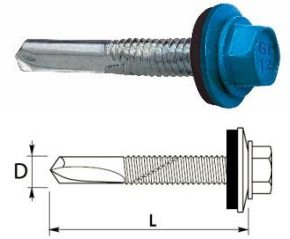


GT 12 Z14

SELF-DRILLING SCREWS WITH WASHER
FOR FIXING STEEL SHEETS



PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, electroplated, drilling point #5, with fine thread and hex head, with integrated steel washer with vulcanized EPDM.


APPLICATION

Designed for fastening construction corrugated steel sheets to hot-rolled 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: 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 12	Z14	5,5 x 35	12,00	1

The working length of the connector 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]		4,00	5,00	6,00	8,00	10,00	12,00	Wood class ≥ C24	
M _{t, nom}		6 Nm							
Attachment thickness ²⁾ [mm]	SHEAR [kN]	0,50	1,34	1,34	1,34	1,34	1,34	—	
		0,55	1,34	1,34	1,34	1,34	1,34	—	
		0,63	1,46	1,46	1,46	1,46	1,46	—	
		0,75	1,93	1,93	1,93	1,93	1,93	—	
		0,88	2,35	2,35	2,35	2,35	2,35	—	
		1,00	2,82	2,82	2,82	2,82	2,82	—	
		1,13	2,82	2,82	2,82	2,82	2,82	—	
		1,25	2,82	2,82	2,82	2,82	2,82	—	
		1,50	2,82	2,82	2,82	2,82	2,82	—	
		1,75	2,82	2,82	2,82	2,82	2,82	—	
	2,00	2,82	2,82	2,82	2,82	2,82	—		
	FOR PULL OUT [kN]	0,50	2,63	2,63	2,63	2,63	2,63	—	
		0,55	2,63	2,63	2,63	2,63	2,63	—	
		0,63	3,59	3,59	3,59	3,59	3,59	—	
		0,75	4,13	4,13	4,13	4,13	4,13	—	
		0,88	4,14	4,14	4,14	4,14	4,14	—	
		1,00	4,71	4,71	4,71	4,71	4,71	—	
		1,13	4,71	4,71	4,71	4,71	4,71	—	
		1,25	4,71	4,71	4,71	4,71	4,71	—	
		1,50	4,71	4,71	4,71	4,71	4,71	—	
1,75		4,71	4,71	4,71	4,71	4,71	—		
2,00	4,71	4,71	4,71	4,71	4,71	—			

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]	4,00	5,00	6,00	8,00	10,00
VR,k [kN] for tN,I* [mm]	0,50	1,34	1,34	1,34	1,34
	0,55	1,34	1,34	1,34	1,34
	0,63	1,46	1,46	1,46	1,46
	0,75	1,93	1,93	1,93	1,93
	0,88	2,35	2,35	2,35	2,35
	1,00	2,82	2,82	2,82	2,82
	1,13	2,82	2,82	2,82	2,82
	1,25	2,82	2,82	2,82	2,82
	1,50	2,82	2,82	2,82	2,82
	1,75	2,82	2,82	2,82	2,82
	2,00	2,82	2,82	2,82	2,82

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 $\gamma_m = 1.33$.

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

tN,II* [mm]	4,00	5,00	6,00	8,00	10,00
NR,k [kN] for tN,I* [mm]	0,50	2,63	2,63	2,63	2,63
	0,55	2,63	2,63	2,63	2,63
	0,63	3,59	3,59	3,59	3,59
	0,75	4,13	4,13	4,13	4,13
	0,88	4,14	4,14	4,14	4,14
	1,00	4,71	4,71	4,71	4,71
	1,13	4,71	4,71	4,71	4,71
	1,25	4,71	4,71	4,71	4,71
	1,50	4,71	4,71	4,71	4,71
	1,75	4,71	4,71	4,71	4,71
	2,00	4,71	4,71	4,71	4,71

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 $\gamma_m = 1.33$.

OTHER FEATURES

SUBSTRATE MATERIAL:	STEEL PROFILE
SIZE OF HEX HEAD:	8 mm
MINIMUM CAPACITY OF DRILLING:	4,00 mm
MAXIMUM CAPACITY OF DRILLING:	12,00 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::	5 Nm
RECOMMENDED ROTARY SPEED (IDLE):	1500 rpm
DIAMETER OF STEEL WASHER Z14:	14 mm



ETA



DWU/DoP



KDWU



ZKP



РОССТРОЙ
Техническое свидетельство

TC



POCC



SZU