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FASTENING SYSTEMS SYSTEMES DE FIXATION BEFESTIGUNGSSYSTEME SISTEMAS DE FIJACIÓN



DECLARATION OF PERFORMANCE In accordance with Construction Products Regulation n° 305/2011

DoP No. 09/0246

Unique identification code of the product-type:

BCR V PLUS / BCR V PLUS-W / BCR V PLUS-T

2. Type, batch, series number or any other element allowing identification of the construction product in accordance with Article 11(3)

BCR + content in ml + V PLUS. Example BCR 400 V PLUS

3. Intended use or uses of the construction product, in accordance with the relevant harmonized technical specification, as intended by the manufacturer:

Intended use		Chemical anchor for post-installed connections of bars with improved adhesion												
Measures		Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	
	min			,	Accordi	ng to EN	1992-1-1	and EAD	330087-0	1-0601		•		
lv [mm]	max	250*- 400	250*- 500	250*- 600	700	800	1000	1000	1000	1000	1000	1000	1000	
		* Maxin	Maximum lengths valid for drilling with reduced diameter											
Support type and resistance	Normal 206-1.	Normal weight concrete, resistance class from C12/15 minimum to C50/60 maximum in accordance with EN 206-1.												
Condition of the base mate	ial	Cracked and non-cracked concrete.												
Metallic material of the anc and related environmental exposure condition	nor	Straight reinforcing bars with category B or C characteristics according to Annex C of EN 1992-1-1 tables C1 and C2N. Exposure categories from X0 to XA according to EN 206-1.												
Type of load		Static and quasi-static load. Seismic load. Fire resistant. Service life of 50 and 100 years												
Service temperatures		from -40°C to +80°C (max. short-term temperature +80°C and max. long-term continuous temperature +50°C).												
Usage category		Dry and wet concrete, not in flooded holes. Non- carbonated concrete with an allowable chloride content equal to 0.40% (Cl 0.40) relative to the cement content in accordance with EN 206-1. Overhead installation permitted. Drilling with drill and vacuum bits												

4. Name, registered trade name or registered trademark and address of the manufacturer in accordance with Article 11(1). Bossong SpA - via Enrico Fermi 49/51 - 24050 Grassobbio (Bg) - Italy - www.bossong.com

5. Where appropriate, name and address of the authorized representative whose mandate covers the tasks referred to in Article 12(2):

Not applicable

www.bossong.com

Cap.Soc. € 520.000 S.V. € 260.000 P.IVA IT 00227840162 R.E.A. BG n.98000 Iscr.Reg.Impr. BG n. 00227840162 BPU - Banca Popolare di Bergamo Agenzia di Longuelo Via Mattioli, 69 ABI 5428 CAB 11103 C/C 220

IT70 C054 2811 1030 0000 0000 220

Deutsche Bank S.p.A. Sede Bergamo Via Camozzi,82 ABI 3104 CAB 11100 C/C13030

IT 76 J 03104 11100 000000013030









6. System or systems for evaluating and verifying the constancy of performance of the construction product referred to in Annex v

System 1

7. In the case of a declaration of performance relating to a construction product that falls within the scope of a harmonized standard:

Not applicable

8. In the case of a declaration of performance relating to a construction product for which a European technical assessment has been issued:

I ITB released ETA-09/0246 based on EAD 330087-01-0601: Systems for post- installed rebar connection with mortar . ITB ($n^{\circ}1488$) carried out:

determination of the product-type based on type tests (including sampling), type calculations, values taken from tables or descriptive documentation of the product; initial inspection of the manufacturing plant and factory production control; continuous surveillance, evaluation and verification of factory production control, with attestation system 1 and has issued the certificate of conformity n° 1488-CPR-0123/W.

