DICHIARAZIONE DI PRESTAZIONE

DoP_19-0553_01 (IT)

1. Codice di identificazione unico del prodotto-tipo:
Viti HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC

2. Numero di tipo, lotto, serie o qualsiasi altro elemento che consenta l'identificazione del prodotto da costruzione ai sensi dell'articolo 11, paragrafo 4:

Identificazione del prodotto in acc. a Allegato A del Benestare ETA-19/0553

3. Uso previsto del prodotto da costruzione in accordo alla specifica tecnica armonizzata:

ETA-19/0553 Capitolo 1

Oggetto dell'omologazione	Viti HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC
Diametro	3,5 mm; 4,0 mm; 4,5 mm; 5,0 mm; 6,0/6,5 mm; 8,0/8,5 mm; 10,0 mm
Uso	Viti autofilettanti come mezzi di giunzione per legno
Carichi	Carico prevalentemente statico o quasi statico
Campo di applicazione	Viti zincate Classe di utilizzo 1 - 2 in base a Eurocode 5
	Viti in acciaio inox Classe di utilizzo 3 in base a Eurocode 5

4. Nome, denominazione commerciale e indirizzo del fabbricante ai sensi dell'articolo 11, paragrafo 5:

HECO-Schrauben GmbH & Co. KG
Dr.-Kurt-Steim-Str. 28
78713 Schramberg (Germania)

5. Sistema o sistemi di valutazione e verifica della costanza della prestazione del prodotto da costruzione di cui all'allegato V:

Sistema 3

6. Nel caso di una dichiarazione di prestazione relativa ad un prodotto da costruzione per il quale è stata rilasciata una valutazione tecnica europea:

ETA-19/0553 rilasciato da ETA-Danmark A/S sulla base di **EAD 130118-01-0603**

7. Prestazione dichiarata

Tabelle 1.1: HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC screws made of carbon steel without MagicClose

	Characteristic			HECO-TOPIX-plus screws							HECO-TOPIX-plus-CC screws		HECO-TOPIX-plus-T screws	
			Screws Ø	3,5	4,0	4,5	5,0	6,0	8,0	10,0	6,0/6,5	8,0/8,5	8,0	10,0
Mechanical resistance and stability (BWR 1)														
1	$l, l_g, d_1, d, d_s, d_{head}, p$		[mm]	according to ETA-19/0553 Annex A										
2	$M_{y,k}$	ETA-19/0553 chapter 3.9	[Nm]	2,3	2,8	4,5	5,9	9,5	20,0	36,0	9,5	20,0	20,0	36,0
3	α_{bend}	ETA-19/0553 chapter 1	[°]	39	37	36	35	33	30	29	32	30	30	29
4a	$f_{ax,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	13,7	13,7	13,7	11,8	11,8	11,8	11,8	12,5	12,5	10,5	10,5
4b	$f_{ax,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	-	35,0	35,0	35,0	30,0	-	-	-	-
4c	$f_{ax,k}$ Particle Board, OSB	ETA-19/0553 chapter 3.9	[N/mm²]	-	10,0	10,0	10,0	10,0	-	-	-	-	-	-
5a	$f_{head,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 14,0 N/mm² for d_h < 23 mm; $f_{head,k}$ = 9,4 N/mm² for 23 mm < d_h < 35 mm										
5b	$f_{head,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 32,0 N/mm² for d_h < 35 mm										
6	$f_{tens,k}$	ETA-19/0553 chapter 3.1	[kN]	3,8	4,7	6,4	7,9	11,3	20,0	30,0	10,0	18,0	20,0	25,0
7	$R_{0,2,k}$		[Nmm²]	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8	$f_{tor,k}$	ETA-19/0553 chapter 3.1	[Nm]	2,2	2,9	4,5	6,5	11,0	25,0	42,0	10,0	23,0	24,0	42,0
9	$R_{tor,mean}$	ETA-19/0553 chapter 3.1	[Nm]	1,5	1,9	3,0	4,3	7,3	16,7	28,0	6,7	15,3	16,0	28,0
10	a_1; a_2; $a_{1,CG}$; $a_{2,CG}$	ETA-19/0553 Annex B	[mm]	according to ETA-19/0553 Annex B										
11	K_{ser}	ETA-19/0553 chapter 3.9	[N/mm]	Softwood: K_{ser} = 25 x d x l_{ef}; Hardwood: K_{ser} = 30 x d x l_{ef}										
12	Corrosion protection	ETA-19/0553 chapter 3.10		Table 2										
Safety in case of fire (BWR 2)														
13		ETA-19/0553 chapter 3.2		Class A1										
Safety and accessibility in use (BWR 4)														
14				-										

