



DECLARATION OF PERFORMANCE NR:  
**DOP-14592 NS**

Version: V-1.2018

ACCORDING TO THE REGULATION (EU) No 574/2014 OF 21 FEBRUARY 2014r.

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

2,1 AR-3,1 AR

**2. Intended use or uses of the construction product:**

Nails for carrying wooden constructions

**3. Manufacturer:**

Etanco Sp. z o. o., Al. Jana Pawła II 1, 81-345 Gdynia,  
 Address of the manufacturing plant: ul. Olsztyńska 30 , 11-130 Orneta

**4. Authorized representative:**

Not applicable

**5. System of assessment and verification of constancy of performance:**

System 3 according Annex V Regulation No 305/2013 of the European Parliament and of the Council of 9 March 2011 (Construction Product Regulation - CPR)

**6. Harmonized standard:**

EN 14592:2008 + A1:2012

**Notified body or bodies:**

STROJIRENSKY ZKUSEBNI USTAV, s.p. Tovarni 5 466 21 JABLONEC, Czech Republic,  
 Notified body 1015

**7. Declared performance:**

Product	Length range [mm]	The characteristic moment of plasticity $M_{y,k}$ [Nmm]	Characteristic withdrawal parameter $f_{ax,90,k}$ [N/mm <sup>2</sup> ]	Characteristic withdrawal parameter $f_{ax,0,k}$ [N/mm <sup>2</sup> ]	Characteristic head pull-through parameter $f_{head,k}$ [N/mm <sup>2</sup> ]	Characteristic tensile capacity $f_{tens,k}$ [kN]
2,1 mm RING	25-60	1444	13,74	4,35	50,59	1,85
2,3 mm RING	30-60	1649	15,27	3,97	44,3	2,52
2,5 mm RING	25-75	2241	15,89	4,16	42,72	3,11
2,8 mm RING	30-90	3235	17,49	8,73	43,52	4,19
3,1 mm RING	45-100	4472	17,82	7,34	40,57	5,17
Density of wood [kg/m <sup>3</sup> ]	-	-	415	415	553 515	-
Durability (corrosion protection)	No coating or zinc coated thickness of 8 $\mu$ (Service class 1 according to EN 1995-1-1) Zinc coated of minimum thickness 12 $\mu$ (Service class 2 according to EN 1995-1-1) Galvanized zinc coated of minimum thickness 55 $\mu$ (service class 3 according to EN 1995-1-1)					

**8. Relevant technical documentation or special technical documentation**

Not applicable

Performance properties of the product described above are compatible with the set of declared performance characteristics. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer referred above

**On behalf of the producer signed:**

Aleksander Stec

in Ormeta, date 02.01.2018

Aleksander Stec  
Product Manager  
Etanco Sp. z o.o.