



For the calculus of the maximum shear + pulling strength the next equation must be taken into consideration:

$$\frac{F_{v,Ed}}{F_{v,Rd}} + \frac{F_{t,Ed}}{1,4 \cdot F_{t,Rd}} \leq 1,0$$

where $F_{v,Ed}$ is the shear load acting on the screw; $F_{v,Rd}$, the shear strength of the screw; $F_{t,Ed}$, the axial load acting on the screw; and $F_{t,Rd}$, the pulling strength of the screw.

MAXIMUM SHEAR LOADS ($V_{R,k}$) AND PULLOUT LOADS ($N_{R,k}$) IN 2 mm ALUMINUM PROFILE + STEEL PURLIN OF A THICKNESS OF 'e'							
e (mm)	1.50	1.75	2.00	2.50	3.00	4.00	2x1.50
$V_{R,k}$ (kN)	1.69	2.13	2.56	2.83	3.10	3.63	1.69
$N_{R,k}$ (kN)	1.70	2.15	2.60	3.50	4.50	4.50	2.70

Specifications

Description	Fastening of aluminum structures to steel substructures of a thickness of 1.5-6 mm.
Length	35 mm
Diameter	5.5 mm
Washer's outer diameter	16 mm
Anchoring surface	Steel purlin
Features	Bimetallic drill bit screw Pre-assembled stainless steel + EPDM sealing washer (Class A1) Excellent gripping properties Maximum drilling thickness $\leq 6,0$ mm
Max. installation speed	1300 rpm
Driving	SW8
Minimum thickness	1.50 mm



Tools required:



Safety:



Marking
ES19/86524 CE