Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022)

UK Technical Assessment	UKTA-0836-25/7375 of 19/05/2025
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	WKTHERMø8
Product family to which the construction product belongs:	Product Area Code 33 Nailed-in plastic anchors for fixing of external thermal insulation composite systems with rendering in concrete and masonry
Manufacturer:	KLIMAS Sp. z o.o. ul. Wincentego Witosa 135/137 Kuźnica Kiedrzyńska PL 42-233 Mykanów Poland
Manufacturing plant(s):	Plant 1, Poland Plant 2, Poland
This UK Technical Assessment contains:	17 pages including 3 Annexes which form an integral part of this Assessment
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) on the basis of:	UKTA 330196-01-0604 “Plastic anchors made of virgin or non-virgin material for fixing of external thermal insulation composite systems with rendering”

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1. Technical description of the product

The WKTHERMø8 nailed-in plastic anchor consists of an anchor sleeve with a plate made of virgin polyethylene and an accompanying specific steel nail as an expansion pin made of galvanized steel with a head covered by polyamide as a plastic coat.

The WKTHERMø8 anchors may in addition be combined with anchor plates TDX-90, TDX-P-90, TDX-140 or TDX-P-140.

The description of the products is given in Annex A.

2. Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

The performances given in Annex C are only valid if the anchor is used in compliance with the specifications and conditions given in Annex B.

The provisions made in this UK Technical Assessment are based on an assumed working life of the anchor of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or BBA, 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)

Not relevant.

3.2. Safety in case of fire (BWR 2)

Not relevant.

3.3. Health, hygiene and the environment (BWR 3)

Not relevant.

3.4. Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Characteristic resistance under tension load	Annex C1
Edge distances and spacings	Annex B2
Plate stiffness	Annex C2
Displacements	Annex C3

3.5. Protection against noise (BWR 5)

Not relevant.

3.6. Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Point thermal transmittance	Annex C2

3.7. Sustainable use of natural resources (BWR 7)

No performance assessed.

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied

4.1. System of assessment and verification of constancy of performance

According to UKAD No. 330196-01-0604 and Annex V of the Construction Products (Amendment etc.) (EU Exit) Regulations 2020 (as amended 2022) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 2+ applies.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

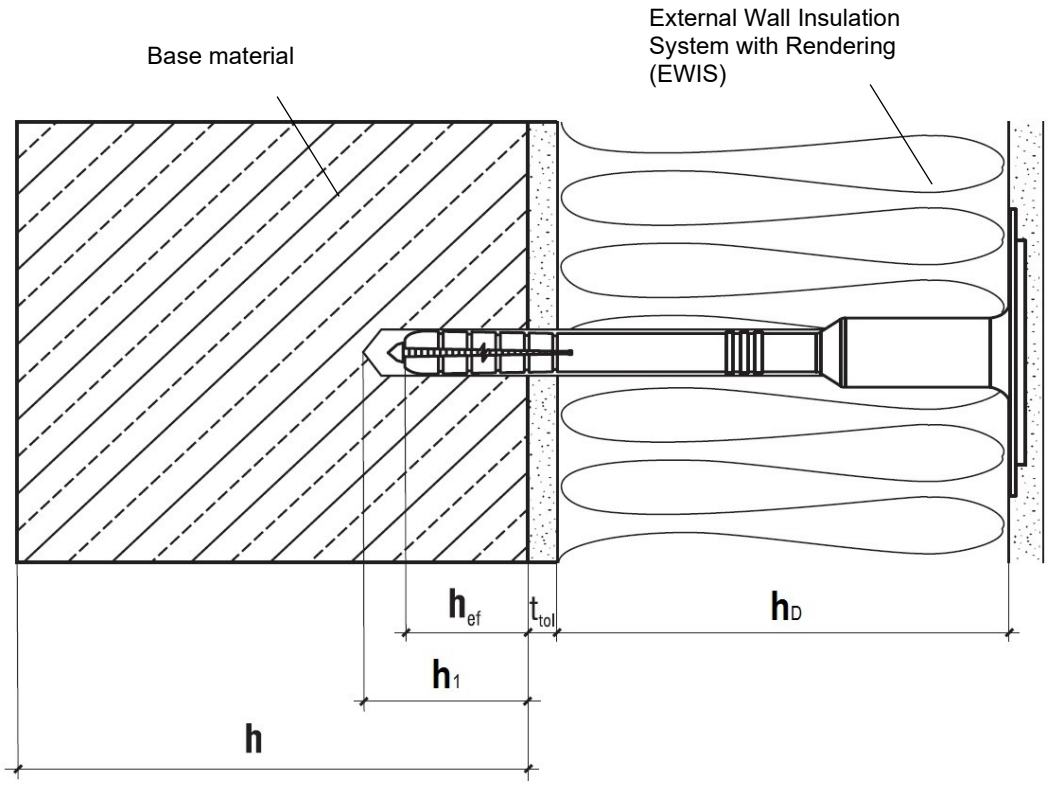
5.1. UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/ registered address of the manufacturer of the product/ system
- Marking including date of Marking and the intended use as stated in the Designated technical specification
- Unique identification code of the product type
- The reference number of the Declaration of Performance
- The level or class of the performance declared
- The reference to the Designated technical specification applied
- UKTA number.

