

IZJAVA O LASTNOSTIH

Št. 9 - 020 - 04/0023 - 2023/9

SLO

EJOT®

b) Varnost v primeru požara (BWR 2)

Glavne značilnosti	Zmogljivost proizvoda

c) Higiena, zdravje in okolje (BWR 3) \ t

Glavne značilnosti	Zmogljivost proizvoda

d) Zaščita pred hrupom (BWR 5) \ t

Glavne značilnosti	Zmogljivost proizvoda

e) Varčevanje z energijo in ohranjanje toplote (BWR 6) \ t

Glavne značilnosti	Zmogljivost proizvoda
Točkovna toplotna prehodnost	glej prilogo C 2

f) Trajnostna raba naravnih virov (BWR 7) \ t

Glavne značilnosti	Zmogljivost proizvoda

Lastnosti proizvoda, navedenega zgoraj, so v skladu z navedenimi lastnostmi. Za izdajo te izjave o lastnostih je v skladu z Uredbo (EU) št. 305/2011 odgovoren izključno proizvajalec, naveden zgoraj.

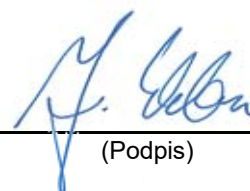
Podpisal za in v imenu proizvajalca:

Dr. Jens Weber

(Ime)

Bad Laasphe, 12.06.2023

(Kraj in datum izstavitve)



(Podpis)

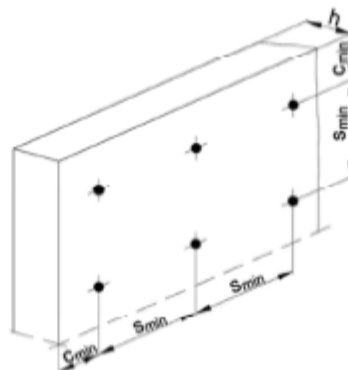
Table C1: Characteristic resistance to tension loads N_{Rk} [kN] in concrete and masonry for a single anchor					
Anchor type ejothem STR U / STR U 2G / SDK U					
Base materials	Bulk density ρ [kg/dm ³]	minimum compressive strength f_b [N/mm ²]	General remarks	Drill method	N_{Rk} [kN]
Concrete C12/15 – C50/60 as per EN 206:2013+A1:2016			Compacted normal weight concrete without fibres thickness of the thin skin 100 mm > h ≥ 40 mm	hammer	1,5
concrete C16/20 – C50/60 as per EN 206:2013+A1:2016 thin concrete members (thin skin)				hammer	1,5
Clay bricks, Mz as per EN 771-1:2011+A1:2015	≥ 1,8	12	Vertically perforation up to 15 % ⁴⁾	hammer	1,5
Sand-lime solid bricks, KS as per EN 771-2:2011+A1:2015	≥ 1,8	12	Vertically perforation up to 15 % ⁴⁾	hammer	1,5
Vertically perforated clay bricks, Hlz as per EN 771-1:2011+A1:2015	≥ 1,2	12	Vertically perforation >15 % and ≤ 50 % ⁴⁾	rotary	1,2 ¹⁾
Vertically perforated clay bricks, Hlz as per EN 771-1:2011+A1:2015	≥ 0,8	12	Vertically perforation >15 % and ≤ 50 % ⁴⁾	rotary	1,1 ¹⁾
				hammer	0,7 ¹⁾
Lightweight concrete solid blocks, V as per EN 771-3:2011+A1:2015	≥ 0,9	4	Vertically perforation >15 % and ≤ 50 % ⁴⁾	rotary	0,6
Sand-lime perforated bricks, KSL as per EN 771-2:2011+A1:2015	≥ 1,6	12	Vertically perforation >15 % and ≤ 50 % ⁴⁾	rotary	1,5 ²⁾
				hammer	1,5 ²⁾
Lightweight concrete hollow blocks, Hbl, as per EN 771-3:2011+A1:2015	≥ 0,5	2	Vertically perforation >15 % and ≤ 50 % ⁴⁾	rotary	0,6 ³⁾
Lightweight aggregate concrete LAC, as per EN 1520:2011 / EN 771-3: 2011+A1:2015	≥ 1,8	4	-	hammer	0,9
Autoclaved aerated concrete AAC as per EN 771-4:2011+A1:2015	≥ 0,4	2	-	rotary	0,75
Vertically perforated clay bricks Hlz 250x380x235 mm as per EN 771-1:2011+A1:2015			Outer web thickness ≥ 10,3 mm	rotary	0,75 ¹⁾
ejothem STR U, ejothem STR U 2G and ejothem SDK U				Annex C 1	
Performance Characteristic tension resistance					

