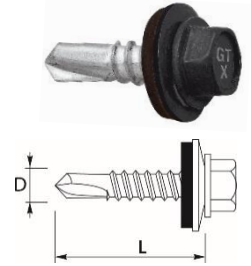


## GTX 3 AL S14

**BIMETALLIC STAINLESS SCREWS WITH STAINLESS WASHER FOR ALUMINUM CONSTRUCTION**

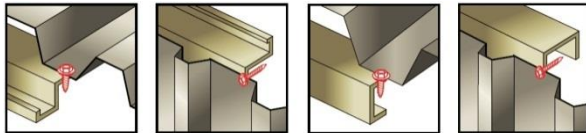


### PRODUCT DESCRIPTION


Self-drilling, self-tapping screws made of austenitic stainless steel (bimetallic), with drilling point #2, fine thread and a hex head, with an integrated stainless steel washer with vulcanized EPDM layer.

### APPLICATION

Designed for fixing elements of aluminum structures also for aggressive environments. Designed for use in environments with corrosivity class C1, C2, C3, C4 C5-I and C5-M according to PN-EN ISO 12944-2: 2001



### LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drill capacity [mm]	Maximum thickness of fixed elements [mm]
			DC	MTmax
GTX 3 AL	S14	5,5 x 25	3,00	8
GTX 3 AL	S14	5,5 x 38	3,00	21

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

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

### CHARACTERISTIC BEARING CAPACITY OF SHEAR AND PULL-OUT FIXINGS FROM STEEL SUBSTRATE

Thickness of substrate <sup>1)</sup> [mm]		0,75	1,00	1,25	1,50	2,00	2,50	Wood class ≥ C24
M <sub>t,nom</sub>		6 Nm						
Thickness of steel substrate <sup>2)</sup> [mm]	Characteristic capacity For shear [kN] For shear [kN]	0,50	—	1,08	1,08	1,08	1,08	—
		0,55	—	1,08	1,08	1,08	1,08	—
		0,63	—	1,38	1,38	1,38	1,38	—
		0,75	0,95	2,11	2,11	2,11	2,11	—
		0,88	0,95	2,29	2,29	2,29	2,29	—
		1,00	0,95	2,59	2,59	2,59	2,59	—
		1,13	0,95	2,59	2,59	2,59	—	—
		1,25	0,95	2,59	2,74	2,74	—	—
		1,50	0,95	2,59	2,74	3,41	—	—
		1,75	0,95	2,59	2,74	—	—	—
	2,00	0,95	2,59	—	—	—	—	
	Characteristic capacity For pull-out [kN]	0,50	—	0,96	1,42	1,85	2,63	—
		0,55	—	0,96	1,42	1,85	2,63	—
		0,63	—	0,96	1,42	1,85	2,78	—
		0,75	0,95	0,96	1,42	1,85	2,78	—
		0,88	0,95	0,96	1,42	1,85	2,78	—
		1,00	0,95	0,96	1,42	1,85	2,78	—
		1,13	0,95	0,96	1,42	1,85	—	—
		1,25	0,95	0,96	1,42	1,85	—	—
		1,50	0,95	0,96	1,42	1,85	—	—
1,75		0,95	0,96	1,42	—	—	—	
2,00	0,95	0,96	—	—	—	—		

<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 VR,k can be increased by 8,3%

If both elements I and II are made of steel grade S350GD, values VR,k can be increased by 16,6%

