



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-11/0100 of 16 February 2018

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of Deutsches Institut für Bautechnik

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Plastic anchor for multiple use in concrete and masonry for non-structural applications

TOX-Dübel-Technik GmbH Brunnenstraße 31 72505 Krauchenwies DEUTSCHLAND

TOX Werk 11

19 pages including 3 annexes which form an integral part of this assessment

ETAG 020, edition March 2012, used as EAD according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011.

Deutsches Institut für Bautechnik Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de



European Technical Assessment ETA-11/0100

Page 2 of 19 | 16 February 2018

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



Page 3 of 19 | 16 February 2018

European Technical Assessment ETA-11/0100

English translation prepared by DIBt

Specific Part

1 Technical description of the product

The TOX Fassad SDF 10V and TOX Fassad SDF 10H is a plastic anchor consisting of a plastic sleeve made of polyamide and an accompanying specific screw of galvanised steel or of stainless steel.

The plastic sleeve is expanded by screwing in the specific screw which presses the sleeve against the wall of the drilled hole.

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 anchor 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 to the assumption of a working life of the anchors 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)

The essential characteristics regarding mechanical resistance and stability are included under the Basic Works Requirement Safety in use.

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Anchorages satisfy requirements for Class A 1
Resistance to fire	See Annex C 2

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Characteristic resistance for tension and shear loads	See Annexes C 1 – C 6
Characteristic resistance for bending moments	See Annex C 1
Displacements under shear and tension loads	See Annex C 2
Anchor distances and dimensions of members	See Annex B 3 – B 5

3.4 General aspects

The verification of durability is part of testing the essential characteristics. Durability is only ensured if the specifications of intended use according to Annex B are taken into account.



European Technical Assessment ETA-11/0100

Page 4 of 19 | 16 February 2018

English translation prepared by DIBt

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

In accordance with guideline for European technical approval ETAG 020, March 2012 used as European Assessment Document (EAD) according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011 the applicable European legal act is: 97/463/EC. The system to be applied is: 2+

5 Technical details necessary for the implementation of the AVCP system, as provided for

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 16 February 2018 by Deutsches Institut für Bautechnik

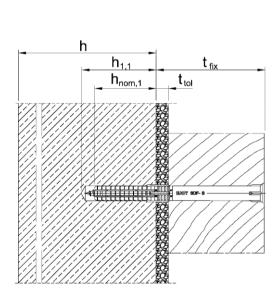
in the applicable European Assessment Document

BD Dipl.-Ing. Andreas Kummerow Head of Department *beglaubigt:* Aksünger

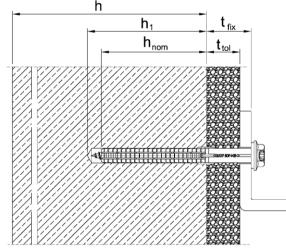
Page 5 of European Technical Assessment ETA-11/0100 of 16 February 2018

English translation prepared by DIBt

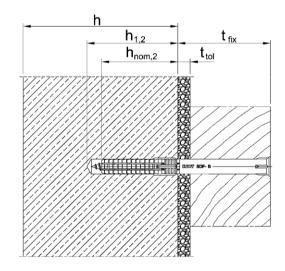




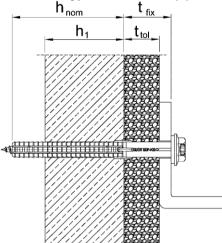
Intended use SDF-10V in concrete (h_{nom1}) Screw head-type: countersunk (S)



Intended use SDF-10H in concrete/masonry/ autoclaved aerated concrete (h_{nom}) Screw head-type: collar head (KB)



Intended use SDF-10V in solid block (h_{nom2}) screw head-type: countersunk (S)



Intended use SDF-10H in a weather shell (hnom)

Screw head-type: collar head (KB)

