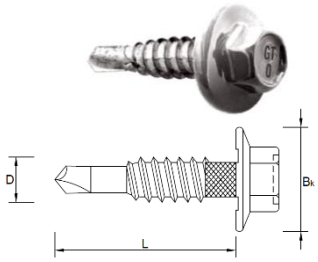
GT O3 FH



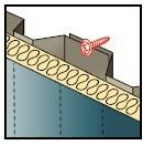
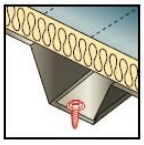
SELF-DRILLING SCREWS WITH FLAN GE HEAD FOR OVERLAP JOINTS (STAPLE)

PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, galvanized, with a reduced drilling point, fine thread and a hex head, with integrated flange head.

APPLICATION

Designed for overlap joints fastening of corrugated construction steel sheets to each other and construction steel sheets to thin-walled steel structures. Galvanized without paint coating intended for use in environments with corrosivity class C1, C2.


LENGTH OF SCREWS

Type		Dimensions D x L [mm]	Maximum drill capacity [mm]	Maximum thickness of fixed elements [mm] 
			DC	MTmax
GT 03 FH	brak	6,3 x 22	2 x 1,25	6,00

The working length of the fastener 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]				0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25	Wood class ≥ C24
$M_{t,nom}$				3Nm								
Attachment thickness [2] [mm]	Characteristic load bearing capacity	SHEAR [kN]	0,50	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	
			0,55	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53	
			0,63	1,53	1,53	1,88	1,88	1,88	1,88	1,88	1,88	
			0,75	1,53	1,53	1,88	2,92	2,92	2,92	2,92	2,92	
			0,88	1,53	1,53	1,88	2,92	3,21	3,21	3,21	3,21	
			1,00	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,66	
			1,13	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,66	
			1,25	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,69	
		FOR PULL OUT [kN]	0,50	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			0,55	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			0,63	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			0,75	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			0,88	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			1,00	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			1,13	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	
			1,25	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01	

[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]		0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25
VR,k [kN] for tN,I* [mm]	0,50	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53
	0,55	1,53	1,53	1,53	1,53	1,53	1,53	1,53	1,53
	0,63	1,53	1,53	1,88	1,88	1,88	1,88	1,88	1,88
	0,75	1,53	1,53	1,88	2,92	2,92	2,92	2,92	2,92
	0,88	1,53	1,53	1,88	2,92	3,21	3,21	3,21	3,21
	1,00	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,66
	1,13	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,66
	1,25	1,53	1,53	1,88	2,92	3,21	3,66	3,66	3,69

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 γ_m **= 1,33.**

CHARACTERISTIC LOAD BEARING CAPACITY OF PULL-OUT RESISTANCE IN A STEEL BASE

tN,II* [mm]		0,50	0,55	0,63	0,75	0,88	1,00	1,13	1,25
NR,k [kN] for tN,I* [mm]	0,50	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	0,55	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	0,63	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	0,75	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	0,88	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	1,00	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	1,13	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01
	1,25	0,53	0,53	0,69	0,84	1,02	1,77	1,77	2,01

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 γ_m **= 1,33.**

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OTHER FEATURES

SUBSTRATE MATERIAL:	*PROFILED METAL SHEET*
THE SIZE OF HEXAGONAL HEAD:	*8 mm*
MINIMUM THICKNESS OF CONNECTED STEEL SHEETS:	*2 x 0,50 mm*
MAXIMUM DRILLING CAPACITY:	*2 x 1,25 mm*
THICKNESS OF THE ZINC COATING:	*12 µm*
TIGHTENING TORGQE:	*4 Nm*
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	*1800 rpm*

ETA DWU/DoP KDWU ZKP TC POCC SZU

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