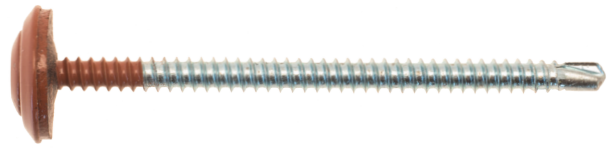
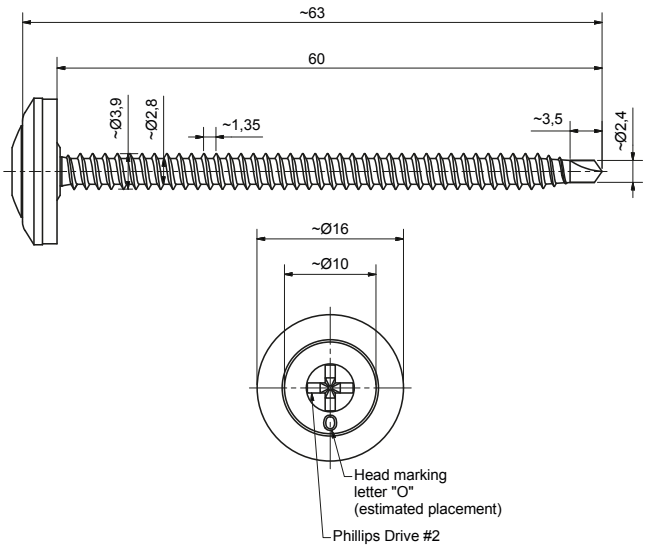
Technical data sheet
TXXXX - V01 - 12-2019

SCREW FOR ROOFING - 60 (+3) mm

Self drilling screw for fastening of roofing sheet to steel/wood

Nominal diameter		Ø3.9 mm
Length	L	60 (+3) mm
Head		LP™ (low profile) head with Phillips drive
Material		Carbon steel (C1016 - C1022)
Drill point		#1S
Drill capacity		Max. 2.0 mm (steel 280GD)
Washer		Ø16mm M-washer in aluminium vulcanized EPDM rubber
Surface treatment		Electroplated, 7 µm zink with blue chrome passivation
Service class		2 (acc. EN 1995-1-1)
Corrosion category		C2 (acc. EN ISO 12944-6)





Technical characteristics

CARRYING CAPACITY

The carrying capacity is calculated in accordance to the current standards. The tensile capacity for the connection are the minimum values of the pullout values and the tensile resistance of the screw. The head pull-through resistances is not taken into account.

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

ASSUMPTIONS

Supporting object: Steel S280GD - EN 10346
Supporting object: Structural timber, C24 (ρ_k= 350kg/m^3)
Fixed object: Roofing sheet
L_g= Setting depth of in the supporting object [mm]
F_{Rd} = Design resistance [kN]
The values are in kN (1kN ≈ 100kg)
Safety factor: γ_M = 1.35, k_{mod}=0.90

TENSILE CAPACITY IN STEEL

L_g	1,0	1,25	1,50	1,75	2,0
F_{Rd}	0,47	0,59	1,01	1,18	1,35

TENSILE CAPACITY IN WOOD

L_g	20,0	25,0	30,0	35,0
F_{Rd}	1,06	1,29	1,52	1,75

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