Legend

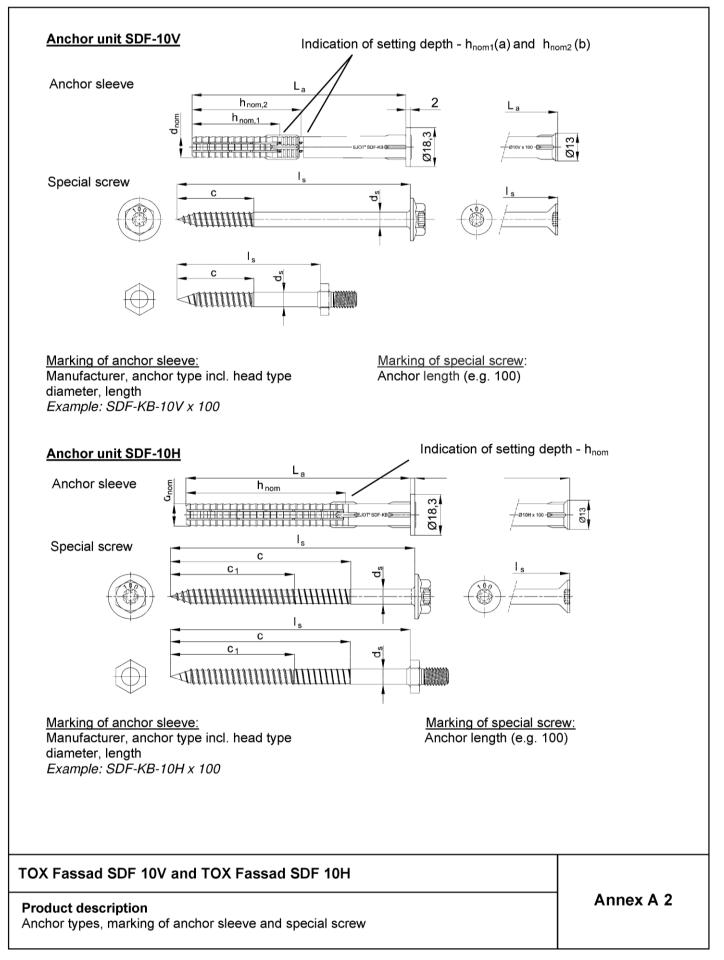
Legen		
h	=	Thickness of member
h _{1,1}	=	Depth of drilled hole to deepest point (application in concrete)
h _{1,2}	=	Depth of drilled hole to deepest point (application in masonry)
h _{nom}	=	Overall plastic anchor embedment depth (setting depth)
h _{nom,1}	=	Overall plastic anchor embedment depth (application in concrete)
h _{nom,2}	=	Overall plastic anchor embedment depth (application in masonry)
t _{tol}	=	Thickness of equalizing layer or non-load bearing coating
t _{fix}	=	t _{tol} + thickness of fixture

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Product description Installed condition

Annex A 1







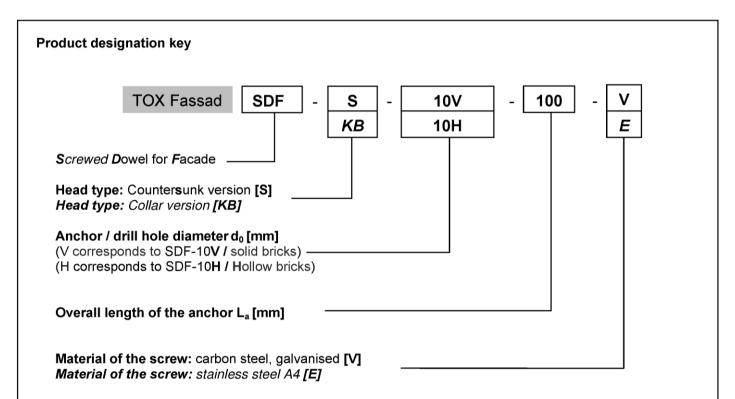


Table A3.1: Dimensions [mm]

	Anchor sleeve								Special screw			
Anchor type	colour	d _{nom}	h _{nom1}	h _{nom2}	min L _{a1}	min L _{a2}	max L _a	Ls	ds	C ₁	с	
SDF-S-10V	blue	10	40	50	50	60	220	L _a + 8,0	7,0		35	
SDF-KB-10V	blue	10	40	50	50	60	220	L _a + 8,0	7,0		35	
SDF-S-10H	orange	10	7	0	80)	300	L _a + 8,0	7,0	55	80	
SDF-KB-10H	orange	10	7	70)	220	L _a + 8,0	7,0	55	80	

(Designations see annex A 2)

Table A3.2: Material

Element	Material
Anchor sleeve	Polyamide PA6, colour see Table A3.1
Special	Carbon steel, galvanized > 5 µm acc. EN ISO 4042:1999
screw	Stainless steel acc. EN 10088-3:2012, z.B. 1.4401 / 1.4571 / 1.4578 / 1.4362 strength class ≥ A4-70