9. . Declared performance:

PECIFICATION	N: EAD3300	87-01-0601	I								
PERFORM	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246										
Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32
8	10	12	14	16	20	22	24	25	28	30	32
10**-12	12**-14	14**-16	18	20	25	26	30	30	35	35	40
			•	•	40 mm ≥ 4	·Ø	•		•		
	(the i	minimum co		40 + 0.06	$ v \ge 2.0 \text{ for}$	or Ø≥25 n	nm	wever be re	espected)		
Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32
max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm}											
max {0,6 · I _{b,rqd} ; 10 Ø; 100 mm}											
max {0.3 α ₆ I _{b,rqd} ; 15 Ø; 200mm}											
			in acc	cordance	with EN 19	92-1-1 pc	int 8.4.3				
Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø22	Ø22 Ø24 Ø25 Ø28 Ø30		Ø30	Ø32	
					1.0						
C12/15	C16/20	C20/2	5 C	25/30	C30/37	C3	5/45	C40/50	C45/	/55	C50/60
1.00	1.00	1.00		1.00	1.00	1.	1.00 1.00		1.00		1.00
1.00	1.00	1.00		1.00	1.00	1.00 1.00 1.00		1.0	0	0,93	
1,00	1,00	1,00		1,00	1,00	1,	,00	1,00	0,9	2	0,93
1,00	1,00	1,00		1,00	1,00	1,	,00	1,00	0,92		0,86
1,00	1,00	1,00		1,00	1,00	1,	,00	0,91	0,8	4	0,79
1.00	1.00	1.00		1.00	0.89	0.	.80	0.73	0.6	7	0.63
	Ø8 8 10**-12 Ø8 Ø8 C12/15 1.00 1,00 1,00 1,00	Ø8 Ø10 8 10 10**-12 12**-14 Ø8 Ø10 Ø8 Ø10 C12/15 C16/20 1.00 1.00 1.00 1.00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	Ø8 Ø10 Ø12 8 10 12 10**-12 12**-14 14**-16 (the minimum colspan="3">(the minimum colspan="3") (the mi	Ø8 Ø10 Ø12 Ø14 8 10 12 14 10**-12 12**-14 14**-16 18 (the minimum concrete colspan="3">(the minimum concrete colspan="3") (the minimu	PERFORMANCE IN ACCORDANCE WITH ETA-09/0 Ø8 Ø10 Ø12 Ø14 Ø16 8 10 12 14 16 10**-12 12**-14 14**-16 18 20 30 + 0.06 40 + 0.06 40 + 0.06 (the minimum concrete cover indical max {0,3 Ø8 Ø10 Ø12 Ø14 Ø16 max {0,3 in accordance in accordance Ø8 Ø10 Ø12 Ø14 Ø16 C12/15 C16/20 C20/25 C25/30 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246 Ø8	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246 Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 8 10 12 14 16 20 22 10***-12 12**-14 14**-16 18 20 25 26 40 mm ≥ 4·Ø 30 + 0.06 I $_{v} \ge 2$ ·Ø for Ø ≥25 m 40 + 0.06 I $_{v} \ge 2$ ·Ø for Ø ≥25 m 40 + 0.06 I $_{v} \ge 2$ ·Ø for Ø ≥25 m 40 + 0.06 I $_{v} \ge 2$ ·Ø for Ø ≥25 m (the minimum concrete cover indicated by EN 1992-1-1 Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 max {0.3 α 6 I b,rqd; 10 Ø; 100 mr max {0.3 α 6 I b,rqd; 15 Ø; 200m in accordance with EN 1992-1-1 pc Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 - 1.00 in accordance with EN 1992-1-1 pc Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 - 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246 Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 Ø24 8 10 12 14 16 20 22 24 10**-12 12**-14 14**-16 18 20 25 26 30 40 mm ≥ 4·Ø 30 + 0.06 I v ≥ 2·Ø for Ø<25 mm 40 + 0.06 I v ≥ 2·Ø for Ø<25 mm 40 + 0.06 I v ≥ 2·Ø for Ø≥25 mm 40 + 0.06 I v ≥ 2·Ø for Ø≥25 mm 40 + 0.06 I v ≥ 2·Ø for Ø≥25 mm 40 + 0.06 I v ≥ 2·Ø for Ø≥21 mm 40 + 0.00 I 1.00 mm}	Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 Ø24 Ø25 8 10 12 14 16 20 22 24 25 10**-12 12**-14 14**-16 18 20 25 26 30 30 40 mm ≥ 4·Ø 30 + 0.06 I $_{v}$ ≥ 2·Ø for Ø 25 mm 40 mm ≥ 4·Ø 40 + 0.06 I $_{v}$ ≥ 2·Ø for Ø 25 mm 40 mm ≥ 4·Ø 30 + 0.06 I $_{v}$ ≥ 2·Ø for Ø 25 mm 60 for Ø 25 mm (the minimum concrete cover indicated by EN 1992-1-1 must however be responsible to the properties of the	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246 Ø8 Ø10 Ø12 Ø14 Ø16 Ø20 Ø22 Ø24 Ø25 Ø28 8 10 12 14 16 20 22 24 25 28 10**-12 12**-14 14**-16 18 20 25 26 30 30 35 40 mm ≥ 4·Ø 30 + 0.06 I v ≥ 2·Ø for Ø Ø25 mm 40 mm ≥ 4·Ø 30 + 0.06 I v ≥ 2·Ø for Ø Ø25 mm 40 + 0.06 I v ≥ 2·Ø for Ø Ø25 mm 40 + 0.06 I v ≥ 2·Ø for Ø Ø25 mm 40 + 0.06 I v ≥ 2·Ø for Ø Ø24 mo Ø25 mm Ø28 Max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 15 Ø; 200mm} max {0,3 · I _{b,rqd} ; 15 Ø; 200mm} max {0,3 · I _{b,rqd} ; 15 Ø; 200mm} max {0,3 · I _{b,rqd} ; 15 Ø; 200mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm} max {0,3 · I _{b,rqd} ; 10 Ø; 100 mm}	PERFORMANCE IN ACCORDANCE WITH ETA-09/0246 Ø8

