# DECLARATION OF PERFORMANCE N° PFL 01A EN



LR ETANCO SAS

Parc les Erables – Bât 1 – 66 route de Sartrouville – BP 49 – 78231 LE PECQ Cedex – France

Tel.: +33 (0)1 34 80 52 00 - Fax: +33 (0)1 30 71 01 89 E-mail: <u>commercial.france@etanco.fr</u> - Web: <u>www.etanco.eu</u>

1. Unique identification code of the product-type:

#### FM-744

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

# ETA-05/0169 Batch number: see packaging of the product

3. Indented use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Generic type and intended use of the product	Torque controlled expansion anchor made of galvanized steel, sizes M6, M8, M10 and M12
For use in	Un-cracked concrete (C20/25 to C50/60 according to EN 206-1:2003)
Option / category	ETAG 001 option 7
Loading	Static and quasi-static
Material	Steel class 8.8 according to EN ISO 898-1 Zinc-plated steel according to EN ISO 4042: Dry internal conditions only
Fire class	A1 according to EN 13501-1

 Name, registred trade name or registred trade mark and contract address of the manufacturer as required pursuant to Article 11(5):

### FRIULSIDER S.p.A. Via Trieste 1 33048 San Giovanni al Natisone (UD) Italy

5. Where applicable name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 (2):

#### Not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

## System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

#### Not relevant

8. In case of the declaration of performance concerning a construction product for which European Technical Assessment has been issued:

CSTB approval body issued ETA-05/0169 on the basis of 'ETAG 001 part 2.

CSTB notified body n°0679 issued according to system 1 the certificate of conformity n° 0679-CPD-0112.

## DECLARATION OF PERFORMANCE N° PFL 01A EN



#### Declared Performances:

				Performance			
Installation parameters			M8	M10	M12		
Nominal diameter of drill bit	[mm]	<b>M6</b> <sup>2)</sup>	14	16	20		
Minimum installation depth	[mm]	40	50	60	80		
Effective anchorage depth	[mm]	34 <sup>2)</sup>	41	50	67		
<u> </u>	[mm]		100	100	135		
Nominal torque moment		6	15	30	50		
•		35	40	50	70		
			40	50	70		
<u> </u>	[]		1				
	[kN]	16	29	46	67		
				0.			
-			·	,,,			
	[kN]	<b>6</b> <sup>2)</sup>	12	17.8 <sup>3)</sup>	<b>27,3</b> 3)		
				-			
<u>-</u>							
		100			200		
	-				100		
Official cage distance							
Increasing factor		*					
ode	11			,55			
	[mm]	200	250	300	400		
					200		
		100					
				,0			
	[kN]	2 9	5.7	8.5	13,0		
			-		1,2		
· · · · · · · · · · · · · · · · · · ·	-			-	1,2		
	[mini]	0,0	0,0	0,0	1,2		
	[kNI]	7.4	14.6	21.5	32,0		
					105		
		12			100		
			-,	<del>,</del> -			
	[-]		1,0		2,0		
Effective anchorage length	[mm]	34	41	50	67		
Nominal diameter of anchor	[mm]	10	14	16	20		
Partial safety factor $(\gamma_{m,c=}\gamma_{m,pr})$	[-]	1,5					
				16.5			
			-	-	18,3		
Short term displacement under shear load  Long term displacement under shear load	[mm]	2,5 4,5	3,3 6,4	2,9 5,6	3,5 6,8		
	Effective anchorage depth  Minimum thickness of the concrete member  Nominal torque moment  Minimum spacing  Minimum edge distance  Ire mode  Tension Steel characteristic failure  Partial safety factor for tension steel failure  Partial safety factor  Partial safety factor  Partial safety factor  Critical spacing  Critical edge distance  Increasing factor  Ode  Critical spacing (splitting)  Critical edge distance(splitting)  Partial safety factor  Fension Load  Service tension load in un-cracked concrete C20/25  Short term displacement under tension load  Long term displacement under tension load  Emode  Shear Steel characteristic failure  Bending Moment characteristic failure  Partial safety factor for shear steel failure  y-out and Edge failure mode  Factor equation (5.6) of ETAG, Annex C, § 5.2.3.3  Effective anchorage length  Nominal diameter of anchor	Effective anchorage depth [mm] Minimum thickness of the concrete member [mm] Nominal torque moment [Nm] Minimum spacing [mm] Minimum edge distance [mm] Minimum edge distance [mm] Minimum edge distance [mm]  Ire mode Tension Steel characteristic failure [**] Partial safety factor for tension steel failure [**] Partial safety factor [**] Partial safety factor [**] Partial safety factor [**] Partial safety factor [**] Critical edge distance [mm] Critical edge distance [mm] Critical spacing (splitting) [mm] Critical edge distance(splitting) [mm] Partial safety factor [**] Fension Load Service tension load in un-cracked concrete C20/25 [kN] Short term displacement under tension load [mm] Long term displacement under tension load [mm] Partial safety factor for shear steel failure [**] Partial safety factor (5.6) of ETAG, Annex C, § 5.2.3.3 [**] Effective anchorage length [mm] Nominal diameter of anchor [mm] Partial safety factor (\( \gamma \), \( \gamma \), \( \gamma \), \( \gamma \) Shear Load Service shear load in concrete [kN]	Effective anchorage depth [mm] 34 ²)  Minimum thickness of the concrete member [mm] 100  Nominal torque moment [Nm] 6  Minimum spacing [mm] 35  Minimum edge distance [mm] 35  Ire mode  Tension Steel characteristic failure [Formal Steel Characteristic failure [Formal Steel Characteristic India in un-cracked concrete [KN] 16  Partial safety factor [Formal Steel Characteristic India in un-cracked concrete [KN] 16  Partial safety factor [Formal Steel Characteristic India in un-cracked concrete [KN] 16  Partial safety factor [Formal Steel Characteristic India in un-cracked concrete [KN] 100  Partial safety factor [Formal Steel Characteristic India in un-cracked Concrete [KN] 100  Partial safety factor [Formal Steel Characteristic India in un-cracked India in un	Effective anchorage depth	Effective anchorage depth		

<sup>1)</sup> In absence of other national regulations; 2) Use restricted to anchoring of structural components statically indeterminated; 3) Pull-out failure not decisive.

We inform you that Friulsider is classified in the EC 1907/2006 Reach Directive as a Downstream-user of substances. The product supplied does not contain substances classified as SVHC according to the Candidate List in a concentration equal or greater than 0.1% (weight / weight). Article 31 is not applicable to the present product.

## DECLARATION OF PERFORMANCE N° PFL 01A EN



10. The performance of the product identified in points 1 and 2 is in conformity with declared performance in the point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and behalf of the manufacturer by:

**Benoit Cheramy** Product Manager

Le Pecq - France, 2013-06-21

