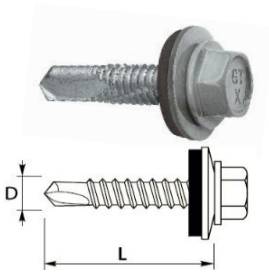
GTX 5 S14



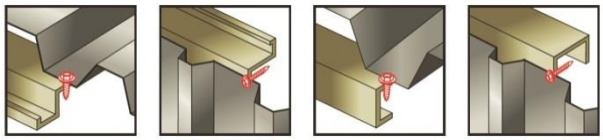
BIMETALLIC, SELF-DRILLING STAINLESS STEEL SCREWS WITH WASHER FOR FIXING OF THE STEEL SHEET

PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of austenitic stainless steel (bimetallic), with drilling point #3, fine thread and a hex head, with an integrated stainless steel washer with vulcanized EPDM layer.

APPLICATION

Designed for fixing construction corrugated steel sheets to thin-walled steel structures in 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 5	S14	5,5 x 25	5,00	5
GTX 5	S14	5,5 x 32	5,00	12
GTX 5	S14	5,5 x 38	5,00	18
GTX 5	S14	5,5 x 50	5,00	30

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

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NATIONAL TECHNICAL ASSESSMENT ITB-KOT-2018/0680

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

Thickness of substrate[1] [mm]				1,50	2,00	3,00	4,00	5,00	6,00	Wood class ≥ C24
$M_{t,nom}$				6 Nm						
Thickness of steel substrate [2] [mm]	Characteristic capacity	For shear [Kn]	0,50	1,25	1,25	1,25	1,25	—	—	
			0,55	1,25	1,25	1,25	1,25	—	—	
			0,63	1,18	1,18	1,18	1,18	—	—	
			0,75	1,70	1,70	1,70	1,70	—	—	
			0,88	2,07	2,07	2,07	2,07	—	—	
			1,00	2,32	2,32	2,32	2,32	—	—	
			1,13	2,32	2,32	2,32	—	—	—	
			1,25	3,41	3,41	3,41	—	—	—	
			1,50	3,41	3,41	3,41	—	—	—	
			1,75	3,41	3,41	3,41	—	—	—	
			2,00	3,41	3,41	3,41	—	—	—	
		For pull-out [kN]	0,50	1,44	1,96	1,96	2,63	—	—	
			0,55	1,44	1,96	1,96	2,63	—	—	
			0,63	1,44	1,96	1,96	3,59	—	—	
			0,75	1,44	1,96	1,96	4,13	—	—	
			0,88	1,44	1,96	1,96	4,14	—	—	
			1,00	1,44	1,96	1,96	4,71	—	—	
			1,13	1,44	1,96	1,96	—	—	—	
			1,25	1,44	1,96	1,96	—	—	—	
			1,50	1,44	1,96	1,96	—	—	—	
			1,75	1,44	1,96	1,96	—	—	—	
			2,00	1,44	1,96	1,96	—	—	—	

[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%.

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EUROPEAN TECHNICAL APPROVAL ETA-12/0580

CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE

tN,II* [mm]		1,50	2,00	3,00	4,00
VR,k [kN] for tN,I* [mm]	0,50	1,25	1,25	1,25	1,25
	0,55	1,25	1,25	1,25	1,25
	0,63	1,18	1,18	1,18	1,18
	0,75	1,70	1,70	1,70	1,70
	0,88	2,07	2,07	2,07	2,07
	1,00	2,32	2,32	2,32	2,32
	1,13	2,32	2,32	2,32	-
	1,25	3,41	3,41	3,41	-
	1,50	3,41	3,41	3,41	-
	1,75	3,41	3,41	3,41	-
	2,00	3,41	3,41	3,41	-

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 γm = 1.33.

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

tN,II* [mm]		1,50	2,00	3,00	4,00
NR,k [kN] for tN,I* [mm]	0,50	1,44	1,96	2,63	2,63
	0,55	1,44	1,96	2,63	2,63
	0,63	1,44	1,96	3,59	3,59
	0,75	1,44	1,96	4,13	4,13
	0,88	1,44	1,96	4,14	4,14
	1,00	1,44	1,96	4,40	4,71
	1,13	1,44	1,96	4,40	-
	1,25	1,44	1,96	4,40	-
	1,50	1,44	1,96	4,40	-
	1,75	1,44	1,96	4,40	-
	2,00	1,44	1,96	4,40	-

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 γm = 1.33.

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OTHER FEATURES

BASE MATERIAL:	*COLD ROLED STEEL*
SIZE OF HEX HEAD:	*8 mm*
MINIMUM THICKNESS OF STEEL BASE (OVERLAP JOINTS):	*1,50 mm*
MAXIMUM CAPACITY OF DRILLING:	*5,00 mm*
HEAD AND SHAFT MADE OF:	*STAINLESS STEEL CLASS A2*
DRILLING POINT MADE OF:	*CURED ALLOY STEEL*
CORROSIVE ENVIRONMENT:	*C5 I/M*
OPINION ON ANTI-CORROSIVE PROTECTION:	*02248/16/Z00NZM*
POSSIBILITY OF PAINTING:	*YES*
PAINT COATING THICKNESS:	*50 µm*
TIGHTENING TORQUE:	*5 Nm*
RECOMMENDED ROTARY SPEED (IDLE):	*1200 rpm*
DIAMETER OF STAINLESS STEEL WASHER S14	*14 mm*

PZH ETA DWU/DoP KDWU ZKP TC POCC SZU

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