

**Declaration of Performance
DoP ANCU-en**



1. Product type Metal anchor, nail type

	Code	Ø Diameter[mm]	L – Length [mm]
2. Identification	ANCU06040	6	40
	ANCU06070	6	70

3. Intended use

Generic type: Anchor made in carbon Steel, zinc plated, for multiple use in non-structural applications in concrete

Base material: Concrete C20/25 to C50/60 according to EN 206-1:2008

Material: Carbon Steel wire, zinc plated $\geq 5 \mu\text{m}$ ISO 4042 A2

Durability: Dry internal conditions

Loading: Static, quasi static loads

Fire resistance: R120

Assumed working life: 50 years

4. Manufacturer Index Fixing Systems. Técnicas Expansivas S.L.
Segador, 13
26006 Logroño, La Rioja, ESPAÑA

5. Authorised representative No applicable

6. System of assessment of performance 2+

7. Harmonised standard No applicable

8. European technical assessment

Tech. assessment body: IETcc; Instituto Eduardo Torroja de ciencias de la construcción. Notified body 1219.

Issued: ETA 17/0687

On the basis of: ETAG 001, part 6

Performed: Determination of product type, initial inspection of the manufacturing plant and continuous surveillance of FPC

Under system: 2+

Emitted: Certificate CE 1219-CPR-0179

9. Declared performances

Multiple use in non-structural applications in concrete

Installation parameters:			Performance	
			ANCU 6 x 40	ANCU 6 x 70
d_0	Nominal diameter of drill bit	[mm]	6	
d_f	Fixture clearance hole diameter:	[mm]	7	
h_{min}	Minimum thickness of concrete member:	[mm]	80	
h_1	Depth of drilled hole:	[mm]	40	
h_{ef}	Effective anchorage depth:	[mm]	32	
t_{fix}	Fixture thickness	[mm]	0 – 5	0 – 35
S_{cr}	Critical spacing	[mm]	200	
C_{cr}	Critical edge distance	[mm]	150	

Characteristic values of resistance to loads of design method C			Performance	
			ANCU 6 x 40	ANCU 6 x 70
All load directions				
F_{Rk}^0	Tension characteristic resistance in C20/25 to C50/60 concrete	[kN]	3,0	
$\gamma_2 = \gamma_{inst}$	Installation safety factor	[-]	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

Characteristic resistance under fire exposure in concrete C20/25 to C50/60 in any load direction for use in concrete				Performance	
				ANCU 6 x 40	ANCU 6 x 70
R30	Characteristic resistance	$F_{Rk,fi30}^0$ ¹⁾	[kN]	0,41	
R60	Characteristic resistance	$F_{Rk,fi60}^0$ ¹⁾	[kN]	0,30	
R90	Characteristic resistance	$F_{Rk,fi90}^0$ ¹⁾	[kN]	0,19	
R120	Characteristic resistance	$F_{Rk,fi120}^0$ ¹⁾	[kN]	0,14	
R30 a R120	Critical spacing	$S_{cr,fi}$	[mm]	200	
	Critical edge distance	$C_{cr,fi}$ ²⁾	[mm]	150	

1) In absence of other national regulations the partial safety factor for resistance under fire exposure $\gamma_{M,fi} = 1.0$ 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 $c \geq 300$

- 10.** The performance of the product identified in points 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 on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read 'S. Reig', is written on the page.

Santiago Reig. Technical manager
Logroño, 19.02.2018