On behalf of the British Board of Agrément 	
Date of Issue: 19 May 2025	**Hardy Giesler** Chief Executive Officer

British Board of Agrément,
1st Floor Building 3,
Hatters Lane,
Croxley Park
Watford
WD18 8YG

ANNEX A1
Product description / Installation conditions



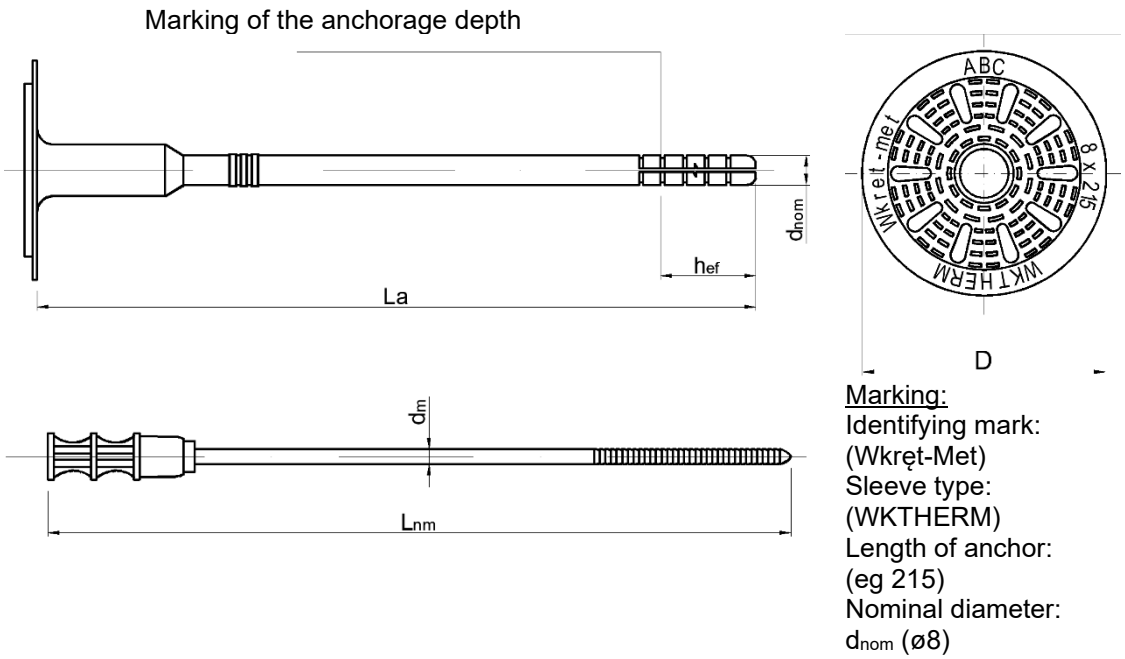
Intended Use:

Fixing of external wall insulation systems in concrete and masonry.

