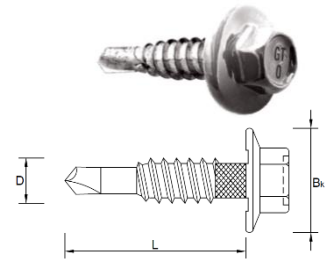


GT 03 FH

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



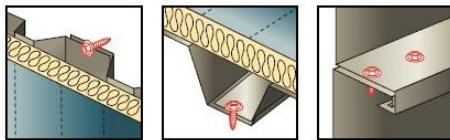
PRODUCT DESCRIPTION

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. 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 12944-2:2018 standard.

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.

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 \geq C24	
$M_{t,nom}$		3Nm									
Attachment thickness ²⁾ [mm]	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%									

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
	0,55	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
	0,75	1,53	1,53	1,88	2,92	2,92	2,92	2,92
	0,88	1,53	1,53	1,88	2,92	3,21	3,21	3,21
	1,00	1,53	1,53	1,88	2,92	3,21	3,66	3,66
	1,13	1,53	1,53	1,88	2,92	3,21	3,66	3,66
	1,25	1,53	1,53	1,88	2,92	3,21	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 $\gamma_m = 1,33$.

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	2,01
	0,55	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	0,63	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	0,75	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	0,88	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	1,00	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	1,13	0,53	0,53	0,69	0,84	1,02	1,77	2,01
	1,25	0,53	0,53	0,69	0,84	1,02	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 $\gamma_m = 1,33$.

OTHER FEATURES

SUBSTRATE MATERIAL:	<i>PROFILED METAL SHEET</i>
THE SIZE OF HEXAGONAL HEAD:	<i>8 mm</i>
MINIMUM THICKNESS OF CONNECTED STEEL SHEETS:	<i>2 x 0,50 mm</i>
MAXIMUM DRILLING CAPACITY:	<i>2 x 1,25 mm</i>
THICKNESS OF THE ZINC COATING:	<i>12 µm</i>
CORROSIVE ENVIRONMENT:	<i>PAINTED - C3 UNPAINTED - C2</i>
OPINION ON ANTI-CORROSIVE PROTECTION:	<i>02248/16/Z00NZM</i>
POSSIBILITY OF PAINTING:	<i>YES</i>
PAINT COATING THICKNESS	<i>50 µm</i>
TIGHTENING TORQUE:	<i>4 Nm</i>
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	<i>1800 rpm</i>

