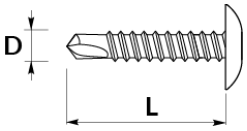
GT 3 PH

SELF-DRILLING SCREWS WITH OVAL HEAD WITHOUT WASHER FOR FIXING STEEL SHEETS

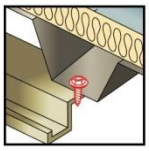
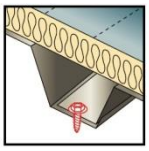


PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, electroplated, with a reduced drilling point #2, fine thread and oval head with TX-25 cut, without a washer.

APPLICATION

Designed for fastening corrugated construction steel sheets to thin-walled steel structures and for overlap joints fastening of construction steel sheets to each other. Protected with paint coating - polyester thickness of not less than 50 µm, intended for use in environments with corrosivity class C1, C2 and C3 according to PN-EN ISO 12944-2: 2001 standard.
Galvanized without paint coating intended for use in environments with corrosivity class C1, C2.

LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drill capacity [mm]	Maximum thickness of fixed elements [mm]
			DC	MTmax
GT 3 PH	NA	4,8 x 19	3,00	6
GT 3 PH	NA	4,8 x 22	3,00	9

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

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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] dla 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	-	-	-

Component I: S280GD, S320GD or S350GD – EN 10346
Component II: S280GD, S320GD or S350GD – EN 10346
To define a design load should divide the value of the characteristic load by a safety factor γ_m **= 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] dla tN,I* [mm]	0,50	0,51	0,51	0,51	0,51
	0,55	0,51	0,51	0,51	0,51
	0,63	0,76	0,76	0,76	0,76
	0,75	0,84	0,84	0,84	0,84
	0,88	0,78	0,78	0,78	0,78
	1,00	0,94	0,94	0,94	0,94
	1,13	0,94	0,94	0,94	-
	1,25	0,94	0,94	0,94	-
	1,50	0,94	0,94	0,94	-
	1,75	0,94	0,94	-	-
	2,00	0,94	-	-	-

Component I: S280GD, S320GD or S350GD – EN 10346
Component II: S280GD, S320GD or S350GD – EN 10346
To define a design load should divide the value of the characteristic load by a safety factor γ_m **= 1,33.**

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OTHER FEATURES

BASE MATERIAL:	*COLD-ROLLED STEEL PROFILE, TRAPEZOIDAL METAL SHEET*
SIZE OF OVAL HEAD:	*TX-25*
MINIMUM THICKNESS OF STEEL BASE (OVERLAP JOINTS):	*1,00 mm*
MAXIMUM CAPACITY OF DRILLING:	*3,00 mm*
THICKNESS OF ZINC COATING:	*12 µm*
CORROSIVE ENVIRONMENT:	*PAINTED - C3* *UNPAINTED - C2*
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):	*1800 rpm*

ETA DWU/DoP ZKP

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