

Declaration of Performance, DoP 400/2024.1

1. Unique identification codes 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 2024-01-30
 Technical Assessment Body: Deutsches Institut für Bautechnik, Kolonnenstraße 30B, D-10829 Berlin

7. Declared performances:

Identification code	Essential characteristic								
	Dimensions					Characteristic yield moment	Withdrawal capacity for short-term and medium-term loads	Characteristic head pull-through parameter	Durability against corrosion
	d [mm]	l [mm]	b [mm]	A _s [mm ²]	t ₃ [mm]	M _{y,k} [Nmm]	f _{ax,k} [N/mm ²]	f _{head,k} [N/mm ²]	Service class according EN 1995-1-1
KG700-GALV	1,53	25-75	11,3	1,83	≥ 0,5l	590	4,9	33	1-2, by zinc ≥ 86 g/m ²
KG700-A2					≥ 20	620			1-3, by WNr. 1.4301
HD7900-GALV	1,80	40-75	11,0	2,53	≥ 0,5l	870		32	1-2, by zinc ≥ 86 g/m ²
HD7900-A2					≥ 22	960			1-3, by WNr. 1.4301
SD91000-GALV	2,00	50-120	11,8	3,11	≥ 0,5l ≥ 25	1020	5,3	25	1-2, by zinc ≥ 86 g/m ²
SD91000-A2						1230			1-3, by WNr. 1.4301
BS29000-GALV		70-160	27,0			1020		27	1-2, by zinc ≥ 86 g/m ²
BS29000-A2						1230			Wood fibre insulation=8,85

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]): 80 mm softwood with ρ_k ≤ 400, 60 mm hard- and softwood / wood-based panels with 400 < ρ_k ≤ 650, 40 mm wood-based panels / gypsum boards with 650 < ρ_k ≤ 900, 25 mm hardboards / gypsum fibreboards / cement-bonded particleboards with 900 < ρ_k ≤ 1200, 20 mm highly compressed gypsum fibreboards with 1200 < ρ_k ≤ 1600, wood fibre insulation material ≤ 70d
- Minimum thickness of the connected materials: 24 mm softwood. 7d solid wood panels, 6 mm plywood, 8 mm OSB / resin-bonded resp. cement-bonded particleboards plus 2 mm 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, 2024-02-14