

PRODUCT DATA SHEET – WSBP-T-4.8

Section 1. PRODUCT DESCRIPTION

SELF-DRILLING TORX SCREW WITH ALUMINUM EPDM WASHER

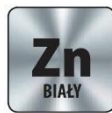
FOR LONGITUDINAL FASTENING OF SHEET METAL OVERLAPPING (STAPLER), TX20 SOCKET

WSBP-T-4.8

The WSBP-T-4.8 self-drilling screw is made of surface-hardened carbon steel with a 12 [µm] zinc coating (WSBP-T). The screw features a countersunk head with a TORX socket, a steel-threaded shank, a drill-shaped blade, and an EPDM sealing washer. The self-drilling screw heads can be coated with a RAL paint finish, which is durable, resistant to mechanical damage and UV radiation, ensuring long-lasting color retention.

Application:

- for overlapping sheet metal joints
- for "sewing" metal roof tiles
- for sheet metal work



Section 2. INSTALLATION METHOD

1. Only original self-drilling screws supplied by the manufacturer may be used.
2. Before starting the installation, it is necessary to identify the substrate, its thickness and environmental conditions (expressed in terms of corrosivity), and then select screws that meet the above criteria
3. It is necessary to select the correct screw type, its length and drilling capacity depending on the total thickness of the elements being connected.
4. The drilling capacity for each screw is given in the dedicated Technical Data Sheet and in the European Technical Assessment and means the sum of the thicknesses of the connected elements
5. It is necessary to set the optimal speed when screwing, too high speed may cause burning of drill bits and the inability to secure them properly
6. Screw installation should always be carried out perpendicular to the substrate surface.
7. The washer must be pressed properly, as too strong or too weak pressure may cause leaks, which may result in corrosion at the connection point.

Section 3. TECHNICAL DATA

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Screw diameter	d _w [mm]	4,8
Drilling capacity	Σt _i [mm]	≤ 2,5
Drive	S [mm]	TX20
Drill length	[mm]	5,0
Screw material	-	carbon steel
Protective coating	WSBP-T	galvanic zinc plating 12 µm
EPDM washer D [mm]	WSBP-T	aluminum A14
Paint according to the RAL	-	min. 60 µm
Substrate material	-	steel ≥ S280GD

ASSEMBLY PARAMETERS		
Parameter	Unit	Value
Screw diameter	d _w [mm]	4,8
Diameter of the hole in the ground	d ₀ [mm]	-
Min. depth of hole in the ground	h ₀ [mm]	-
Anchorage depth	h _{eff} [mm]	in passing
Min. substrate thickness	h _{min} [mm]	0,5
Min. screw spacing	s _{min} [mm]	50
Min. distance from edge	c _{min} [mm]	25

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STRENGTH PARAMETERS						
Characteristic tensile/shear load capacity [kN]						
Substrate thickness [mm]	Thickness of the sheet metal being fastened [mm]					
	0,50	0,63	0,75	0,88	1,00	1,25
0,50	0,64/1,10	0,64/1,10	0,64/1,10	0,64/1,10	0,64/1,10	0,64/1,10
0,63	0,64/1,10	0,82/1,50	0,82/1,50	0,82/1,50	0,82/1,50	0,82/1,50
0,75	0,64/1,10	0,82/1,50	0,96/1,74	0,96/1,74	0,96/1,74	0,96/1,74
0,88	0,64/1,10	0,82/1,50	0,96/1,74	1,28/1,74	1,28/1,74	1,28/1,74
1,00	0,64/1,10	0,82/1,50	0,96/1,74	1,28/1,74	1,55/1,74	1,55/1,74
1,25	0,64/1,10	0,82/1,50	0,96/1,74	1,28/1,74	1,55/1,74	2,21/1,74

*A partial safety factor of 1.33 is recommended

SELECTION TABLE				
WSBP-T (ZN galvanic zinc plating)	WSBP-T-RAL (galvanic zinc coating ZN + RAL)	Screw dimensions	Maximum usable length	Number of pieces in the package
		d _w x L _w [mm]	t _{fix} [mm]	[pcs]
WSBP-T-48019	WSBP-T-48019-RAL	4,8 x 19	1,5	250

*Screw available upon request and order

Section 4. NOTES

1. All previous versions of this Technical Data Sheet are no longer valid.
2. The data contained in this Product Data Sheet is consistent with the current state of knowledge and is provided in good faith. In the event of failure to follow the product's application and installation recommendations, Klimas Wkręt-met Sp. z o.o. is not responsible for the correctness and quality of the connection.