DROP-IN TDA – INTERNALLY THREADED SLEEVE ANCHOR

Applications:

- fastening of tubing, ventilation, electrical and telecommunication installations
- fastening and securing of scaffolding and falsework
- fastening of suspended ceilings and lighting

Advantages:

- the same anchor for cracked and non-cracked concrete
- can be used in hollow-core slabs
- short embedment, base material thickness for hollow-core slabs starts from 50 mm
- sleeve does not protrude above the base material
- simple fastening removal
- not lipped version enables deeper embedment

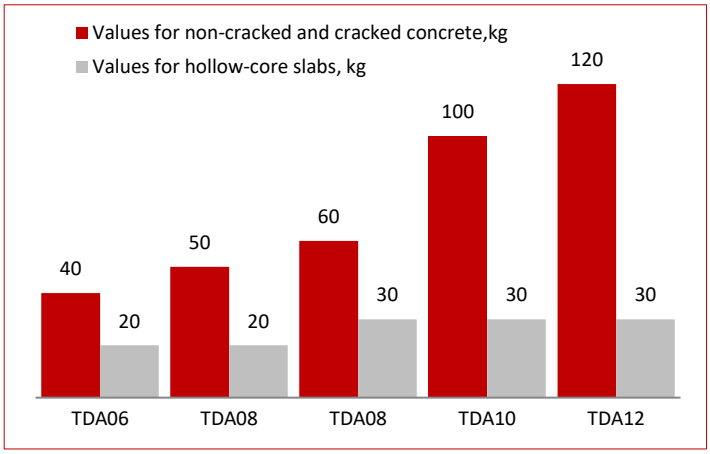
ETAG 001 cz. 6

TDA anchor designation			
Trutek Drop-in Anchor	Thread size d [mm]	Short version	Lipped version
TDA	**06**	**S**	**L**

Anchor bar material:
TDA are made of carbon steel class not lower than 5.8, galvanized min. 5 µm according to PN-EN ISO 4042:2001/Ap1:2004

Base material:
Cracked and non-cracked concrete from C20/25 to C50/60, hollow-core slabs with a thickness of 50 mm from C20/25 do C50/60

Calculated tensile capacity from C20/25 concrete, kg



Technical specification of TDA anchors

Product Code (lipped / not lipped version)	Thread size	Hole diameter	Min. hole depth	Effective embedment depth	Min. base material thickness	Min. hole diameter in fixed element	Anchor length	Setting tool
	d [mm]	d_o [mm]	h_1 [mm]	h_{ef} [mm]	h_{min} [mm]	d_f [mm]	L [mm]	Product code
TDA06L/TDA06	6	8	25	25/20*	80/50*	7	25	TDST06
TDA08L/TDA08	8	10	30	30/20*	80/50*	9	30	TDST08
TDA10L/TDA10	10	12	40	40/30*	80/50*	11	40	TDST10
TDA12L/TDA12	12	16	50	50/30*	100/50*	13	50	TDST12
TDA16L/TDA16	16	20	65	65	130	18	65	TDST16
TDA20	20	25	80	80	160	22	80	TDST20

*when designing in hollow-core slabs, the whole technical approval AT-15-6821/2015 should be taken into account

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Calculated load capacity of TDA anchors in cracked and non-cracked concrete min. C20/25*

Anchor size symbol	TDA06	TDA08	TDA08	TDA10	TDA12
Effective embedment depth h_{ef} [mm] – solid ground/ hollow-core slab	25/20	25/20	30/25	40/30	50/30
Tensile capacity N_{Rd} [kN] – cracked and non-cracked concrete	0,4	0,5	0,6	1,0	1,2
Tensile capacity N_{Rd} [kN] – hollow-core slab	0,2	0,2	0,3	0,3	0,3
Shear capacity V_{Rd} [kN] – cracked and non-cracked concrete	0,7	1,0	1,2	2,0	2,4
Shear capacity V_{Rd} [kN] - hollow-core slab	0,4	0,4	0,6	0,6	0,6
Anchor spacing $S_{cr,N}$ [mm]	200	200	200	200	200
Edge distance $C_{cr,N}$ [mm]	150	150	150	150	150
Tightening torque [Nm]	4,5	11	11	22	38

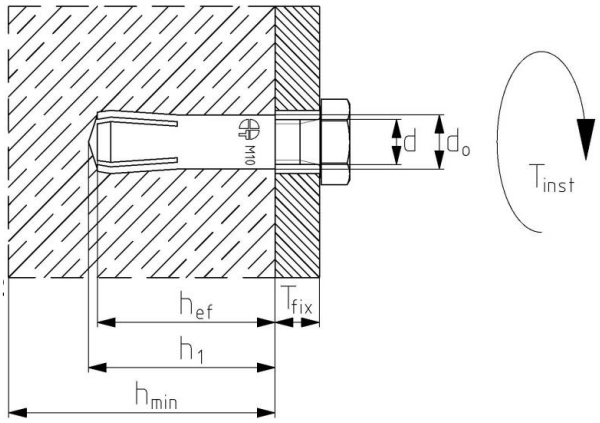
*capacity achievable with bolts or threaded bars made of steel of mechanical properties class not less than 4.8 for threaded products. When designing the whole technical approval AT-15-6821/2015 should be taken into account

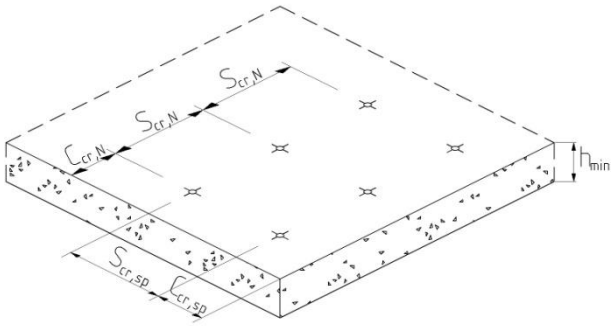
Calculated load capacity of TDA anchors in cracked and non-cracked concrete min. C20/25 in case of fire*

Anchor size symbol	M8	M10	M12
Effective embedment depth h_{ef} [mm]	30	40	50
Tensile and shear load capacity R30 N_{Rd} [kN]	0,4	0,6	0,8
Tensile and shear load capacity R60 N_{Rd} [kN]	0,3	0,6	0,8
Tensile and shear load capacity R90 N_{Rd} [kN]	0,3	0,6	0,8
Tensile and shear load capacity R120 N_{Rd} [kN]	0,2	0,5	0,6
Anchor spacing $S_{cr,fi}$ [mm]	120	160	200
Edge distance $C_{cr,fi}$ [mm]	60	80	100
Tightening torque [Nm]	11	22	38

*capacity achievable with bolts or threaded bars made of steel of mechanical properties class not less than 4.8 for threaded products. When designing the whole technical approval AT-15-6821/2015 should be taken into account

Drop-in anchors TDA installation scheme





TDA anchor installation