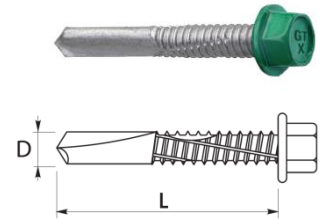


GTX 12

BIMETALLIC, SELF-DRILLING STAINLESS STEEL SCREWS WITHOUT WASHER FOR FIXING OF THE STEEL SHEETS

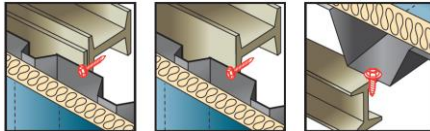


PRODUCT DESCRIPTION


Self-drilling, self-tapping screws made of austenitic stainless steel (bimetallic), with drilling point #5, fine thread and a hex head.

APPLICATION

Designed for fixing construction profiled steel sheets to hot-rolled steel structures in aggressive environments. Possibility of use in environments with corrosivity category C1, C2, C3, C4, C5-I/M according to PN-EN ISO 12944-2: 2001



LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drilling capacity [mm]	Maximum thickness of fixture element [mm]
			DC	MTmax
GTX 12	-	5,5 x 40	12,00	9

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]		4,00	5,00	6,00	8,00	10,00	12,00	Wood class ≥ C24	
M _{t,nom}		6 Nm							
Attachment thickness ²⁾ [mm]	SHEAR [kN]	0,50	1,34	1,34	1,34	1,34	1,34	—	/
		0,55	1,34	1,34	1,34	1,34	1,34	—	
		0,63	1,46	1,46	1,46	1,46	1,46	—	
		0,75	1,93	1,93	1,93	1,93	1,93	—	
		0,88	2,35	2,35	2,35	2,35	2,35	—	
		1,00	2,82	2,82	2,82	2,82	2,82	—	
		1,13	2,82	2,82	2,82	2,82	2,82	—	
		1,25	2,82	2,82	2,82	2,82	2,82	—	
		1,50	2,82	2,82	2,82	2,82	2,82	—	
		1,75	2,82	2,82	2,82	2,82	2,82	—	
	2,00	2,82	2,82	2,82	2,82	2,82	—		
	FOR PULL OUT [kN]	0,50	0,61	0,61	0,61	0,61	0,61	—	
		0,55	0,61	0,61	0,61	0,61	0,61	—	
		0,63	0,90	0,90	0,90	0,90	0,90	—	
		0,75	0,99	0,99	0,99	0,99	0,99	—	
		0,88	0,99	0,99	0,99	0,99	0,99	—	
		1,00	1,13	1,13	1,13	1,13	1,13	—	
		1,13	1,13	1,13	1,13	1,13	1,13	—	
		1,25	1,13	1,13	1,13	1,13	1,13	—	
		1,50	1,13	1,13	1,13	1,13	1,13	—	
1,75		1,13	1,13	1,13	1,13	1,13	—		
2,00	1,13	1,13	1,13	1,13	1,13	—			

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

CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE IN STEEL

tN,II* [mm]	4,00	5,00	6,00	8,00	10,00
VR,k [kN] for tN,I* [mm]	0,50	1,34	1,34	1,34	1,34
	0,55	1,34	1,34	1,34	1,34
	0,63	1,46	1,46	1,46	1,46
	0,75	1,93	1,93	1,93	1,93
	0,88	2,35	2,35	2,35	2,35
	1,00	2,82	2,82	2,82	2,82
	1,13	2,82	2,82	2,82	2,82
	1,25	2,82	2,82	2,82	2,82
	1,50	2,82	2,82	2,82	2,82
	1,75	2,82	2,82	2,82	2,82
	2,00	2,82	2,82	2,82	2,82

Component I: S280GD, S320GD or S350GD – EN 10326

Component II: S280GD, S320GD or S350GD – EN 10326.

To define a design load should divide the value of the characteristic load by a safety factor $\gamma_m = 1,33$.

CHARACTERISTIC LOAD BEARING CAPACITY OF PULL-OUT RESISTANCE IN STEEL

tN,II* [mm]	4,00	5,00	6,00	8,00	10,00
NR,k [kN] for tN,I* [mm]	0,50	0,61	0,61	0,61	0,61
	0,55	0,61	0,61	0,61	0,61
	0,63	0,90	0,90	0,90	0,90
	0,75	0,99	0,99	0,99	0,99
	0,88	0,99	0,99	0,99	0,99
	1,00	1,13	1,13	1,13	1,13
	1,13	1,13	1,13	1,13	1,13
	1,25	1,13	1,13	1,13	1,13
	1,50	1,13	1,13	1,13	1,13
	1,75	1,13	1,13	1,13	1,13
	2,00	1,13	1,13	1,13	1,13

Component I: S280GD, S320GD or S350GD – EN 10326

Component II: S280GD, S320GD or S350GD – EN 10326.

To define a design load should divide the value of the characteristic load by a safety factor $\gamma_m = 1,33$.

OTHER FEATURES

SUBSTRATE MATERIAL:	STEEL PROFILE
THE SIZE OF HEXAGONAL HEAD:	8 mm
MINIMUM THICKNESS OF STEEL BASE:	4,00 mm
MAXIMUM DRILLING CAPACITY:	12,00 mm
HEAD AND SHAFT MADE OF:	STAINLESS STEEL CLASS A2
DRILLING POINT MADE OF:	HARDENED STEEL
CORROSIVITY CATEGORY:	C5 I/M
TECHNICAL OPINION ON CORROSION PROTECTION:	02248/16/Z00NZM
PAINTING POSSIBILITY:	YES
MINIMUM THICKNESS OF POWDER PAINTING:	50 µm
TIGHTENING TORQUE:	5 Nm
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	1300 rpm



PZH



ETA



DWU/DoP



KDWU



ZKP



TC



POCC



SZU