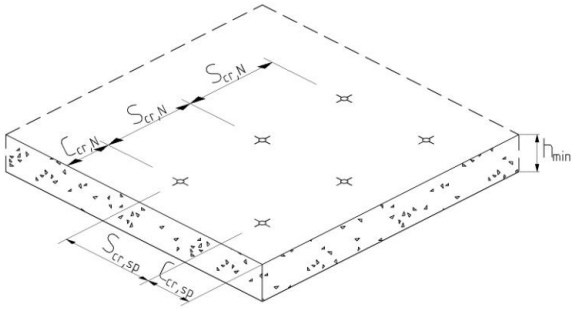
Design strength of individual TT G anchors in cracked concrete and non-cracked class min. C20 / 25 in case of fire *

Technical Data:	TT08	TT10	TT12	TT16	TT20
Effective anchoring depth hef [mm]	50	55	70	85	100
Tensile strength NRd, fi and shear VRd, fi [kN] R30	0,40	0,90	1,70	3,10	4,90
Tensile strength NRd, fi and shear VRd, fi [kN] R60	0,30	0,80	1,30	2,40	3,70
Tensile strength NRd, fi and shear VRd, fi [kN] R90	0,30	0,60	1,10	2,00	3,20
Tensile strength NRd, fi and shear VRd, fi [kN] R120	0,20	0,50	0,80	1,60	2,50
Anchor spacing Scr, fi [mm]	200	220	280	340	400
Distance from the edge Ccr, fi [mm]	100	110	140	170	200
Tinstacking torque Tinst [Nm]	20	45	65	150	250

* The entire technical approval AT-15-7728 / 2016 should be taken into account when designing

Installation diagram of TT G anchors





Installation diagram of TT G anchors