

**Declaration of Performance
DoP TB-en**



1. Product type: TB Coach screws

2. Identification:	TB	Coach screw
	TBR	Coach screw, full thread
	TBA2	Coach screw, A2 stainless steel
	INVZ	Coach screw, inviolable head
	INVN	Coach screw inviolable head, black zinc plated
	INVA2	Coach screw inviolable head, A2 stainless steel
	Codes:	
	TBXXXX	
	TBRXXXX	
	TBA2XXXX	XX: screw diameter
	INVZXXXX	YYY: screw length
	INVNXXXX	
	INVA2XXXX	

3. Intended use: Load bearing timber structures

4. Manufacturer: Index Fixing Systems. Técnicas Expansivas S.L.
Segador 13
26006 Logroño SPAIN

5. Authorised representative: Not applicable

6. System of assessment of performance: 3

7. Harmonised standard: Notified body: Strojírenský zkušební ústav, s. p. (SZÚ). Notified body no 1015
performed: Determination of product type
under system: 3
and issued: Test reports E-30-20533-13 to E-30-20544-13

8. European technical assessment: Not applicable

9. Declared performance:

	Essential characteristics	Version	Performance								
			Units	Ø 5	Ø 6	Ø 7	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16
9.1.	Characteristic yield moment $M_{y,k}$	Zinc plated	[Nmm]	5984	10749	18047	24131	49056	81096	129198	181829
		A2 stainless steel		---	14180	19396	29081	---	---	---	---
9.2.	Characteristic withdrawal parameter $f_{ax,k}$ with $\rho_k = 450 \text{ kg/m}^3$	Zinc plated	[N/mm ²]	9,31	7,73	10,33	6,72	6,71	7,62	7,05	6,76
		A2 stainless steel		---	8,00	11,14	7,30	---	---	---	---
9.3.	Characteristic head pull-through parameter $f_{head,k}$ with $\rho_k = 450 \text{ kg/m}^3$	Zinc plated HEX	[N/mm ²]	26,42	24,90	24,74	22,55	21,37	20,15	20,23	20,35
		Zinc plated INV		---	19,43	19,39	---	---	---	---	---
		A2 stainless steel		---	24,77	23,03	22,25	---	---	---	---
9.4.	Characteristic tensile capacity $f_{tens,k}$	Zinc plated	[kN]	5,20	7,40	9,10	11,80	18,90	34,20	45,20	46,30
		A2 stainless steel		---	12,81	16,20	18,55	---	---	---	---
9.5.	Characteristic strength in torsion $f_{tor,k}$	Zinc plated	[-]	4,56	6,88	14,07	19,24	40,13*	74,61*	121,20*	175,37*
		A2 stainless steel		---	9,60	16,55	25,06	---	---	---	---
9.6.	Characteristic torsional resistance into timber $R_{tor,k}$	Zinc plated	[-]	1,31	2,82	4,89	7,85	13,08*	20,96*	34,74*	51,23*
		A2 stainless steel		---	2,56	8,18	5,00	---	---	---	---
9.6.	Corrosion protection	Zinc plated/black	[-]	Service class 2 according EN 1995-1-1							
		A2 stainless steel		Service class 3 according EN 1995-1-1							

(*) The holes were predrilled
Harmonised technical specification: EN 14592:2008 + A1:2012

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 on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read 'S. Reig', written in a cursive style.

Santiago Reig. Technical manager
Logroño. 03.09.2019