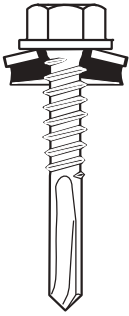
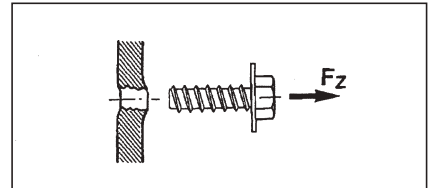


## SD14 $\varnothing$ 5,5



### Pull-out load $F_Z$ (N)



Part II (support)

Material	Thickness (mm)	$\bar{x}$	s
St37	4,00	12500	620
	5,00	15500	850
	6,00	17750	1060
	8,00	20000	1400
	10,00	20000	1400

### Material

Fastener:  
Carbon steel 8.8

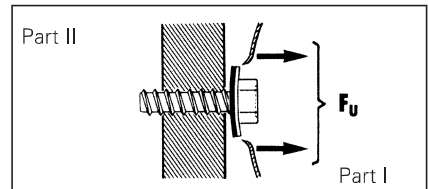
Washer:  
Carbon steel 8.8  
with vulcanized EPDM

### Size

Head/ Drive:  
Hex., 8 mm A/F

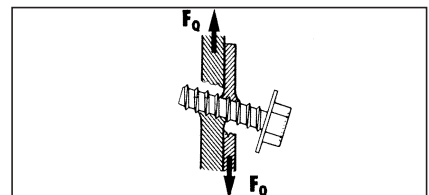
Washer:  
see technical values

### Pull-over load $F_u$ (N)



Material	Sheet-thickness Part I (mm)	Washer T16		Washer T19	
		$\bar{x}$	s	$\bar{x}$	s
St37	0,50	4950	400	5450	440
	0,63	5620	350	6020	380
	0,75	7100	460	7200	470
	0,88	7600	510	7800	530
	1,00	8400	590	8600	600

### Shear load $F_Q$ (N)



Material	Thickness in mm		Washer T16	
	Part I	Part II	$\bar{x}$	s
St37	0,63	4,00	3800	460
	1,00	4,00	6900	830
	1,50	4,00	10600	1270
	0,63	10,00	4000	480
	1,00	10,00	7800	940
	1,50	10,00	11600	1400

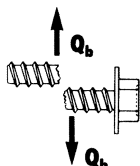
Figures obtained with displacement of 3 mm between purlin and sheet.

### Tensile breaking load $Z_b$ (N)



20000

### Shear breaking load $Q_b$ (N)



12000

All stated values are  $\bar{x}$  values, representing the arithmetical mean value from laboratory testing concluded up to now, appropriate safety margins should be applied for field conditions. Consult also your country's approval documents. Further information is contained in our technical data sheets, or consult the SFS technical advisory service.  
s = standard deviation