

	DECLARATION OF PERFORMANCE According to Construction Product Regulation n° 305/2011
	DoP N°21/0450

1. Unique identification code of the product-type:
JB-CE / JBB-CE

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):		
Example	CODE 940363	ITEM JB-CE 8x30

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:
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Generic type and use	Deformation-controlled expansion anchors for multiple use for non-structural applications in concrete					
Size covered	M6	M8	M10x30	M10x40	M12	M12-B
Sleeve diameter [mm]	8	10	12	12	15	16
Sleeve length [mm]	25	30	30	40	50	50
Base material and strength class	Reinforced or unreinforced normal weight concrete of strength class C20/25 at minimum to C50/60 at maximum according to EN 206-1.					
Base material condition	Cracked and Non-cracked concrete.					
Anchor metal material and corresponding environmental exposure	Carbon galvanized steel for dry internal conditions.					
Type of loading	Static and quasi-static loads. Anchorages with requirements related to fire resistance					

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 2+

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:

ITB issued ETA-21/0450 with issued date 21/5/2021 on the basis of EAD 330747-00-0601

ITB (n°1488) 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 2+ and issue the certificate of conformity

9. Declared performance:
HARMONIZED TECHNICAL SPECIFICATION: EAD 330747-00-0601

ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-21/0450					
Installation parameters	M6	M8	M10x30	M10x40	M12	M12-B
d ₀ [mm]	8	10	12	12	15	16
d _{fix} [mm]	7	9	12	12	14	14
h _{ef} [mm]	25	30	30	40	50	50
h ₁ [mm]	28	33	33	43	54	54
h _{min} [mm]	80	80	80	80	100	100
T _{inst} [Nm]	4	8	15	15	35	35
S _{min} [mm]	200	200	200	200	200	200
C _{min} [mm]	150	150	150	150	150	150
S _{cr} [mm]	200	200	200	200	200	200
C _{cr} [mm]	150	150	150	150	150	150
γ _{inst} [-]	1,40					
Characteristic resistance in concrete C20/25 to C50/60	M6	M8	M10x30	M10x40	M12	M12-B
F _{Rk} [kN]	1,5	2,0	3,0	3,0	4,0	5,0
γ _{inst} [-]	1,40					
Resistance for shear load Resistance for steel failure with lever-arm	M6	M8	M10x30	M10x40	M12	M12-B
M ⁰ _{Rk,s} [Nm] Steel 4.6	6,1	15,0	29,9	29,9	52,4	52,4
M ⁰ _{Rk,s} [Nm] Steel 4.8	6,1	15,0	29,9	29,9	52,4	52,4
M ⁰ _{Rk,s} [Nm] Steel 5.8	7,6	18,8	37,4	37,4	65,6	65,6
M ⁰ _{Rk,s} [Nm] Steel 6.8	9,2	22,5	44,9	44,9	78,7	78,7
M ⁰ _{Rk,s} [Nm] Steel 8.8	12,2	30,0	59,9	59,9	104,9	104,9

HARMONIZED TECHNICAL SPECIFICATION: EAD 330747-00-0601

ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ETA-21/0450					
Fire resistance class	M6	M8	M10x30	M10x40	M12	M12-B
R30	0,2	0,5	0,8	0,8	1,0	1,3
R60	0,2	0,5	0,8	0,8	1,0	1,3
R90	0,1	0,4	0,8	0,8	1,0	1,1
R120	0,1	0,3	0,6	0,6	0,8	0,8
Spacing	S _{cr,fi} [mm]	4 x h _{ef}				
Edge distance	C _{cr,fi} [mm]	2 x h _{ef}				

TERMINOLOGY AND SYMBOLS	
d_{nom}	Diameter of anchor bolt or thread diameter
d_0	Drill hole diameter
d_{fix}	Diameter of clearance hole in the fixture
h_{ef}	Effective anchorage depth
h_1	Depth of the drilling hole
h_{min}	Minimum thickness of concrete member
T_{inst}	Torque moment to installation
S_{rc}	Characteristic spacing
C_{cr}	Characteristic edge distance
S_{min}	Minimum allowable spacing
C_{min}	Minimum allowable edge distance
F_{Rk}	Characteristic resistance for all directions
$F_{Rk,fi}$	Characteristic fire resistance for all directions
$M^0_{Rk,s}$	Characteristic bending resistance of an individual anchor
γ_{inst}	Partial safety factors for installation

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 19.07.2021	