Declaration of Performance DoP ANCU-en



1. Product type Metal anchor, nail type

2. Identification

Code	Ø Diameter[mm]	L – Length [mm]	
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 ≥ 5 μm ISO 4042 A2

Durability: Dry internal conditions Loading: Static, quasi static loads

Fire resistance: R120

Assumed working

life:

50 years

Index Fixing Systems. Técnicas Expansivas S.L.

4. Manufacturer Segador, 13

26006 Logroño, La Rioja, ESPAÑA

5. Authorised representative

No applicable

System of

6. 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

Determination of product type, initial

Performed: 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 payameters		Performance		
IIIStaliat	Installation parameters:		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}	t _{fix} Fixture thickness		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		Performance			
method C			ANCU 6 x 40	ANCU 6 x 70	
All load directions					
F ⁰ _{Rk}	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 ⁰ _{Rk,s}	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			Performance			
C20/25 to C50/60 in any load direction for use in concrete		ANCU 6 x 40	ANCU 6 x 70			
R30	Characteristic resistance	F ⁰ _{Rk,fi30} 1)	[kN]	0,41		
R60	Characteristic resistance	F ⁰ _{Rk,fi60} 1)	[kN]	0,30		
R90	Characteristic resistance	F ⁰ _{Rk,fi90} 1)	[kN]	0,19		
R120	Characteristic resistance	F ⁰ _{Rk,fi120} 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 γM , 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 $c \ge 300$

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:

Santiago Reig. Technical manager

Logroño, 19.02.2018