

YTELSESERKLÆRING

DoP-200335-HL [NO]

Lettbetongskrue HL, senkhode, CorrSeal C4

Lettbetongskrue HL WAF, CorrSeal C4

TILSIKTET BRUK

Enkeltankere eller ankergrupper for bærende anvendelser under statiske eller kvasi-statiske laster i massive blokker av autoklavert lettbetong (AAC) eller massive blokker av lettklinkerbetong (LAC), forutsatt at underlaget oppfyller minst den størrelse og trykkfasthet som er spesifisert i ETA-20/0335 (versjon 2026-02-05), basert på EAD 330424-00-0604 (desember 2017).

PRODUSENT

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SYSTEM FOR VURDERING OG VERIFISERING AV BYGGEVARENS YTELSE (AVCP)

1

MELDT ORGAN

ETA-DANMARK A/S (TAB), 1488 (FPC),

YTELSESERKLÆRING

DoP-200335-HL [NO]

Lettbetongskrue HL, senkhode, CorrSeal C4

Geometri			
Utvendig diameter	Lengde	Diameter hode	Gjengelengde
8 mm	180 mm	12 mm	100 mm
8 mm	200 mm	12 mm	100 mm
8 mm	240 mm	12 mm	100 mm
8 mm	310 mm	12 mm	100 mm

Lettbetongskrue HL, senkhode, CorrSeal C4

Angitt ytelse		
Vesentlige egenskaper	Ytelse	Harmonisert teknisk spesifikasjon
Diameter	8 mm	
Karakteristisk bæreevne i alle lasteretninger	N_{Rk}, V_{Rk} [kN]	ETA-20/0335 Annex C2 – Annex C5
Motstand mot stålbrudd under skjærbelastning med momentarm	$M_{Rk,s}$ [Nm]	ETA-20/0335 Annex C1
Minimum kantavstand og innbyrdes avstand	c_{min}, s_{min} [mm]	ETA-20/0335 Annex B2
Karakteristisk kantavstand og innbyrdes avstand	c_{cr}, s_{cr} [mm]	ETA-20/0335 Annex B2, C3, C5
Minimum tykkelse på elementer av lettbetong (AAC) eller lettklinkerbetong (LAC)	h_{min} [mm]	ETA-20/0335 Annex B2
Forskyvning av skruer ved bruksgrensetilstand	$\delta_{gr}, \delta_{\infty}$ [mm]	ETA-20/0335 Annex C3, Annex C5, Annex C7
Reaksjon på brann	Class A1	ETA-20/0335
Bestandighet mot korrosjon	ETA-20/0335 Annex B1	ETA-20/0335 Annex B1

Lettbetongskrue HL, senkhode, CorrSeal C4

Entydig identifikasjonskode for produkttypen			
Art.nr.	NOBB-nr	GTIN	Beskrivelse
105315	42060983	7317761043195	Lettbetongskrue senkhode 8X180 CorrSeal C4 -50
105317	42060998	7317761043201	Lettbetongskrue senkhode 8X200 CorrSeal C4 -50
105320	44912681	7317761045090	Lettbetongskrue senkhode 8X240 CorrSeal C4 -50
105322		7317761975809	LIGHTWEIGHT CONCRETE SCREW HL-C CSK. 8X310 CORRSEAL 50PCS

YTELSESERKLÆRING

DoP-200335-HL [NO]

Lettbetongskruer HL WAF, CorrSeal C4

Geometri			
Utvendig diameter	Lengde	Diameter hode	Gjengelengde
10,5 mm	185 mm	21,5 mm	160 mm
10,5 mm	210 mm	21,5 mm	160 mm

