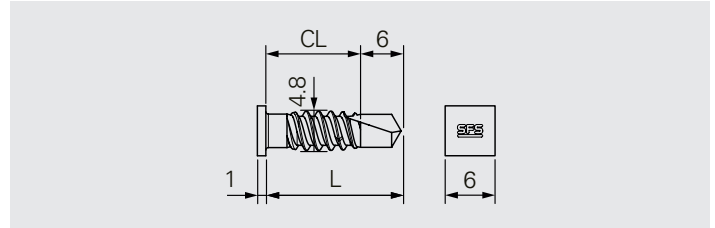
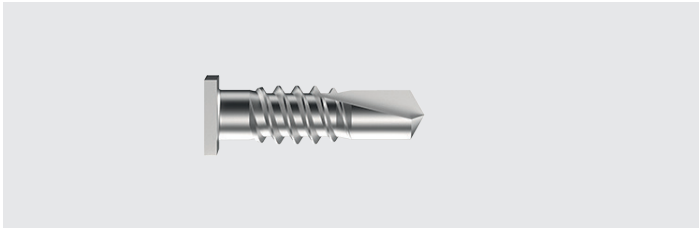


# SDL4-F-4.8xL



### Application

Fastening of light gauge steel frames.

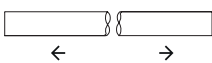
### Guidelines for processing

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

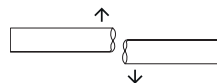
Material	Coating	Design
Heat treated carbon steel	Durocoat® 1000h salt spray test, 15 cycles Kesternich test without red rust	Self drilling fastener Flat, square head shape

Component 1 (t <sub>i</sub> / t <sub>ii</sub> ) (mm)	Component 2 (t <sub>ii</sub> ) (mm)	CL (mm)	Max. drilling capacity (mm)
Steel 0.70–2.0	Steel 0.70–2.0	2.70–4.0	4.0

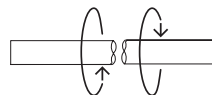
### Essential characteristics



**Tensile breaking load  $Z_{b,k}$**   
6.53 kN



**Shear breaking load  $Q_{b,k}$**   
6.92 kN



**Torsional breaking  $M_{t,k}$**   
9.21 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]		1.50		2.00		2.50	
		1.00							
Material		S235 JR	S320 GD	S235 JR	S320 GD	S235 JR	S320 GD	S235 JR	S320 GD
$t_I$ [mm]	1.25	–	–	3.04	3.29	–	–	–	–
	1.50	3.20	3.47	3.80	4.12	4.15	4.49	4.34	4.70
	2.00	3.35	3.63	4.33	4.69	4.52	4.97	–	–

**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	0.66	0.71
	1.00	1.06	1.15
	1.50	2.14	2.32
	2.00	2.79	–

**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
$t_I$ [mm]	1.25	2.47	2.68
	$\geq 1.50$	2.67	2.94

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