



DECLARATION OF PERFORMANCE

DoP 0263

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a. Manufacturer: fischerwerke GmbH & Co. KG, Klaus-Fischer-Str. 1, 72178 Waldachtal, Germany 4. Auborised representative: - 5. Spetamic of AVCP: 1 6. European Assessment Document: EAD 32022-00-0601 European Technical Assessment: ETA-040003; 2019-06-12 Diff: boolyne: 2019-06-12 Diff: boolyne: 2019-06-12 Diff: boolyne: 2017 UD Demstate 7. Declared performanced: EAD-040003; 2019-06-12 Mechanical resistance to tension load (static and quasi-static loading): Resistance to pul-load laive: Annex C1 Resistance to pul-out laive: Annex C1 Resistance to provent splitting under load: Annex C2 Resistance to provent splitting under load: Annex C2 Resistance to provent splitting: Annex C2 Resistance to provent splitting: Annex C2 Resistance to spream calliture: Annex C2 Resistance to spream splitting under load: Annex C2 Resistance to spream splitting: annex C2 Resistance to splitting: report splitting: Annex C2 Resistance to splitting: annex C2 Resistance to splitting: report splitting: Annex C2 Resistance to splitting: annex C2 Resistance to splitting: report splitting: Annex C2 Resistance to splitting: annex C2 Resistance to splitalitance and splitting: Provi Resice Annex C2<	Unique identification code of the product-type:	DOP 0263	
 Authorised representative: Authorised representative:	2. Intended use/es:	Post-installed fastening for use in uncracked concrete, see append	dix, especially annexes B1 - B3.
9. System 1 8. European Assessment Document: ETA-040003; 2018-06-12 European Technical Assessment Body: 2873 TU Darmstadt 7. Dist-Docutoches Institut für Bautechnik 2. Dist-Docutoches Institut für Bautechnik 2. Statiance to statiality (BWR 1) Characteristic resistance on to tension load (static and quasi-static loading): Resistance to pail-out failure: Annex C1 Resistance to pail-out failure: Annex C1 Resistance to pail-out failure: Annex C1 Robustines: Annex C1 Robustines: Annex C1 Robustines: Annex C1 Robustines: Annex C1 Robustine: Annex C1 Robustine: Annex C1 Robustine: Annex C1 Robustine: Annex C2 Robustine: Annex C3 Robustine: Annex C4 Resistance to pail-out failure: Annex C1 Robustine: Annex C2 Robustine: Annex C3 Resistance to pail-out failure: Annex C2 Brastance to pail-out failure: Annex C2 Resistance to pail-out failure: Nonex C2 Durabity: Resistance to pail-out failure: NPD Resistance to pail-out failure: NPD<	3. <u>Manufacturer:</u>	fischerwerke GmbH & Co. KG, Klaus-Fischer-Str. 1, 72178 Waldach	ntal, Germany
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Dr.-Ing. Oliver Geibig, Managing Director Business Units & Engineering Tumlingen, 2021-01-12 Jürgen Grün, Managing Director Chemistry & Quality

This DoP has been prepared in different languages. In case there is a dispute on the interpretation the English version shall always prevail.

The Appendix includes voluntary and complementary information in English language exceeding the (language-neutrally specified) legal requirements.

Specific Part

1 Technical description of the product

The fischer Heavy-duty anchor TA M, TA M S and TA M T in the range of M6, M8, M10 and M12 is an anchor made of galvanised steel which is placed into a drilled hole and anchored by torque-controlled expansion with the hexagon head bolt.

The product description is given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The performances given in Section 3 are only valid if the concrete screw is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the concrete screw of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance		
Characteristic resistance to tension load (static and quasi-static loading)	see Annex C 1		
Characteristic resistance to shear load (static and quasi-static loading)	see Annex C 2		
Displacements (static and quasi-static loading)	see Annex C 2		
Characteristic resistance and displacements for seismic performance categories C1 and C2	No performance assessed		

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	No performance assessed

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

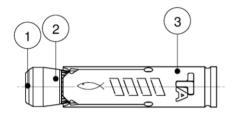
In accordance with European Assessment Documents EAD No. 330232-00-0601 the applicable European legal act is: [96/582/EC].