Lettbetongskruer HL WAF, CorrSeal C4

Angitt ytelse		
Vesentlige egenskaper	Ytelse	Harmonisert teknisk spesifikasjon
Diameter	10,5 mm	
Karakteristisk bæreevne i alle lasteretninger	N_{Rk}, V_{Rk} [kN]	ETA-20/0335 Annex C2 – Annex C7
Motstand mot stålbrudd under skjærbelastning med momentarm	$M_{Rk,S}$ [Nm]	ETA-20/0335 Annex C1
Minimum kantavstand og innbyrdes avstand	c_{min}, s_{min} [mm]	ETA-20/0335 Annex B2
Karakteristisk kantavstand og innbyrdes avstand	c_{cr}, s_{cr} [mm]	ETA-20/0335 Annex B2, C3, C5, C7
Minimum tykkelse på elementer av lettbetong (AAC) eller lettklinkerbetong (LAC)	h_{min} [mm]	ETA-20/0335 Annex B2
Forskyvning av skruer ved bruksgrensetilstand	$\delta_{gr}, \delta_{\infty}$ [mm]	ETA-20/0335 Annex C3, Annex C5, Annex C7
Reaksjon på brann	Class A1	ETA-20/0335
Bestandighet mot korrosjon	ETA-20/0335 Annex B1	ETA-20/0335 Annex B1

Lettbetongskruer HL WAF, CorrSeal C4

Entydig identifikasjonskode for produkttypen			
Art.nr.	NOBB-nr	GTIN	Beskrivelse
105323	45224355	7317761046714	Lettbetongskruer WAF hode 10X185 CorrSeal C4 -30
9105323	46006724	7317761050551	Lettbetongskruer WAF hode 10X185 CorrSeal C4 -300
105324	45224366	7317761046813	Lettbetongskruer WAF hode 10X210 CorrSeal C4 -30
9105324	46007598	7317761049067	Lettbetongskruer WAF hode 10X210 CorrSeal C4 -300

YTELSESERKLÆRING

DoP-200335-HL [NO]

Den ovennevnte byggevarens ytelse er i samsvar med angitt ytelse. Denne ytelseserklæringen er utstedt i samsvar med forordning (EU) nr. 305/2011 på ovennevnte produsents eget ansvar.

Undertegnet, for og på vegne av produsenten, av:



Viktor Bukowski, Product manager, concrete & mass timber fasteners
Kista 2026-06-05



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Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Fax +45 72 24 59 04
Internet www.etadanmark.dk

Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-20/0335 of 2026/02/05

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

Lightweight concrete screw HL

Product family to which the above construction product belongs:

Screw anchor for autoclaved aerated concrete and lightweight aggregate concrete

Manufacturer:

ESSVE AB
P.O. Box 7091
SE-16440 Kista
Tel. +46 (0)8 623 61 00
Internet www.essve.se

Manufacturing plant:

ESSVE manufacturing plants

This European Technical Assessment contains:

18 pages including 13 annexes which form an integral part of the document

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of:

EAD 330424-00-0604; Screw anchor for autoclaved aerated concrete and lightweight aggregate concrete

This version replaces:

The ETA with the same number issued on 2025-04-04

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (except the confidential Annexes referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

ESSVE Lightweight concrete screw HL is a lightweight concrete screw made of galvanized steel. The anchor is screwed directly into the base material without pre-drilling.

An illustration of the product is given in Annex A.

The characteristic material values, dimensions and tolerances of the anchors not indicated in Annexes shall correspond to the respective values laid down in the technical documentation of this European Technical Assessment.

The anchors are intended to be used with embedment depth given in Annex B, Table B1. The intended use specifications of the product are detailed in the Annex B1.

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

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 provisions made in this European Technical Assessment are based on an assumed intended working life of the anchor of 50 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, 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 Characteristics of product

Mechanical resistance and stability (BWR 1):

The essential characteristics are detailed in the Annex from C1 to C7.

Safety in case of fire (BWR 2):

The screws are made from steel classified as **Euroclass A1** in accordance with the provisions of Commission Delegated Regulation 2016/364 and EC decision 96/603/EC, amended by EC Decision 2000/605/EC

3.2 Methods of assessment

The assessment of fitness of the anchor for the intended use in relation to the requirements for mechanical resistance and stability and safety in use in the sense of the Basic Works Requirements 1 has been made in accordance with EAD 330424-00-0604; Screw anchor for autoclaved aerated concrete and lightweight aggregate concrete.