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Sitz Schramberg, Amtsgericht Stuttgart HRB 480374
Geschäftsführer: Guido Hettich, Achim Carstanjen
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Bankverbindungen	BLZ	Konto-Nr.	S.W.I.F.T.-Code	I.B.A.N.-Code
Kreissparkasse Rottweil	642 500 40	556509	SOLADES1RWL	DE90642500400000556509
Volksbank Schwarzwald-Donau-Neckar	643 199 30	621998001	GENODES1TUT	DE23643901300621998001
Deutsche Postbank	600 100 70	13570700	PBNKDEFF600	DE07600100700013570700
Commerzbank VS-Villingen	694 400 07	1571629	COBADEFF694	DE75694400070157162900

Tabelle 1.2: HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC screws made of carbon steel with MagicClose

	Characteristic			HECO-TOPIX-plus screws							HECO-TOPIX-plus-CC screws		HECO-TOPIX-plus-T screws	
			Screws Ø	3,5	4,0	4,5	5,0	6,0	8,0	10,0	6,0/6,5	8,0/8,5	8,0	10,0
Mechanical resistance and stability (BWR 1)														
1	$l, l_g, d_1, d, d_s, d_{head}, p$		[mm]	according to ETA-19/0553 Annex A										
2	$M_{y,k}$	ETA-19/0553 chapter 3.9	[Nm]	2,3	2,8	4,5	5,9	9,5	-	-	-	-	-	-
3	α_{bend}	ETA-19/0553 chapter 1	[°]	39	37	36	35	33	-	-	-	-	-	-
4a	$f_{ax,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	11,8	11,8	11,8	11,8	11,8	-	-	-	-	-	-
4b	$f_{ax,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	-	-	-	-	-	-	-	-	-
4c	$f_{ax,k}$ Particle Board, OSB	ETA-19/0553 chapter 3.9	[N/mm²]	-	10,0	10,0	10,0	10,0	-	-	-	-	-	-
5a	$f_{head,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 14,0 N/mm² for d_h < 23 mm; $f_{head,k}$ = 9,4 N/mm² for 23 mm < d_h < 35 mm										
5b	$f_{head,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 32,0 N/mm² for d_h < 35 mm										
6	$f_{tens,k}$	ETA-19/0553 chapter 3.1	[kN]	3,4	4,4	5,6	7,9	11,3	-	-	-	-	-	-
7	$R_{0,2,k}$		[Nmm²]	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8	$f_{tor,k}$	ETA-19/0553 chapter 3.1	[Nm]	2,1	2,9	4,5	6,2	11,0	-	-	-	-	-	-
9	$R_{tor,mean}$	ETA-19/0553 chapter 3.1	[Nm]	1,4	1,9	3,0	4,1	7,3	-	-	-	-	-	-
10	a_1; a_2; $a_{1,CG}$; $a_{2,CG}$	ETA-19/0553 Annex B	[mm]	according to ETA-19/0553 Annex B										
11	K_{ser}	ETA-19/0553 chapter 3.9	[N/mm]	Softwood: K_{ser} = 25 x d x l_{ef}; Hardwood: K_{ser} = 30 x d x l_{ef}										
12	Corrosion protection	ETA-19/0553 chapter 3.10		Table 2										
Safety in case of fire (BWR 2)														
13		ETA-19/0553 chapter 3.2		Class A1										
Safety and accessibility in use (BWR 4)														
14				-										

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Volksbank Schwarzwald-Donau-Neckar	643 199 30	621998001	GENODES1TUT	DE23643901300621998001
Deutsche Postbank	600 100 70	13570700	PBNKDEFF600	DE07600100700013570700
Commerzbank VS-Villingen	694 400 07	1571629	COBADEFF694	DE75694400070157162900

Tabelle 1.3: HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC screws made of stainless steel without MagicClose