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Product description

Product designation key, dimensions, material

Page 8 of European Technical Assessment ETA-11/0100 of 16 February 2018

English translation prepared by DIBt



Specifications of intended use

Anchorage is subject to:

- Static and guasi-static loads
- Multiple fixing of non-structural applications

Base materials:

- Reinforced or unreinforced normal weight concrete with strength classes ≥ C12/15 (usage category a), according to EN 206-1:2000, Annex C 2
- thin concrete components (weather shell) \geq 50 mm thickness (only SDF-10H)
- Solid brick masonry (usage category b), according to Annex C 3 and C 4.
- Note: The characteristic resistance is also valid for larger brick sizes and larger compressive strength of the masonry unit.
- Hollow brick masonry (usage category c), according to Annex C 5.
- Autoclaved aerated concrete (usage category d), according to Annex C 6.
- Mortar strength class of the masonry ≥ M2,5 at minimum according to EN 998-2:2010.
- For other base materials of the use categories a, b, c and d the characteristic resistance of the anchor may be determined by job site tests according to ETAG 020, Annex B edition March 2012.

Temperature Range:

- c: -40°C to 50°C (max. short term temperature + 50°C and max. long term temperature +30°C)
- b: -40°C to 80°C (max. short term temperature + 80°C and max. long term temperature +50°C)

Use conditions (Environmental conditions):

- Structures subject to dry internal conditions (zinc coated steel, stainless steel).
- The specific screw made of galvanized steel may also be used in structures subject to external atmospheric exposure, if the area of the head of the screw is protected against moisture and driving rain after mounting of the fixing unit in this way, that intrusion of moisture into the anchor shaft is prevented. Therefore there shall be an external cladding or a ventilated rainscreen mounted in front of the head of the screw and the head of the screw itself shall be coated with a soft plastic, permanently elastic bitumen-oil-combination coating (e.g. undercoating or body cavity protection for cars).
- Structures subject to external atmospheric exposure (including industrial and marine environment) and permanently damp internal condition, if no particular aggressive conditions exist (stainless steel).
- Note: Particular aggressive conditions are e.g. permanent, alternating immersion in seawater or the splash zone of seawater, chloride atmosphere of indoor swimming pools or atmosphere with extreme chemical pollution (e.g. in desulphurization plants or road tunnels where de-icing materials are used).

Design:

- The anchorages are designed in accordance with the ETAG 020, Annex C Edition March 2012 under the responsibility of an engineer experienced in anchorages and masonry work.
- Verifiable calculation notes and drawings shall be prepared taking account of the loads to be anchored, the nature and strength of the base materials and the dimensions of the anchorage members as well as of the relevant tolerances. The position of the anchor is indicated on the design drawings.
- Fasteners are only to be used for multiple use for non-structural application, according to ETAG 020 Edition March 2012.

Installation:

- Hole drilling by the drill modes acc. to Annex C for use category a,b,c and d.
- Anchor installation carried out by appropriately qualified personnel and under the supervision of the
 person responsible for technical matters of the site.
- Installation temperature from -10°C to +40°C
- Exposure to UV due to solar radiation of anchor not protected ≤ 6 weeks

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Intended use Specifications

Page 9 of European Technical Assessment ETA-11/0100 of 16 February 2018

English translation prepared by DIBt

Deutsches Institut) für Bautechnik

Anchor type			SDF	-10V	SDF-10H
Use category ¹⁾			а	b	a,b,c,d
drill hole diameter	d₀[mm]	=	10	10	10
Cutting diameter of drill bit	d _{cut} [mm]	≤	10,45	10,45	10,45
Depth of the drill hole to deepest point	h _{1,1} [mm]	≥	50		
Overall plastic anchor embedment depth	h _{nom1} [mm]	≥	40		
Depth of the drill hole to deepest point	h _{1,2} [mm]	≥		60	
Overall plastic anchor embedment depth	h _{nom2} [mm]	≥		50	
Depth of the drill hole to deepest point	h₁[mm]	≥			80
Overall plastic anchor embedment depth ²⁾	h _{nom} ²⁾ [mm]	=			70
Diameter of the clearance hole in the fixture	d _f [mm]	S	10,5	10,5	10,5
Minimum installation temperature	[°C]			-1	0
Temperature range (c)	[°C]			30 -	- 50
Temperature range (b)	[°C]			50 ·	- 80

¹⁾ Use category: **a** = concrete, **b** = solid masonry, **c** = hollow or perforated masonry,

d = autoclaved aerated concrete ²⁾ For masonry of hollow or perforated brick the influence $h_{nom} > 70$ mm has to be determined by job-site tests according to ETAG 020, Annex B.