Caption:

h_{ef} = effective anchorage depth
h_1 = depth of drill hole in base material
h = thickness of base material
h_D = thickness of insulation material
t_{tol} = thickness of equalizing and/or non-load-bearing layer

ANNEX A2
Product description / Marking of the anchor sleeve and expansion element of the WKTHERMø8 anchors



Marking:
Identifying mark:
(Wkręt-Met)
Sleeve type:
(WKTHERM)
Length of anchor:
(eg 215)
Nominal diameter:
d_{nom} (ø8)

Table A1: WKTHERMØ8 anchor types and dimensions [mm]

Anchor type	Anchor sleeve				Expansion pin	
	d_{nom}	L_a	D	h_{ef}	d_m	L_{nm}
WKTHERMø8 x 95	8	95	60	25	4.35	105
WKTHERMø8 x 115	8	115	60	25	4.35	125
WKTHERMø8 x 135	8	135	60	25	4.35	145
WKTHERMø8 x 155	8	155	60	25	4.35	165
WKTHERMø8 x 175	8	175	60	25	4.35	185
WKTHERMø8 x 195	8	195	60	25	4.35	205
WKTHERMø8 x 215	8	215	60	25	4.35	225
WKTHERMø8 x 235	8	235	60	25	4.35	245
WKTHERMø8 x 255	8	255	60	25	4.35	265
WKTHERMø8 x 275	8	275	60	25	4.35	285
WKTHERMø8 x 295	8	295	60	25	4.35	305
WKTHERMø8 x 315	8	315	60	25	4.35	325
WKTHERMø8 x 335	8	335	60	25	4.35	345
WKTHERMø8 x 355	8	355	60	25	4.35	365

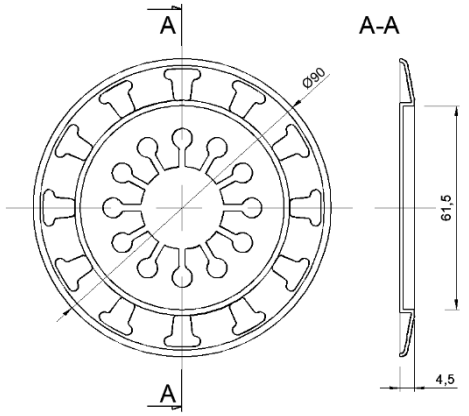
Determination of maximum thickness of insulation material: $h_d = L_a - t_{tol} - h_{ef}$

ANNEX A3
Product description / Materials

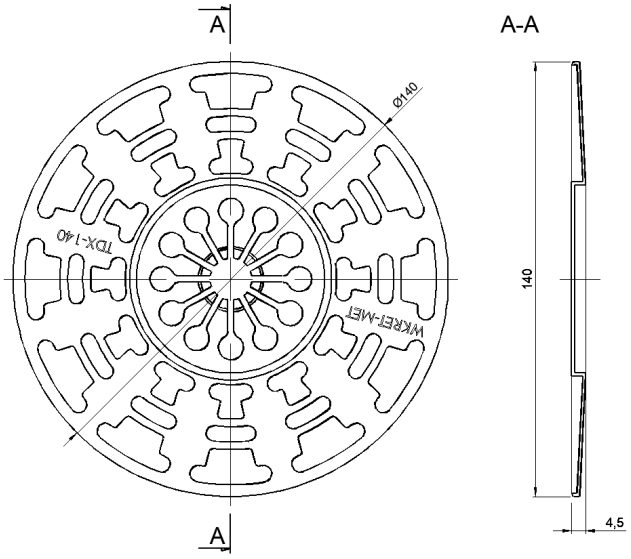
Table A2: Materials

Designation	Material
Anchor sleeve	Virgin plastic: polyethylene, natural or grey
Expansion pin made of steel	Steel with zinc coating ≥ 5 µm, with head covered by polyamide PA6 (natural or grey)

ANNEX A4
Product description / Additional plates TDX-90, TDX-P-90, TDX-140 and TDX-P-140



TDX-90 and TDX-P-90



TDX-140 and TDX-P-140

Table A3: Additional plates TDX-90, TDX-P-90, TDX 140 and TDX-P-140

Plate type	Outer diameter [mm]	Material
TDX-90	90	Polyamide+GF (natural or grey)
TDX-P-90	90	Polyethylene (natural or grey)
TDX-140	140	Polyamide+GF (natural or grey)
TDX-P-140	140	Polyethylene (natural or grey)

ANNEX B1
Intended use / Specifications

Anchorages subject to:

- Wind suction loads.

Note: The anchor must not be used for the transmission of dead loads of the external wall insulation system (EWIS).

