

Declaration of Performance Chemfix PE (Bonded anchor)

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Generic type	Injection anchor for use in Masonry			
	Solid masonry (use category b) or hollow or perforated masonry (use			
	category c) according to Annex B9. The mortar strength class of the			
	masonry has to be M 2,5 according to EN 998-2:2010 at minimum.			
	Dimensions [mm]: 120 x 250 x 60 fb class ≥ 18 N/mm2			
Base material	density ρm ≥ 1666,7 kg/m3 (e.g. type "Mattone Pieno")			
base material	<u>Dimensions [mm]: 200 x 560 x 274 fb class ≥ 11,5 N/mm2</u>			
	density ρm ≥ 600 kg/m3 (e.g. type "French brick")			
	(e.g. type "French br)			
	Threaded rods made of zinc coated steel Threaded rod M8 − M12 Strength class 4.6, 5.8, 6.8 EN ISO 898-1 Steel galvanized ≥ 5μm EN ISO 4042 Hot dipped galvanized ≥ 45μm EN ISO 10684 Washer ISO 7089 Steel galvanized EN ISO 4042; hot dipped galvanized EN ISO 10684 Nut EN ISO 4032 Strength class 8 EN ISO 898-2 Steel galvanized ≥ 5μm EN ISO 4042 Hot dipped galvanized ≥ 45μm EN ISO			
Material	10684 Threaded rods made of stainless steel Threaded rod M8 – M12 Strength class A4-70 and A4-80 EN ISO 3506-1; Washer ISO 7089 Strength class A4-70 and A4-80 EN ISO 3506-1;			
	Nut EN ISO 4032			
	Strength class A4-70 and A4-80 EN ISO 3506-1;			
	Perforated sleeve Polyethylene 16 X 85			
Durability	internal dry conditions			
Loading	Static and quasi static in solid/hollow/perforated masonry			
Service temperature range	The anchor may be used in the following service temperature range: a) -40°C to +40°C (max. short term temperature +40°C and max. long term temperature +24°C), b) -40°C to +80°C (max short term temperature + 80°C and max long term temperature + 50°C).			
Use category	in structures subject to dry, internal conditions – category w/d (use)			
Fire Resistance	N/A			
Fire Reaction	N/A			
ETA - 16/0907 issued by	ETA DANMARK			
On the basis of	ETAG 029 Edition April 2013			
Certificate of Conformity issued by	ZAG			
Under System	1			

Table B1 Installation data for solid masonry (brick n°1)*

Size		M8	M10	M12	
Nominal drilling diameter	d₀ [mm]	10	12	14	
Maximum diameter hole in the fixture	d _{fix} [mm]	9	12	14	
Embedment depth	h _{ef} [mm]	85	85	85	
Depth of the drilling hole	h ₁ [mm]	h _{ef} + 5 mm			
Torque moment	T _{inst} [Nm]	2	2	2	
Thickness to be t _{fix,min} [mm]		> 0			
fixed	t _{fix,max} [mm]	< 1500			
Minimum spacing	S _{min} [mm]	255	255	255	
Minimum edge distance	C _{min} [mm]	127,5	127,5	127,5	

^{*} Type of bricks are detailed in the Annex B9

Table B2: Installation data for hollow/perforated masonry (brick n° 2)*

Size		M8	M10	M12		
Plastic sleeve		16x85				
Nominal drilling diameter	d ₀ [mm]	16	16	16		
Maximum diameter hole in the fixture	d _{fix} [mm]	9	12	14		
Embedment depth	h _{ef} [mm]	85	85	85		
Depth of the drilling hole	h ₁ [mm]	h _{ef} + 5 mm				
Torque moment	T _{inst} [Nm]	2	2	2		
Thickness to be	ckness to be tfix,min [mm]		> 0			
fixed	t _{fix,max} [mm]	< 1500				
Minimum spacing	S _{min,∥} [mm]	560	560	560		
	S _{min,} ⊥[mm]	200	200	200		
Minimum edge distance	C _{min} [mm]	100	100	100		

^{*} Type of bricks are detailed in the Annex B9

Table B3: Brush diameter

			Use in solid masonry		Use in hol	low/perforat	ed masonry	
Type of threaded rod		M8	M10	M12	М8	M10	M12	
d ₀	Nominal drill hole	[mm]	10	12	14	16	16	16
db	Brush diameter	[mm]	10	13	13	18	18	18

Table C1: Essential Characteristics

ESSENTIAL CHARACTERISTICS		PERFORMANCE					
Installation parameters		M8	M10	M12			
d [mm]		8	10	12			
do [mm] category b (solid)	masonry)	10	12	14			
do [mm] category c (hollow		16	16	16			
Type of plastic sleeve for t	ise in category c	16x85	16x85	16x85			
dfix [mm]		9	12	14			
h ₁ [mm]		h _{ef} + 5 mm					
t _{fix} [mm]	Min		>0				
	Max		≤ 1500 mm				
T _{inst} [Nm] category b (soli		2	2	2			
Tinst [Nm] category c (holl masonry)	ow or perforated	2	2	2			
Smin [mm] category b (soli	d masonry)	255	255	255			
Cmin [mm] category b (soli		127,5	127,5	127,5			
Smin [mm] category c (holl	Smin [mm] category c (hollow masonry) Smin,∥		560	560			
Smin [mm] category c (hollow) Smin,⊥		200	200	200			
C _{min} [mm] category c (hollow masonry)		100	100	100			
* Resistance for tensile and shear load Temperature range -40°C/+40°C (T _{mlp} = 24°C)		M8	M10	M12			
Daista a01 (catid)	N _{Rk} [kN]	2,5					
Brick n°1 (solid)	V _{Rk} [kN]	6,0					
Brick n°2 (hollow)	Nrk [kN]	0,75					
` '	V _{Rk} [kN]		3,5				
* Resistance for tensile and shear load							
Temperature range -40°C to +80°C (T _{mlp} = 50°C)		M8	M10	M12			
Brick n°1 (solid)	N _{Rk} [kN]	2,0					
Direk II 1 (Solid)	Vrk [kN]	6,0					
Brick n°2 (hollow)	N _{Rk} [kN]	0,6					
, ,	Vrk [kN]	3,5					

^{*} For design according to ETAG 029 Annex C: NRk = NRk,p = NRk,b = NRk,pb - steel failure is not decisive

The performances of the product identified by the above identification code are in conformity with the declared performance. This declaration of performance is issued under the sole responsibility of Chemfix Products Ltd.

Signed for and behalf of the manufacturer by:

Name and functions	Place and date of issue	Signature
URS JOOS - COMMERCIAL AND MARKETING DIRECTOR	DEWSBURY 27.01.2017	AJCS >

^{*} For design according to ETAG 029: $V_{Rk} = V_{Rk,b}$ – steel failure without lever arm is not decisive – $V_{Rk,c}$ according to ETAG 029 Annex C section C.5.2.2.5