	DECLARATION OF PERFORMANCE According to Construction Product Regulation n° 305/2011
	DoP N°12

1. Unique identification code of the product-type:
VLS

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):
VLS x nominal diameter total length/threaded length

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		Self drilling screw for use in load bearing timber structures			
Size covered		Ø5	Ø6	Ø8	Ø10
L [mm]	Min.	20	40	50	50
	Max.	120	300	400	400
Anchor metal material and corresponding environmental exposure		Carbon steel. Zinc plated. Service Class 1 according to EN 1995-1-1.			

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 3

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:
The Initial Type Testing (ITT) has been done by STROJÍRENSKÝ ZKUŠEBNÍ ÚSTAV, Brno, Czech Republic (NB n°1015). The test reports are: n° 30-9896/6 for Ø 5 mm, n° 30-9865/1 for Ø 6 mm, n° 30-9865/2 for Ø 8 mm; n° 30-9865/3 for Ø 10 mm


9. Declared performance:

HARMONIZED TECHNICAL SPECIFICATION: EN 14592:2008+A1:2012				
ESSENTIAL CHARACTERISTICS	PERFORMANCE ACCORDING TO ITT: n° 30-9896/6 for Ø 5 mm n° 30-9587/1 for Ø 6 mm, n° 30-9587/2 for Ø 8 mm; n° 30-9587/3 for Ø 10 mm Design according to EN 1995-1-1			
	Ø5	Ø6	Ø8	Ø10
Nominal diameter d [mm]	6819	12322	30403	46228
Characteristic yield moment $M_{y,k}$ [Nmm]	16,85	17,38	13,22	15,69
Characteristic withdrawal parameter $f_{ax,k}$, loading across the fibre	Characteristic density of wood $\rho_k = 430 \text{ kg/m}^3$ [N/mm ²]	Characteristic density of wood $\rho_k = 410 \text{ kg/m}^3$ [N/mm ²]	Characteristic density of wood $\rho_k = 420 \text{ kg/m}^3$ [N/mm ²]	Characteristic density of wood $\rho_k = 420 \text{ kg/m}^3$ [N/mm ²]
Characteristic head pull-through parameter $f_{head,k}$	21,79 Characteristic density of wood $\rho_k = 430 \text{ kg/m}^3$ [N/mm ²]	23,49 Characteristic density of wood $\rho_k = 525 \text{ kg/m}^3$ [N/mm ²]	28,36 Characteristic density of wood $\rho_k = 555 \text{ kg/m}^3$ [N/mm ²]	30,58 Characteristic density of wood $\rho_k = 565 \text{ kg/m}^3$ [N/mm ²]
Characteristic tensile capacity $f_{tens,k}$ [kN]	9,66	11,24	24,58	31,98
Characteristic torsional ratio $f_{tor,k}/R_{tor,k}$	2,76 > 1,5 Characteristic density of wood $\rho_k = 450 \text{ kg/m}^3$ [N/mm ²]	3,25 > 1,5 Characteristic density of wood $\rho_k = 450 \text{ kg/m}^3$ [N/mm ²]	2,96 > 1,5 Characteristic density of wood $\rho_k = 450 \text{ kg/m}^3$ [N/mm ²]	3,14 > 1,5 Characteristic density of wood $\rho_k = 450 \text{ kg/m}^3$ [N/mm ²]
Durability	Zinc plated (Service class 1 according to EN 1995-1-1)			

HARMONIZED TECHNICAL SPECIFICATION: EN 13501-1

ESSENTIAL CHARACTERISTICS	PERFORMANCE
Reaction to fire	Class A1

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 11.11.2016	

Note: this DoP replace the previous version dated 23.06.2015.