Base materials:

- Normal weight concrete (base material group A), according to Annex C1
- Solid masonry (base material group B), according to Annex C1
- Hollow or perforated masonry (base material group C), according to Annex C1
- For other base materials of the base material groups A, B, C, D or E the characteristic resistance of the anchor may be determined by job site tests according to EOTA Technical Report TR 051, edition December 2016.

Temperature range:

- 0°C to +40°C (max. short term temperature +40°C and max. long term temperature +24°C).

Design:

- The anchorages are designed under the responsibility of an engineer experienced in anchorages and masonry work with the partial safety factors g_M = 2.0 and g_F = 1.5, if there are no other national regulations
- Verifiable calculation notes and drawings with anchor positions are prepared taking into account of the loads to be anchored
- Fasteners are only to be used for multiple fixings of external wall insulation system (EWIS), according to UKAD 330196-01-0604.

Installation:

- Holes must be drilled by the drill modes according to Annex C1
- Anchor installation must be carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters of the site
- Installation must be executed in temperature from 0°C to +40°C
- Exposure to UV due to solar radiation of the anchor not protected by rendering by the mortar must not exceed ≤ 6 weeks.

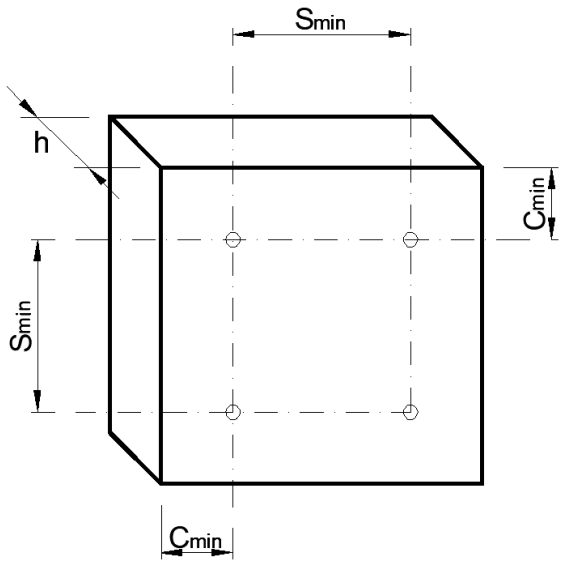
ANNEX B2
Intended use / Installation characteristics, minimum thickness of base material, edge distance and spacing

Table B1: Installation characteristics

Anchor type		**WKTHERMØ8**
Base material group		A, B, C
Nominal diameter of drill bit	d_o [mm]	8.00
Cutting diameter of drill bit	d_{cut} [mm]	8.45
Depth of drill hole	h_1 [mm]	35
Effective anchorage depth	h_{ef} [mm]	25

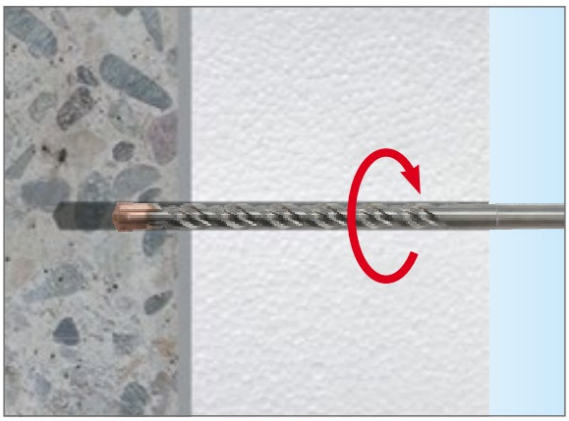
Table B2: Minimum thickness of base material, spacing and edge distance

Anchor type		**WKTHERMØ8**
Minimum thickness of base material	h [mm]	100
Minimum spacing	s_{min} [mm]	100
Minimum edge distance	c_{min} [mm]	100

