DECLARATION OF PERFORMANCE

No. LE_5392000134_01_M_Zuganker HTA

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

1. Unique identification code of the product:

HTA stay, pressure plate for HTA stay pressure plate
Art. pre-no.: 53920001*

2. Type, batch, or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Batch number: see packaging

3. Intended use(s):

Product type	HTA stay
For use in	wood structures
Material	S355 MC according to EN 10025-2:2004, galvanized
Load	See ETA 14/0274

4. Manufacturer as required pursuant to Article 11(5)

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

5. Authorized representative whose mandate covers the tasks specified in Article 12(2):

Not relevant

6. System(s) of assessment and verification of constancy of performance of the construction product as set out in Annex V

2+

7. a) When the construction product is covered by a harmonized standard:

Not relevant

When 7(a) applies, the notified body or bodies:

Not relevant

7. b) When the construction product is covered by a European Assessment Document

When 7(b) applies:
European Technical Assessment

ETA 14/0274

Technical Assessment Body

ETA Danmark A/S

Notified Body

Karlsruhe Institute of Technology (KIT) No. 769

8. Declared performance:

Property	**Performance**								
Mechanical resistance and stability (BWR 1)									
Rigidity	No assessed performance								
Ductility under cyclic testing	No assessed performance								
Load-bearing capacity	Force F_1, 1 x stay/connection 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	1.80	1.92	2.52	See EN 1992	35.0	1.2
HTA L x 60 x 60 x 3.0**	1.57	1.87	1.93	1.80	1.92	2.52		45.0	1.6
HTA L x 80 x 80 x 3.0***	1.57	1.87	1.93	1.80	1.92	2.52		60.0	1.5
HTA L x 80 x 80 x 3.0****	1.57	1.87	1.93	1.80	1.92	2.52		60.0	1.8
* with 30 x 3 washer; ** with base plate t = 10 mm; *** with 37 x 3 washer; **** base plate t = 20 mm									

1) For other characteristic bulk densities of softwood, $F_{v,Rk}$ 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 no greater than 26 mm thick is installed between the connecting plate and the wood component, the lateral load-bearing capacity of the nail or screw must also include the effects of this intermediate layer.

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	

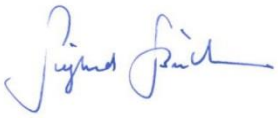
9. When pursuant to Articles 37 and 38 appropriate technical documentation and/or Specific Technical Documentation has been used

Guideline for the European Technical Approval (ETAG) no. 015 "Three-dimensional nailing plates", April 2013, used as a European Assessment Document (EAD)

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:

Frank Wolpert
(Head of Product Management)
Künzelsau, 1/20/2018



Dr.-Ing. Siegfried Beichter
(Head of Quality, Authorized Signatory)