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Intended use

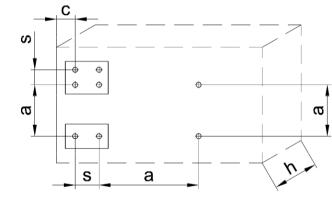
Installation parameters use category a, b, c, d



Anchor type		Min. member thickness h _{min} [mm]	Characteristic edge distance C _{cr.N} [mm]	Minimum spacing and edge distances [mm]
SDF-10V	concrete ≥ C16/20	100	80	s _{min} = 60 für c _{min} ≥ 50
	concrete C12/15		110	s _{min} = 85 für c _{min} ≥ 70
	concrete ≥ C 16/20		80	s _{min} = 60 für c _{min} ≥ 50
SDF-10H	concrete C 12/15		110	s _{min} = 85 für c _{min} ≥ 70
	concrete C20/25 (thin concrete slabs)	50	160	s _{min} = 80 für c _{min} ≥ 160

Fixing points with a spacing a ≤ 80 mm are considered as a group with a maximum characteristic resistance $N_{Rk,p}$ according to Table C2.2. For spacing a > 80 mm the anchors are considered as single anchors, each with a characteristic resistance $N_{Rk,p}$ acc. to Table C2.2.

Scheme of spacing and edge distances in concrete



= member thickness h

= edge distance с

а = spacing

= spacing within anchor group Smin

TOX Fassad SDF 10V and TOX Fassad SDF 10H

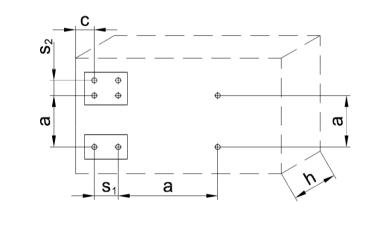
Intended use

Minimum member thickness, spacing and edge distance in concrete



Anchor type		SDF-10V	SDF-10H
Minimum member thickness	h _{min} [mm]	100	100
Single and	hor		
Minimum edge distance	c _{min} [mm]	100	100
Minimum spacing	a _{min} [mm]	250	250
Anchor gro	pup		
Minimum edge distance	c _{min} [mm]	100	
Minimum spacing perpendicular to free edge	s _{1,min} [mm]	100	
Minimum spacing parallel to free edge	s _{2,min} [mm]	100	

Scheme of spacing and edge distances in masonry



- member thickness h = = spacing а с
 - = edge distance
 - spacing (perpendicular to the free edge) within an anchor group =
 - spacing (parallel to the free edge) within an anchor group =

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Intended use

S₁

 \mathbf{S}_2

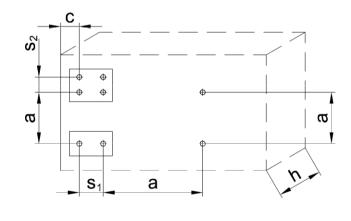
Minimum member thickness, spacing and edge distance in masonry



Table B5.1: Minimum member thickness, spacing and edge distance in autoclaved aerated concrete (use category d)

SDF -10H		f _b ≥4 N/mm²	f _b ≥6 N/mm²	
Single ar	nchor			
Minimum member thickness	h _{min} [mm]	100	140	
Minimum edge distance	c _{min} [mm]	c _{min} [mm] 100		
Minimum spacing	a _{min} [mm]	250		
Anchor g	Jroup			
Minimum member thickness	h _{min} [mm]	14	0	
Minimum edge distance	c _{1,min} [mm]	10	0	
Minimum edge distance (perpendicular to $c_{1,min}$)	c _{2,min} [mm]	15	0	
Minimum spacing perpendicular to free edge	S _{1,min} [mm]	80	0	
Minimum spacing parallel to free edge	s _{2,min} [mm]	80	0	

Scheme of spacing and edge distances in autoclaved aerated concrete



- = member thickness
 - = spacing
 - = edge distance
 - = spacing (perpendicular to the free edge) within an anchor group
 - = spacing (parallel to the free edge) within an anchor group