^{**} Values valid for drilling with reduced diameter.



HARMONIZED TECHNICAL SPECIFICATION: EAD330087-00-0601 – STATIC-QUASI-STATIC CONDITION									
ESSENTIAL FEATURES	PERFORMA	ANCE IN ACC	ORDANCE W	ITH ETA-09/0)246				
* Design adhesion values f bd, PIR according to EN 1992-1-1 [N/mm ²] for 50 and 100 years	C12/15	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø8 to Ø14	1.60	2.00	2.30	2.70	3.00	3.40	3.70	4.00	4.30
Ø16 a Ø20	1.60	2.00	2.30	2.70	3.00	3.40	3.70	4.00	4.00
Ø22	1.60	2.00	2.30	2.70	3.00	3.40	3.70	3,70	4,00
Ø24 a Ø25	1,60	2,00	2,30	2,70	3,00	3,40	3,70	3,70	3,70
Ø28	1,60	2,00	2,30	2,70	3,00	3,40	3,40	3,40	3,40
Ø30 a Ø32	1,60	2,00	2,30	2,70	2,70	2,70	2,70	2,70	2,70

^{*} Values valid only for good adhesion conditions as described in EN 1992-1-1. For other adhesion conditions multiply the values by 0.7

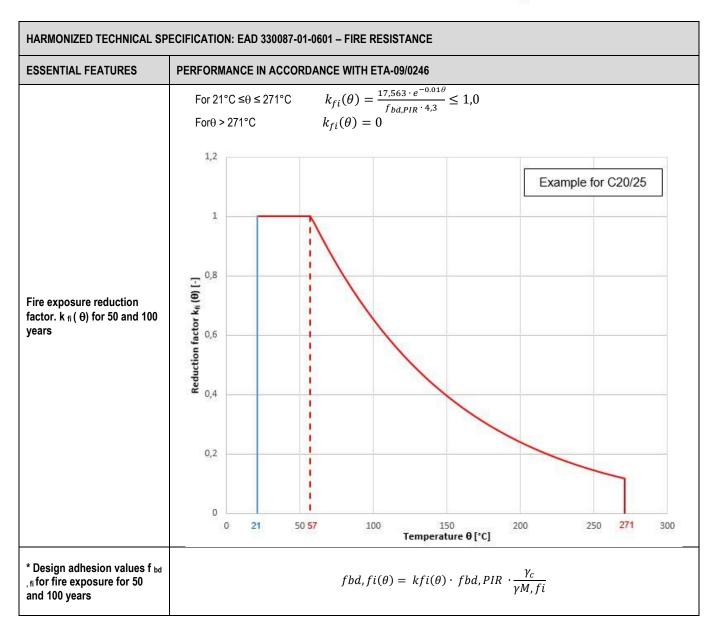
HARMONIZED TECHNICAL SE	PECIFICAT	ION: E	EAD330087-01	1-0601												
ESSENTIAL FEATURES	PERFOR	MANO	CE IN ACCOR	DANCE W	ITH E	ETA-(09/0246									
Amplification factor for classes. C12/15 to C50/60 for 50 and 100 years in case of seismic action	Ø8	Ø10	0 Ø12	Ø14	Ø.	16	Ø20	Ø22	Ø2	24	Ø25	Ø28	Ø3	30	Ø32	
Clb,seis		1.0														
Adhesion efficiency factor k b,seis for 50 and 100 years	C16/20)	C20/25	C25/3	0	(30/37	C35/4	5	С	40/50	C45/5	5	С	50/60	
Ø12 to Ø25	1.00		1.00	0.85		1.00 0.85		0.77	0.68		0.62		0.58			0.53
Ø28 to Ø32	1.00		0.87	0.74			0.67	0.59			0.54	0.50			0.47	

