

DECLARATION of PERFORMANCE
according to Annex III of the regulation (EU) Nr. 305/2011 (construction product regulation)
Nr. 09-004-04/0064-2014-05

- 1.) Unique identification code of the product-type:
EJOT SDF-S plus 8UB + EJOT TE Ø 60/110
- 2.) Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
type and lot number are displayed on the packaging
- 3.) Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
Screwed-in anchor for fixing of external thermal insulation composite systems with rendering in concrete and masonry, using category: A,B,C,E
Anchor length: 200 - 400 mm
- 4.) Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
EJOT Baubefestigungen GmbH, In der Stockwiese 35, 57334 Bad Laasphe
- 5.) Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2) :
not relevant
- 6.) System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+
- 7.) In case of the declaration of performance concerning a construction product covered by a harmonized standard:
not relevant
- 8.) In the case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued, this has:
Deutsches Institut für Bautechnik (DIBt) granted a European technical approval ETA-04/0064 based on ETAG 014.
The MPA Universität Stuttgart -Otto-Graf-Institut-, NB 0672 has carried out the initial test of the construction product according to System 2+.

9.) Declared performance:

Essential characteristics	Performance	Harmonized technical specification
Characteristic tension resistance N_{Rk}	see ETA-04/0064 annex C1, table C1	ETAG 014: 2011
Displacement	see ETA-04/0064 annex C3, table C4	ETAG 014: 2011
Point thermal transmittance	see ETA-04/0064 annex C2, table C2	EOTA TR 25
Plate stiffness	see ETA-04/0064 annex C2, table C3	EOTA TR 26
minimum allowable spacing and minimum allowable edge distance	see ETA-04/0064 paragraph B2, table B2	ETAG 014: 2011

- 10.) The performance of the product identified in point 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Dr. Frank Dratschmidt / management
(name and function)

Bad Laasphe, den 05.01.2015
(place and date of issue)

(signature)

Table C1: Characteristic resistance to tension loads N_{Rk} in concrete and masonry for a single anchor in kN						
Anchor type					SDM-T plus SDF-K plus SDF-S plus	SDM-T plus U SDF-K plus U SDF-S plus U SDF-K plus UB SDF-S plus UB
Base materials	Bulk density class ρ [kg/dm ³]	minimum compressive strength f_b [N/mm ²]	General remarks	Drill method ¹⁾		N_{Rk} [kN]
Concrete C12/15			EN 206-1	H	1,5	1,5
Concrete C16/20 – C50/60			EN 206-1	H	1,5	1,5
Clay bricks Mz e.g. according to DIN 105-100:2012-01 / EN 771-1:2011	$\geq 1,8$	12	Vertically perforation up to 15 %.	H	1,5	1,5
Sand-lime solid bricks KS e.g. according to DIN V 106:2005-10 / EN 771-2:2011	$\geq 1,8$	12	Vertically perforation up to 15 %.	H	1,5	1,5
Lightweight concrete solid blocks V e.g. according to DIN V 18152-100:2005-10 / EN 771-3:2011	$\geq 0,5$	4	Proportion of hole up to 10% maximum extension of hole: length = 110mm; wide = 45mm	D	0,9	0,9
Vertically perforated clay bricks HLz e.g. according to DIN 105-100:2012-01 / EN 771-1:2011	$\geq 0,9$	12	Vertically perforation more than 15% and less than 50 %.	D	-	1,2
Sand-lime perforated bricks KSL e.g. according to DIN V 106:2005-10 / EN 771-2:2011	$\geq 1,6$	12	Vertically perforation up to 15 %.	D	-	1,5
Lightweight concrete hollow blocks Hbl e.g. according to DIN V 18151-100:2005-10 / EN 771-3:2011	$\geq 0,5$	2	see Annex C 4	D	-	0,75
Autoclaved aerated concrete AAC 4 e.g. according to DIN V 4185, part 100:2005-10 / EN 771-4:2011	$\geq 0,5$	4		D	-	0,6