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Intended use

h

а

с

S₁

s₂

Minimum member thickness, spacing and edge distance in autoclaved aerated concrete



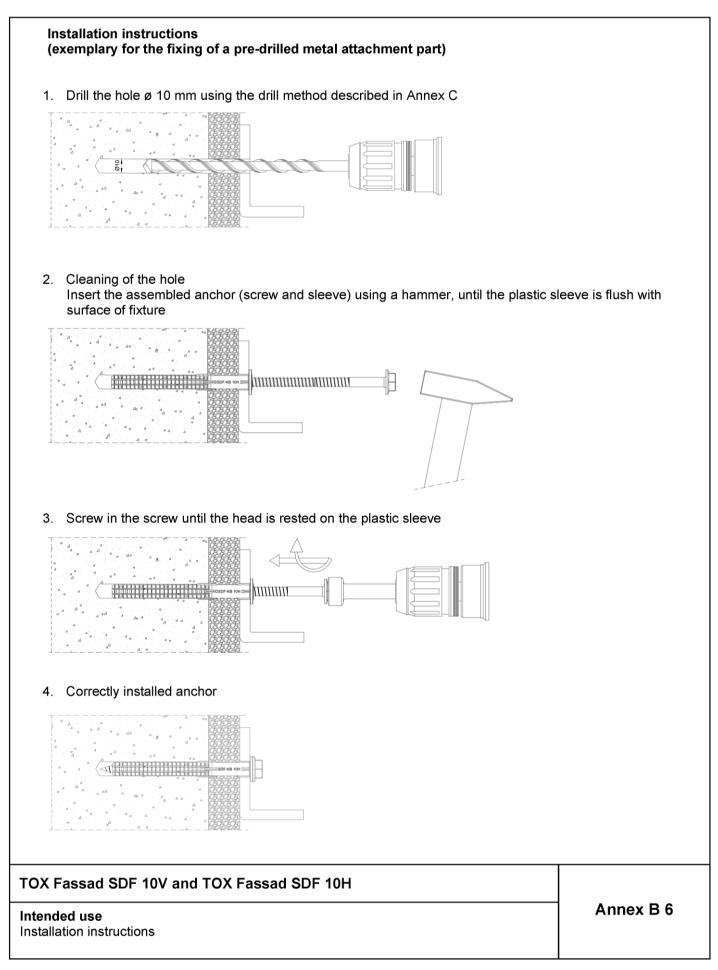




Table C1.1: Characteristic bending moment of the screw (use category a, b, c and d)

Anchor type		SDF	SDF	·10H		
Material	Steel, ga	lvanized	Stainless steel A4		Steel galvanized	Stainless steel A4
Characteristic bending moment M _{Rk,s} [Nm]	13,80 ²⁾	23,01 ³⁾	16,09 ²⁾	26,62 ³⁾	17,67	20,62
Partial safety factor γ_{Ms} 1)	1,25		1,56		1,25	1,56

1) in absence of other national regulations

2) at hnom,1

3) at h_{nom,2}

Table C1.2: Characteristic resistance of the screw (use category a, b, c and d)

Anchor type	SDF-10V SDF-10H			-10H		
Material	Steel, galvanized		Stainless steel A4		Steel, galvanized	Stainless steel A4
Characteristic tension resistance N _{Rk,s} [kN]	15,85		18,49		18,70	21,82
Partial safety factor γ_{Ms} ¹⁾		1,5	1,87		1,5	1,87
Characteristic shear resistance V _{Rk,s} [kN]	7,93 ²⁾	7,93 ²⁾ 11,09 ³⁾		12,94 ³⁾	9,35	10,91
Partial safety factor γ_{Ms} ¹⁾	1	1,25		56	1,25	1,56

