

GTR O2 A14

SELF-DRILLING SCREWS WITH WASHER
FOR OVERLAP JOINTS (STITCH)



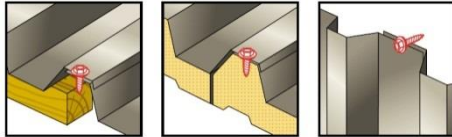
PRODUCT DESCRIPTION

Self-drilling, self-tapping screws made of surface-hardened carbon steel, with a reduced drilling point, fine thread and a hex head, with an integrated aluminum washer with vulcanized EPDM.
Additional corrosion protection: gRey.coat coating.


APPLICATION

Designed for fastening overlap joints of corrugated construction steel sheets and lining of sandwich panels (roof tiles).

Possibility of use in environments with corrosivity category C1, C2, C3, C4 according to PN-EN ISO 12944-2: 2001



LENGTH OF SCREWS

Fastener type		Dimensions D x L [mm]	Maximum drilling capacity [mm]	Maximum thickness MT _{max} of the fixture element [mm]
			DC	MT _{max}
GTR O2	A14	4,8 x 20	2 x 1,00	7,00

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	Wood class \geq C24	
$M_{t,nom}$		3Nm							
Attachment thickness ²⁾ [mm]	Characteristic load bearing capacity SHEAR [kN]	0,50	1,05	1,05	1,05	1,05	1,05	1,05	/
		0,55	1,05	1,05	1,05	1,05	1,05	1,05	
		0,63	1,05	1,05	1,42	1,42	1,42	1,42	
		0,75	1,05	1,05	1,42	2,02	2,02	2,02	
		0,88	1,05	1,05	1,42	2,02	2,21	2,21	
		1,00	1,05	1,05	1,42	2,02	2,21	2,53	
	FOR PULL OUT [kN]	0,50	0,55	0,55	0,73	0,86	1,04	1,59	/
		0,55	0,55	0,55	0,73	0,86	1,04	1,59	
		0,63	0,55	0,55	0,73	0,86	1,04	1,59	
		0,75	0,55	0,55	0,73	0,86	1,04	1,59	
		0,88	0,55	0,55	0,73	0,86	1,04	1,59	
		1,00	0,55	0,55	0,73	0,86	1,04	1,59	

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
VR,k [kN] for tN,I* [mm]	0,50	0,57	0,57	1,14	1,25	1,25	1,74
	0,55	-	-	1,14	1,25	1,25	1,74
	0,63	-	-	1,14	1,25	1,25	1,74
	0,75	-	-	-	1,25	1,25	1,74
	0,88	-	-	-	-	1,25	1,74
	1,00	-	-	-	-	-	1,74

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
NR,k [kN] for tN,I* [mm]	0,50	0,49	0,49	0,93	1,06	1,07	1,44
	0,55	-	-	0,93	1,06	1,07	1,44
	0,63	-	-	0,93	1,06	1,07	1,44
	0,75	-	-	-	1,06	1,07	1,44
	0,88	-	-	-	-	1,07	1,44
	1,00	-	-	-	-	-	1,44

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 1,00 mm</i>
ADDITIONAL CORROSION PROTECTION:	<i>gRey.coat</i>
CORROSIVITY CATEGORY:	<i>C4</i>
TECHNICAL OPINION:	<i>02248/16/Z00NZM</i>
PAINTING POSSIBILITY:	<i>YES</i>
MINIMUM THICKNESS OF POWDER PAINTING:	<i>50 µm</i>
TIGHTENING TORQUE:	<i>3 Nm</i>
RECOMMENDED SPEED OF THE TOOL WITHOUT LOAD:	<i>1800 rpm</i>
WASHER DIAMETER (ALUMINUM A14):	<i>14 mm</i>



ETA



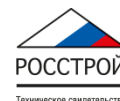
DWU/DoP



KDWU



ZKP



POCCTOY
Техническое свидетельство

TC



POCC



SZU