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

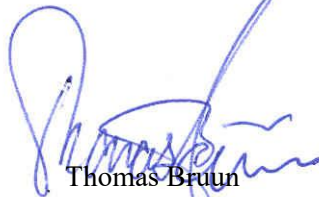
4.1 AVCP system

According to the decision 96/582/EC of the European Commission, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 1.

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

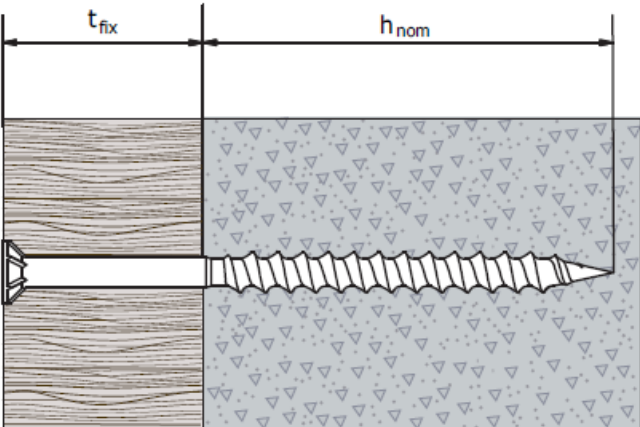
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2026-02-05 by

