

**DECLARATION OF PERFORMANCE**  
**No. LE\_5392000246\_02\_M\_Zuganker Vplus**

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

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| 1. Unique identification code of the product type:   | <b>Tension anchor V plus</b><br><b>Article prefix no.: 53920002*</b>   |
| 2. Intended use(s):  |  |
| <b>Product type</b><br><b>For use in</b><br><b>Material</b><br><b>Load</b>   | Tension anchor V plus<br>Wood structures<br>DX51D or D11 according to EN 10025-2:2004, galvanised<br>See ETA-14/0274   |
| 3. Manufactured by:  | <b>Adolf Würth GmbH &amp; Co. KG</b><br><b>Reinhold-Würth-Str. 12-17</b><br><b>D-74653 Künzelsau, Germany</b><br><b>2+</b>   |
| 4. System(s) of assessment and verification of constancy of performance:   |  |
| 5. European Assessment Document:<br>European Technical Assessment:<br>Technical Assessment Body:<br>Notified Body or Bodies: | <b>EAD 130186-00-0603 for three-dimensional nailing plates</b><br><b>ETA-14/0274</b><br><b>ETA Danmark A/S</b><br><b>Karlsruhe Institute of Technology (KIT) No. 769</b> |
| 6. Declared performance:   |  |

Property				Performance					
<b>Mechanical resistance and stability (BWR 1)</b>									
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 <sup>1)</sup> $\rho_k = 350 \text{ kg/m}^3$					
	Load-bearing capacity per nail in vertical leg ( $F_{v,Rk}$ ) [kN] <sup>2)</sup>			Load-bearing capacity per screw in vertical leg ( $F_{v,Rk}$ ) [kN] <sup>2)</sup>			Concrete	Steel	Screw/bolt
	4x40mm	4x50mm	4x60mm	5x35mm	5x40mm	5x50mm		Tensile ( $F_{t,Rk}$ ) [kN]	$k_t$
V plus L x 90 x 65 x 3.0	1.57	1.87	1.93	1.88	2.14	2.29	See EN 1992	36.2	1.0
V plus L x 90 x 65 x 4.0	1.57	1.87	1.93	1.88	2.14	2.29		48.3	1.0

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