1) In absence of other national regulations

2) at h_{nom,1} 3) at h_{nom,2}

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Performance

Characteristic resistance of the screw

Annex C 1

electronic copy of the eta by dibt: eta-11/0100



		Displac	ements und	er tension	Displac	cements unde	r shear
Anc	hor type	F [kN]	δ _№ [mm]	δ _№ [mm]	F [kN]	δ _{∨0} [mm]	δ _{ν∞} [mm]
	С	oncrete, s	solid and ho	llow or perfora	ated masonry	/	
SDF-10V		1,8	0,36	0,72	1,8	0,41	0,82
SDF-10H		1,8	0,37	0,74	1,8	0,41	0,82
			Autoclaved a	aerated concr	ete		
SDF-10H	f _b ≥ 4 N/mm²	0,54	0,17	0,34	0,54	1,08	1,62
3DF-10H	f _b ≥ 6 N/mm²	0,89	0,41	0,82	0,89	1,78	2,67
Pull-out fai	racteristic resist lure		Jun-Jut Tunu		-10V	SDF	-10H
Overall plastic anchor embedment depth h _{nom,1} [mm]			40		70		
Temperatur	e range			30/50 °C	50/80 °C	30/50 °C	50/80 °C
		Concret	e ≥ C 12/15 \$	Standard cond	rete slabs		
	tic tension resista	nce N _{Rk,p}	[kN]	4,5	4,0	4,5	4,0
Partial safet	ty factor $\gamma_{Mc}^{(1)}$				1	,8	
	Concre	ete ≥ C12/1	5 thin conc	rete slabs <i>(h</i> =	50mm bis 10	0 mm)	
Overall pla h _{nom,1} [mm]	stic anchor embo	edment de	epth			7	0
Temperatur	e range					30/50 °C	50/80 °(
Characterist	tic tension resista	nce N _{Rk,p} [kN]			3,0	3,0
Partial safet	ty factor $\gamma_{Mc}^{1)}$					1	,8
Value und	ler fire exposure tension l		vithout lever	o C50/60 in an arm, fastenin ince class R 9	g of facade s		nent centri
				≤ (),8	≤	0,8
F ²⁾ [kN]							
F ²⁾ [kN]	ence of other nation m x γε)	al regulation	ns				
F²⁾ [kN]) In the abso) F = F _{Rk} / (γ							



Geometry of the brick	Minimum com- pressive strength f _b [N/mm ²]	Bulk density ρ [kg/dm³]	F _{Rk} ¹⁾ [kN]	F _{Rk} ¹⁾ [kN]
			30°C – 50°C	50°C – 80°C
Solid	masonry			
-	20	≥ 1,8	2,5	2,5
	10		2,0	1,5
-	36	≥ 2,0	4,0	4,0
	20		2,0	2,0
	10		1,5	1,5
042 048 042	20	· ≥ 1,8	4,5	4,5
	10		3,0	3,0
-	6	≥ 1,2	0,30	0,30
	the brick Solid	Geometry of the brickcom- pressive strength f_b [N/mm²]Solid masonry20-10-36-201036-1036-10101010101010101010	Geometry of the brickcom- pressive strength f_b [N/mm²]Bulk density ρ [kg/dm³]Solid masonry-20 20 $21,8$ -20 10 $\geq 1,8$ -36 20 10 $\geq 2,0$ -10 $\geq 2,0$ 10 $\geq 1,8$ 10	Geometry of the brickcom- pressive strength f_b $[N/mm^2]$ Bulk density ρ $[kg/dm^3]$ FRk $[kN]$ Solid masonry20 200 2.18 2.5 - 20 10 2.5 - 20 2.0 2.5 - 20 10 2.5 - 20 2.0 2.0 - 20 10 2.0 - 20 10 2.0 - 10 4.0 - 10 4.5 20 10 2.18 3.0 4.5 3.0 3.0

Drilling method = Hammer drilling
 In the absence of other national regulations

electronic copy of the eta by dibt: eta-11/0100

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Performances

Characteristic resistance in solid masonry (SDF-10V)



Base material, min DF or min. size (LxWxH) [mm]	Geometry of the brick	Minimum com- pressive strength f _b [N/mm ²]	Bulk density ρ [kg/dm³]	F _{Rk} ¹⁾ [kN]	F _{Rk} ¹⁾ [kN]
				30°C – 50°C	50°C – 80°C
	Solid ma	asonry			
Clay brick Mz DIN 105-100:2012 / EN 771-1:2011 e.g. Schlagmann, MZ Format: 2 DF (240x115x113)	-	20	- ≥ 1,8	4,0	4,0
		10		3,0	3,0
Sand-lime solid brick, KS DIN V 106:2005-10 / EN 771-2:2011 e.g. Unika Format: NF (240x115x71)	-	36	≥ 2,0	4,5	4,5
		20		2,5	2,5
		10		1,5	1,5
Sand-lime solid brick, KS DIN V 106:2005-10 / EN 771-2:2011 e.g. Unika Format: 8DF (248x240x238)	248 00 ¹	20	- ≥ 1,8	4,5	4,5
		10		3,5	3,5
Lightweight concrete solid brick, V DIN V 18152-100:2005-10 / EN 771-3:2011 e.g. Fa. Nüdling, Liapor V6 Format: 2 DF (240x115x113)		6	• ≥ 1,2	2,0	2,0
	-	4		1,2	1,2
Lightweight concrete solid block Vbl DIN V 18152-100:2005-10 / EN 771-3:2011	_	4	≥ 1,0	2,0	2,0
e.g. Fa. Nüdling, FCN Liapor Format:(1200x800x200)		2		0,9	0,9