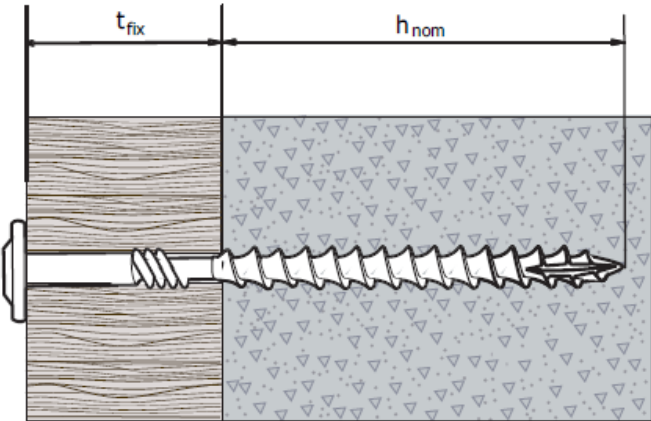


Thomas Bruun
Managing Director, ETA-Danmark

Lightweight concrete screw HL after installation



HL-C



HL-W

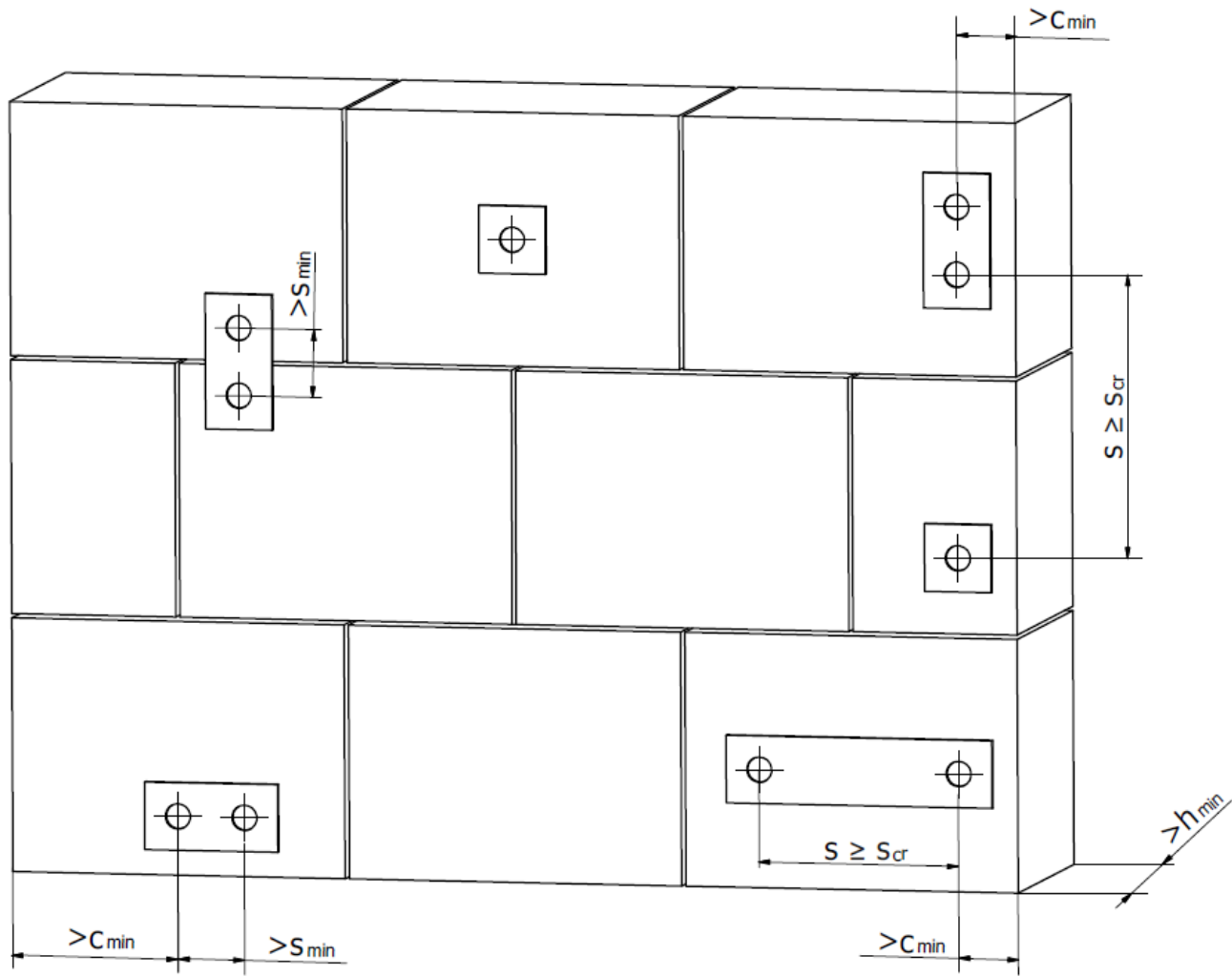
h_{nom} = Nominal embedment depth
 t_{fix} = Fixture thickness

Lightweight concrete screw HL

Product description
Installed condition

Annex A1
of European
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ETA-20/0335

Lightweight concrete screw HL after installation



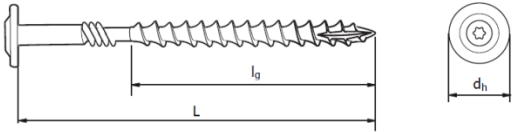
- h_{min} = Minimum thickness of member
- S_{min} = Minimum spacing
- S_{cr} = Spacing for ensuring transmission of the characteristic resistance of a single fastener
- C_{min} = Minimum edge distance

Lightweight concrete screw HL	Annex A2 of European Technical Assessment ETA-20/0335
Product description Installed condition	

Table A1: Materials and Types

Material		
Hardened carbon steel – zinc plated. Steel grade SAE 1022		
Type	Size	Design
HL-C	8	
HL-W	10	

Table A2: Anchor dimensions and head marking

Anchor size and type			HL-C 8	HL-W 10	Head Marking HL-C: HL-C HL-W: ESSVE 
Nominal diameter	d _{nom}	[mm]	8	10	
Length	L	[mm]	140-400	165-400	
Diameter of head	d _h	[mm]	12	21,5	
Thread length	L _g	[mm]	100	160	

Lightweight concrete screw HL

Product description
Materials, types and dimensions

Annex A2
of European
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Specifications of intended use

Anchorage subjected to:

- Static, quasi static load.

