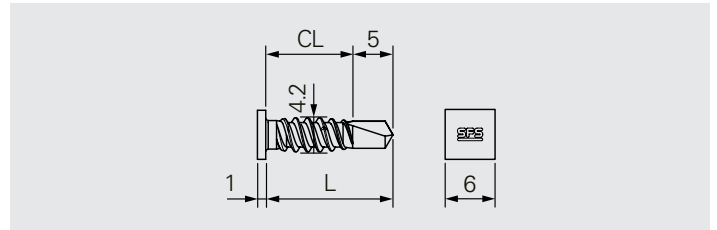
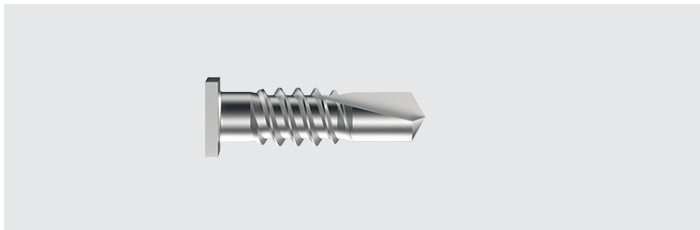


SDL3-F-4.2xL



Application

Fastening of light gauge steel frames.

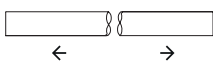
Guidelines for processing

Fastener can also be installed overtightened
Socket E466 (Mat. no. 858496) required for installation

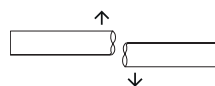
Material	Coating	Design
Heat treated carbon steel	GS: Chrome (VI)-free 480h salt spray test without red rust	Self drilling fastener Flat, square head shape

Component 1 (t _i / t _{ii})	Component 2 (t _{ii})	CL (mm)	Max. drilling capacity (mm)
Steel 0.70–2.0	Steel 0.70–2.0	1.40–2.70	3.0

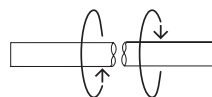
Essential characteristics



Tensile breaking load $Z_{b,k}$
6.70 kN



Shear breaking load $Q_{b,k}$
5.73 kN



Torsional breaking $M_{t,k}$
6.56 Nm

Calculation formula for F_{RK} according to EN 1993-1-3 table A2 with $\alpha=1.92$ for $n=10$

Characteristic shear resistance $F_{V,k}$ in steel S235 JR ($R_m \geq 360$ MPa) and steel S320 GD ($R_m \geq 390$ MPa)

$F_{V,k}$ (kN)		t_{II} [mm]			
		0.75	1.50		
Material		S235 JR	S320 GD	S235 JR	S320 GD
t_{II} [mm]	0.75	–	–	2.64	2.86
	1.50	2.58	2.80	–	–

Characteristic pull-out resistance $F_{Z,k}$ in steel S235 JR ($R_m \geq 360$ MPa) and steel S320 GD ($R_m \geq 390$ MPa)

$F_{Z,k}$			
Material		S235 JR	S320 GD
t_{II} [mm]	0.75	0.80	0.87
	1.50	2.34	2.54

Characteristic pull-through resistance $F_{U,k}$ in steel S235 JR ($R_m \geq 360$ MPa) and steel S320 GD ($R_m \geq 390$ MPa)

$F_{U,k}$			
Material		S235 JR	S320 GD
t_{II} [mm]	0.75	2.74	2.97
	≥ 1.50	3.70	4.01

All tables in this data-sheet refer to characteristic values based on test results according to EN 1993-1-3 Table A2 for $n = 10$.