



DECLARATION OF PERFORMANCE

DoP no. 1219-CPR-0188 EN

Version: 4

print date: 26.07.2018

1. Unique identification code of the product-type: **TOX ceiling anchor Top**
2. Intended use/es:

Product	Intended use
Deformation controlled anchor	For multiple use for non-structural applications in cracked and non-cracked concrete.

3. Manufacturer: **TOX-Dübel-Technik GmbH, Brunnenstraße 31, D-72505 Krauchenwies Ablach**
4. Authorised representative: --
5. System/s of AVCP: **2+**
6. a) Harmonised standard: --
Notified body/ies: --
6. b) European Assessment Document: **ETAG 001-Part 6; August 2010**
European Technical Assessment: **ETA 18/0195; 22.06.2018**
Technical Assessment Body: **CSIC**
Notified body/ies: **1219 Instituto de Ciencias de la Construcción Eduardo Torroja**
7. Declared performance/s:

Mechanical resistance and stability (BWR 1)

Essential characteristics	Performances
Characteristic resistance for any load directions	See Annex C2

Safety in case of fire (BWR 2)

Essential characteristics	Performances
Reaction to fire	Anchorage satisfy requirements for class A1
Resistance to fire	See Annex C2

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

i. A. Daniel Wilhelm (Applications Engineering)
Krauchenwies-Ablach, 26.07.2018

English translation prepared by IETcc

Table C2: Characteristic values of resistance loads in any direction of design method C according to ETAG 001, Annex C, or FprEN1992-4:2016 for TOX ceiling anchor Top

Characteristic values of resistance to loads of design method C		Performances	
		Top 6 x 40	Top 6 x 70
Any load direction			
F_{Rk}^0	Characteristic resistance in C20/25 to C50/60 concrete: [kN]	3,0	
$\gamma_2 = \gamma_{inst}$	Installation safety factor: ¹⁾ [-]	1,2	
Shear loads: steel failure with lever arm			
$M_{Rk,s}^0$	Characteristic bending moment [Nm]	3,68	
γ_{Ms}	Partial safety factor: ¹⁾ [-]	1,25	

¹⁾ in absence of other national regulations

Table C3: Characteristic values for resistance to fire TOX ceiling anchor Top

Characteristic resistance under fire exposure in concrete C20/25 to C50/60 in any load direction for use in concrete		Performances	
		Top 6 x 40	Top 6 x 70
R30	Characteristic resistance $F_{Rk,s,30}^0$ ¹⁾ [kN]	0,41	
R60	Characteristic resistance $F_{Rk,s,60}^0$ ¹⁾ [kN]	0,30	
R90	Characteristic resistance $F_{Rk,s,90}^0$ ¹⁾ [kN]	0,19	
R120	Characteristic resistance $F_{Rk,s,120}^0$ ¹⁾ [kN]	0,14	
R30 to R120	Minimum spacing $s_{min,t}$ [mm]	200	
	Minimum edge distance $c_{min,t}$ ²⁾ [mm]	150	

¹⁾ in absence of other national regulations the partial safety factor for resistance under fire exposure $\gamma_{M,t}$ = 1.0 is recommended.

²⁾ If fire attack is from more than one side, the design method may be taken if edge distance of the anchor is $c \geq 300$

TOX ceiling anchor Top

Performances

Characteristic resistances in concrete
Characteristic values for resistance to fire

Annex C2