Base materials:

- Solid autoclaved aerated concrete AAC 2,5 to AAC 4 according to EN 771-4:2011+A1:2015.
- Solid lightweight aggregate concrete LAC 5 according to EN 771-3:2011+A1:2015.
- The characteristic resistance of the anchor is also valid for solid AAC / LAC bricks of larger sizes and/or higher compressive strength than those given in this ETA.
- Job-site tests in tension on solid base material members (EN 771-3 or EN 771-4) are permitted when done in accordance with EOTA Technical Report TR 051, where $N_{Rk1} = 0,5 N_1 \leq N_{Rk,ETA}$, with N_1 = mean value of the five smallest measured values at the ultimate load

Use conditions (Environmental conditions):

- The anchor may be used in structures subject to dry internal conditions.
- Base temperature range in service condition -40°C to +80°C.

Design:

- Anchorages are designed under the responsibility of an engineer experienced in anchorages and concrete work.
- Anchorages under static and quasi-static actions can be designed in accordance with EOTA TR 054, Edition April 2016.
- Verifiable calculation notes and drawings are prepared taking into account of the load to be anchored. The position of the anchor is indicated on the design drawings.

Installation:

- Anchor installation carried out by appropriately qualified personnel and under the supervision of the person responsible for technical matters on the site.
- Anchor installation in accordance with the manufacturer's specifications and drawings using the appropriate tools.
- Installation in joints is not allowed.
- Verify before installing the anchor to ensure that the strength class of the base material in which the anchor is to be placed is in the range given and is not lower than that of the base material to which the characteristic loads apply for.
- Anchor installation ensuring the specified nominal embedment depth h_{nom} .
- Keeping of the edge distance and spacing to the specified values without minus tolerances.

Lightweight concrete screw HL	Annex B1 of European Technical Assessment ETA-20/0335
Intended use Specifications	

Table B1: Installation data

Lightweight concrete screw HL			Anchor size and type	
			HL-C 8	HL-W 10
Nominal embedment depth	h_{nom}	[mm]	100	160
Effective anchorage depth	h_{ef}	[mm]	86	150
Thickness of the fixture	t_{fix}	[mm]	40-300	5-240
Screw recess	/	/	TX30	TX40

Table B2: Minimum thickness of member, spacing and edge distance in AAC

Lightweight concrete screw HL			Anchor size and type	
			HL-C 8	HL-W 10
Minimum thickness of member	h_{min}	[mm]	150	200
Single anchor and anchor group				
Minimum spacing	s_{min}	[mm]	80	100
Characteristic spacing	s_{cr}	[mm]	$3 h_{ef}$	
Minimum edge distance	c_{min}	[mm]	80	100

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

Lightweight concrete screw HL			Anchor size and type
			HL-W 10
Minimum thickness of member	h _{min}	[mm]	190
Single anchor and anchor group			
Minimum spacing	s _{min}	[mm]	100
Characteristic spacing	s _{cr}	[mm]	3 h _{ef}
Minimum edge distance	c _{min}	[mm]	100

Lightweight concrete screw HL

Intended use
Installation dataAnnex B2
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Installation instructions

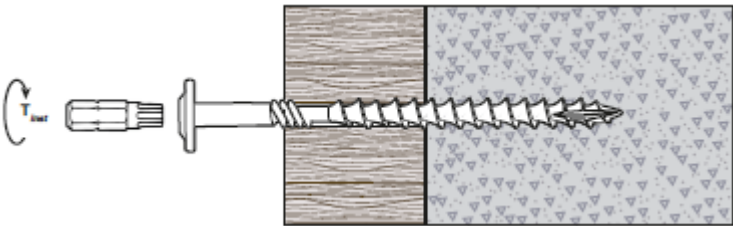
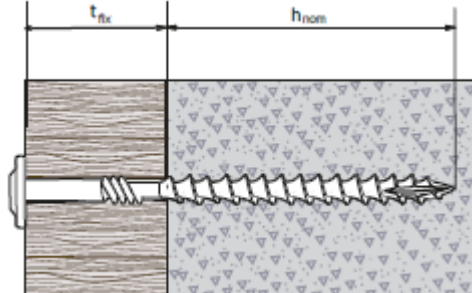
1.		The lightweight concrete screw HL should be installed directly into the base material without pre-drilling. If the fixture material is made of timber it should not be pre-drilled either. Anchor should be installed in the base material with a rotary screwdriver power tool without impact setting.
2.		The installation is complete once the screw head is flush with the fixture surface. Note! If the screw is over-torqued at this point it risks damaging the base material in such a way that the load capacity of the anchor is lost. Use a low speed gear to minimize the risk of over-tightening the anchor.
Lightweight concrete screw HL		Annex B3 of European Technical Assessment ETA-20/0335
Intended use Installation instructions		

