

Declaration of Performances

DoP HC-en



1. Product type: HC; hollow core slab anchor
2. Identification: HCM06
HCM08
HCM10
3. Intended use:

Generic type:	Torque controlled expansion for multiple use in non-structural applications	
Base material:	Precast prestressed hollow core concrete slabs \geq C40/50	
Material:	Carbon steel, ISO 4042 A2	
Durability:	Dry internal conditions	
Loading:	Static, quasi static loads	
Fire resistance:	FR120	
Assumed working life:	50 years	
4. Manufacturer: Index Fixing Systems. Técnicas Expansivas S.L.
Segador, 13
26006 Logroño, La Rioja, SPAIN
5. Authorised representative: No applicable
6. System of assessment of performance: 1
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:	ETAs 15/0912	
on the basis of:	ETAG 001, parts 1 and 6	
performed:	Determination of product type, initial inspection of the manufacturing plant and continuous surveillance of FPC	
under system:	1	
and issued:	Certificate CE 1219-CPR-0117	
9. Declared performances

Characteristic values of resistance to loads of design method B				Performances		
				M6	M8	M10
All load directions						
F_{Rk}^0	Characteristic resistance in \geq C40/50 prestressed hollow core slab:	$d_b \geq 25; < 30$ mm	[kN]	3,5	5,0	8,0
		$d_b \geq 30; < 40$ mm	[kN]	7,0	10,0	10,0
		$d_b \geq 40$ mm	[kN]	8,5	11,5	14,0
γ_M	Partial safety factor: ¹⁾		[-]	1,8	1,5	1,8
s_{cr}	Characteristic spacing:		[mm]	200	200	200
c_{cr}	Characteristic edge distance:		[mm]	100	100	100
Shear load with lever arm						
$M_{Rk,s}^0$	Characteristic bending moment, steel class 6.8:		[Nm]	9,1	22,5	44,9
γ_{Ms}	Partial safety factor: ¹⁾		[-]	1,25	1,25	1,25
$M_{Rk,s}^0$	Characteristic bending moment, steel class 8.8:		[Nm]	12,2	30,0	59,9
γ_{Ms}	Partial safety factor: ¹⁾		[-]	1,25	1,25	1,25

1) In absence of other national regulations

Characteristic resistance under fire exposure in \geq C40/50 prestressed hollow core slabs for use in non structural applications in concrete				Performances		
				M6	M8	M10
d_b	Minimum slab bottom thickness for fire resistance:	[mm]		30	30	40
Any load direction						
R30	Characteristic resistance $F_{Rk,fi30}^0$:	[kN]		0,20	0,37	0,87
R60	Characteristic resistance $F_{Rk,fi60}^0$:	[kN]		0,18	0,33	0,75
R90	Characteristic resistance $F_{Rk,fi90}^0$:	[kN]		0,14	0,26	0,58
R120	Characteristic resistance $F_{Rk,fi120}^0$:	[kN]		0,10	0,18	0,46
R30 to	Spacing $s_{cr,fi}$:	[mm]		160	160	160
R120	Edge distance $c_{cr,fi}$:	[mm]		80	80	80
Shear load with lever arm						
R30	Characteristic bending moment $M_{Rk,s,fi30}^0$:	[Nm]		0,15	0,38	1,12
R60	Characteristic bending moment $M_{Rk,s,fi60}^0$:	[Nm]		0,14	0,34	0,97
R90	Characteristic bending moment $M_{Rk,s,fi90}^0$:	[Nm]		0,11	0,26	0,75
R120	Characteristic bending moment $M_{Rk,s,fi120}^0$:	[Nm]		0,08	0,19	0,60

- 1) In absence of other national regulations the partial safety factor for resistance under fire exposure $\gamma_{M,fi} = 1,0$ is recommended. Design under fire exposure is according to the design method given in TR020. The design equations are given in TR020, section 2.2.1.
TR020 covers the design for fire exposure from one side. If fire attached is from more than one side, the design method may be taken if edge distance of the anchor is $c \geq 300$ mm.

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, 26.05.2016