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CE

Declaration of performance

Nr 203/66-010105/2021/ENG

1. Unique product type identification code:

Wood screw Nano Coating

1a. Applies to Hammerjack article numbers

66-010105…*, 80-K07...*, 80-B07…*, 89-K07...*, 89-B07...*

2. Type, batch or serial number or other element enabling the construction product to be identified in accordance with Article 11 (4):

It is presented on the package

2a. Lot No from KT26 to KT … (see packaging)

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

The screw is suitable for most assembly work on wood, chipboard, plywood, plastic, dowel, etc. According to EN-14592 for the use of fasteners in load-bearing timber structures.

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

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

Not relevant (see section 4)

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6. The system or systems of assessment and verification of constancy of performance of the construction product set out in Annex V.:

System 3

7. In the case of a declaration of performance for a construction product covered by a harmonized standard:

Slovenian Nation Building and Civil Engineering Institute – ZAG Ljubljana, Notified Body number: 1404
Carried out: Initial type test
System 3
Issued: Test report

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

Technical specification EN 14592:2008 + A1:2012

9. Declared performance:

Applications / Preferences:
The screw is suitable for most assembly work on wood, chipboard, plywood, plastic, dowel, etc. According to EN-14592 fasteners for use in bearing for wooden structures.

Description:
KTCO C4 Approved / KTX-Nano Coating (Metal Brown) 2000HR
The screw is made of hardened steel and has a surface treatment suitable for outdoor conditions. The screw has a TORX socket. The screw also has two fiber blades, resulting in a screwing torque in harder wood materials it is very low and cracking is minimal. 60 mm in length and longer screws have an additional milling thread immediately after the normal wood thread, which simplifies fixing longer and thicker screws. The screw head is equipped with cutting threads that cut wood fibers through and countersink the screw to keep the surface smooth and free of chips.

Installation:
Recommended speed: 400-1200 rpm.
Corrosion protection corresponds to environmental class C4.

Corrosion class C4: Indoors with high humidity and high air pollution e.g. swimming pools, chemical industries. In outdoor conditions with moderate salt or obvious air pollution e.g. industrial, coastal areas.

Comment: Environmental corrosion class C4 requires that the surface of the product be undamaged after installation.

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C1022 - Flat head (M3-M6)

Essential characteristic		Performance						Harmonized technical specification
		M3.0 flat	M3.5 flat	M4.0 flat	M4.5 flat	M5.0 flat	M6.0 flat	
Geometry	d[mm]	2.90	3.42	3.92	4.41	4.91	5.90	EN 14592:2008+A1:2012
	L[mm]	12-40	15-60	16-80	20-80	20-140	30-300	
Material		C1022						EN 10083-2
Characteristic yield moment M y,k [NM]		1.32	1.80	2.93	4.61	4.53	7.26	EN 409:2009
Characteristic withdrawal parameter f ax,k [N/mm2]		20.43 ρ = 654 kg/m3	29.25 ρ = 653 kg/m3	22.82 ρ = 419 kg/m3	31.73 ρ = 544 kg/m3	28.25 ρ = 347 kg/m3	34.91 ρ = 530 kg/m3	EN 1382:1999
Characteristic head pull-through parameter f head,k [N/mm2]		36.70 ρ = 453 kg/m3	39.54 ρ = 430 kg/m3	35.67 ρ = 420 kg/m3	19.70 ρ = 343 kg/m3	30.45 ρ = 327 kg/m3	17.37 ρ = 351 kg/m3	EN 1383:1999
Characteristic tensile capacity f tens,k [kN]		4.08	4.43	6.23	8.33	8.87	13.70	EN 1383:1999
Characteristic torsional ratio		1.96	1.50	1.50	1.90	1.51	1.89	EN 14592:2008+A1:2012
Corrosion protection		Zinc Plating						Class 1 acc. To EN 1995-1-1
		Black Zinc Plating						
		Yellow Zinc Plating						
		Zinc Nickel Alloy Plating						
		Black phosphate						
		Gray phosphate						
		Galvanizing (Mechanical Galvanizing)						Class 2 acc. To EN 1995-1-1
		KTX-Coating (KTCO)						

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C1022 - Pan head (M3,5-M6)

Essential characteristic		Harmonized technical specification					Harmonized technical specification
		M3.5 pan	M4.0 pan	M4.5 pan	M5.0 pan	M6.0 pan	
Geometry	d[mm]	3.42	3.92	4.41	4.90	5.90	EN 14592:2008+A1:2012
	L[mm]	15-60	16-80	20-80	20-140	30-300	
Material		C1022					EN 10083-2
Characteristic yield moment M y,k [NM]		1.80	2.93	4.61	4.53	7.26	EN 409:2009
Characteristic withdrawal parameter f ax,k [N/mm2]		29.25 ρ = 653 kg/m3	22.82 ρ = 418 kg/m3	31.73 ρ = 544 kg/m3	28.25 ρ = 374 kg/m3	34.91 ρ = 529 kg/m3	EN 1382:1999
Characteristic head pull-through parameter f head,k [N/mm2]		23.81 ρ = 437 kg/m3	22.80 ρ = 428 kg/m3	21.66 ρ = 350 kg/m3	22.66 ρ = 344 kg/m3	dets.94 ρ = 332 kg/m3	EN 1383:1999
Characteristic tensile capacity f tens,k [kN]		3.72	5.84	7.33	8.75	13.69	EN 1383:1999
Characteristic torsional ratio		1.50	1.50	1.90	1.51	1.89	EN 14592:2008+A1:2012

