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**European Technical Assessment Body** for construction products



### **European Technical Assessment**

## ETA-13/1066 of 16 June 2025

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

This version replaces

Deutsches Institut für Bautechnik

**ELEMATIC T66** 

Plastic anchor for redundant non-structural systems in concrete and masonry

ITW Construction Products Italy S.r.I.

V.le Regione Veneto, 5 35127 PADOVA (PD)

**ITALIEN** 

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

EAD 330284-00-0604, edition 12/2020

ETA-13/1066 issued on 28 February 2014

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## **European Technical Assessment ETA-13/1066**

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#### **Specific Part**

#### 1 Technical description of the product

The frame anchor Elematic T66 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 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	See Annex C 1

#### 3.2 Mechanical resistance and stability (BWR 4)

Essential characteristic	Performance
Resistance to steel failure under tension loading	See Annex C 1
Resistance to steel failure under shear loading	See Annex C 1
Resistance to pull-out or concrete failure under tension loading (base material group a)	See Annex C 1
Resistance in any load direction without lever arm (base material group b, c, d)	See Annexes C 2 - C 5
Edge distance and spacing (base material group a)	See Annex B 3
Edge distance and spacing (base material group b, c, d)	See Annex B 4
Displacements under short-term and long-term loading	See Annex C 1 and C 5
Durability	See Annex B 1

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

In accordance with European Assessment Document EAD 330284-00-0604 the applicable European legal act is: 97/463/EC.

The system to be applied is: 2+

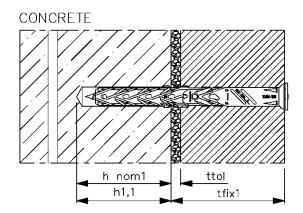
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

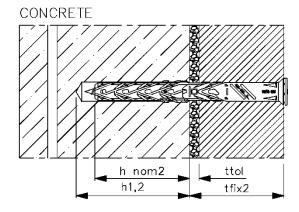
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

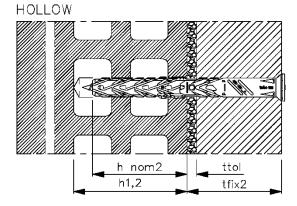
Issued in Berlin on 16 June 2025 by Deutsches Institut für Bautechnik

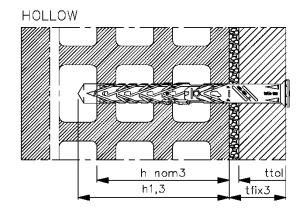
Dipl.-Ing. Beatrix Wittstock Head of Section *beglaubigt:*Ziegler

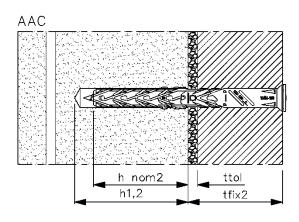


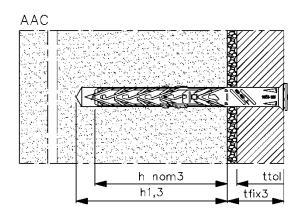












 $\begin{array}{ll} \text{Legend:} & h_{\text{nom,1}} \text{ , } h_{\text{nom,2}} \text{ , } h_{\text{nom,3}} \\ & h_{1,1} \text{ , } h_{1,2} \text{ , } h_{1,3} \\ & t_{\text{fix1}} \text{ , } t_{\text{fix2}} \text{ , } t_{\text{fix3}} \\ & t_{\text{tol}} \\ & \text{AAC} \end{array}$ 

 $t_{\text{fix2}}$ ,  $t_{\text{fix3}}$  =  $t_{\text{tol}}$  + thickness of fixture = thickness of equalizing

