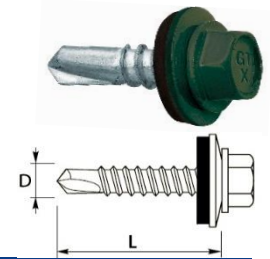


GTX 3 S14

BIMETALLIC STAINLESS STEEL SELF-DRILLING SCREWS WITH WASHER FOR STEEL SHEETS FIXING



PRODUCT DESCRIPTION

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


APPLICATION

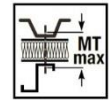
Designed for fastening corrugated construction steel sheets to thin-walled steel structures and for overlap joints fastening of construction steel sheets to each other.

Designed for use in environments with atmospheric corrosivity categories 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	S14	4,8 x 25	3,00	10



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 ¹⁾ [mm]		0,75	1,00	1,25	1,50	2,00	2,50	Wood class \geq C24
$M_{t,nom}$		3 Nm						
Thickness of steel substrate ²⁾ [mm]	Characteristic capacity 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	2,11	2,11	2,11	2,11	2,11	—
		0,88	2,11	2,29	2,29	2,29	2,29	—
		1,00	2,11	2,59	2,59	2,59	2,59	—
		1,13	2,11	2,59	2,59	2,59	—	—
		1,25	2,11	2,59	2,74	2,74	—	—
		1,50	2,11	2,59	2,74	3,41	—	—
		1,75	2,11	2,59	2,74	—	—	—
	2,00	2,11	2,59	—	—	—	—	
	Characteristic capacity For pull-out [kN]	0,50	—	1,02	1,24	1,69	2,19	—
		0,55	—	1,02	1,24	1,69	2,19	—
		0,63	—	1,02	1,24	1,69	2,52	—
		0,75	0,75	1,02	1,24	1,69	2,52	—
		0,88	0,75	1,02	1,24	1,69	2,52	—
		1,00	0,75	1,02	1,24	1,69	2,52	—
		1,13	0,75	1,02	1,24	1,69	—	—
		1,25	0,75	1,02	1,24	1,69	—	—
		1,50	0,75	1,02	1,24	1,69	—	—
1,75		0,75	1,02	1,24	—	—	—	
2,00	0,75	1,02	—	—	—	—		

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

²⁾ 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%

EUROPEAN TECHNICAL APPROVAL ETA-12/0580

CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE

tN,II* [mm]	1,00	1,25	1,50	2,00
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 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]	1,00	1,25	1,50	2,00
0,50	1,02	1,24	1,69	2,19
0,55	1,02	1,24	1,69	2,19
0,63	1,02	1,24	1,69	2,52
0,75	1,02	1,24	1,69	2,52
0,88	1,02	1,24	1,69	2,52
1,00	1,02	1,24	1,69	2,52
1,13	1,02	1,24	1,69	—
1,25	1,02	1,24	1,69	—
1,50	1,02	1,24	1,69	—
1,75	1,02	1,24	—	—
2,00	1,02	—	—	—

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

SUBSTRATE MATERIAL:	<i>COLD STEEL PROFILE, TRAPEZOIDAL METAL SHEET</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>HARDENED STEEL</i>
CORROSIVE ENVIRONMENT:	<i>C5 I/M</i>
TECHNICAL OPINION ON CORROSION 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 SPEED OF THE TOOL WITHOUT LOAD:	<i>1200 rpm</i>
DIAMETER OF STAINLESS STEEL WASHER S14	<i>14 mm</i>

