

# Pisko® sheet metal screw

Ø 6,3 x 19 HX8 A2

The Pisko sheet metal screw is a special screw made of stainless steel for various mounting needs, where sheet metal serves as the mounting base. For example, attachments made to the surface of sandwich panels ask a lot of the screw: waterproofness, long-lasting fastening strength and durability, withstanding wind load and good shearing and pullout strength are required qualities. Pisko sheet metal screws can be fastened with no chipping, and the fastening strength is based on the metal collar formed by the sheet metal and the screw.



With the Pisko sheet metal screw, the mounting and securing of accessories and products can be carried out reliably and safely. The stainless steel screw withstands even harsh conditions for a long time, and the high-quality EPDM seal prevents water from entering through the screw holes. In addition, the seal isolates the metal surfaces from each other, avoiding the possibility of galvanic corrosion. The Pisko sheet metal screw has been extensively tested, which is why designers can be offered ready-made ratings based on testing for the design of screw fastenings.

The Pisko sheet metal screw is also the primarily recommended screw for securing Pisko fixing plates designed for sandwich panels, as well as other Pisko products where the fastening is done directly on the sheet metal (e.g., Pisko® MultiFast or Pisko® Solar products that are in some applications directly attached to the surface of the steel roofing). The screw works best with steel plates less than 2 mm in thickness. Thicker plates can be fastened using pre-drilled holes according to the table below – using pre-drilled holes also makes fastening thinner plates easier.

### Predrilling table

Steel thickness	Drill diameter
2.0 - 4.0 mm	Ø6 mm
4.0 - 5.0 mm	Ø6 mm

### Dimensioning table for Pisko® sheet metal screw 6,3\*19 mm

Screw connection to one face of sandwich panels

Yield strength of the panel facing  $\geq 280$  MPa

Yield strength of the attached steel  $\geq 280$  MPa

### Characteristic connection values

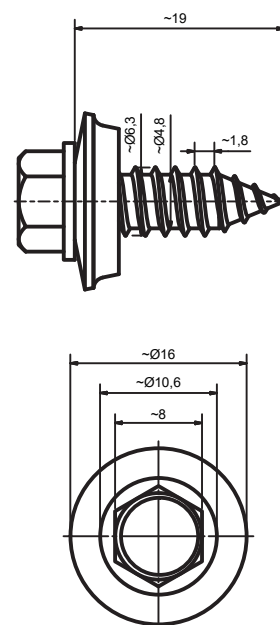
[kN]	Tensile strength		Shear strength*	Shear strength**
	Static - $N_{Rk}$	Cyclic - $N_{Rk,rep}$	$V_{Rk}$	$V_{Rk}$
Panel face 0,5 mm	0,93	0,93	1,52	1,41
Panel face 0,6 mm	1,18	1,07	1,56	-

\*Minimum thickness for attached steel profile is 2 mm

\*\*Minimum thickness for attached steel profile is 1 mm

Design values can be derived by dividing characteristic values with material factor:

- Fixing to sandwich panels  $\gamma_{M2} = 1,33$  (according to EN 14509)
- When fixing to other sheet metal surfaces  $\gamma_{M2} = 1,25$  (according to EN 1993-1-3)



Nova code: 82437

### Screw tightening guide

The screw should not be over tightened, and it is recommended to tighten the screw at <600 rpm.