= thickness of equalizing layer or non-load bearing coating

= overall plastic anchor embedment depth in the base material

= autoclaved aerated concrete

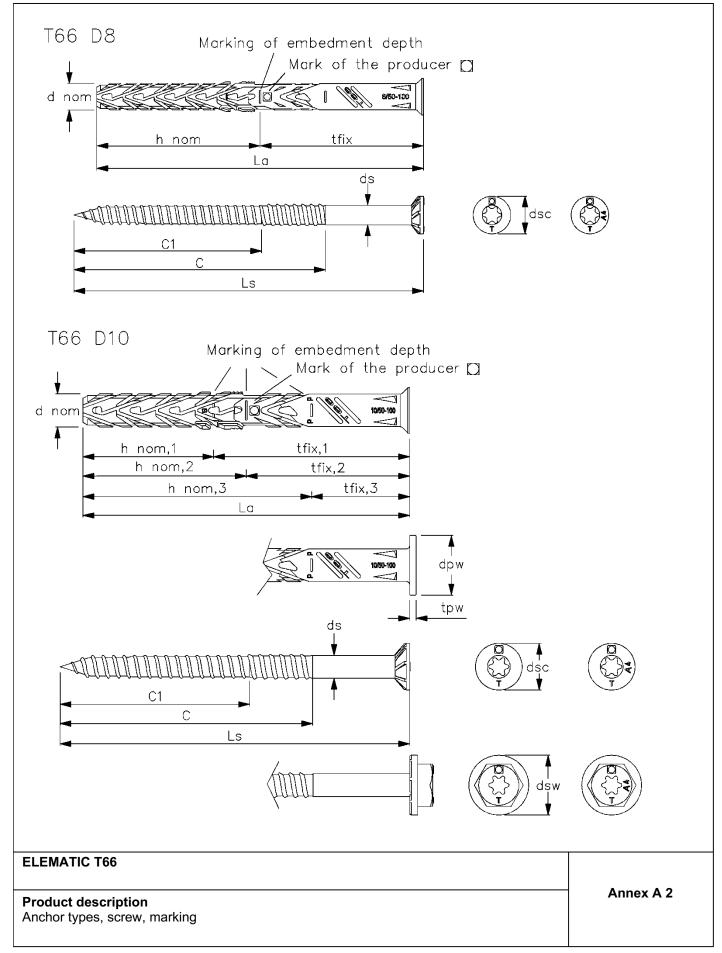
ELEMATIC T66

Product description
Installed condition

Annex A 1

= depth of drilled hole to deepest point







### Table A1: Dimensions [mm]

Anchor Sleeve			Special screw							
Anchor Type	d <sub>nom</sub>	h <sub>nom,1</sub>	h <sub>nom,2</sub>	h <sub>nom,3</sub>	min L <sub>a</sub>	max L <sub>a</sub>	$d_s$	C <sub>1</sub>	С	Ls
T66 8	8	-	50	-	60	150	6	57	77 <sup>1)</sup>	67-157
T66 10	10	40	50	70	60	300	7	57	77 <sup>1)</sup>	67-307

<sup>1)</sup> not valid for Ls = 67 mm

#### **Table A2: Materials**

Designation	Material
Anchor sleeve	polyamide, colour: grey
Special screw	steel, zinc coated (electro galvanized) $\geq$ 5 µm according EN ISO 4042:2022 $f_{yk} \geq$ 480 N/mm <sup>2</sup> ; $f_{uk} \geq$ 600 N/mm <sup>2</sup>
	stainless steel "A4" according to ISO 3506-1:2020 (material number 1.4401 / 1.4404 / 1.4571 / 1.4578 according to EN 10088-3:2014) of corrosion resistance class CRC III according to EN 1993-1-4:2006 + A1:2015 $f_{yk} \geq 600 \text{ N/mm}^2 \text{ ; } f_{uk} \geq 800 \text{ N/mm}^2$

ELEMATIC T66	
Product description	Annex A 3
Dimensions and materials	



#### Specifications of intended use

#### **Anchorages subject to:**

- Static and quasi-static loads
- Redundant non-structural systems

#### Base materials:

- Reinforced or unreinforced compacted normal weight concrete without fibres with strength classes ≥ C12/15 (base material group a) according to EN 206:2013 + A1:2016, Annex C 1.
- Solid brick masonry (base material group b) according to Annex C 2.
   Note: The characteristic resistance is also valid for larger brick sizes and higher compressive strength of the masonry unit.
- Hollow brick masonry (base material group c) according to Annex B 2, C 3, C 4 and C 5.
- Autoclaved aerated concrete (base material group d), according to Annex C 6.
- Mortar strength class of the masonry ≥ M2,5 according to EN 998-2:2016.
- For other base materials of the base material group a, b, c or d (only T66 Ø10) the characteristic resistance of the anchor may be determined by job site tests according to EOTA TR 051:2018-04.

