



## NATIONAL DECLARATION OF PERFORMANCE NO:

# KDWU-2018/0706 FRI

Version: V-1.2020 EN

### 1. Name and trade name of construction product:

Etanco flat roof fasteners types G and DVP for fixing thermoinsulation and hydroinsulation

### 2. Type of the construction product:

GTS-S 4,8xL, GTS-B 4,8xL, GTHD 4,8xL, GTS-BZT 4,8xL, GTSX-B A4 4,8xL, UZ-K 8,0x57, G1 50xL, G2 50xL

### 3. Intended uses or uses:

Etanco, G and DVP roof girders are designed for mechanically fixing the thermal insulation and waterproofing layer to the roof coverings made of:

- Concrete not less than C12 / 15 according to PM-EN 206: 2014 (including tile plates with a thickness not less than 50 mm). For G and DVP screws with GTHD screws and GTS-S screws used in conjunction with U-ZK dowels, S280GD steel sheet according to PN-EN 10346: 2015 for G and DVP screws with GTS-S screws. or GTS-B and DVP connectors with GTS-BZT screws; G and DVP screws with GTS-S screws can be used for fixings to steel sheets of a thickness of no more than 0.90 mm, and G and DVP screws with GTS-B screws and DVP screws with GTS-BZT screws may be used. used for steel sheets of not more than 2.5 mm thickness,
- Construction timber according to PN-EN 14081-1 + A1: 2011, strength classes not lower than C24 according to PN-EN 338: 2011 - for G and DVP fasteners with GTHD and GTS-S screws,
- Wood-based OSB boards according to PN-EN 300: 2007, with a thickness of not less than 18 mm and a density of not less than 625 kg / m<sup>3</sup> for G and DVP screws with GTHD and GTS-S screws,
- Fiber-cement boards according to PN-EN 494 + A3: 2009, with a thickness of not less than 5 mm - for G and DVP connectors with GTHD and GTS-S screws.

Due to the corrosive nature of the environment, G-type connectors (including mechanical couplers) can be used in atmospheres of C1, C2, C3 and C4 atmospheric corrosion categories according to PN-EN ISO 12944-2: 2001 standards, and DVP-type switches may be used. in environments with corrosivity class C1 and C2 according to PN-EN ISO 12944-2: 2001 standard

Plastic sleeves G should be made of polypropylene (PP). U-ZK dowels should be made of polyamide (PA).

DVP washers are made of low-grade steel grade DX51D according to PN-EN 10346: 2015 standard, covered with aluminum zinc coating (AZ) with a weight of less than 150g / m<sup>2</sup>.

Screws should be made of SAE 1022 grade steel in accordance with American standard AMS 5070: 1994 / RG and covered with gRey.coat coating.

### 4. Name and address of the manufacturer and place of manufacture of the product:

Etanco Sp. z o. o., Al. Jana Pawła II 1, 81-345 Gdynia,

Address of production plant : ul. Olsztyńska 30 , 11-130 Orneta

**5. Name and address of the authorized representative, if established:**

N/A

**6. National system used for assessment and verification of constancy of performance:**

System 2+

**7. National technical specification:**

7a. Polish Product standard : N/A

Name of accredited certification body, accreditation number and national certificate number or name of accredited laboratory / laboratory and accreditation number: N/A

7b. National technical assessment : ITB-KOT-2018/0706

Technical Assessment Unit / National Technical Assessment Unit : **Instytut Techniki Budowlanej w Warszawie no 1488**

Name of accredited certification body and certificate number:

**Zakład Certyfikacji ITB Warszawa AC 020****Certificate of Factory Production Control No: 020-UWB-726-Z****8. Declared performance properties**

Essential characteristics of the construction product for the intended use or uses	Declared usable features	Comments
Characteristic and computational loads of fasteners:	According to tables C1 to C4 approvals	ITB-KOT-2018/0706
Protective coating / Corrosion protection	according to point 2 of the approvals	ITB-KOT-2018/0706 PN-EN ISO 12944-2:2001

**Table 1.**

Characteristic load and design for axial pulling out of concrete substrate						
Screw + pin	Sleeve or washer	Substrate	Anchorage depth [mm]	Hole diameter [mm]	Characteristic bearing capacity [kN]	Design load capacity [kN]
GTHD	G	Concrete class min. C12/15	30	5,0	1,58	0,79
	DVP					
GTS-S + UZK	G	min. C12/15	60 (for 50-60 mm thick channel plates - through-through)	7,5	1,13	0,57
	DVP					
concrete according to PN-EN 206: 2014 standard						

**Table 2.**

Characteristic load and design load on axial pulling from wood and wood substrate							
Screw	Sleeve or washer	Substrate	Anchorage depth [mm]	Characteristic bearing capacity [kN]	Design load capacity [kN]		
GTHD	G	wood class min. C24	30	1,58	0,79		
	DVP						
GTS-S	G		20	1,57	0,79		
	DVP						
GTHD	G	OSB th. 18 mm p> 625kg/m <sup>3</sup>	18 mm (through assembly)	1,58	0,79		
	DVP						
GTS-S	G			1,57	0,79		
	DVP						
wood according to PN-EN 14081-1 + A1: 2011 standard							
OSB board according to PN-EN 300: 2007 standard							

**Table 3.**

Characteristic load and design load on axial pull out from steel substrate					
Screw	Sleeve or washer	Substrate	Thickness of substrate sheet [mm]	Characteristic bearing capacity [kN]	Design load capacity [kN]
GTS-S	G	steel grade S280GD	0,50	0,72	0,54
			0,63	0,97	0,73
			0,75	1,13	1,00
			0,88	1,18	1,04
	DVP	steel grade S280GD	0,50	0,72	0,54
			0,63	0,97	0,73
			0,75	1,13	1,00
			0,88	1,18	1,04
GTS-B	G	steel grade S280GD	0,75	1,01	0,76
			0,88	1,11	0,76
			1,00	1,59	0,76
			1,25	1,59	0,76
	DVP	steel grade S280GD	0,75	1,01	0,76
			0,88	1,11	0,76
			1,00	1,59	0,76
			1,25	1,59	0,76
GTS-BZT	DVP	steel grade S280GD	0,75	1,01	0,76
			0,88	1,11	0,76
			1,00	1,59	0,76
			1,25	1,59	0,76
GTSX-B A4	G	stal gatunku S280GD	0,75	0,91	0,68
			0,88	1,21	0,76
			1,00	1,50	0,76
steel according to PN-EN 10346: 2015 standard					

**Table 4.**

Characteristic load and design load on axial pulling from fibrous-cement board						
Screw	Sleeve or washer	Substrate	Anchorage depth [mm]	Hole diameter [mm]	Characteristic bearing capacity [kN]	Design load capacity [kN]
GTS-S	G	fiber cement board (5 mm thick)	5.0 (through assembly)	4,0	0,77	0,58
	DVP				0,77	0,58
GTHD	G			5,0	1,58	1,19
	DVP				1,58	1,19

fibrous-cement board according to PN-EN 4942009 + A3:

9. The performance properties of the product specified above are in accordance with all the declared performance characteristics listed in paragraph 8. This national declaration of performance is issued in accordance with the Act of 16 April 2004 on construction products, under the sole responsibility of the manufacturer.

Place and date of issue

**Orneta 30.09.2020**

On behalf of the manufacturer signed  
(Name and position)

**Product Manager:**

Sewer Malesiński  
Product Manager  
Etanco Sp. z o.o.  
*[Signature]*