

## GT 6 Z16

SELF-DRILLING SCREWS WITH WASHER FOR FIXING STEEL SHEETS



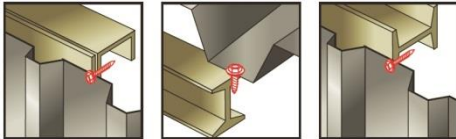
### PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, with drilling point #3, fine thread and a hex head, with an integrated aluminum washer with vulcanized EPDM.


### APPLICATION

Designed for fixing construction corrugated steel sheets to steel structures. Protected with paint coating - polyester thickness of not less than 50  $\mu\text{m}$ , intended for use in environments with corrosivity class C1, C2 and C3 according to PN-EN ISO 12944-2: 2001 standard.

Galvanized without paint coating intended for use in environments with corrosivity class C1, C2.



### LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drill capacity [mm]	Maximum thickness of fixed elements [mm]
			DC	MTmax
GT 6	Z 16	6,3 x 22	6,00	1
GT 6	Z 16	6,3 x 25	6,00	3
GT 6	Z 16	6,3 x 32	6,00	10
GT 6	Z 16	6,3 x 38	6,00	16
GT 6	Z 16	6,3 x 50	6,00	28

*The working length of the connector is calculated from the maximum thickness of the DC substrate*

## NATIONAL TECHNICAL ASSESSMENT ITB-KOT-2018/0680

### CHARACTERISTIC LOAD BEARING CAPACITY FOR SHEAR AND PULL-OUT RESISTANCE IN A STEEL BASE

Substrate thickness <sup>1)</sup> [mm]		4,00	5,00	—	—	—	—	Wood class ≥ C24
M <sub>t,nom</sub>		8 Nm						
Attachment thickness <sup>2)</sup> [mm]	SHEAR [kN]	0,50	1,33	1,33	—	—	—	—
		0,55	1,33	1,33	—	—	—	—
		0,63	1,48	1,48	—	—	—	—
		0,75	2,03	2,03	—	—	—	—
		0,88	2,44	2,44	—	—	—	—
		1,00	2,97	2,97	—	—	—	—
		1,13	2,97	—	—	—	—	—
		1,25	2,97	—	—	—	—	—
		1,50	2,97	—	—	—	—	—
		1,75	2,97	—	—	—	—	—
	2,00	2,97	—	—	—	—	—	
	FOR PULL OUT [kN]	0,50	3,31	3,31	—	—	—	—
		0,55	3,31	3,31	—	—	—	—
		0,63	3,74	3,74	—	—	—	—
		0,75	4,85	4,85	—	—	—	—
		0,88	5,49	5,49	—	—	—	—
		1,00	6,66	6,66	—	—	—	—
		1,13	6,66	—	—	—	—	—
		1,25	6,66	—	—	—	—	—
		1,50	6,66	—	—	—	—	—
1,75		6,66	—	—	—	—	—	
2,00	6,66	—	—	—	—	—		

<sup>1)</sup> steel grade S280GD, S320GD or S350GD according to PN-EN 10346:2015

<sup>2)</sup> steel grade S280GD, S320GD or S350GD according to PN-EN 10346:2015

If both elements I and II are made of steel grade S320GD, values  $V_{R,k}$  can be increased by 8,3%

If both elements I and II are made of steel grade S350GD, values  $V_{R,k}$  can be increased by 16,6%

## EUROPEAN TECHNICAL APPROVAL ETA-12/0580

### CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE

tN,II* [mm]	3,00	4,00	5,00	6,00
0,50	-	1,33	1,33	-
0,55	-	1,33	1,33	-
0,63	-	1,48	1,48	-
0,75	-	2,03	2,03	-
0,88	-	2,44	2,44	-
1,00	-	2,97	2,97	-
1,13	-	2,97	-	-
1,25	-	2,97	-	-
1,50	-	2,97	-	-
1,75	-	2,97	-	-
2,00	-	2,97	-	-

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

Element II - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

In order to determine the design load, the characteristic load factor must be divided by the safety factor  $\gamma_m = 1.33$ .

### CHARACTERISTIC LOAD BEARING CAPACITY OF PULL-OUT RESISTANCE IN A STEEL BASE

tN,II* [mm]	3,00	4,00	5,00	6,00
0,50	-	3,31	3,31	-
0,55	-	3,31	3,31	-
0,63	-	3,74	3,74	-
0,75	-	4,85	4,85	-
0,88	-	5,49	5,49	-
1,00	-	6,66	6,66	-
1,13	-	6,66	-	-
1,25	-	6,66	-	-
1,50	-	6,66	-	-
1,75	-	6,66	-	-
2,00	-	6,66	-	-

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

Element II - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

In order to determine the design load, the characteristic load factor must be divided by the safety factor  $\gamma_m = 1.33$ .

## OTHER FEATURES

BASE MATERIAL:	STEEL PROFILE
SIZE OF HEX HEAD:	10 mm
MINIMUM THICKNESS OF STEEL BASE:	3,00 mm
MAXIMUM CAPACITY OF DRILLING:	6,00 mm
THICKNESS OF ZINC COATING:	12 $\mu$ m
CORROSIVE ENVIRONMENT:	PAINTED - C3 UNPAINTED - C2
OPINION ON ANTI-CORROSIVE PROTECTION:	02248/16/Z00NZM
PAINTING POSSIBILITY:	YES
THICKNESS OF POLYESTER PAINT:	50 $\mu$ m
TIGHTENING TORQUE:	6 Nm
RECOMMENDED ROTARY SPEED (IDLE):	1500 rpm
DIAMETER OF STEEL WASHER Z16:	16 mm

