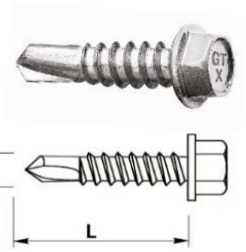
GTX 3 AL

BIMETALLIC STAINLESS STEEL SCREWS FOR ALUMINUM CONSTRUCTION

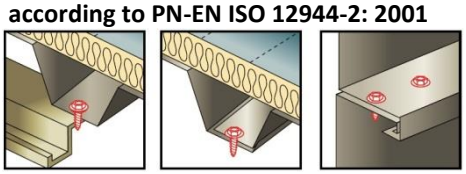


PRODUCT DESCRIPTION

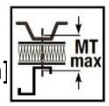
Self-drilling, self-tapping screws made of austenitic stainless steel (bimetallic), with drilling point #2, fine thread and a hex head, without a washer.

APPLICATION

Designed for fixing elements of aluminum structures also for 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 3 AL	NA	5,5 x 25	3,00	11
GTX 3 AL	NA	5,5 x 38	3,00	24

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

Etanco Sp. z o.o., ul. Olsztyńska 30, 11-130 Orneta
Tel: + 48 55 24 22 926 Fax: + 48 55 24 22 956 e-mail: info@etanco.pl

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 ≥ C24
$M_{t,nom}$				6 Nm						
Thickness of steel substrate [2] [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	—	—	—	—	
		For pull-out [kN]	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	0,86	0,96	0,99	0,99	0,99	—	
			0,88	0,86	0,96	1,13	1,13	1,13	—	
			1,00	0,86	0,96	1,13	1,13	1,13	—	
			1,13	0,86	0,96	1,13	1,13	—	—	
			1,25	0,86	0,96	1,13	1,13	—	—	
			1,50	0,86	0,96	1,13	1,13	—	—	
			1,75	0,86	0,96	1,13	—	—	—	
			2,00	0,86	0,96	—	—	—	—	

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

Thickness of substrate[1] [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[2] [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	—	—	

[1] Aluminum 1050A acc. PN-EN 573-3:2010, H42 acc. PN-EN 485-2:2016
[2] Aluminum 1050A acc. PN-EN 573-3:2010, H42 acc. PN-EN 485-2:2016

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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 γm = 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	0,61	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	0,96	0,99	0,99	0,99
	0,88	0,96	0,99	0,99	0,99
	1,00	0,96	1,13	1,13	1,13
	1,13	0,96	1,13	1,13	-
	1,25	0,96	1,13	1,13	-
	1,50	0,96	1,13	1,13	-
	1,75	0,96	1,13	-	-
	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 γm = 1.33.

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OTHER FEATURES

SUBSTRATE MATERIAL:	*COLD-ROLLED STEEL PROFILE, PROFILED METAL SHEET, ALUMINUM PROFILE*
THE SIZE OF HEXAGONAL HEAD:	*8 mm*
MINIMUM THICKNESS OF CONNECTED STEEL SHEETS:	*2 x 0,75 mm*
MAXIMUM DRILLING CAPACITY:	*3,00 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 TORGQE:	*3 Nm*
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	*1200 obr/min*

PZH ETA DWU/DoP KDWU ZKP TC POCC SZU

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