The system to be applied is: 1

Pre-positioned installation:

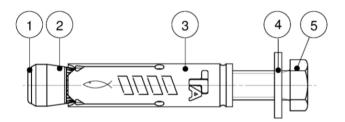
ТА М

The hexagon head screw and the washer according to table A4.1 and A4.2 must be provided by the user



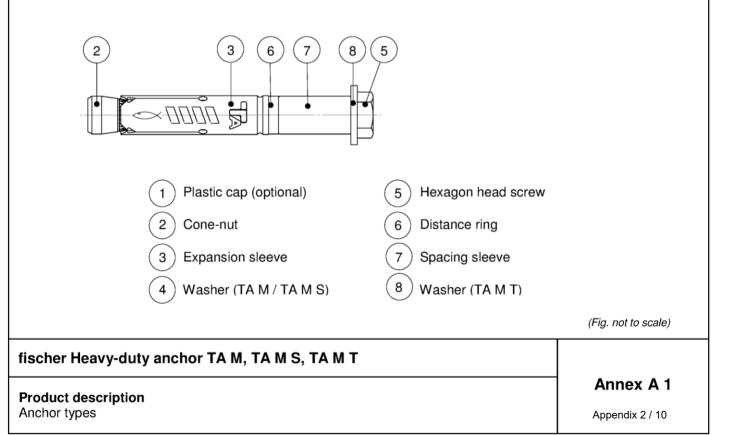
TA M S

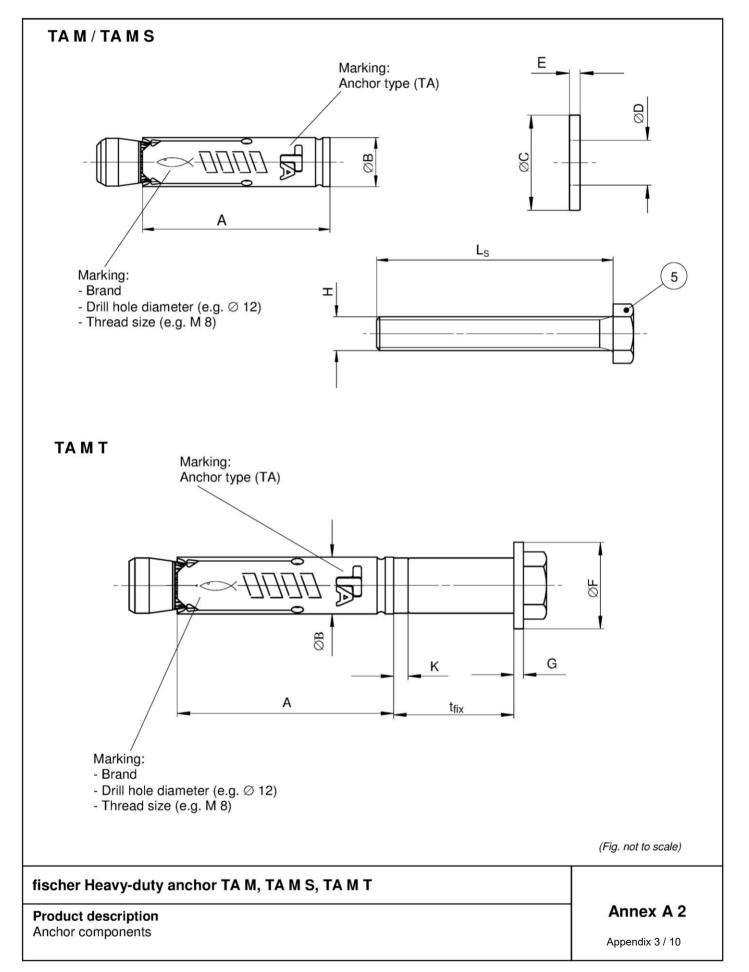
The hexagon head screw is provided by the manufacturer (fischer) together with the anchor



In-place installation:

ТАМТ





Part	Designation	Type of anchor			M6	M	3	M10	M12	
-		TAM/TAMS/	А		40,0	45,	0	55,0	70,0	
3	Expansion sleeve	ТАМТ	ØB		9,6	11,	8	14,5	17,5	
) M = = (= = = 1)	TA 14 0	ØC	\geq	11,0	15,	0	19,0	23,0	
4	Washer ¹⁾	TAMS	E	\geq	1,4	1,4	1	1,8	2,3	
8	Weeber	ТАМТ	ØF	\geq	17,0	21,	0	25,0	30,0	
0	Washer		G	\geq	1,4	1,8	3	2,3	2,7	
5	Hexagon head screw ²⁾	TAMS/TAMT	L_{s}	\geq	t _{fix} + 50	t _{fix} +	55	t _{fix} + 70	t _{fix} + 85	
5	Hexagon nead screw		н		M6	M	3	M10	M12	
6	Distance ring	ТА М Т	K = 3,0 3,0)	3,0	3,0	
1	Plastic cap ¹⁾	TA M / TA M S	Polyamide				-			
¹⁾ For:	Distance ring specification - summary of specification - summary of	washer for TA M s	ee table	A4.2)	3,0	3,0	
1	Plastic cap ¹⁾ Cone-nut	TAM/TAMS TAM/TAMS/ TAMT		Zinc				- c plated according to EN 0 4042:2017, min 5 μm,		
								ional function	nal coating	
3	Expansion sleeve	TA M / TA M S / TA M T	Cold-ro							
4	Washer ²⁾	TA M S					Zinc	plated according to EN 4042:2017, min 5 μm		
8	Washer	ТА М Т	Steel,	min 1	40 HV					
5	Hexagon head screw ³⁾	TAMS/TAMT	Steel,	prope	rty class 8.8					
6	Distance ring	ТА М Т	Polyet	Polyethylen			-			
7	Distance sleeve	ТА М Т						plated accor 4042:2017, r		
	onal specification - summary of specification - summary of					.1				
ische	er Heavy-duty anchor	ГА M, TA M S, ТА	а м т							
Produc	ct description							Ann	ex A 3	
Anchor	dimensions							Appendix 4 / 10		

Materials

Appendix 4 / 10

Description				TA M6	TA M8	TA M10	TA M12
Length of hexagon	head screv	w L _s	[mm]	\geq t _{fix} + 50	\geq t _{fix} + 55	$\geq t_{fix} + 70$	\geq t _{fix} + 85
Thread size		Н	[-]	M6	M8	M10	M12
Standardisation				ISO 4014:2017	/ ISO 4017:2014	f or DIN 931:198	7 / DIN 933:198
Material					Steel, prop	erty class 8.8	
Treatment				Zinc plate	ed according to E	N ISO 4042:201	7, min 5 μm
Table A4.2: Se	election c	riteria for	the was	her (TA M)			
Description				TA M6	TA M8	TA M10	TA M12
	D	min		6,0	8,0	10,0	12,0
Hole diameter	D	max		6,6	8,6	10,8	13,3
External diameter	С		[mm]	≥ 11,0	≥ 15,0	≥ 19,0	≥ 23,0
The induces of		min		1,4	1,4	1,8	2,3
Thickness	E	max		3,0	3,0	4,0	5,0
Material					Steel, hardness	class min 140 H	V
Treatment				Zinc plate	ed according to E	N ISO 4042:201	7, min 5 μm
						-	
			Ē		l		
			ØC				
						(Fig	. not to scale)
				T & 84 T			
fischer Heavy-d	_	or TA M,	IAMS,				
fischer Heavy-d Product descripti Dimensions	_	or TA M,	ТАМ 5,			A	nnex A 4

Specifications of intended use

fischer Heavy-duty anchor	TA M6	TA M8	TA M10	TA M12			
Steel, zinc plated	1						
Static and quasi-static loads	✓						
Uncracked concrete			1				

Base materials:

- · Normal weight concrete according to EN 206-1:2000
- Strength classes C20/25 to C50/60 according to EN 206-1:2000

Use conditions (Environmental conditions):

· Structures subject to dry internal conditions

Design:

- Anchorages have to be designed under the responsibility of an engineer experienced in anchorages and concrete work
- Verifiable calculation notes and drawings have to be prepared taking account of the loads to be anchored. The
 position of the anchor is indicated on the design drawings (e.g. position of the anchor relative to reinforcement
 or to supports, etc.)
- Design of fastenings according to FprEN 1992-4: 2016 and EOTA Technical Report TR 055

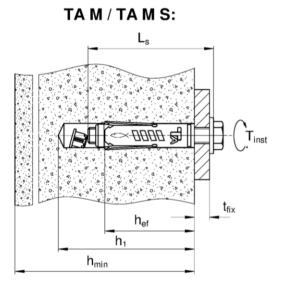
Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site
- Hammer or hollow drilling according to Annex B3
- Drill hole created perpendicular +/- 5° to concrete surface, positioning without damaging the reinforcement
- In case of aborted hole: new drilling at a minimum distance twice the depth of the aborted drill hole or smaller distance if the aborted drill hole is filled with high strength mortar and if under shear or oblique tension load it is not in the direction of load application

