

Declaration of Performance, DoP 400/2020.2

To visualize previous versions, click on relevant link: http://www.itwcp-techdocs.eu/DoP/Archive/DOP400_2020.1/DOP_400_2020.1_English.pdf.

1. Unique identification code of the product-type: KG700-GALV, HD7900-GALV, SD91000-GALV, BS29000-GALV und KG700-A2, HD7900-A2, SD91000-A2, BS29000-A2
2. Intended use: Load-bearing connections in wooden structures for withdrawal and shear loads in short, medium, long-term and permanent duration.
3. Manufacturer: ITW Befestigungssysteme GmbH, Carl-Zeiss-Straße 19, D-30966 Hemmingen
5. System of AVCP: 3
- 6.b) European Assessment Document: EAD 130019-00-0603 of September 2016
European Technical Assessment: ETA-16/0535 of 2020-12-08
Technical Assessment Body: Deutsches Institut für Bautechnik, Kolonnenstraße 30B, D-10829 Berlin

7. Declared performances:

	Essential characteristic									
	Dimensions					Characteristic yield moment	Withdrawal capacity for short-term and medium-term loads	Characteristic head pull-through parameter	Durability against corrosion	
Identification code	d [mm]	l [mm]	b [mm]	A _s [mm²]	t ₃ [mm]	M _{y,k} [Nmm]	f _{ax,k} [N/mm²]	f _{head,k} [N/mm²]	Service class according EN 1995-1-1	
KG700-GALV	1,53	25-75	11,3	1,83	≥ 0,5l	620	4,9	36	1-2, by zinc ≥ 86 g/m²	
KG700-A2									1-3, by WNr. 1.4301	
HD7900-GALV	1,80	40-75	11,0	2,53		940	32	1-2, by zinc ≥ 86 g/m²		
HD7900-A2								1-3, by WNr. 1.4301		
SD91000-GALV	2,00	50-120	11,8	3,11		1230	5,5	26	1-2, by zinc ≥ 86 g/m²	
SD91000-A2										1-3, by WNr. 1.4301
BS29000-GALV		75-160	27,0					34	Wood fibre insulation=9,36	1-2, by zinc ≥ 86 g/m²
BS29000-A2										

Other essential characteristics which apply to all product types:

- Withdrawal capacity for long term and permanent loads: Design value: R_{ax,d} = 70 N
- Minimum tensile strength of the wire: f_u = 900 N/mm²
- Maximum thickness of the connected materials (ρ_k in [kg/m³]): 80mm softwood with ρ_k ≤ 400, 60mm hard- and softwood / wood-based panels with 400 < ρ_k ≤ 650, 40mm wood-based panels / gypsum boards with 650 < ρ_k ≤ 900, 25mm hardboards / gypsum fibreboards / cement-bonded particleboards with 900 < ρ_k ≤ 1200, 20mm highly compressed gypsum fibreboards with 1200 < ρ_k ≤ 1600, wood fibre insulation material ≤ 70d
- Minimum thickness of the connected materials: 24mm softwood. 7d solid wood panels, 6mm plywood, 8mm OSB / resin-bonded resp. cement-bonded particleboards, 6mm fibreboards plus 2mm if staples are countersunk
- Durability of the resin coating: Pass
- Reaction to fire: Euroclass: A1

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Torsten Eckstein, General Manager
Hemmingen, 2021-06-02