

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', written in a cursive style.

Santiago Reig. Technical manager
Logroño, 19.02.2018