Table C1: Base materials

Base material	Picture	Dimensions L×W×H [mm]	Minimum compressive strength f_b [MPa]	Bulk density class [kg/m ³]
Autoclaved aerated concrete AAC 2,5 acc. to EN 771-4		150×200×600	2,5	375 ± 25
		200×200×600		
Autoclaved aerated concrete AAC 4 acc. to EN 771-4		150×200×600	4,0	575 ± 25
		200×200×600		
Lightweight aggregate concrete LAC 5 acc.to EN 771-3		190×190×590	5,0	850 ± 85

Table C2: Characteristic bending resistance

Lightweight concrete screw HL			Anchor size and type	
			HL-C 8	HL-W 10
Characteristic bending resistance	$M_{Rk,s}$	[Nm]	25	40
Partial safety factor	$\gamma_{Ms}^{1)}$		1,5	1,5

¹⁾ In absence of other national regulations

Lightweight concrete screw HL	Annex C1 of European Technical Assessment ETA-20/0335
Performance Base material, characteristic bending resistance of the screw	

Base material type: Autoclaved aerated concrete AAC 2,5**Table C3:** Description of the brick

Brick Type	Autoclaved aerated concrete AAC 2,5	
Bulk density ρ [kg/m ³]	375	
Compressive strength $f_b \geq$ [N/mm ²]	2,5	
Code	EN 771-4	
Producer	e.g. Ytong Xella	
Brick dimensions [mm]	150 × 200 × 600 200 × 200 × 600	

Table C4: Installation parameters

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Effective anchorage depth	h_{ef}	[mm]	86	150
Minimum edge distance	c_{min}	[mm]	80	100
Characteristic spacing	s_{cr}	[mm]	3 h_{ef}	
Minimum spacing	s_{min}	[mm]	80	100
Installation method			without impact	

Table C5: Characteristic resistance in tension of single anchor - N_{Rk}

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Autoclaved aerated concrete AAC 2,5	N_{Rk}	[kN]	0,9	2,0
Partial safety factor	γ_M	[-]	2,0 ¹⁾	

¹⁾ In absence of other national regulations**Table C6:** Characteristic resistance in shear of single anchor - V_{Rk}

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Autoclaved aerated concrete AAC 2,5	V_{Rk}	[kN]	1,5	3,0
Partial safety factor	γ_M	[-]	2,0 ¹⁾	

¹⁾ In absence of other national regulations**Lightweight concrete screw HL****Performance Autoclaved aerated concrete AAC 2,5**

Description of a brick, installation parameters, characteristic resistances

Annex C2
of European
Technical Assessment
ETA-20/0335

Base material type: Autoclaved aerated concrete AAC 2,5**Table C7:** Characteristic resistance in tension of group with two anchors - N_{Rk}^g

Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL			
				HL-C 8		HL-W 10	
				$\alpha_{g,N}$	N_{Rk}^g	$\alpha_{g,N}$	N_{Rk}^g
				[/]	[kN]	[/]	[kN]
II: anchors placed parallel to horizontal joint		C _{min}	S _{min}	2,0	1,8	1,75	3,5
⊥: anchors placed perpendicular to horizontal joint							