HARMONIZED TECHNICAL SE	PECIFICATION:	EAD330087-01	-0601 – SEISM	IIC CONDITION				
ESSENTIAL FEATURES	PERFORMAN	ICE IN ACCOR	DANCE WITH E	ETA-09/0246				
* Design adhesion values f bd, seis according to EN 1992-1-1 [N/mm ²] for 50 and 100 years	C16/20	C20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
Ø12 to Ø25	2.00	2.30	2.30	2.30	2.30	2.30	2.30	2.30
Ø25 to Ø32	-2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

^{*} Values valid only for good adhesion conditions as described in EN 1992-1-1. For other adhesion conditions multiply the values by 0.7

HARMONIZED TECHNICAL SPECIFICATION: EAD 330087-01-0601					
ESSENTIAL FEATURES	PERFORMANCE				
Reaction to fire	In the final application the layer thicknesses of product are approximately 1 ÷ 2 mm and most of these products are classified in class A1 according to decision THERE IS 96/603/EC. Therefore one can assume that the material binder (resin synthetic or a mixture of synthetic resin and cementitious) in connection with the metal anchor, in use final application, Not makes any contribution to the development of fire or to a fire fully developed and it hasn't no influence on the risk of smoke development.				







LEGEN	D OF SYMBOLS
OR	Improved grip bar nominal diameter
d ₀	Hole diameter
lv	Effective anchoring depth
to	Minimum net distance between two post-installed bars
C min	Minimum concrete cover
I _{b,min}	Minimum bar anchoring depth
I _{0,min}	Minimum bar overlap depth
I _{b,rqd}	Basic anchor length required
α_{lb}	Amplification factor
kь	Membership efficiency factor
γc	Concrete safety factor
γM,fi	Safety factor for exceptional actions.
f	Adherence to the project in case of static action.
bd,PIR	
θ	temperature
k _{fi} (Reduction coefficient for fire prevention actions.
θ)	
f _{bd,fi}	Adherence to the project in case of fire resistance.

REACH Regulation n°1907/2006

Esteemed customer,

We inform you that our company within the REACH regulation supply chain is classified as a downstream user of substances and preparations.

Regarding the product defined in point 1, we want to confirm that it does not currently contain substances considered SVHC based on the list published at:

http://echa.europa.eu/chem_data/candidate_list_table_en.asp.

The product safety data sheet can be requested from our technical office: tek@bossong.com or tek3@bossong.com and can be downloaded from our website www.bossong.com.

10. The performance of the product referred to in points 1 and 2 is in conformity with the declared performance referred to in point 9.

This declaration of performance is issued under the exclusive responsibility of the manufacturer referred to in point 4. Signed for and on behalf of:

Name and Cargo	Place and date of issue	Signature				
Andrea Taddei Director General	Grassobbio (Bg) - Italy 21.07.2025	And on Colle				

Note: This DoP replaces the previous version dated 18.01.2023

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