

STITCHER SCREW

SELF DRILLING SCREW FOR STITCHING OF THIN GAUGE SHEETING



- CORONA™ head for an aesthetic finish
- #1 drill point for increased pull-out values
- Surface treated with zinc for good corrosion resistance
- EPDM washer for better load distribution and sealing abilities
- Available in more than 500 colours (QUALICOAT certified powder)



European Technical
Assessment ETA-25/0383



Effective
length



TX recess



Corrosion
category C3



Hardened
steel

PRODUCT RANGE

MG/PG	Item no.	Item name	Washer [mm]	Thread [mm]	Length L [mm]	Effective length L _{ef} [mm]	Drill capacity [mm]	Head [mm]	Unit [pcs]
06 2330	10210	CORONA™ 4.8 X 23 #1 TX20 EPDM-9.5B	EPDM Ø9.5	Ø4.8	23	13.0	2 x 0.5 - 2 x 1.0	Ø13.8 TX20	250

TYPICAL APPLICATION

- Stitching of thin gauge sheeting

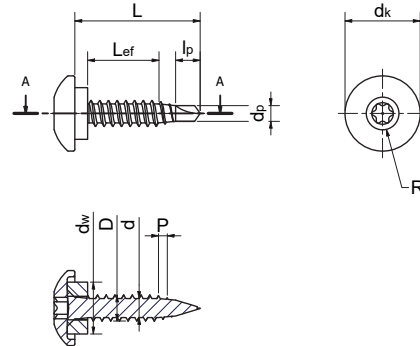


INSTALLATION INSTRUCTIONS

For optimal drill performance, it is recommended that the rotational speed is 1800 - 2500 RPM.

TECHNICAL DATA

Outer diameter, D	[mm]	Ø4.8
Inner diameter, d	[mm]	Ø3.5
Head diameter, d _k	[mm]	Ø13.8
Washer diameter, d _w	[mm]	Ø9.5
Drill point diameter, d _p	[mm]	Ø2.9
Drill point length, l _p	[mm]	4.5
Pitch, P	[mm]	1.6
Drive type, R	[-]	TX20



DESIGN RESISTANCE

The design resistance of the screw is determined in accordance with european technical assessment ETA-25/0383.

The resistance when loaded in tension, N_{Rd}, appears from the table on the right and is the minimum value of the pull-out resistance of the supporting object, the pull-through resistance of the fixed object, and the tension resistance of the screw.

The resistance when loaded in shear, V_{Rd}, appears from the table on the right and is the minimum value of the bearing resistance of the supporting object and the fixed object, and the shear resistance of the screw.

The theoretical values must be considered indicative since the conditions at the construction site may vary. Practical tests of the specific application are recommended for verification of the listed values.

Assumptions:

Fixed object: Steel S280GD - EN 10346

Supporting object: Steel S280GD - EN 10346

t_I = Thickness of the fixed object [mm]

t_{II} = Thickness of the supporting object [mm]

All resistances are stated in kN (1 kN ≈ 100 kg)

Safety factor: γ_M = 1.35

MG/PG: 06 2330 CORONA™ 4.8 X L #1 TX20 EPDM-9.5B

Design resistance when loaded in tension, N _{Rd} [kN]								
t _I \ t _{II}	0.50	0.55	0.63	0.75	0.88	1.00	1.13	1.25
0.50	0.42	0.46	0.53	0.78	0.99	1.07	1.07	1.07
0.55	0.42	0.46	0.53	0.78	0.99	1.20	1.22	1.22
0.63	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.46
0.75	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.64
0.88	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.64
1.00	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.64
1.13	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.64
1.25	0.42	0.46	0.53	0.78	0.99	1.20	1.42	1.64

Design resistance when loaded in shear, V _{Rd} [kN]								
t _I \ t _{II}	0.50	0.55	0.63	0.75	0.88	1.00	1.13	1.25
0.50	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
0.55	0.79	0.96	0.96	0.96	0.96	0.96	0.96	0.96
0.63	0.79	0.96	1.22	1.22	1.22	1.22	1.22	1.22
0.75	0.79	0.96	1.22	1.64	1.64	1.64	1.64	1.64
0.88	0.79	0.96	1.22	1.64	1.94	1.94	1.94	1.94
1.00	0.79	0.96	1.22	1.64	1.94	2.24	2.24	2.24
1.13	0.79	0.96	1.22	1.64	1.94	2.24	2.64	2.64
1.25	0.79	0.96	1.22	1.64	1.94	2.24	2.64	3.03

DECLARATION OF PERFORMANCE

In compliance with 'REGULATION (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products' (the Construction Products Regulation or CPR), it is stated that the performance of the construction product identified below is in conformity with the declared performance.

Product identification

MG:06 PG:2330 | CORONA™ 4.8 X L #1 TX20 EPDM-9.5B

(Main Group # Product Group # | Item name)

The screws mentioned above are packed in branded cartons clearly marked with CE according to ETA-25/0383. For specification of the intended use and declared performance of the product please refer to the technical data sheet.

Placed on the market by:

ASTON SWEDEN AB

Hangarvägen 23

SE-691 35 Karlskoga, Sweden

(Name / address)

European Assessment Document: EAD 330046-01-0602

European Technical Assessment: ETA-25/0383

Technical Assessment Body: ETA Danmark

Notified Body no.: 1488

System of AVCP: 2+

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.



Morten Johansen
M.Sc., Engineering



SWEDEN

Company stamp
RED HORSE | dissing as

2018-04-23

Date of issue