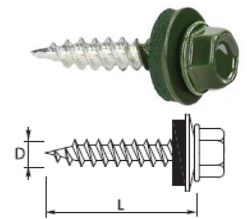


GT FS Z14

FARMER SCREWS WITH STEEL WASHER WITHOUT A DRILL BIT

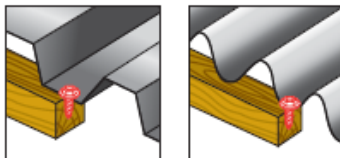


PRODUCT DESCRIPTION



Drilling carbon steel screws, surface-hardened, electro-galvanized, with thread for wood and hex head, with integrated steel washer with vulcanized EPDM.

APPLICATION

Designed for fixing thin steel sheets (roof tiles) to a timber structure. 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 FS	Z14	4,8 x 25	2 x 0,75	2
GT FS	Z14	4,8 x 50	2 x 0,75	27
GT FS	Z14	4,8 x 65	2 x 0,75	42
GT FS	Z14	4,8 x 80	2 x 0,75	57

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

NATIONAL TECHNICAL ASSESSMENT ITB-KOT-2018/0680

TYPICAL BEARING CAPACITY OF SHEAR AND PULL-OUT FIXINGS FROM WOOD SUBSTRATE

Thickness of substrate in [mm]		0,50	0,55	0,63	0,75	0,88	1,00	Wood class \geq C24	
Mt,nom		3 [Nm]							
Characteristic bearing capacity	For shear VR,k [kN]	0,50	-	-	-	-	-	-	0,80
		0,55	-	-	-	-	-	-	1,40
		0,63	-	-	-	-	-	-	1,40
		0,75	-	-	-	-	-	-	1,40
		0,88	-	-	-	-	-	-	-
		1,00	-	-	-	-	-	-	-
	For pull-out NR,k [kN]	0,50	-	-	-	-	-	-	2,78
		0,55	-	-	-	-	-	-	2,78
		0,63	-	-	-	-	-	-	4,51
		0,75	-	-	-	-	-	-	4,51
		0,88	-	-	-	-	-	-	-
		1,00	-	-	-	-	-	-	-

*Substrate and fastened sheet steel made of S280GD grade; S320GD; S350GD according to PN-EN 10346: 2011.
In order to determine the design load, the characteristic load factor must be divided by the safety factor $\gamma_m = 1.33$*

EUROPEAN TECHNICAL APPROVAL ETA-12/0580

TYPICAL BEARING CAPACITY OF SHEAR FASTENERS

tN,II* [mm]	0,50	0,55	0,63	0,75	0,88	1,00	Wood class \geq C24
VR,k [kN] for tN,I* [mm]	0,50	-	-	-	-	-	0,80
	0,55	-	-	-	-	-	1,40
	0,63	-	-	-	-	-	1,40
	0,75	-	-	-	-	-	1,40
	0,88	-	-	-	-	-	-
	1,00	-	-	-	-	-	-

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

Element II - construction timber according to EN 14081

In order to determine the design load, the characteristic load factor must be divided by the safety factor $\gamma_m = 1.33$.

CHARACTERISTIC LOAD CAPACITY OF PULL-OUT FIXINGS FROM WOOD SUBSTRATE

tN,II* [mm]	0,50	0,55	0,63	0,75	0,88	1,00	Wood class \geq C24
NR,k [kN] for tN,I* [mm]	0,50	-	-	-	-	-	2,78
	0,55	-	-	-	-	-	2,78
	0,63	-	-	-	-	-	4,51
	0,75	-	-	-	-	-	4,51
	0,88	-	-	-	-	-	-
	1,00	-	-	-	-	-	-

Element I - sheet steel of S280GD grade; S320GD; S350GD according to EN 10346.

Element II - construction timber according to EN 14081

In order to determine the design load, the characteristic load factor must be divided by the safety factor $\gamma_m = 1.33$.

OTHER FEATURES

BASE MATERIAL:	WOOD
SIZE OF HEX HEAD:	8 mm
MINIMUM THICKNESS OF STEEL BASE:	1 x 0,50 mm
MAXIMUM CAPACITY OF DRILLING:	2 x 0,75 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
EFFECTIVE ANCHORAGE DEPTH IN THE SUBSTRATE (l_{ef}):	20 mm
DIAMETER OF STAINLESS STEEL WASHER S14	14 mm



ETA



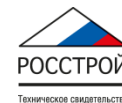
DWU/DoP



KDWU



ZKP



TC



POCC



SZU