#### 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: screw made of zinc coated steel or of stainless steel
- The specific screw made of galvanised steel may also be used in structures 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 to permanently damp internal condition, if no particular aggressive conditions exist (screw made of stainless steel of corrosion resistance class CRC III).
  - 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 to be designed in accordance with EOTA TR 064:2018-05 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.

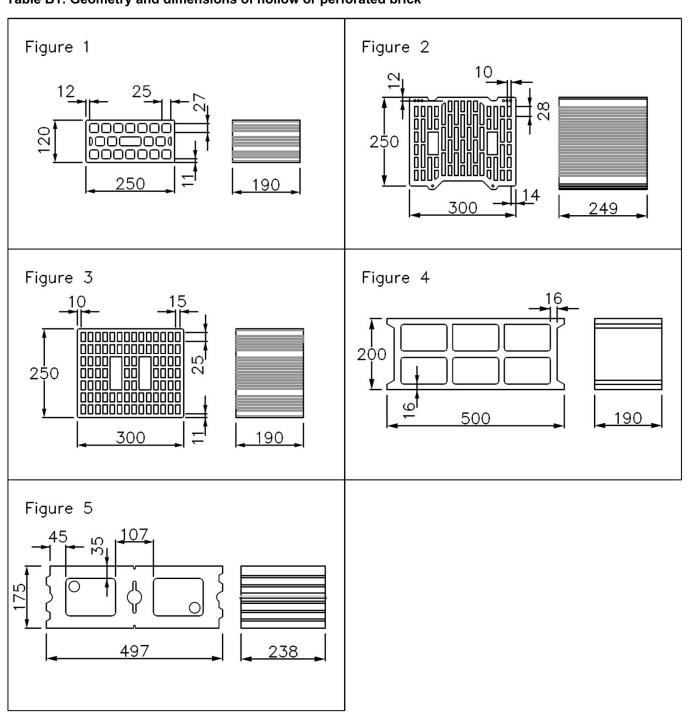
#### Installation:

- Hole drilling by the drill modes according to Annex C 1 C 8 for base material group 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 -5°C to + 40°C
- Exposure to UV due to solar radiation of the anchor not protected ≤ 6 weeks
- No ingress of water in the core hole < 0°C</li>

ELEMATIC T66	
Intended use Specifications	Annex B 1







ELEMATIC T66	
Intended use Geometry and dimensions of hollow or perforated brick	Annex B 2



**Table B2: Installation parameters** 

Anchor type				T66 8		T66 10	
Base material group				a,b,c	а	b	c <sup>1)</sup> ,d
Drilling hole diameter	$d_0$	[mm]	=	8		10	
Cutting diameter of drill bit	d <sub>cut</sub>	[mm]	≤	8,45		10,45	
Depth of drilled hole to deepest point h <sub>1,1</sub>	h <sub>1,1</sub>	[mm]	≥	-	50	_	-
Overall plastic anchor embedment depth in the base material $h_{\text{nom},1}$	h <sub>nom,1</sub>	[mm]	≥	-	40	_	-
Depth of drilled hole to deepest point h <sub>1,2</sub>	h <sub>1,2</sub>	[mm]	≥	60	60	60	60
Overall plastic anchor embedment depth in the base material h <sub>nom,2</sub>	h <sub>nom,2</sub>	[mm]	≥	50	50	50	50
Depth of drilled hole to deepest point h <sub>1,3</sub>	h <sub>1,3</sub>	[mm]	≥	-	ı	-	80
Overall plastic anchor embedment depth in the base material h <sub>nom,3</sub>	h <sub>nom,3</sub>	[mm]	2	-	-	_	70
Diameter of the clearance hole in the fixture	d <sub>f</sub>	[mm]	≤	8,5		10,5	

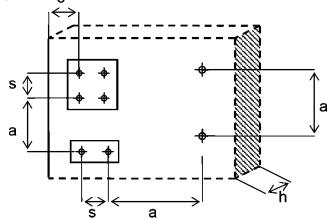
 $<sup>^{1)}</sup>$  For hollow / perforated masonry the influence of  $h_{nom}>50$  mm has to be detected by job side tests according to TR 051:2018-04

