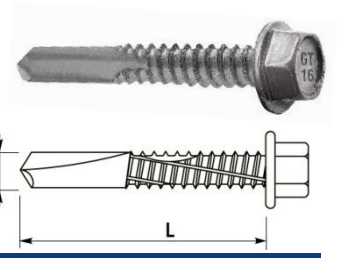
GTR 16

SELF-DRILLING SCREWS WITHOUT WASHER FOR FIXING STEEL SHEETS

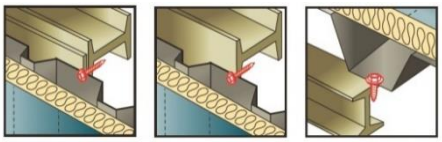


PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, with drilling point #6, fine thread and a hex head, without a washer. Additional corrosion protection: gRey.coat coating.

APPLICATION

Designed for fixing construction corrugated steel sheets to hot-rolled steel structures in of very high thickness. Designed for use in environments with corrosivity class C1, C2, C3, C4 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
GTR 16	NA	6,3 x 40	16,00	3

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

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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]				5,00	6,00	8,00	10,00	12,00	14,00	Wood class ≥ C24
$M_{t,nom}$				6 Nm						
Attachment thickness[2] [mm]	Characteristic load bearing capacity	SHEAR [kN]	0,50	1,42	1,42	1,42	1,42	1,42	—	
			0,55	1,42	1,42	1,42	1,42	1,42	—	
			0,63	1,54	1,54	1,54	1,54	1,54	—	
			0,75	2,10	2,10	2,10	2,10	2,10	—	
			0,88	2,49	2,49	2,49	2,49	2,49	—	
			1,00	3,00	3,00	3,00	3,00	3,00	—	
			1,13	3,00	3,00	3,00	3,00	3,00	—	
			1,25	3,00	3,00	3,00	3,00	3,00	—	
			1,50	3,00	3,00	3,00	3,00	3,00	—	
			1,75	3,00	3,00	3,00	3,00	3,00	—	
			2,00	3,00	3,00	3,00	3,00	3,00	—	
		FOR PULL OUT [kN]	0,50	0,70	0,70	0,70	0,70	0,70	—	
			0,55	0,70	0,70	0,70	0,70	0,70	—	
			0,63	0,88	0,88	0,88	0,88	0,88	—	
			0,75	1,21	1,21	1,21	1,21	1,21	—	
			0,88	1,32	1,32	1,32	1,32	1,32	—	
			1,00	1,60	1,60	1,60	1,60	1,60	—	
			1,13	1,60	1,60	1,60	1,60	1,60	—	
			1,25	1,60	1,60	1,60	1,60	1,60	—	
			1,50	1,60	1,60	1,60	1,60	1,60	—	
			1,75	1,60	1,60	1,60	1,60	1,60	—	
			2,00	1,60	1,60	1,60	1,60	1,60	—	

[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%

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EUROPEAN TECHNICAL APPROVAL ETA-12/0580

CHARACTERISTIC LOAD BEARING CAPACITY OF SHEAR RESISTANCE

tN,II* [mm]		5,00	6,00	8,00	10,00	12,00	14,00
VR,k [kN] for tN,I* [mm]	0,50	1,42	1,42	1,42	1,42	1,42	1,42
	0,55	1,42	1,42	1,42	1,42	1,42	1,42
	0,63	1,54	1,54	1,54	1,54	1,54	1,54
	0,75	2,10	2,10	2,10	2,10	2,10	2,10
	0,88	2,49	2,49	2,49	2,49	2,49	2,49
	1,00	3,00	3,00	3,00	3,00	3,00	3,00
	1,13	3,00	3,00	3,00	3,00	3,00	3,00
	1,25	3,00	3,00	3,00	3,00	3,00	3,00
	1,50	3,00	3,00	3,00	3,00	3,00	3,00
	1,75	3,00	3,00	3,00	3,00	3,00	3,00
	2,00	3,00	3,00	3,00	3,00	3,00	3,00

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]		5,00	6,00	8,00	10,00	12,00	14,00
NR,k [kN] for tN,I* [mm]	0,50	0,70	0,70	0,70	0,70	0,70	0,70
	0,55	0,70	0,70	0,70	0,70	0,70	0,70
	0,63	0,88	0,88	0,88	0,88	0,88	0,88
	0,75	1,21	1,21	1,21	1,21	1,21	1,21
	0,88	1,32	1,32	1,32	1,32	1,32	1,32
	1,00	1,60	1,60	1,60	1,60	1,60	1,60
	1,13	1,60	1,60	1,60	1,60	1,60	1,60
	1,25	1,60	1,60	1,60	1,60	1,60	1,60
	1,50	1,60	1,60	1,60	1,60	1,60	1,60
	1,75	1,60	1,60	1,60	1,60	1,60	1,60
	2,00	1,60	1,60	1,60	1,60	1,60	1,60

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

BASE MATERIAL:	*STEEL PROFILE*
SIZE OF HEX HEAD:	*8 mm*
MINIMUM THICKNESS OF STEEL BASE:	*5,00 mm*
MAXIMUM DRILLING CAPACITY:	*16,00 mm*
ADDITIONAL CORROSION PROTECTION:	*gRey.coat*
CORROSIVITY CATEGORY:	*C4*
TECHNICAL OPINION ON CORROSION PROTECTION:	*02248/16/Z00NZM*
PAINTING POSSIBILITY:	*YES*
THICKNESS OF POLYESTER PAINT:	*50 µm*
TIGHTENING TORQUE:	*7 Nm*
RECOMMENDED ROTARY SPEED (IDLE):	*1300 rpm*

ETA DWU/DoP KDWU ZKP TC POCC SZU

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