Drilling method = Hammer drilling
 In the absence of other national regulations

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Performances

Characteristic resistance in solid masonry (SDF-10H)



le C5.1: SDF-10H characteristic resis (use category c) with h _{nom} = (The influence of h _{nom} > 70 mm has to	70 mm	e tests)	ollow or per	forated brick	
Base material, min DF or min. size (LxWxH) [mm]	Geometry of the brick	Minimum com- pressive strength f _b [N/mm ²]	Bulk density ρ [kg/dm³]	F _{Rk} ¹⁾ [kN]	F _{Rk} ¹⁾ [kN]
				30°C – 50°C	50°C – 80°C
	Hollow or perfor	ated mason	ry		
Vertically perforated clay brick, HLz DIN 105-100:2012 / EN 771-1:2011		20	≥ 1,2	1,50	1,50
e.g. Unipor Format: 2 DF (240x115x113)		12		0,90	0,90
Vertically perforated clay, HLz DIN 105-100:2012 / EN 771-1:2011 e.g. Unipor Format: NF (240x115x71)	<u>240</u> <u></u>	12	≥ 0,9	2,00	2,00
		8		1,50	1,50
		6		0,90	0,90
Sand-lime perforated brick, KSL DIN V 106:2005-10 / EN 771-2:2011 e.g. Unika Format: 4DF (248x115x238)	248 8 9 9 1000	12	- ≥ 1,6	2,50	2,50
				2,00	2,00
		10		1,50	1,50
		8			
Sand-lime perforated brick, KSL DIN V 106:2005-10 / EN 771-2:2011 e.g. Unika Format: 8DF (248x240x238)	- 248 - 2	16		1,50	1,50
		12 ≥ 1,4	1,20	1,20	
	240	8	≤ 1,4	0,90	0,90
		6		0,60	0,60
Lightweight concrete hollow blocks, Hbl		10		1,20	1,20
DIN 18151-100:2005-10 / EN 771-3:2011 e.g. Fa. Nüdling Format: 12DF (375x240x238)	270 382 382 382 382 382 382 382 382 382 382	8	≥ 1,2	0,90	0,90
		6		0,75	0,75
		4		0,50	0,50
Partial safety factor γ_{Mm}^{2}				2	,5

¹⁾ Drilling method = Rotary drilling
 ²⁾ In the absence of other national regulations

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Performances

Characteristic resistance in hollow or perforated masonry (SDF-10H)

Annex C 5

electronic copy of the eta by dibt: eta-11/0100



Table C6.1: Characteristic load bearing capacity $F_{Rk}^{1)}$ for pull-out failure in autoclaved aerated concrete

		Dull density	F _{Rk} ¹⁾ [kN]	F _{Rk} ¹⁾ [kN]
Autoclaved aerated concrete according to EN 771-4	Min. compressive strength f _b [N/mm²]	Bulk density ρ [kg/dm³]	30°C – 50°C	50°C – 80°C
	4	500	1,5	1,5
	5	500	2,0	2,0
	6	650	2,5	2,0
	7	650	2,5 ³⁾	2,0 ³⁾
Partial safety factor γ_{MAAC}^{2}			2,0	

¹⁾ Drilling method = rotary drilling

²⁾ In the absence of other national regulations

³⁾ Values limited by the characteristic resistance in autoclaved aerated concrete with $f_b = 6 \text{ N/mm}^2$

TOX Fassad SDF 10V and TOX Fassad SDF 10H

Performances

Characteristic resistance in autoclaved aerated concrete (SDF-10H)

Annex C 6

electronic copy of the eta by dibt: eta-11/0100