- ¹⁾ The value applies only for outer web thickness ≥ 11 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.
- ²⁾ The value applies only for outer web thickness ≥ 20 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.
- ³⁾ The value applies only for outer web thickness ≥ 30 mm; otherwise the characteristic resistance shall be determined by job site pull-out tests.
- ⁴⁾ Cross section reduced by perforation vertically to the resting area

Table B1: Installation parameters					
Anchor type		ejothem STR U / STR U 2G		ejothem SDK U	
Base material group		A B C D	E	A B C D	E
Drill hole diameter	d_0 [mm]	8	8	8	8
Cutting diameter of drill bit	d_{cut} [mm] ≤	8,45	8,45	8,45	8,45
Depth of drilled hole to deepest point					
- deep mounting	h_1 [mm] ≥	50	90	-	-
- mounting on the surface	h_2 [mm] ≥	35	75	35	75
Effective anchorage depth	h_{ef} [mm] ≥	25	65	25	65

Table B2: Anchor distances and dimensions of members			
Anchor type		ejothem STR U / STR U 2G / SDK U	
Base material group		A B C D	E
Minimum spacing	$s_{min} \geq$ [mm]	100	100
Minimum edge distance	$c_{min} \geq$ [mm]	100	100
Minimum thickness of member			
- deep mounting	$h \geq$ [mm]	100	120
		40 (only thin skins of concrete)	
- mounting on the surface	$h \geq$ [mm]	100	120
		40 (only thin skins of concrete)	

Scheme of distance and spacing



ejothem STR U, ejothem STR U 2G and ejothem SDK U

Intended use
Installations parameters, anchor distances and dimensions of members

Annex B 2

Table C4: Displacements					
Base material	Bulk density ρ [kg/dm ³]	Minimum Compressive Strength f_b [N/mm ²]	Tension Load N [kN]	Displacements STR U $\Delta\delta_N$ [mm]	Displacements STR U 2G $\Delta\delta_N$ [mm]
Concrete C16/20 – C50/60 (EN 206:2013+A1:2016)			0,5	0,7	0,8
concrete C16/20 – C50/60 (EN 206:2013+A1:2016) thin concrete members (thin skins)			0,5	0,7	0,8
Clay bricks, Mz (EN 771-1:2011+A1:2015)	≥ 1,8	12	0,5	0,7	0,8
Sand-lime solid bricks, KS (EN 771-2:2011+A1:2015)	≥ 1,8	12	0,5	0,7	0,8
Lightweight concrete solid blocks, V (EN 771-3:2011+A1:2015)	≥ 0,9	4	0,2	0,7	0,8
Vertically perforated clay bricks, Hlz (EN 771-1:2011+A1:2015)	≥ 1,2	12	0,4	0,7	0,8
Vertically perforated clay bricks, Hlz (EN 771-1:2011+A1:2015)	≥ 0,8	12	0,36	0,7	0,8 ¹⁾
			0,23	0,9	0,9 ²⁾
Sand-lime perforated bricks, KSL (EN 771-2:2011+A1:2015)	≥ 1,6	12	0,5	0,7	0,8 ¹⁾
			0,5	0,7	0,9 ²⁾
Lightweight concrete hollow blocks, Hbl (EN 771-3:2011+A1:2015)	≥ 0,5	2	0,2	0,7	0,8
Lightweight aggregate concrete, LAC (EN 1520:2011 / EN 771-3:2011 +A1:2015)	≥ 1,8	4	0,3	0,7	0,8
Autoclaved aerated concrete, AAC (EN 771-4:2011+A1:2015)	≥ 0,4	2	0,25	0,7	0,8
Vertically perforated clay bricks Hlz 250x380x235 mm (EN 771-1:2011+A1:2015)			0,25	0,7	0,8
¹⁾ drill hole by rotary drilling ²⁾ drill hole by hammer drilling					
ejotherm STR U, ejotherm STR U 2G and ejotherm SDK U					Annex C 3
Performance Displacements					

Table C2: Point thermal transmittance according EOTA Technical Report TR 025:2016-05

anchor type	insulation thickness	point thermal transmittance
	h_D [mm]	χ [W/K]
ejothem STR U mounted on the surface with EPS anchor cap	60 – 420	0,002
ejothem STR U mounted countersunk with insulation cover	80 – 420	0,002
ejothem STR U 2G mounted on the surface with EPS anchor cap	60 – 400	0,002
ejothem STR U 2G mounted countersunk with insulation cover	80 – 400	0,001

Table C3: Plate stiffness according EOTA Technical Report TR 026:2016-05

anchor type	diameter of the anchor plate	load resistance of the anchor plate	plate stiffness
	[mm]	[kN]	[kN/mm]
ejothem STR U ejothem STR U 2G	60	2,08	0,60

ejothem STR U, ejothem STR U 2G and ejothem SDK U

Performance
Point thermal transmittance, plate stiffness

Annex C 2