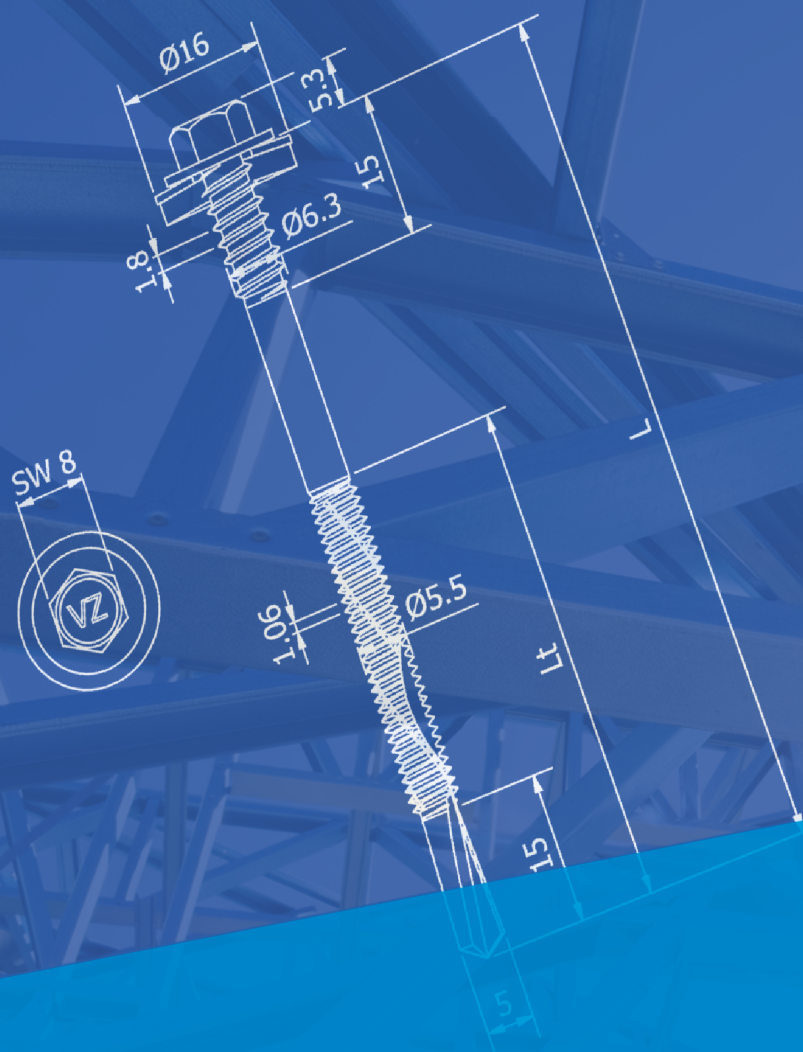


NEES

FASTENERS & FIXINGS

TEST REPORT
No. 070-063747
Summary



Test report No. 070-063747 summary

On tests on fastener screws for metal members, sheeting and for sandwich panels.

Testing Laboratory No. 1018.3 accredited by ČIA pursuant to ČSN EN ISO/IEC 17025:2018
 TZUS Technical and Test Institute for Construction Prague - Testing Department Ostrava

Sample data

Evidence Number: VZ070230288
 Sample: Fastening screws for metal members and sheeting and fastening screws for sandwich panels
 Order/contract: Order on 25/04/2023 (Z070230128) and 09/05/2023 (Z070230153)
 Method of sample preparation: Testing samples were prepared by company EPIGON spol. s.r.o.

Test methods

Identification of the test method:		Title of the test method
EAD 330046-01-0602 P.2.2.1.1	Fastening screws for metal members and sheeting	Shear resistance of the Connection
EAD 330046-01-0602 P.2.2.2.1, 2.2.2.3	Fastening screws for metal members and sheeting	Tension resistance of the Connection
EAD 330047-01-0602 P.2.2.1.1	Fastening screws for sandwich panels (this test method is not included in the scope of accreditation)	Shear resistance of the Connection
EAD 330047-01-0602 P.2.2.2.1, 2.2.2.3	Fastening screws for sandwich panels (this test method is not included in the scope of accreditation)	Tension resistance of the Connection

Determination of Design Values

The design value of tension and shear resistance has to be determined as follows:

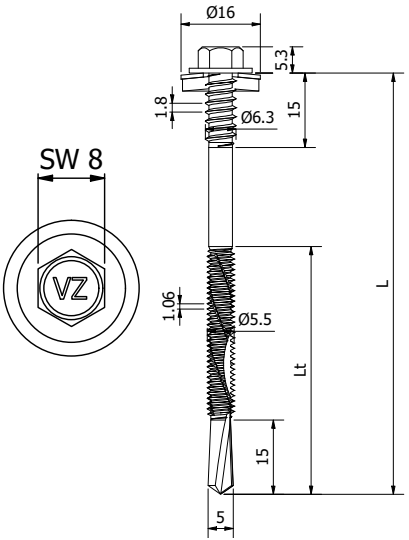
$$N_{R,d II} = \frac{N_{R,K II}}{Y_M} \quad N_{R,d} = \frac{N_{R,K}}{Y_M} \quad V_{R,d} = \frac{V_{R,K}}{Y_M}$$

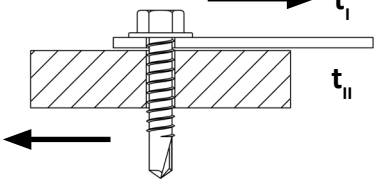
The recommended partial safety factor $Y_M = 1.33$ is used, provided no partial safety factor is given in national regulations or national Annexes to Eurocode 3.