Corrosion protection	Zinc Plating	Class 1 acc. To EN 1995-1-1
	Black Zinc Plating	
	Yellow Zinc Plating	
	Zinc Nickel Alloy Plating	
	Black phosphate	
	Gray phosphate	
	Galvanizing (Mechanical Galvanizing)	Class 2 acc. To EN 1995-1-1
	KTX-Coating (KTCO)	

C10B21 - Flat head (M3-M6)

Essential characteristic		Performance						Harmonized technical specification
		M3.0 flat	M3.5 flat	M4.0 flat	M4.5 flat	M5.0 flat	M6.0 flat	
Geometry	d[mm]	2.90	3.42	3.92	4.41	4.91	5.90	EN 14592:2008+A1:2012
	L[mm]	12-40	15-60	16-80	20-80	20-140	30-300	
Material		C10B21						EN 10083-2
Characteristic yield moment M y,k [NM]		1.32	1.80	2.93	4.61	4.53	7.26	EN 409:2009
Characteristic withdrawal parameter f ax,k [N/mm2]		20.43 ρ = 654 kg/m3	29.25 ρ = 653 kg/m3	22.82 ρ = 418 kg/m3	31.73 ρ = 544 kg/m3	28.25 ρ = 347 kg/m3	34.91 ρ = 529 kg/m3	EN 1382:1999
Characteristic head pull-through parameter f head,k [N/mm2]		36.70 ρ = 453 kg/m3	39.54 ρ = 430 kg/m3	35.67 ρ = 420 kg/m3	19.70 ρ = 343 kg/m3	30.45 ρ = 327 kg/m3	17.37 ρ = 351 kg/m3	EN 1383:1999
Characteristic tensile capacity f tens,k [kN]		3.64	4.90	6.63	6.93	10.12	14.21	EN 1383:1999
Characteristic torsional ratio		2.09	1.54	2.30	1.92	1.94	2.30	EN 14592:2008+A1:2012
Corrosion protection		Zinc Plating						Class 1 acc. To EN 1995-1-1
		Black Zinc Plating						
		Yellow Zinc Plating						
		Zinc Nickel Alloy Plating						
		Black phosphate						
		Gray phosphate						
		Galvanizing (Mechanical Galvanizing)						Class 2 acc. To EN 1995-1-1
		KTX-Coating (KTCO)						

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C1022 – flat head (M2.5, M8, M10), hex head (M8, M10), pan head (M8, M10)

Essential characteristic		Performance							Harmonized technical specification
		M2.5 flat	M8.0 flat	M8.0 hex	M8.0 pan	M10.0 flat	M10.0 hex	M10.0 pan	
Geometry	d[mm]	2.47	8.00	8.00	8.00	10.00	10.00	10.00	EN 14592:2008 +A1:2012
	L[mm]	10-25	45-450	45-450	45-450	50-450	50-450	50-450	
Material		C1022							EN 10083-2
Characteristic yield moment $M_{y,k}$ [NM]		1.02	10.62	10.62	10.62	29.41	29.41	29.41	EN 409:2009
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm2]		29.69 ρ = 560 kg/m3	10.78 ρ = 535 kg/m3	10.78 ρ = 535 kg/m3	10.78 ρ = 535 kg/m3	14.48 ρ = 458 kg/m3	14.48 ρ = 458 kg/m3	14.48 ρ = 458 kg/m3	EN 1382:1999
Characteristic head pull-through parameter $f_{head,k}$ [N/mm2]		50.11 ρ = 502 kg/m3	13.85 ρ = 428 kg/m3	20.92 ρ = 418 kg/m3	28.24 ρ = 414 kg/m3	27.34 ρ = 433 kg/m3	30.okt ρ = 410 kg/m3	16.61 ρ = 381 kg/m3	EN 1383:1999
Characteristic tensile capacity $f_{tens,k}$ [kN]		2.12	20.32	17.88	18.06	39.43	29.73	39.73	EN 1383:1999
Characteristic torsional ratio		2.09	2.90	2.90	2.90	2.85	2.85	2.85	EN 14592:2008 +A1:2012
Corrosion protection		Zinc Plating							Class 1 acc. To EN 1995-1-1
		Black Zinc Plating							
		Yellow Zinc Plating							
		Zinc Nickel Alloy Plating							
		Black phosphate							
		Gray phosphate							
		Galvanizing (Mechanical Galvanizing)							Class 2 acc. To EN 1995-1-1
		KTX-Coating (KTCO)							

If specific technical documentation has been used in accordance with Article 37 or 38, indicate the requirements for which the product meets:

Not relevant

10. The performance of the product specified in points 1 and 2 shall be in accordance with the declared performance referred to in point 9.

The performance of the product described above corresponds to the declared performance.
This declaration of performance has been issued under the sole responsibility of the manufacturer as defined in point 4 of Regulation (EU) No 305/2011.

Signed by and on behalf of the manufacturer:

Peeter Kljukin,
Product Category Manager

01.03.2021