Table B3: Minimum thickness of member, edge distance and spacing in concrete

Anchor type		Minimum thickness of member	Characteristic edge distance	Characteristic spacing	Minimum spacing and edge distances
		h <sub>min</sub>	C <sub>cr,N</sub>	S <sub>cr,N</sub>	
		[mm]	[mm]	[mm]	[mm]
T66 8	concrete ≥C16/20		50	60	$s_{min}$ = 50 for $c_{min}$ = 50
(h <sub>nom</sub> =50 mm)	concrete C12/15		70	55	$s_{min}$ = 70 for $c_{min}$ = 70
T66 10	concrete ≥C16/20	100	80	65	$s_{min}$ = 60 for $c_{min}$ = 50
(h <sub>nom</sub> =40 mm)	concrete C12/15	100	110	60	$s_{min}$ = 85 for $c_{min}$ = 70
T66 10	concrete ≥C16/20		100	90	s <sub>min</sub> = 70 for c <sub>min</sub> = 60
(h <sub>nom</sub> =50 mm)	concrete C12/15		140	85	s <sub>min</sub> = 100 for c <sub>min</sub> = 85

Fixing points with a spacing  $a \le s_{cr,N}$  are considered as a group with a maximum characteristic resistance  $N_{Rk,p}$  according to Table C3. For a spacing  $a > s_{cr,N}$  the anchors are considered as single anchors, each with a characteristic resistance  $N_{Rk,p}$  according to Table C3.

Scheme of distances and spacings in concrete



ELEMATIC T66	
Intended use Installation parameters, edge distances and spacings for use in concrete	Annex B 3



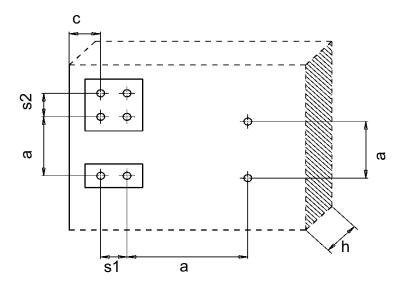
Table B4: Minimum distances and dimensions in masonry

Anchor type			T66 8	T66 10
Minimum thickness of member	h <sub>min</sub>	[mm]	110	110
Single anchor				
Minimum spacing	a <sub>min</sub>	[mm]	250	250
Minimum edge distance	C <sub>min</sub>	[mm]	100	100
Anchor group				
Minimum spacing perpendicular to free edge	S <sub>1,min</sub>	[mm]	200	200
Minimum spacing parallel to free edge	S <sub>2,min</sub>	[mm]	400	400
Minimum edge distance	C <sub>min</sub>	[mm]	100	100

Table B5: Minimum distances and dimensions in autoclaved aerated concrete

Anchor type			T66 10
Minimum thickness of member	$h_{min}$	[mm]	110
Single anchor			
Minimum spacing	$a_{min}$	[mm]	250
Minimum edge distance	C <sub>min</sub>	[mm]	100
Anchor group			
Minimum spacing perpendicular to free edge	S <sub>1,min</sub>	[mm]	200
Minimum spacing parallel to free edge	S <sub>2,min</sub>	[mm]	400
Minimum edge distance	C <sub>min</sub>	[mm]	100

Scheme of distances and spacings in masonry and autoclaved aerated concrete

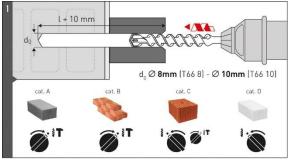


ELEMATIC T66	
Intended use Edge distances and spacings for use in masonry and autoclaved aerated concrete	Annex B 4



#### Installation instructions

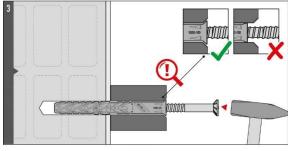
Example for T66 8 and T66 10 with  $h_{nom} = 50 \text{ mm}$ 



Drill the hole considering the drilling method.
 Holes to be cleaned of drilling dust.

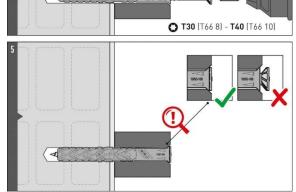


2) + 3) The plastic sleeve is inserted through the fixture by slight hammer blows.

