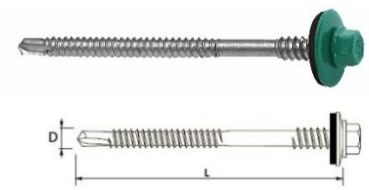
GTX 6 SP S29

BIMETALLIC SELF-DRILLING STAINLESS STEEL SCREWS WITH WASHER FOR FIXING OF SANDWICH PANELS

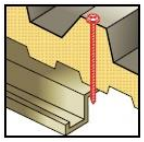


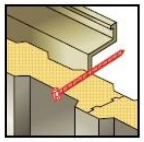
PRODUCT DESCRIPTION

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

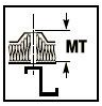
APPLICATION

Designed for mounting sandwich panels to cold 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 drill capacity [mm]	Maximum thickness of fixed elements [mm] 	
			DC	MTmin	MTmax
GTX 6 SP	S29	5,5/6,3 x 85	6,00	35	65
GTX 6 SP	S29	5,5/6,3 x 110	6,00	60	85
GTX 6 SP	S29	5,5/6,3 x 130	6,00	80	105
GTX 6 SP	S29	5,5/6,3 x 150	6,00	100	125
GTX 6 SP	S29	5,5/6,3 x 170	6,00	120	145
GTX 6 SP	S29	5,5/6,3 x 195	6,00	145	170
GTX 6 SP	S29	5,5/6,3 x 225	6,00	175	200
GTX 6 SP	S29	5,5/6,3 x 240	6,00	190	215
GTX 6 SP	S29	5,5/6,3 x 265	6,00	215	240

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

EUROPEAN TECHNICAL APPROVAL ETA-13/0199

CHARACTERISTIC CAPACITIES OF SHEAR ATTACHMENTS AND PULL-OUT FROM STEEL SUBSTRATE, DISPLACEMENT OF THE SCREW HEAD DUE TO HEAT EXPANSION

Element II: t_{II} w [mm]			1,00	1,50	2,00	2,50	3,00	4,00	≥ 5,00
Element I: $t_{n,1}$lub $t_{n,2w}$ [mm]	SHEAR $V_{R,k}$ w [kN]	0,50	1,40	1,40	1,40	1,40	1,40	1,40	1,40
		0,55	1,40	1,40	1,40	1,40	1,40	1,40	1,40
		0,63	1,60	1,60	1,60	1,60	1,60	1,60	1,60
		0,75	2,10	2,10	2,10	2,10	2,10	2,10	2,10
		0,88	2,10	2,10	2,10	2,10	2,10	2,10	2,10
		1,00	2,10	2,10	2,10	2,10	2,10	2,10	2,10
	PULL-OUT $N_{R,k}$ w [kN]	0,50	1,04	1,92	2,56	2,56	2,56	4,23	4,23
		0,55	1,04	1,92	2,56	2,56	2,56	4,23	4,23
		0,63	1,04	1,92	2,56	2,56	2,56	5,82	5,82
		0,75	1,04	1,92	2,56	2,56	2,56	6,35	6,35
		0,88	1,04	1,92	2,56	2,56	2,56	6,35	6,35
		1,00	1,04	1,92	2,56	2,56	2,56	6,35	6,35
Max. head displacement u* depending on the sandwich panel thickness in [mm]		30	12	12	12	12	1,5	1,5	1,5
		40	12	12	12	12	1,5	1,5	1,5
		50	12	12	12	12	1,5	1,5	1,5
		60	18	18	18	18	4	4	4
		70	18	18	18	18	4	4	4
		80	18	18	18	18	4	4	4
		90	23	23	23	23	10	10	10
		100	23	23	23	23	10	10	10
		120	23	23	23	23	10	10	10
		≥140	23	23	23	23	10	10	10

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.
Element II - steel sheet steel of grade S235 according to EN 10025-1 or S280GD; S320GD; S350GD according to EN 10346.
In order to determine the design load, the characteristic load factor must be divided by the safety factor γm = 1.33.

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-2017/0022

CHARACTERISTIC CAPACITIES OF SHEAR ATTACHMENTS AND PULL-OUT FROM STEEL SUBSTRATE, DISPLACEMENT OF THE SCREW HEAD DUE TO HEAT EXPANSION

Element II: t_{II} w [mm]			1,00	1,50	2,00	2,50	3,00	4,00	≥ 5,00
Element I: $t_{n,1}$ lub $t_{n,2w}$ [mm]	SHEAR $V_{R,k}$ w [kN]	0,50	1,40	1,40	1,40	1,40	1,40	1,40	1,40
		0,55	1,40	1,40	1,40	1,40	1,40	1,40	1,40
		0,63	1,60	1,60	1,60	1,60	1,60	1,60	1,60
		0,75	2,10	2,10	2,10	2,10	2,10	2,10	2,10
		0,88	2,10	2,10	2,10	2,10	2,10	2,10	2,10
		1,00	2,10	2,10	2,10	2,10	2,10	2,10	2,10
	PULL-OUT $N_{R,k}$ w [kN]	0,50	1,04	1,92	3,65	3,65	3,65	3,65	3,65
		0,55	1,04	1,92	3,65	3,65	3,65	3,65	3,65
		0,63	1,04	1,92	3,71	3,71	3,71	3,71	3,71
		0,75	1,04	1,92	3,71	3,71	3,71	3,71	3,71
		0,88	1,04	1,92	3,71	3,71	3,71	3,71	3,71
		1,00	1,04	1,92	3,71	3,71	3,71	3,71	3,71
Max. head displacement u* depending on the sandwich panel thickness in [mm]		30	1,5	12	12	12	12	1,5	1,5
		40	1,5	12	12	12	12	1,5	1,5
		50	1,5	12	12	12	12	1,5	1,5
		60	4	18	18	18	18	4	4
		70	4	18	18	18	18	4	4
		80	4	18	18	18	18	4	4
		90	6	23	23	23	23	10	10
		100	6	23	23	23	23	10	10
		120	6	23	23	23	23	10	10
		≥140	6	23	23	23	23	10	10

Element I – steel plate s280gd; s320gd; s350gd accordingto: en 10346.
Element II – steel plate s235 according to: en 10025-1lorsteel plate s280gd; s320gd; s350gd accordingto: en 10346.
To define a design load should divide the value of the characteristic load by a safety factor γm = 1,33.

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OTHER FEATURES

BASE MATERIAL:	*COLD-ROLLED STEEL PROFILE*
SIZE OF HEX HEAD:	*8 mm*
MINIMUM THICKNESS OF STEEL BASE:	*2,0 mm*
MAXIMUM DRILLING CAPACITY:	*6,0 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*
THICKNESS OF POLYESTER PAINT:	*50 µm*
TIGHTENING TORQUE:	*5 Nm*
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	*1200 rpm*
WASHER DIAMETER (STAINLESS S29):	*29 mm*

PZH ETA DWU/DoP KDWU ZKP TC POCC SZU

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