Declaration of Performance - 1404-CPR-2585

Chemfix PESF TOP (**Bonded anchor)**

Chemfix Products Ltd
Mill Street East, Dewsbury, West Yorkshire, WF12 9BQ, UK

Intended use or uses of the construction product according to ETAG 001 parts 1 and 5	
Generic type	Bonded anchor for anchorage of threaded rod.
Base material	Non-cracked M8 to M16 concrete C20/25 acc. to EN 206-1:2003
Material	a) Carbon galvanized steel class 5.8, 8.8 and 10.9 according to EN ISO 898-1 for dry internal conditions. b) Stainless steel 1.4401; 1.4404; 1.4578; 1.4571; 1.4439; 1.4362 according to EN 10088 according to EN 10088 for dry internal conditions, external atmospheric exposure (including industrial and marine environment) or exposure in permanently damp internal conditions if no particular aggressive conditions exist. c) High resistant corrosion stainless steel class 1.4529, 1.4565 according to EN 10088 for all conditions.
Durability	50 years
Loading	static, quasi-static
Service temperature range	The anchors may be used in the following temperature range: (a) Winter version: max short term temperature + 40 °C and max long term temperature + 24 °C; (b) Standard version: max short term temperature + 80 °C and max long term temperature + 50 °C.
Use category	Category 1: dry and wet concrete.
Fire Resistance	Class A1
Fire Reaction	Class A1
ETA - 15/0008 issued by	ETA Danmark dated 19/01/2015
On the basis of	ETAG 001 Part 5:2013

Declared performances according to ETAG 001 parts 1 and 5								
Essential Characteristics			**Performance**					
			M8	**M10**	**M12**	**M16**		
Installation parameters								
d	Diameter of anchor bolt or thread diameter	[mm]	8	10	12	16		
d_0	Nominal diameter of drill bit	[mm]	10	12	14	18		
d_{fix}	Diameter of clearance hole in the fixture	[mm]	9	12	14	18		
h_{min} / h_{max}	Minimum effective anchorage depth	[mm]	60	60	70	80		
	Maximum effective anchorage depth	[mm]	160	200	240	320		
h_{ef}	Nominal anchorage depth	[mm]	80	90	110	125		
h_{min}	Minimum thickness of the concrete member	[mm]	hef + 30mm ≥ 100mm			hef + 2do		
T_{inst}	Nominal torque moment	[Nm]	8	10	15	25		
t_{fix}	Thickness to be fixed	[mm]						
s_{min}	Minimum spacing	[mm]	0.5 hef	0.5 hef	0.5 hef	0.5 hef		
for c ≥	Edge distance	[mm]						
c_{min}	Minimum edge distance	[mm]	0.5 hef	0.5 hef	0.5 hef	0.5 hef		
for s ≥	Anchor spacing	[mm]						
Pull-out failure mode								
$\tau_{Rk,ucr}$	Characteristic bond resistance in un-cracked concrete class C20/25 temperature range a)	[MPa]	6.0	5.5	5.0	4.0		
	Characteristic bond resistance in un-cracked concrete class C20/25 temperature range b)	[MPa]	4.5	4.0	3.5	3.0		
γ_2	Partial safety factor	[-]	2.1*	1.8**	1.8**	1.8**		
$\tau_{Rk,cr}$	Characteristic bond resistance in flooded holes concrete class C20/25 temperature range a)	[MPa]	5.0	4.0	4.0	3.5		
	Characteristic bond resistance in flooded holes concrete class C20/25 temperature range b)	[MPa]	3.5	3.0	3.0	3.0		
γ_2	Partial safety factor	[-]	2.1*	2.1*	2.1*	2.1*		

* The partial safety factor γinst=1.4 included

** The partial safety factor γinst=1.2 included

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 16.09.2015