



DECLARATION OF PERFORMANCE
According to Construction Product Regulation n° 305/2011

DoP N°11/0345

1. Unique identification code of the product-type:

BCR EPOXY 21

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

CODE	ITEM	BARCODE
747646	BCR 900 EPOXY 21	8034013853430
747644	BCR 470 EPOXY 21	8057288741127
747640	BCR 400 EPOXY 21	8034013850170
747265	BCR 265 EPOXY 21	8034013853416

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

Generic type and use	Chemical anchor for post-installed rebar connections								
Size covered	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø28	Ø32
lv [mm]	min	in accordo a EN 1992-1-1 e TECHNICAL REPORT TR023							
	max	700	900	1100	1300	1400	1800	2200	2500
	Intermediate depths are included								
Base material and strength class	Normal weight concrete of a minimum grade C12/15 and maximum grade C50/60 according to EN 206-1.								
Base material condition	Cracked and non-cracked concrete.								
Anchor metal material and corresponding environmental exposure	Straight reinforced bars category B or C according to Annex C of EN 199-1-1 table C1 and C2N. Exposure category from X0 to XA according to EN 206-1.								
Type of loading	Static or quasi-static loading. Fatigue, dynamic or seismic loading of post-installed rebar connections are not covered. The fire resistance of the post-installed rebar connections is not covered.								
Service temperature range	-40°C to +80°C (max. short term temperature +80°C and max. long term temperature +50°C).								
Use category	Dry and wet concrete, not flooded hole. Non-carbonated concrete with the allowable chloride content of 0,40% (Cl 0,40) related to the cement content according to EN 206-1. Overhead installation is allowed. Perforation with hammer drilling machine and diamond drilling machine (dry and wet cutting system).								

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

Bossong S.p.A. - via Enrico Fermi 49-51- 24050 Grassobbio (Bg) - Italy - www.bossong.com

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

Not applicable

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 applicable

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

ETA-Danmark A/S issued ETA-11/0345 on the basis of ETAG 001 part 5 and TECHNICAL REPORT TR023.

IFBT (n°1109) performed:

the determination of the product type on the basis of type testing (including sampling), type calculation, tabulated values or descriptive documentation of the product; the initial inspection of the factory and of the factory production control; the continuous surveillance; assessment and approval of the factory production control; under system 1 and issue the certificate of conformity n° B-1109-CPR-0083.

9. Declared performance:

HARMONIZED TECHNICAL SPECIFICATION: ETAG 001 PART 5 – TECHNICAL REPORT TR023

ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-11/0345								
Installation parameters	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø28	Ø32
Ø [mm]	8	10	12	14	16	20	25	28	32
d ₀ [mm]	12	14	16	18	20	25	30	35	40
a [mm]	40 mm ≥ 4·Ø								
C _{min} [mm]	30 + 0,06 l _v ≥ 2·Ø for Ø < 25 mm 40 + 0,06 l _v ≥ 2·Ø for Ø ≥ 25 mm (the minimum concrete cover according to EN 1992-1-1 must be observed)								
Profondità di ancoraggio	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø28	Ø32
l _{b,min} [mm] under tensile	max {0,3 · l _{b,req} ; 10 Ø; 100 mm}								
l _{b,min} [mm] under compression	max {0,6 · l _{b,req} ; 10 Ø; 100 mm}								
l _{0,min} [mm]	max {0,3 α ₆ l _{b,req} ; 15 Ø; 200 mm}								
l _{b,req} [mm]	according to EN 1992-1-1 point 8.4.3								
* Design bond strength f_{bd} according to EN 1992-1-1 [N/mm²] for perforation with hammer drilling machine	C12/15	C16/20	20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
from Ø8 to Ø28	1,60	2,00	2,30	2,70	3,00	3,40	3,70	4,00	4,30
Ø32	1,60	2,00	2,30	2,70	3,00	3,40	3,70	4,00	4,00
* Design bond strength f_{bd} according to EN 1992-1-1 [N/mm²] for perforation with diamond drilling machine (dry and wet cutting system)	C12/15	C16/20	20/25	C25/30	C30/37	C35/45	C40/50	C45/55	C50/60
from Ø8 to Ø25	1,60	2,00	2,30	2,70	3,00	3,40	3,70	4,00	4,30
Ø28	1,60	2,00	2,30	2,70	3,00	3,40	3,70	3,70	3,70
Ø32	1,60	2,00	2,30	2,70	3,00	3,00	3,00	3,00	3,00

* Values valid only for good bond condition according to EN 1992-1-1. For other bond conditions multiply the values for 0,7

HARMONIZED TECHNICAL SPECIFICATION: ETAG 001 PART 1 PARAGRAPH 5.2.1

ESSENTIAL CHARACTERISTICS	PERFORMANCE
Reaction to fire	In the final application the thickness of the mortar layer is about 1 to 2 mm and most of the mortar is material classified class A1 according to EC Decision 96/603/EC. Therefore it may be assumed that the bonding material (synthetic mortar or a mixture of synthetic mortar and cementitious mortar) in connection with the metal anchor in the end use application do not make any contribution to fire growth or to the fully developed fire and they have no

	influence to the smoke hazard.
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HARMONIZED TECHNICAL SPECIFICATION: ETAG 001 PART 1 PARAGRAPH 5.2.2 AND TECHNICAL REPORT TR020	
ESSENTIAL CHARACTERISTICS	PERFORMANCE
Resistance to fire	NPD

TERMINOLOGY AND SYMBOLS	
Ø	Nominal diameter of the reinforced bar
d ₀	Drill hole diameter
lv	Setting depth
a	Minimum clear spacing between two post-installed rebar
c _{min}	Minimum concrete cover
l _{b,min}	Minimum anchorage length
l _{0,min}	Minimum overlap joint length
l _{b,reqd}	Required basic anchorage length
NPD	No declared performance

Regolamento REACH n°1907/2006

Estimate customer,

We inform you that in the REACH supply chain our company is classified as DU: Downstream-user.

About the product detailed in the point 1 we confirm you that we don't use in our production substances classified as SVHC according to the Candidate List published on ECHA site web:

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

You can require the safety data sheet of the product to our technical department: tek@bossong.com or you can download the document from our web site www.bossong.com.

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 for and on behalf of the manufacturer by:		
Name and function	Place and date of issue	Signature
Andrea Taddei General Manager	Grassobbio (Bg) - Italy 12.01.2015	

Note: this DoP replace the previous version dated 18.02.2014.