Table C8: Characteristic resistance in shear of group with two anchors - V_{Rk}^g

Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL			
				HL-C 8		HL-W 10	
				$\alpha_{g,V}$	V_{Rk}^g	$\alpha_{g,V}$	V_{Rk}^g
				[/]	[kN]	[/]	[kN]
II: anchors placed parallel to horizontal joint		C _{min}	S _{min}	2,0	3,0	2,0	6,0
⊥: anchors placed perpendicular to horizontal joint							

Table C9: Displacements

Lightweight concrete screw HL	h_{nom}	Tension load			Shear load		
		N	δ_{N0}	$\delta_{N\infty}$	V	δ_{V0}	$\delta_{V\infty}$
	[mm]	[kN]	[mm]	[mm]	[kN]	[mm]	[mm]
HL-C 8	100	0,32	0,002	0,159	0,54	1,787	1,681
HL-W 10	160	0,71	0,018	0,159	1,07	2,543	3,815

Lightweight concrete screw HL

Performance Autoclaved aerated concrete AAC 2,5
Characteristic resistances, displacements

Annex C3
of European
Technical Assessment
ETA-20/0335

Base material type: Autoclaved aerated concrete AAC 4**Table C10:** Description of the brick

Brick Type	Autoclaved aerated concrete AAC 4	
Bulk density ρ [kg/m ³]	575	
Compressive strength $f_b \geq$ [N/mm ²]	4	
Code	EN 771-4	
Producer	e.g. Ytong Xella	
Brick dimensions [mm]	150 × 200 × 600 200 × 200 × 600	

Table C11: Installation parameters

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Effective anchorage depth	h_{ef}	[mm]	86	150
Minimum edge distance	c_{min}	[mm]	80	100
Characteristic spacing	s_{cr}	[mm]	3 h_{ef}	
Minimum spacing	s_{min}	[mm]	80	100
Installation method			without impact	

Table C12: Characteristic resistance in tension of single anchor – N_{Rk}

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Autoclaved aerated concrete AAC 4	N_{Rk}	[kN]	2,0	3,0
Partial safety factor	γ_M	[-]	2,0 ¹⁾	

¹⁾ In absence of other national regulations**Table C13:** Characteristic resistance in shear of single anchor – V_{Rk}

Lightweight concrete screw HL			HL-C 8	HL-W 10
Embedment depth	h_{nom}	[mm]	100	160
Autoclaved aerated concrete AAC 4	V_{Rk}	[kN]	2,0	3,5
Partial safety factor	γ_M	[-]	2,0 ¹⁾	

¹⁾ In absence of other national regulations**Lightweight concrete screw HL**

Performance Autoclaved aerated concrete AAC 4
Description of a brick, installation parameters, characteristic resistances

Annex C4
of European
Technical Assessment
ETA-20/0335

Base material type: Autoclaved aerated concrete AAC 4**Table C14:** Characteristic resistance in tension of group with two anchors – N_{Rk}^g

Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL			
				HL-C 8		HL-W 10	
				$\alpha_{g,N}$	N_{Rk}^g	$\alpha_{g,N}$	N_{Rk}^g
				[/]	[kN]	[/]	[kN]
II: anchors placed parallel to horizontal joint		c_{min}	s_{min}	2,0	4,0	1,75	5,25
⊥: anchors placed perpendicular to horizontal joint							

Table C15: Characteristic resistance in shear of group with two anchors – V_{Rk}^g

Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL			
				HL-C 8		HL-W 10	
				$\alpha_{g,V}$	V_{Rk}^g	$\alpha_{g,V}$	V_{Rk}^g
				[/]	[kN]	[/]	[kN]
II: anchors placed parallel to horizontal joint		c_{min}	s_{min}	2,0	4,0	2,0	7,0
⊥: anchors placed perpendicular to horizontal joint							