## CHARACTERISTIC BEARING CAPACITY OF SHEAR AND PULL-OUT FIXINGS FROM ALUMINIUM SUBSTRATE

Thickness of substrate <sup>1)</sup> [mm]		0,75	1,00	1,25	1,50	2,00	2,50	Wood class ≥ C24	
$M_{t,nom}$		6 Nm							
Thickness of steel substrate <sup>2)</sup> [mm]	Characteristic capacity For shear [kN] For shear [kN]	0,50	—	—	—	—	—	/	
		0,55	—	—	—	—	—		
		0,63	—	—	—	—	—		
		0,75	—	—	—	—	—		
		0,88	—	—	—	—	—		
		1,00	—	—	—	—	—		
		1,13	—	—	—	—	—		
		1,25	—	—	—	—	—		
		1,50	—	—	0,76	0,76	—		—
		1,75	—	—	0,76	2,21	—		—
	2,00	—	—	0,76	2,21	—	—		
	For pull-out [kN]	0,50	—	—	—	—	—		—
		0,55	—	—	—	—	—		—
		0,63	—	—	—	—	—		—
		0,75	—	—	—	—	—		—
		0,88	—	—	—	—	—		—
		1,00	—	—	—	—	—		—
		1,13	—	—	—	—	—		—
		1,25	—	—	—	—	—		—
		1,50	—	—	0,76	0,76	—		—
1,75		—	—	0,76	2,21	—	—		
2,00	—	—	0,76	2,21	—	—			

<sup>1)</sup> stal gatunku S280GD, S320GD lub S350GD według PN-EN 10346:2015

<sup>2)</sup> stal gatunku S280GD, S320GD lub S350GD według PN-EN 10346:2015

## EUROPEAN TECHNICAL APPROVAL ETA-12/0580

### CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE

tN,II* [mm]	1,00	1,25	1,50	2,00	
VR,k [kN] for tN,I* [mm]	0,50	1,08	1,08	1,08	1,08
	0,55	1,08	1,08	1,08	1,08
	0,63	1,38	1,38	1,38	1,38
	0,75	2,11	2,11	2,11	2,11
	0,88	2,29	2,29	2,29	2,29
	1,00	2,59	2,59	2,59	2,59
	1,13	2,59	2,59	2,59	-
	1,25	2,59	2,74	2,74	-
	1,50	2,59	2,74	3,41	-
	1,75	2,59	2,74	-	-
	2,00	2,59	-	-	-

Element I - sheet steel class S280GD; S320GD; Standard S350GD according to EN 10346.

Element II - sheet steel class S280GD; S320GD; Standard S350GD according to EN 10346.

To determine the structural carrying capacity of the characteristic safety factor  $\gamma_m = 1.33$ .

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

tN,II* [mm]	1,00	1,25	1,50	2,00	
NR,k [kN] for tN,I* [mm]	0,50	0,96	1,42	1,85	2,63
	0,55	0,96	1,42	1,85	2,63
	0,63	0,96	1,42	1,85	2,78
	0,75	0,96	1,42	1,85	2,78
	0,88	0,96	1,42	1,85	2,78
	1,00	0,96	1,42	1,85	2,78
	1,13	0,96	1,42	1,85	-
	1,25	0,96	1,42	1,85	-
	1,50	0,96	1,42	1,85	-
	1,75	0,96	1,42	-	-
	2,00	0,96	-	-	-

Element I - sheet steel class S280GD; S320GD; Standard S350GD according to EN 10346.

Element II - sheet steel class S280GD; S320GD; Standard S350GD according to EN 10346.

To determine the structural carrying capacity of the characteristic safety factor  $\gamma_m = 1.33$ .

## OTHER FEATURES

BASE MATERIAL:	<i>COLD ROLED STEEL, TRAPEZOIDAL METAL SHEET ALUMINUM PROFILE</i>
SIZE OF HEX HEAD:	<i>8 mm</i>
MINIMUM THICKNESS OF STEEL BASE (OVERLAP JOINTS):	<i>0,75 mm</i>
MAXIMUM CAPACITY OF DRILLING:	<i>3,00 mm</i>
HEAD AND SHAFT MADE OF:	<i>STAINLESS STEEL CLASS A2</i>
DRILLING POINT MADE OF:	<i>CURED ALLOY STEEL</i>
CORROSIVE ENVIRONMENT:	<i>C5 I/M</i>
OPINION ON ANTI-CORROSIVE PROTECTION:	<i>02248/16/Z00NZM</i>
POSSIBILITY OF PAINTING:	<i>YES</i>
PAINT COATING THICKNESS:	<i>50 μm</i>
TIGHTENING TORQUE:	<i>3 Nm</i>
RECOMMENDED ROTARY SPEED (IDLE):	<i>1200 rpm</i>
DIAMETER OF STAINLESS STEEL WASHER S14	<i>14 mm</i>