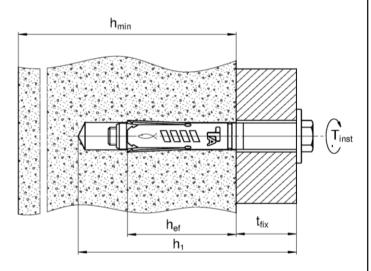
fischer Heavy-duty anchor TA M, TA M S, TA M T

Intended use Specifications Annex B 1

Table B2.1: Installation parameter	ers for T	Γ Α Μ /	TAMS/TA	АМТ				
Anchor size			TA M6	TA M8	TA M10	TA M12		
Nominal drill hole diameter	d ₀		10	12	15	18		
Maximum drill bit diameter	$d_{cut} \leq$		10,45	12,50	15,50	18,50		
Length of hexagon head screw	L _S ≥		t_{fix} + 50	t _{fix} + 55	t _{fix} + 70	t _{fix} + 85		
Depth of drill hole (TA M / TA M S)	$\frac{h_1}{b} \ge$		L _s - t _{fi}	_x + 15	$L_s - t_{fix} + 20$			
Depth of drill hole (TA M T)	≥			Ls				
Diameter of clearance hole in the fixture (TA M / TA M S)	df	[mm]	7	9	12	14		
Diameter of clearance hole in the fixture (TA M T)	≤ d _f		12	14	18	20		
Thickness of fixture	t _{fix,min}		1					
Thickness of fixture	t _{fix,max}		150	200	250	300		
Required torque moment	T _{inst}	[Nm]	10	20	40	75		



TAMT:



Length of hexagon head screw L_{s} = h_{ef} =

Effective embedment depth Thickness of the fixture

h_{min} h_1

T_{inst}

Minimum thickness of concrete member

Depth of drill hole to deepest point =

Required setting torque =

Minimum thickness of concrete member, minimum spacing and minimum edge Table B2.2: distances

=

Anchor size			TA M6	TA M8	TA M10	TA M12
Minimum thickness of concrete member	h _{min}		100	100	110	140
Minimum spacing	S _{min}	[mm]	80	90	110	160
Minimum edge distance	C _{min}		50	60	70	120
					(Fig. not	to scale)
fischer Heavy-duty anchor TA M, TA	M S, TA	мт				

Intended Use

t_{fix}

=

Installation instructions Minimum thickness of concrete member, minimum spacing and minimum edge distance Annex B 2

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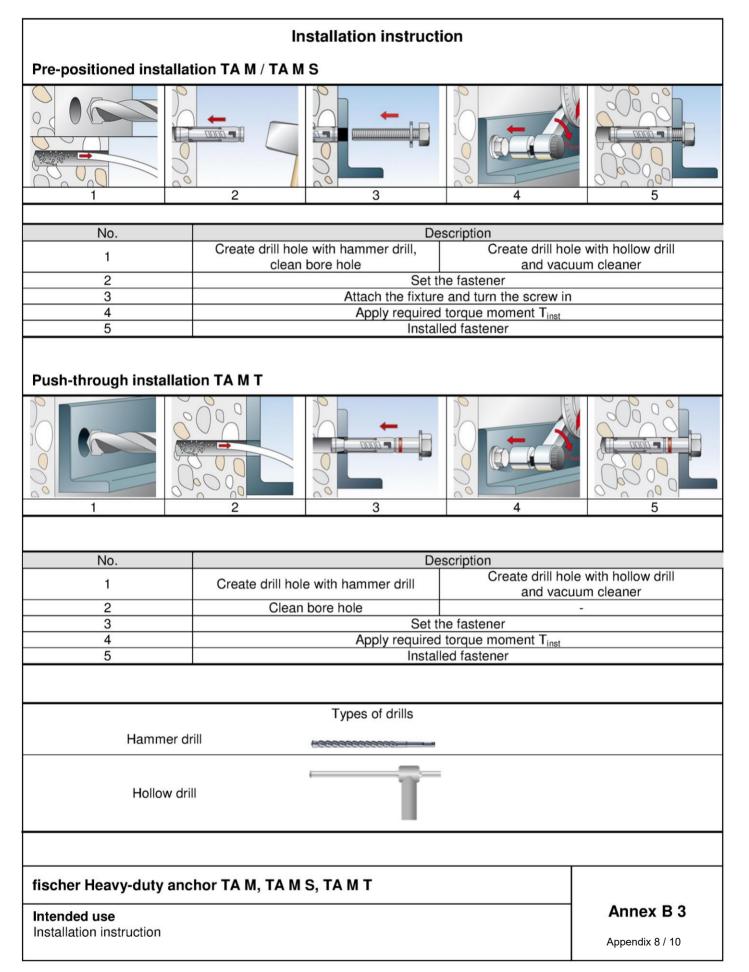