Table C16: Displacements

Lightweight concrete screw HL	h_{nom}	Tension load			Shear load		
		N	δ_{N0}	$\delta_{N\infty}$	V	δ_{V0}	$\delta_{V\infty}$
	[mm]	[kN]	[mm]	[mm]	[kN]	[mm]	[mm]
HL-C 8	100	0,71	0,259	0,259	0,71	0,820	1,230
HL-W 10	160	1,07	0,128	0,159	1,25	2,403	3,605

Lightweight concrete screw HL

Performance Autoclaved aerated concrete AAC 4
Characteristic resistances, displacements

Annex C5
of European
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Base material type: Lightweight aggregate concrete LAC 5**Table C17:** Description of the brick

Brick Type	Lightweight aggregate concrete LAC 5		
Bulk density	ρ [kg/m ³]	850	
Compressive strength	$f_b \geq$ [N/mm ²]	5	
Code		EN 771-3	
Producer		e.g. Finja	
Brick dimensions	[mm]	190 × 190 × 590	

Table C18: Installation parameters

Lightweight concrete screw HL			HL-W 10
Embedment depth	h_{nom}	[mm]	160
Effective anchorage depth	h_{ef}	[mm]	150
Minimum edge distance	c_{min}	[mm]	100
Characteristic spacing	s_{scr}	[mm]	3 h_{ef}
Minimum spacing	s_{min}	[mm]	100
Installation method			without impact

Table C19: Characteristic resistance in tension of single anchor - N_{Rk}

Lightweight concrete screw HL			HL-W 10
Embedment depth	h_{nom}	[mm]	160
Lightweight aggregate concrete LAC 5	N_{Rk}	[kN]	5,0
Partial safety factor	γ_M	[-]	2,5 ¹⁾

¹⁾ In absence of other national regulations**Table C20:** Characteristic resistance in shear of single anchor - V_{Rk}

Lightweight concrete screw HL			HL-W 10
Embedment depth	h_{nom}	[mm]	160
Lightweight aggregate concrete LAC 5	V_{Rk}	[kN]	4,5
Partial safety factor	γ_M	[-]	2,5 ¹⁾

¹⁾ In absence of other national regulations**Lightweight concrete screw HL**

Performance Autoclaved aerated concrete LAC 5
Description of a brick, installation parameters, characteristic resistances

Annex C6
of European
Technical Assessment
ETA-20/0335

Base material type: Lightweight aggregate concrete LAC 5**Table C21:** Characteristic resistance in tension of group with two anchors - N_{Rk}^g

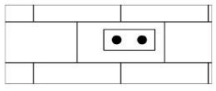
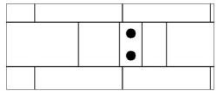
Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL	
				HL-W 10	
				$\alpha_{g,N}$ [°]	N_{Rk}^g [kN]
II: anchors placed parallel to horizontal joint		c_{min}	s_{min}	1,6	8,0
⊥: anchors placed perpendicular to horizontal joint					

Table C22: Characteristic resistance in shear of group with two anchors - V_{Rk}^g

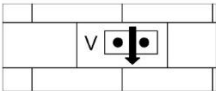
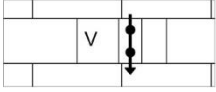
Configuration		with $c \geq$ [mm]	with $s \geq$ [mm]	Lightweight concrete screw HL	
				HL-W 10	
				$\alpha_{g,V}$ [°]	V_{Rk}^g [kN]
II: anchors placed parallel to horizontal joint		c_{min}	s_{min}	1,95	8,78
⊥: anchors placed perpendicular to horizontal joint					

Table C23: Displacements

Lightweight concrete screw HL	h_{nom}	Tension load			Shear load		
		N	δ_{N0}	$\delta_{N\infty}$	V	δ_{V0}	$\delta_{V\infty}$
	[mm]	[kN]	[mm]	[mm]	[kN]	[mm]	[mm]
HL-W 10	160	1,43	0,325	0,325	1,28	2,268	3,402

Lightweight concrete screw HL

Performance Autoclaved aerated concrete LAC 5
Characteristic resistances, displacements

Annex C7
of European
Technical Assessment
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