

MECHANICAL ANCHORS

DROP-IN TDA

INTERNALLY THREADED SLEEVE ANCHOR

for use in concrete for redundant non structural applications



Features:

- Deformation controlled fixing
- Approved for use in cracked & non-cracked concrete
- Approved for structural applications in non-cracked concrete
- Lipped and smooth versions

Benefits:

- Quick and simple installation
- One anchor for concrete from C20/25 to C50/60
- Suitable for bolts and threaded rod
- Adjustable fixture thickness
- Bolt and stud can be removed for temporary structures

Base material:

Cracked & Non-cracked concrete from C20/25 to C50/60



Anchor

TDA



d [mm]

80

17. 22, 0.133									
	TDA anchor designation								
Trutek Drop-in	Thread size	Short	Lipped						

LS

Product Range

		Thread Diameter	Outside Diameter	Anchor Length	Internal Thread Length	Drill Hole Diameter	Drill Hole Depth	Fixture Clearance Hole	Installation Torque (Max)	Setting Punch
Pro	duct Code	d	D	L	L _{th}	d _o	h _{nom}	d_f	T _{inst}	Reference
Smooth	Lipped	mm	mm	mm	mm	mm	mm	mm	Nm	Reference
TDA08	TDA08L	8	10	30	13	10	33	9	11	TDST08
TDA10S	TDA10LS	10	12	30	13	12	33	12	17	TDST10
TDA10	TDA10L	10	12	40	19	12	43	12	17	TDST10
TDA12	TDA12L	12	16	50	22	16	54	14	38	TDST12

Installation Data

Thread Diameter			M08	M10S	M10	M12
Non-cracked concrete						
Effective Anchorage Depth	h _{ef}	[mm]	30	30	40	50
Minimum Concrete Thickness	h _{min}	[mm]	80	80	80	80
Characteristic Spacing	S _{cr,N}	[mm]	200	200	200	250
Characteristic Edge Distance	C _{cr,V}	[mm]	150	150	150	150

^{**}All Data Values are based on correct installation using Setting tools provided by Trutek

www.trutekfasteners.eu e-mail: export@trutek.com.pl

Tel.: +48 22 701 93 24-25 Fax: +48 22 100 12 31



MECHANICAL ANCHORS

Load Data

Characteristics Resistance

Thread Diameter			M08	M10S	M10	M12	
N _{Rk}	Tensile Resistance	[kN]	4.0	4.5	4.5	7.0	
Design Resistance	Design Resistance						
Thread Diameter			M08	M10S	M10	M12	
N _{Rd}	Tensile Resistance	[kN]	1.9	2.1	2.5	3.9	
Recommended Resistance							
Thread Diameter			M08	M10S	M10	M12D	
N _{rec}	Tensile Resistance	[kN]	1.4	1.5	1.8	2.8	

Includes Partial Safety Factor y = 1.4 in the absence of national regulations and type of loading Data is for Static and Quasi Static Loads for a single anchor

Steel Limits

Thread Diameter			M08	M10S	M10	M12
Characteristic Shear - with lever arm						
Grade 4.8	M ⁰ _{Rk,s}	[Nm]	15.0	30.0	30.0	52.4
Grade 5.8	$M^0_{Rk,s}$	[Nm]	18.8	37.0	37.0	65.6
Grade 8.8	M ⁰ _{Rk,s}	[Nm]	30.0	60.0	60.0	104.9
Partial Safety Factor Y _{MsV} [-]			1.25			

Fire Loads

Characteristic Resistance for Fire Loads

(for threaded rod \geq 4.8)

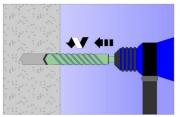
Thread Diameter			M08	M10	M12	M12D
N _{Rk,s,fi,30}	R30	[kN]	0.89	0.89	1.13	1.75
N _{Rk,s,fi,60}	R60	[kN]	0.89	0.89	1.13	1.75
N _{Rk,s,fi,90}	R90	[kN]	0.89	0.89	1.13	1.75
N _{Rk,s,fi,120}	R120	[kN]	0.71	0.71	0.90	1.40

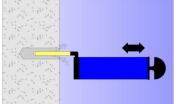
In the absence of other national regulations the partial safety for resistance under fire exposure = 1.0

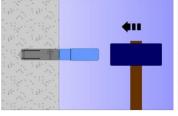
Spacing	[mm]	$S_{cr,N,fi}$	4 x h _{ef}
Edge Distance	[mm]	C _{cr,N,fi}	2 x h _{ef}

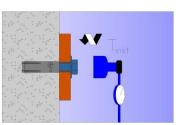
 $The \ design \ method \ covers \ anchors \ with \ a \ fire \ attack \ from \ one \ side \ only. \ In \ the \ case \ of \ a \ fire \ attack \ from \ more \ than \ one \ side \ the \ edge \ distance \ shal \ be \ \geq \ 300mm$

TDA anchor installation Must be set using Trutek Setting tools









Tel.: +48 22 701 93 24-25 Fax: +48 22 100 12 31 www.trutekfasteners.eu e-mail: export@trutek.com.pl

 $^{**}All\ Data\ Values\ are\ based\ on\ correct\ installation\ using\ Setting\ tools\ provided\ by\ Trutek$