	Characteristic			HECO-TOPIX-plus screws							HECO-TOPIX-plus-CC screws		HECO-TOPIX-plus-T screws	
			Screws Ø	3,5	4,0	4,5	5,0	6,0	8,0	10,0	6,0/6,5	8,0/8,5	8,0	10,0
Mechanical resistance and stability (BWR 1)														
1	$l, l_g, d_1, d, d_s, d_{head}, p$		[mm]	according to ETA-19/0553 Annex A										
2	$M_{y,k}$	ETA-19/0553 chapter 3.9	[Nm]	1,9	2,8	3,4	4,4	7,1	17,0	30,0	-	-	15,0	27,0
3	α_{bend}	ETA-19/0553 chapter 1	[°]	39	37	36	35	33	30	29	-	-	30	29
4a	$f_{ax,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	13,7	13,7	13,7	11,8	11,8	11,8	11,8	-	-	11,8	11,8
4b	$f_{ax,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	-	35,0	35,0	35,0	30,0	-	-	-	-
4c	$f_{ax,k}$ Particle Board, OSB	ETA-19/0553 chapter 3.9	[N/mm²]	-	10,0	10,0	10,0	10,0	-	-	-	-	-	-
5a	$f_{head,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 14,0 N/mm² for d_h < 23 mm; $f_{head,k}$ = 9,4 N/mm² for 23 mm < d_h < 35 mm										
5b	$f_{head,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 32,0 N/mm² for d_h < 35 mm										
6	$f_{tens,k}$	ETA-19/0553 chapter 3.1	[kN]	2,9	3,8	4,8	5,9	7,5	15,0	22,0	-	-	14,0	22,0
7	$R_{0,2,k}$		[Nmm²]	NPD	NPD	NPD	NPD	NPD	NPD	NPD	-	-	NPD	NPD
8	$f_{tor,k}$	ETA-19/0553 chapter 3.1	[Nm]	2,0	2,9	3,5	5,0	7,0	19,0	35,0	-	-	18,0	37,0
9	$R_{tor,mean}$	ETA-19/0553 chapter 3.1	[Nm]	1,3	1,9	2,3	3,3	4,7	12,7	23,3	-	-	12,0	24,7
10	a_1; a_2; $a_{1,CG}$; $a_{2,CG}$	ETA-19/0553 Annex B	[mm]	according to ETA-19/0553 Annex B										
11	K_{ser}	ETA-19/0553 chapter 3.9	[N/mm]	Softwood: K_{ser} = 25 x d x l_{ef}; Hardwood: K_{ser} = 30 x d x l_{ef}										
12	Corrosion protection	ETA-19/0553 chapter 3.10		Table 2										
Safety in case of fire (BWR 2)														
13		ETA-19/0553 chapter 3.2		Class A1										
Safety and accessibility in use (BWR 4)														
14				-										

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Commerzbank VS-Villingen	694 400 07	1571629	COBADEFF694	DE75694400070157162900

Tabelle 1.4: HECO-TOPIX-plus, HECO-TOPIX-plus-T, HECO-TOPIX-plus-CC Screws made of stainless steel with MagicClose

	Characteristic			HECO-TOPIX-plus screws							HECO-TOPIX-plus-CC screws		HECO-TOPIX-plus-T screws	
			Screws Ø	3,5	4,0	4,5	5,0	6,0	8,0	10,0	6,0/6,5	8,0/8,5	8,0	10,0
Mechanical resistance and stability (BWR 1)														
1	$l, l_g, d_1, d, d_s, d_{head}, p$		[mm]	according to ETA-19/0553 Annex A										
2	$M_{y,k}$	ETA-19/0553 chapter 3.9	[Nm]	-	-	3,7	4,9	-	-	-	-	-	-	-
3	α_{bend}	ETA-19/0553 chapter 1	[°]	-	-	36	35	-	-	-	-	-	-	-
4a	$f_{ax,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	11,8	11,8	-	-	-	-	-	-	-
4b	$f_{ax,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	-	-	-	-	-	-	-	-	-
4c	$f_{ax,k}$ Particle Board, OSB	ETA-19/0553 chapter 3.9	[N/mm²]	-	-	10,0	10,0	-	-	-	-	-	-	-
5a	$f_{head,k}$	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 14,0 N/mm² for d_h < 23 mm; $f_{head,k}$ = 9,4 N/mm² for 23 mm < d_h < 35 mm										
5b	$f_{head,k}$ LVL Buche,Träger BauBuche GL75	ETA-19/0553 chapter 3.9	[N/mm²]	$f_{head,k}$ = 32,0 N/mm² for d_h < 35 mm										
6	$f_{tens,k}$	ETA-19/0553 chapter 3.1	[kN]	-	-	5,3	7,4	-	-	-	-	-	-	-
7	$R_{0,2,k}$		[Nmm²]	-	-	NPD	NPD	-	-	-	-	-	-	-
8	$f_{tor,k}$	ETA-19/0553 chapter 3.1	[Nm]	-	-	4,1	6,0	-	-	-	-	-	-	-
9	$R_{tor,mean}$	ETA-19/0553 chapter 3.1	[Nm]	-	-	2,7	4,0	-	-	-	-	-	-	-
10	a_1; a_2; $a_{1,CG}$; $a_{2,CG}$	ETA-19/0553 Annex B	[mm]	according to ETA-19/0553 Annex B										
11	K_{ser}	ETA-19/0553 chapter 3.9	[N/mm]	Softwood: K_{ser} = 25 x d x l_{ef}; Hardwood: K_{ser} = 30 x d x l_{ef}										
12	Corrosion protection	ETA-19/0553 chapter 3.10		Table 2										
Safety in case of fire (BWR 2)														
13		ETA-19/0553 chapter 3.2		Class A1										
Safety and accessibility in use (BWR 4)														
14				-										

8. La prestazione del prodotto di cui ai punti 1 e 2 è conforme alla prestazione dichiarata di cui al punto 7. Si rilascia la presente dichiarazione di prestazione sotto la responsabilità esclusiva del fabbricante di cui al punto 4.

Firmato a nome e per conto di:

Schramberg, 01.06.2020 ppa.

Andreas Hettich, Head of Business Development

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