Table C 1.1: Characteristic tens	sion res	sistan	ce unde	r static and	quasi-static	loads		
Anchor size				TA M6	TA M8	TA M10	TA M12	
Steel failure								
Characteristic resistance property class 8.8	N _{Rk,s}		[kN]	16,1	29,3	46,4	67,4	
Partial factor	γ _{Ms} 1)		[-]		1	1,5		
Pull-out failure					-	-		
Characteristic resistance in uncracked concrete	N _{Rk,p}	[kN]	C20/25	7,5	12	20	25	
			C25/30	1,12				
Increasing factors for N _{Bkp} for	Ψc	-	C30/37		1	,22		
		-	C35/45		1	,32		
uncracked concrete			C40/50		1	,41		
		-	C45/55		1	,50		
			C50/60		1	,58		
Installation factor	Yinst		[-]		1	1,0		
Concrete cone failure and splitting fa	ailure							
Effective embedment depth	h _{ef}		[mm]	40	45	55	70	
Factor k ₁	$k_{ucr,N}$		[-]		11	,0 ²⁾		
Spacing (concrete cone failure)	S _{cr,N}			120	135	220	210	
Edge distance (concrete cone failure)	C _{cr,N}		[mm]	60	68	110	105	
Spacing (splitting)	S _{cr,sp}		[]	120	180	330	420	
Edge distance (splitting)	C _{cr,sp}			60	90	165	210	

¹⁾ In absence of other national regulations ²⁾ Based on concrete strength as cylinder strength

fischer Heavy-duty anchor TA M, TA M S, TA M T

Characteristic tension resistance under static and quasi-static loads

Annex C 1

Anchor size			TA M6	TA M 8	TA M10	TA M12
Shear load without lever arm						
Characteristic resistance property class 8.8	$V^0_{\ Rk,s}$	[kN]	5,8	11,7	19,2	29,8
Partial factor	γ _{Ms} 1)	- [-] -		1	,25	
Ductility factor	k ₇	[-]			1,0	
Shear load with lever arm						
Characteristic bending moment property class 8.8	$M^{O}_{Rk,s}$	[Nm]	12	30	60	105
Partial factor	$\gamma_{Ms}^{(1)}$	[-]		1	,25	
Concrete pryout failure						
Ductility factor	k ₇	[_]			1,0	
Factor	k ₈	- [-] -	1,1	1,8	1,8	2,0
Concrete edge failure						
Effective length of the fastener	lf	[mm]	40	45	55	70
Outside diameter of fastener	d _{nom}		10	12	15	18
¹⁾ In absence of other national regulations Table C2.2: Displacements under s	tatio and au	nci atatio	tonsion	ada		
Anchor size	static and que		TA M6	TA M8	TA M10	TA M12
Tension load in uncracked concrete	~	[kN]	3,0	4,8	7,9	9,9
Displacements	δ _{N0}	[mm]	0,7	0,7	1,2	1,2 1,8
	$\delta_{N^{\infty}}$		1,0	1,0	1,0	1,0
Table C2.3: Displacements under s	tatic and qua	asi static	shear load	ls	1	
Anchor size			TA M6	TA M8	TA M10	TA M12
Shear load in uncracked concrete		[kN]	3,3	6,7	11,0	17,0
			0.1	1.0	0.1	0.0
Displacements	δ _{v0}	[mm]	2,1	1,9	3,1	3,3

fischer Heavy-duty anchor TA M, TA M S, TA M T

Performances

Characteristic **shear** resistance under static and quasi-static loads Displacements under tension and shear loads

Annex C 2

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