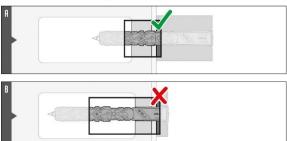


4) + 5) The special screw is screwed in until the head of the

screw touches the sleeve. The anchor is correct mounted, if there is no turn-through of the plastic sleeve in the drill hole and if slightly move on turning of the screw is impossible after the complete turn-in of the screw.



A) + B) Observation of the overall plastic anchor embedment depth.



**ELEMATIC T66** 

Intended use

Installation instructions

Annex B 5



#### Table C1: Characteristic bending resistance of the screw

Anchor type		T66	8	T66 10		
		galvanised steel	stainless steel galvanised steel stainles		stainless steel	
Characteristic bending resistance	M <sub>Rk,s</sub> [Nm]	11,13	14,84	16,85	22,46	

#### Table C2: Characteristic resistance of the screw

Failure of expansion element (special screw)		T66	8	T66 10		
		galvanised steel	stainless steel	galvanised steel	stainless steel	
Characteristic tension resistance	N <sub>Rk,s</sub> [kN]	13,74	18,32	18,11	24,15	
Characteristic shear resistance	V <sub>Rk,s</sub> [kN]	6,87	9,16	9,06	12,08	

#### Table C3: Characteristic resistance for use in concrete (hammer drilling)

Pull-out failure (plastic sleeve)		T66 8		T66 10		T66 10	
		h <sub>nom</sub> = 50 mm		h <sub>nom,1</sub> = 40 mm		h <sub>nom,2</sub> = 50 mm	
Temperature range		30/50°C	50/80°C	30/50°C	50/80°C	30/50°C	50/80°C
Concrete C12/15							
Characteristic tension resistance	N <sub>Rk,p</sub> [kN]	2,0	2,0	2,5	2,0	4,0	3,0
Concrete ≥ C20/25							
Characteristic tension resistance	N <sub>Rk,p</sub> [kN]	3,0	2,5	3,5	3,0	5,5	4,0

Table C4: Values under fire exposure in concrete C20/25 to C50/60 in any load direction, no permanent centric tension load and without lever arm, fastening of facade systems

Anchor type	Fire resistance class	F <sub>Rk,fi,90</sub>	γ <sub>M,fi</sub> 1)
T66 10 with h <sub>nom,2</sub> = 50 mm	R 90	0,8 kN	1,0

<sup>1)</sup> In absence of other national regulations.

#### Table C5: Displacements under tension and shear loading in concrete and masonry

Anchor type		Tension load			Shear load			
	h <sub>nom</sub>	F	$\delta_{N0}$	$\delta_{N^\infty}$	F	$\delta_{V0}$	$\delta_{V^{\infty}}$	
	[mm]	[kN]	[mm]	[mm]	[kN]	[mm]	[mm]	
concrete								
T66 8	50	1,0	0,14	0,14	1,7	0,94	1,41	
T66 10	40	1,2	0,21	0,07	2,0	0,55	0,83	
T66 10	50	2,2	0,12	0,19	3,1	1,08	1,62	
solid masonry								
T66 8	50	1,0	0,12	0,24	1,0	0,83	1,25	
T66 10	50	1,0	0,39	0,77	1,0	0,83	1,25	
hollow or perforated masoni	hollow or perforated masonry							
T66 8	50	0,26	0,57	1,14	0,34	0,29	0,43	
T66 10	50	0,34	0,55	1,10	0,34	0,29	0,43	
T66 10	70	0,26	0,09	0,18	0,34	0,29	0,43	

ELEMATIC T66	
Performances Characteristic resistance of the screw, characteristic resistance for use in concrete, values under fire exposure, displacements in concrete and masonry	Annex C 1



Table C6: T66 8 - characteristic resistance  $F_{Rk}$  in [kN] in solid masonry (base material group "b")