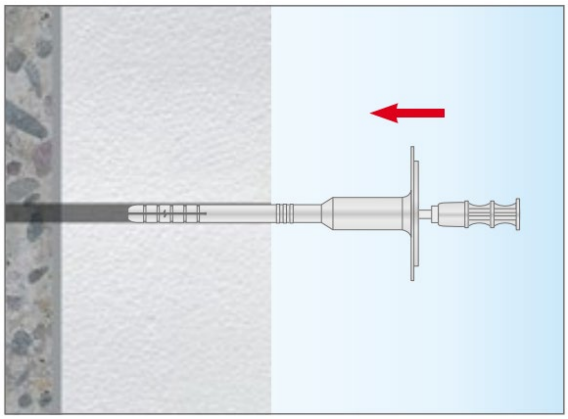


ANNEX B3
Intended use / Installation instruction of WKTHERMØ8

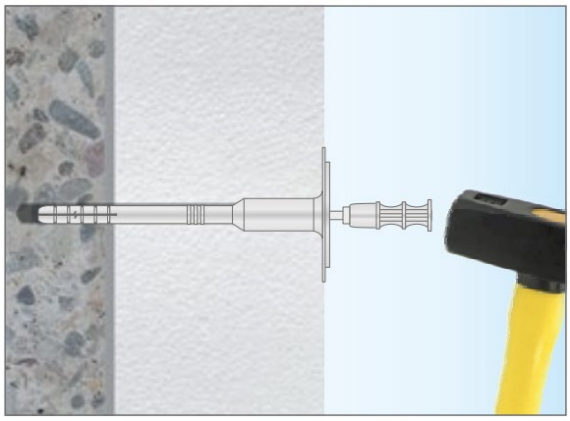
Table B3: Installation instruction of WKTHERMØ8



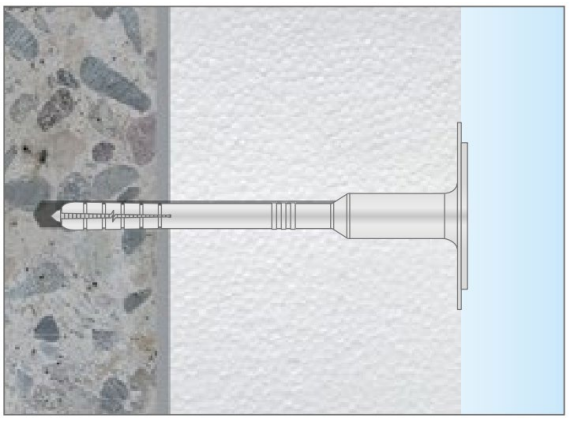
1. Drill hole by corresponding drilling method



2. Set-in anchor manually



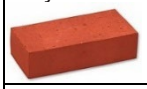
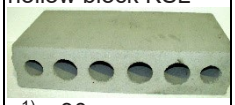
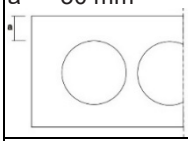
3. Set anchor by hammer blows



4. Correctly installed anchor

ANNEX C1
Performances / Characteristic resistance

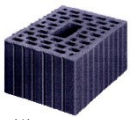
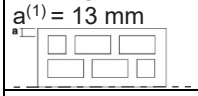
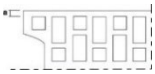
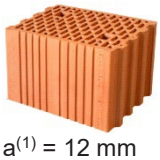
Table C1.1: Characteristic resistance under tension loads N_{Rk} in concrete and in masonry for single anchor

Base material group	Base material	Bulk density [kg.dm^{-3}]	Compressive strength [N.mm^{-2}]	Referring standard	N_{Rk} [kN]	Drill method
A	Concrete C12/15			EN 206-1	1.20	hammer
	Concrete C16/20 – C50/60			EN 206-1	1.50	
B	Clay brick MZ 	≥ 1.70	≥ 30.0	EN 771-1	1.50	hammer
	Calcium silicate brick KS 	≥ 2.00	≥ 20.0	EN 771-2	1.50	hammer
C	Calcium silicate hollow block KSL  a[1] = 30 mm 	≥ 1.60	≥ 12.0	EN 771-2	1.20	hammer
	Vertically perforated clay bricks[2]  a[1] = 13 mm 	≥ 0.95	≥ 12.0	EN 771-1	0.60	rotary

(1) Minimum values “a”. For elements with lower value of “a” the load tests on the construction are required
(2) For example Hlz B – 1.0 1NF 12-1 according to DIN 105

ANNEX C1
Performances / Characteristic resistance (continue)

Table C1.2: Characteristic resistance under tension loads N_{Rk} in concrete and in masonry for single anchor

