Declaration of performance

This is an English translation of the original German wording.
In cases of doubt, the German version applies.

No. LE_5392000134_02_M_Zuganker HTA

1. Unique identification code of the product type:

   Tension anchor HTA, pressure plate for tension anchor HTA
   Article prefix no.: 53920001*

2. Intended use(s):

Product type	Tension anchor HTA
For use in	Wood structures
Material	S355MC according to EN 10025-2:2004, galvanised
Load	See ETA-14/0274

3. Manufactured by:

   Adolf Würth GmbH & Co. KG
   Reinhold-Würth-Str. 12–17
   D-74653 Künzelsau, Germany

4. System(s) of assessment and verification of constancy of performance:

   2+

5. European Assessment Document: **EAD 130186-00-0603 for three-dimensional nailing plates**
   European Technical Assessment: **ETA-14/0274**
   Technical Assessment Body: **ETA Danmark A/S**
   Notified Body or Bodies: **Karlsruhe Institute of Technology (KIT) No. 769**

6. Declared performance:

Property								Performance		
Mechanical resistance and stability (BWR1)										
Stiffness								No assessed performance		
Ductility under cyclic testing								No assessed performance		
Load-bearing capacity								Force F_1, 1 x tension anchor/joint wood-concrete / softwood[1] ρ_k = 350 kg/m³		
	Load-bearing capacity per nail in vertical leg ($F_{v,Rk}$) [kN][2]			Load-bearing capacity per screw in vertical leg ($F_{v,Rk}$) [kN][2]			Concrete	Steel[3]		Screw/bolt
								Tensile ($F_{t,Rk}$) [kN]		k_t
	4x40mm	4x50mm	4x60mm	5x35mm	5x40mm	5x50mm				
HTA L x 60 x 60 x 3.0*	1.57	1.87	1.93	1.88	2.14	2.29	See EN 1992	32.5		1.1
HTA L x 60 x 60 x 3.0**	1.57	1.87	1.93	1.88	2.14	2.29		45.0		1.1
HTA L x 80 x 80 x 3.0***	1.57	1.87	1.93	1.88	2.14	2.29		60.0		1.1
HTA L x 80 x 80 x 3.0****	1.57	1.87	1.93	1.88	2.14	2.29		60.0		1.1
* with 30x3 washer; ** with base plate t = 10 mm; *** with 37x3 washer; **** base plate t = 20 mm										

1)   For other characteristic bulk densities of softwood, F.,.1 is multiplied by:

$$k_{dens} = \left(\frac{\rho_k}{350} \right)^{0,5}$$

For hardwood, $F_{v,Rk}$ is calculated according to EN 1995-1-1.
When a wood-based intermediate layer with a thickness no greater than 26 mm is installed between the connecting plate and the wood component, the influence of the intermediate layer must be taken into account for the lateral load-bearing capacity of the nail or screw.

2)   When 4.0 mm nails or 5.0 mm screws are used
3)   Base plates or washers used according to the planning documents

Property	Performance	
Fire protection (BWR 2)	Euroclass A1	EN 13501-1 and EU Commission Decision 96/603/EC, as amended by EU Commission Decision 2000/605/EC
Hygiene, health and environment (BWR 3)	No hazardous materials	
Sustainable use of natural resources (BWR 7)	No assessed performance	

7. Appropriate and/or Specific Technical Documentation

The performance of the above product corresponds to the declared performance. The declaration of performance is issued in compliance with EU Regulation 305/2011 under the sole responsibility of the above manufacturer.

Signed for and on behalf of the manufacturer by:

Original signed by:

Andreas Heck

(Head of Product Management, Fastening Systems)

Original signed by:

Raphael Rösch

(Head of Quality)

Künzelsau, 30 June 2025