Base Material [Supplier / Title]	minimum size (L x W x H)	Bulk density ρ	Mean compressive strength according EN 771	Drill method	Thickness of the wall h	resista	cteristic nce F <sub>Rk</sub> 50 mm		
	[mm]	[kg/dm³]	[N/mm²]		[mm]	30/50°C	50/80°C		
Clay brick			20		110	3,0	3,0		
according to	007 440 54	> 4.0	20		240	3,5	3,5		
EN 771-1:2011+A1:2015 e.g. Danesi	237X110X34	237x110x54	≥ 1,0 	≥ 1,6	10	hammer	110	2,0	2,0
HD brick			10		240	2,5	2,5		
Clay brick			20		110	3,0	3,0		
according to	040-445-74	> 1.0	20	h	240	3,5	3,5		
EN 771-1:2011+A1:2015 e.g. Wienerberger	240x115x71	≥ 1,8		hammer	110	2,0	2,0		
Poroton MZ-NF			10		240	2,5	2,5		

### Table C7: T66 10 - characteristic resistance F<sub>Rk</sub> in [kN] in solid masonry (base material group "b")

Base Material [Supplier / Title]	minimum size (L x W x H)	Bulk density ρ	Mean compressive strength according EN 771	Drill method	Thickness of the wall h	resistai h <sub>nom</sub> =											
	[mm]	[kg/dm³]	[N/mm²]		[mm]	30/50°C	50/80°C										
Clay brick			20		110	3,0	3,0										
according to EN 771-1:2011+A1:2015	237x110x54	≥ 1,6	20	hammer	240	3,5	3,5										
e.g. Danesi	2373110334	2 1,0	1,0	2 1,0	2 1,0	_ 1,0	_ 1,0	<u> </u>	_ 1,0 	_ 1,0	_ 1,0	_ 1,0			110	2,0	2,0
HD brick			10	10		2,5	2,5										
Clay brick			20		110	3,0	3,0										
according to	240v115v71	<b>\</b> 10	20	hammar	240	3,5	3,5										
EN 771-1:2011+A1:2015 e.g. Wienerberger	240x115x71	≥ 1,8	10	hammer	110	2,0	2,0										
Poroton MZ-NF			10		240	2,5	2,5										

ELEMATIC T66	
Performances Characteristic resistance for use in solid masonry	Annex C 2



Table C8: T66 8 - characteristic resistance  $F_{Rk}$  in [kN] in hollow or perforated masonry (base material group "c" ) with  $h_{nom,2}$  = 50 mm

Base Material	minimum size	Bulk	Mean	Drill	Charact	teristic
[Supplier / Title]	(L x W x H)	density	compressive strength	method	resistan	ce F <sub>Rk</sub>
			according		h <sub>nom.2</sub> = :	50 mm
		ρ	EN 771			
	[mm]	[kg/dm³]	[N/mm²]		30/50°C	50/80°C
Vertically perforated						
clay brick						
EN 771-1:2011+A1:2015	250x120x190	≥ 0,9	20	rotary	1,5	0,9
e.g. Dosson Doppio Uni						
see Annex B 2; Figure 1						
Vertically perforated						
clay brick						
EN 771-1:2011+A1:2015	300x250x249	≥ 0,8	12	rotary	2,0	1,5
e.g. Wienerberger						
Porotherm Bioplan						
see Annex B 2; Figure 2 Vertically perforated						
clay brick						
EN 771-1:2011+A1:2015	300x250x190	≥ 0,8	12	rotary	1,2	0,9
e.g. Dosson Alveolater	000/1200/100	_ 5,5		, otally	.,_	,,,
see Annex B 2; Figure 3						
Concrete						
hollow block						
EN 771-3:2011+A1:2015	500x200x190	≥ 0,9	4	rotary	1,5	0,9
e.g. Fabemi Creux B40						
see Annex B 2; Figure 4						
Concrete						
hollow block			_			
EN 771-3:2011+A1:2015	497x238x175	≥ 1,0	5	rotary	1,5	1,2
e.g. KLB Plan Hohlblock						
see Annex B 2; Figure 5						

ELEMATIC T66	
Performances Characteristic resistance for use in hollow or perforated masonry	Annex C 3



Table C9: T66 10 - characteristic resistance  $F_{Rk}$  in [kN] in hollow or perforated masonry (base material group "c") with  $h_{nom,2}$  = 50 mm