Base material group	Base material	Bulk density [kg.dm^{-3}]	Compressive strength [N.mm^{-2}]	Referring standard	N_{Rk} [kN]	Drill method
C	Vertically perforated clay bricks(2)  a(1) = 13 mm 	≥ 0.95	≥ 12.0	EN 771-1	0.60	rotary
	Vertically perforated porosited block(3)  a(1) = 10 mm 	≥ 0.80	≥ 15.0	EN 771-1	0.60	rotary
	Vertically perforated clay bricks(4)  a(1) = 12 mm 	≥ 0.80	≥ 15.0	EN 771-1	0.60	rotary
Partial safety factor for anchor resistance, γ_M (5)		2.0				

(1) Minimum values “a”. For elements with lower value of “a” the load tests on the construction are required
(2) For example HLz B – 1.0 3NF 12-1 according to DIN 105
(3) For example Porotherm 25 P+W
(4) For example MEGA-MAX 250
(5) Valid in absence of national regulations

ANNEX C2
Performances / Point thermal transmittance and plate stiffness

Table C2.1: Point thermal transmittance according to EOTA Technical Report TR 025

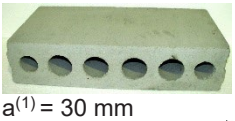
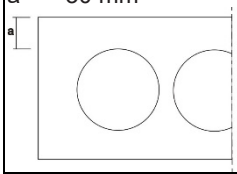
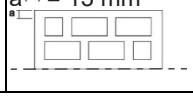
Anchor type	Insulation thickness H_D [mm]	Point thermal transmittance χ [$W.K^{-1}$]
WKTHERMø8	60 to 320	0.002

Table C2.2: Plate stiffness according to EOTA Technical Report TR 026

Anchor type	Diameter of the anchor plate d_{plate} [mm]	Load resistance of the anchor plate $N_{u,m}$ [kN]	Plate stiffness $N_{0,m}$ [$kN.mm^{-1}$]
WKTHERMØ8	60	4.3	0.6

ANNEX C3
Performances / Displacements

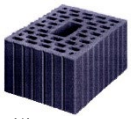
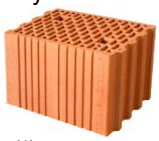
Table C3.1: Displacements

Base material group	Base material	Bulk density [kg.dm^{-3}]	Compressive strength [N.mm^{-2}]	$\frac{N_{Rk}}{3}$ [kN]	$\delta\left(\frac{N_{Rk}}{3}\right)$ [mm]
A	Concrete C12/15	–	–	0.4	0.80
	Concrete C16/20 – C50/60	–	–	0.5	0.85
B	Clay brick MZ 	≥ 1.70	≥ 30.0	0.4	1.00
	Calcium silicate brick KS 	≥ 2.00	≥ 20.0	0.5	0.98
C	Calcium silicate hollow block KSL  a[(1)] = 30 mm 	≥ 1.60	≥ 12.0	0.40	0.90
	Verticaly perforated clay bricks[(2)]  a[(1)] = 13 mm 	≥ 0.95	≥ 12.0	0.20	0.61

(1) Minimum values “a”. For elements with lower value of “a” the load tests on the construction are required
(2) For example Hlz B – 1.0 1NF 12-1 according to DIN 105

ANNEX C3
Performances / Displacements (continue)

Table C3.2: Displacements

Base material group	Base material	Bulk density [kg.dm^{-3}]	Compressive strength [N.mm^{-2}]	$\frac{N_{Rk}}{3}$ [kN]	$\delta\left(\frac{N_{Rk}}{3}\right)$ [mm]
C	Vertically perforated clay bricks(2)  a(1) = 13 mm 	≥ 0.95	≥ 12.0	0.20	0.62
	Vertically perforated porosited block(3)  a(1) = 10 mm 	≥ 0.80	≥ 15.0	0.20	0.46
	Vertically perforated clay bricks(4)  a(1) = 12 mm 	≥ 0.80	≥ 15.0	0.20	0.61

(1) Minimum values “a”. For elements with lower value of “a” the load tests on the construction are required
(2) For example HLz B – 1.0 3NF 12-1 according to DIN 105
(3) For example Porotherm 25 P+W
(4) For example MEGA-MAX 250

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1st Floor Building 3,
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