¹⁾ H = hammer drilling / D = rotary drilling

EJOT SDM-T plus, SDF-K plus and SDF-S plus

Performances
Characteristic resistance

Annex C 1

Table C4: Displacements

Base material	Bulk density class ρ [kg/dm³]	Minimum compressive strength f_b [N/mm²]	Tension load N [kN]	displacements $\delta_m(N)$ [mm]
Concrete C12/15 – C50/60 (EN 206-1:2000-12)			0,5	0,7
Clay bricks, Mz (DIN 105-100:2012-01/ EN 771-1:2011)	$\geq 1,8$	12	0,5	0,5
Sand-lime solid bricks, KS (DIN V 106:2005-10 / EN 771-2:2011)	$\geq 1,8$	12	0,5	0,5
Lightweight concrete solid blocks, V (DIN V 18152-100:2005-10 / EN 771-3:2011)	$\geq 0,5$	4	0,3	0,6
Vertically perforated clay bricks, HLz (DIN 105-100:2012-01/ EN 771-1:2011)	$\geq 0,9$	12	0,4	0,3
Sand-lime perforated bricks, KSL (DIN V 106:2005-10 / EN 771-2:2011)	$\geq 1,6$	12	0,5	0,3
Lightweight concrete hollow blocks, Hbl (DIN V 18151-100:2005-10 / EN 771-3:2011)	$\geq 0,5$	2	0,25	0,2
Autoclaved aerated concrete AAC 4 (DIN V 4165, part 100:2011 / EN 771-4:2011)	$\geq 0,5$	4	0,2	<0,1

EJOT SDM-T plus, SDF-K plus and SDF-S plus

Performances
Displacements

Annex C 3

Table C2: Point thermal transmittance according EOTA Technical Report TR 025:2007-06

Anchor type	insulation thickness h_D [mm]	point thermal transmittance χ [W/K]
SDM-T <i>plus</i> U	60 - 80	0,002
	> 80 - 360	0,003

Anchor type	insulation thickness h_D [mm]	point thermal transmittance $\chi_{s,c}$ [W/K]
SDF-S <i>plus</i> with TE Ø60/50	60 - 180	0,002
SDF-S <i>plus</i> with TE Ø60/110	120 - 150	0,000
	150 - 240	0,001

Table C3: Plate stiffness according EOTA Technical Report TR 026:2007-06

Anchor type	diameter of the anchor plate [mm]	load resistance of the anchor plate [kN]	plate stiffness [kN/mm]
SDM-T <i>plus</i> U	60	2,67	0,6
SDF-S <i>plus</i> with TE Ø60/50	60	2,24	0,7
SDF-S <i>plus</i> with TE Ø60/110	60	2,24	0,7

EJOT SDM-T *plus*, SDF-K *plus* and SDF-S *plus*

Performances
Point thermal transmittance
Plate stiffness

Annex C 2

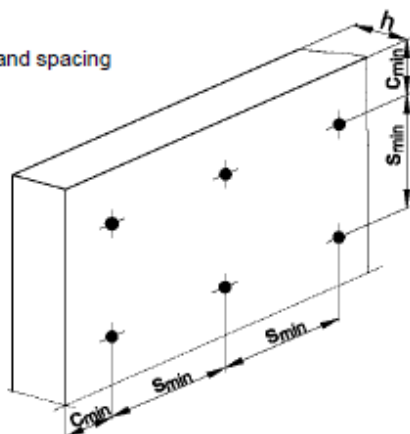
Table B1: Installation parameters

Anchor type		SDM-T <i>plus</i> SDF-K <i>plus</i> SDF-S <i>plus</i>	SDM-T <i>plus</i> U SDF-K <i>plus</i> U SDF-S <i>plus</i> U SDF-K <i>plus</i> UB SDF-S <i>plus</i> UB
Drill hole diameter	d_0 [mm]	8	8
Cutting diameter of drill bit	d_{cut} [mm] ≤	8,45	8,45
Depth of drilled hole to deepest point	h_1 [mm] ≥	60	80
Effective anchorage depth	h_{ef} [mm] ≥	50	70

Table B2: Anchor distances and dimensions of members

Anchor type		SDM-T <i>plus</i> SDF-K <i>plus</i> SDF-S <i>plus</i>	SDM-T <i>plus</i> U SDF-K <i>plus</i> U SDF-S <i>plus</i> U SDF-K <i>plus</i> UB SDF-S <i>plus</i> UB
Minimum allowable spacing	$s_{min} \geq$ [mm]	100	100
Minimum allowable edge distance	$c_{min} \geq$ [mm]	100	100
Minimum thickness of member	$h \geq$ [mm]	100	100

Scheme of distances and spacing



EJOT SDM-T *plus*, SDF-K *plus* and SDF-S *plus*

Intended use
Installation parameters,
Anchor distances and dimensions of members

Annex B 2