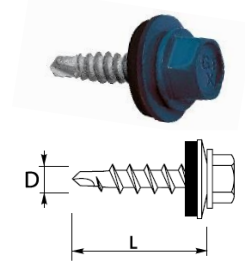


GTX FO2 S14

BIMETALLIC STAINLESS FARMER SCREWS WITH STAINLESS WASHER (STAPLE)

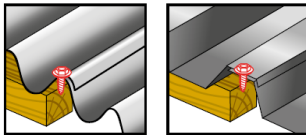


PRODUCT DESCRIPTION


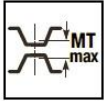
Drilling, self-tapping screws made of austenitic steel, (bimetallic) with a reduced drilling point, wood thread and hex washer head, provided with a stainless washer with vulcanized EPDM.

APPLICATION

Designed for overlap joints of thin corrugated steel sheets (roof tiles) in aggressive environments. Designed for use in environments with corrosivity class C1, C2, C3, C4 C5-I and C5-M atmospheres according to PN-EN ISO 12944-2: 2001 standards.



LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drill capacity [mm]	Maximum thickness of fixed elements [mm] 
			DC	MTmax
GTX FO2	S14	4,8 x 20	2 x 1,00	7

The working length of the fastener 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 ¹⁾ [mm]		0,50	0,55	0,63	0,75	0,88	1,00	Wood class \geq C24	
$M_{t,nom}$		3Nm							
Attachment thickness ²⁾ [mm]	SHEAR [kN]	0,50	0,62	0,62	0,62	0,62	0,62	0,62	/
		0,55	0,62	0,62	0,62	0,62	0,62	0,62	
		0,63	0,62	0,62	1,13	1,13	1,13	1,13	
		0,75	0,62	0,62	1,13	1,46	1,46	1,46	
		0,88	0,62	0,62	1,13	1,46	1,46	1,46	
		1,00	0,62	0,62	1,13	1,46	1,46	1,46	
	FOR PULL OUT [kN]	0,50	0,49	0,49	0,49	0,49	0,49	0,49	
		0,55	0,49	0,49	0,49	0,49	0,49	0,49	
		0,63	0,49	0,49	0,77	0,77	0,77	0,77	
		0,75	0,49	0,49	0,77	0,89	0,89	0,89	
		0,88	0,49	0,49	0,77	0,89	1,01	1,01	
		1,00	0,49	0,49	0,77	0,89	1,01	1,44	

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 $V_{R,k}$ 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

TYPICAL BEARING CAPACITY OF SHEAR FASTENERS

tN,II* [mm]	0,50	0,55	0,63	0,75	0,88	1,00
VR,k [kN] for tN,I* [mm]	0,50	0,62	0,62	0,62	0,62	0,62
	0,55	0,62	0,62	0,62	0,62	0,62
	0,63	0,62	0,62	1,13	1,13	1,13
	0,75	0,62	0,62	1,13	1,46	1,46
	0,88	0,62	0,62	1,13	1,46	1,46
	1,00	0,62	0,62	1,13	1,46	1,46

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 CAPACITY OF PULL-OUT FIXINGS FROM STEEL SUBSTRATE

tN,II* [mm]	0,50	0,55	0,63	0,75	0,88	1,00
NR,k [kN] for tN,I* [mm]	0,50	0,49	0,49	0,49	0,49	0,49
	0,55	0,49	0,49	0,49	0,49	0,49
	0,63	0,49	0,49	0,77	0,77	0,77
	0,75	0,49	0,49	0,77	0,89	0,89
	0,88	0,49	0,49	0,77	0,89	1,01
	1,00	0,49	0,49	0,77	0,89	1,01

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:	METAL TILES
SIZE OF HEX HEAD:	8 mm
MINIMUM THICKNESS OF STEEL BASE:	1 x 0,50 mm
MAXIMUM CAPACITY OF DRILLING:	2 x 1,00 mm
ADDITIONAL CORROSION PROTECTION:	gRey.coat
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:	3 Nm
RECOMMENDED ROTARY SPEED (IDLE):	1300 rpm
DIAMETER OF STAINLESS STEEL WASHER S14	14 mm