Base Material	minimum size	Bulk	Mean	Drill			
[Supplier / Title]	$(L \times W \times H)$	density	compressive strength	method			
			according		h <sub>nom,2</sub> =	<sub>om,2</sub> = 50 mm	
		ρ	EN 771				
	[mm]	[kg/dm³]	[N/mm <sup>2</sup> ]		30/50°C	50/80°C	
Vertically perforated clay brick EN 771-1:2011+A1:2015 e.g. Dosson Doppio Uni see Annex B 2; Figure 1	250x120x190	≥ 0,9	20	rotary	1,5	1,2	
Vertically perforated clay brick EN 771-1:2011+A1:2015 e.g. Wienerberger Porotherm Bioplan see Annex B 2; Figure 2	300x250x249	≥ 0,8	12	rotary	2,0	1,5	
Vertically perforated clay brick EN 771-1:2011+A1:2015 e.g. Dosson Alveolater see Annex B 2; Figure 3	300x250x190	≥ 0,8	12	rotary	1,2	0,9	
Concrete hollow block EN 771-3:2011+A1:2015 e.g. Fabemi Creux B40 see Annex B 2; Figure 4	500x200x190	≥ 0,9	4	rotary	1,2	0,9	
Concrete hollow block EN 771-3:2011+A1:2015 e.g. KLB Plan Hohlblock see Annex B 2; Figure 5	497x238x175	≥ 1,0	5	rotary	1,5	1,2	

Table C10: T66 10 - characteristic resistance  $F_{Rk}$  in [kN] in hollow or perforated masonry (base material group "c") with  $h_{nom,3}$  = 70 mm

Base Material	minimum size	Bulk	Mean	Drill	Charac	teristic
[Supplier / Title]	(L x W x H)	density	compressive strength	method	resistance	e F <sub>Rk</sub> [kN]
		ρ	according EN 771		nom,3 –	70111111
	[mm]	[kg/dm³]	[N/mm <sup>2</sup> ]		30/50°C	50/80°C
Vertically perforated						
clay brick						
EN 771-1:2011+A1:2015	300x250x190	≥ 0,8	12	rotary	1,2	0,9
e.g. Dosson Alveolater						
see Annex B 2; Figure 3						

ELEMATIC T66	
Performances	Annex C 4
Characteristic resistance for use in hollow or perforated masonry	



Table C11: T66 10 characteristic resistance F<sub>Rk</sub> in [kN] in unreinforced autoclaved aerated concrete (base material group "d")

Base material	Bulk	Mean	Drill	Characteristic		Characteristic	
	density	compressive	method	resistance		resistance	
		strength according to EN 771-4:2011		F <sub>Rk</sub> [kN] T66 10 h <sub>nom.2</sub> = 50 mm		F <sub>Rk</sub> [kN] T66 10	
	ρ	+A1:2015				h - 70 mm	
		f <sub>cm,decl</sub>				h <sub>nom,3</sub> = 70 mm	
	[kg/m³]	[N/mm <sup>2</sup> ]		30/50°C	50/80°C	30/50°C	50/80°C
Low strength autoclaved aerated concrete e.g. YTONG "clima" block EN 771-4:2011+A1:2015 minimum size [cm] 62,5x25x24	≥ 350	2	rotary	0,6	0,3	0,6	0,5
High strength autoclaved aerated concrete e.g. YTONG "sismico" block EN 771-4:2011+A1:2015 minimum size [cm] 62,5x25x24	≥ 500	4	rotary	1,5	1,2	2,0	1,5

Table C12: Displacements under tension and shear loading in unreinforced autoclaved aerated concrete (base material group "d")

Anchor type	Tension load			Shear load			
T66 10	F	$\delta_{N0}$	δ <sub>N∞</sub>	F	$\delta_{V0}$	δγ∞	
	[kN]	[mm]	[mm]	[kN]	[mm]	[mm]	
Low strength autoclaved aerated concrete e.g. YTONG "clima" block EN 771-4:2011+A1:2015 minimum size [cm] 62,5x25x24	0,2	0,08	0,16	0,2	0,43	0,64	
High strength autoclaved aerated concrete e.g. YTONG "sismico" block EN 771-4:2011+A1:2015 minimum size [cm] 62,5x25x24	0,5	0,46	0,92	0,5	1,43	2,14	

ELEMATIC T66	
Performances Characteristic resistance and displacements for use in autoclaved aerated concrete	Annex C 5