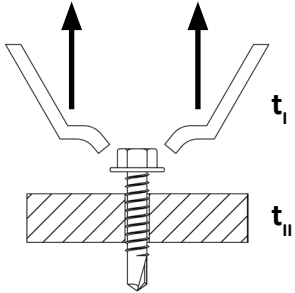
Test results

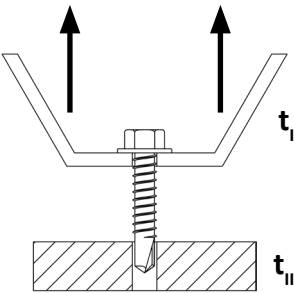
The test were performed on: 22/08/2023 - 20/09-2023
 Place of testing: Laboratories of Testing Department Ostrava
 The tests were performed by: Bohdan Sousedik

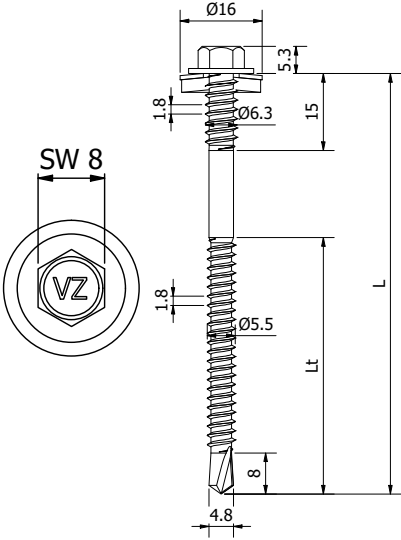
For a copy of the full report please contact:
sales@nesbv.nl

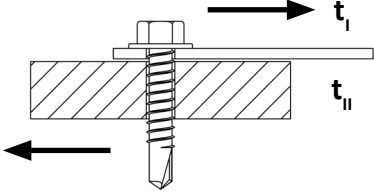
	VZHT5: sandwich screw for heavy section steel		
	Test acc. to EAD 330047-01-0602 Fastening screws for sandwich panel		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.3/5.5 x L Drill point #5 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S355MC		
Drilling capacity: ≤12mm			

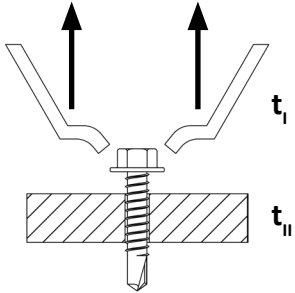
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	5.00	0.55	1.51
		0.63	1.73

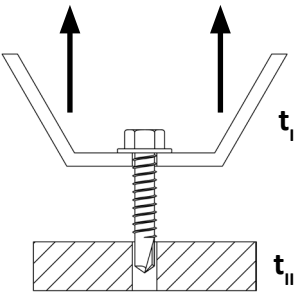
 <p>Pull over force $N_{R,K II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K II}$ (kN)
	5.00	0.55	3.97
		0.63	4.62

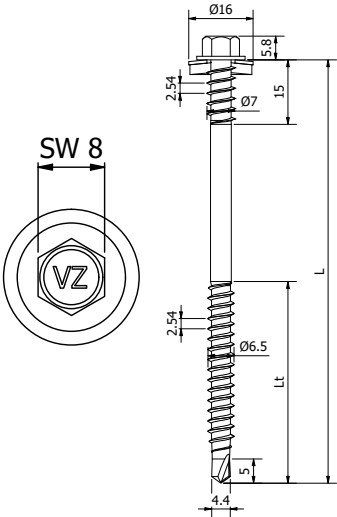
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	5.00		9.75

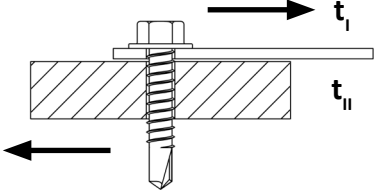
	VZHT3: sandwich screw for light section steel		
	Test acc. to EAD 330047-01-0602 Fastening screws for sandwich panel		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.3/5.5 x L Drill point #3 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤5mm			

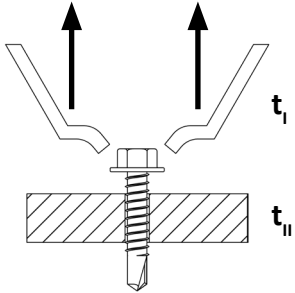
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	2.00	0.55	1.40
		0.63	1.46

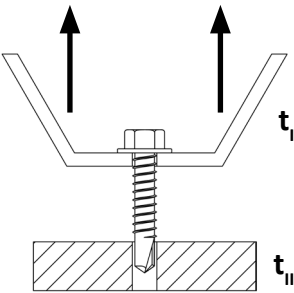
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.55	4.54
		0.63	4.56

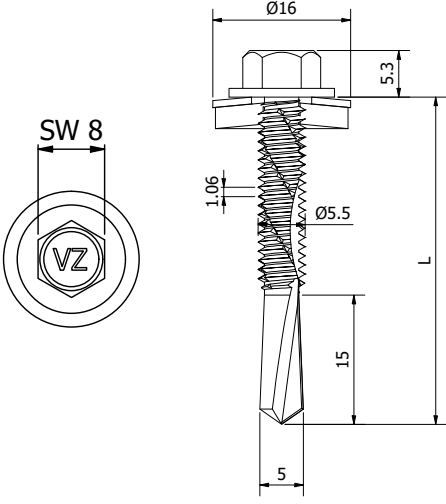
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	2.00		1.78

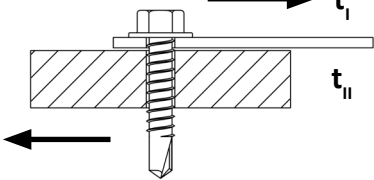
	VZHT2: sandwich screw for timber substructure		
	Test acc. to EAD 330047-01-0602 Fastening screws for sandwich panel		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 7.0/6.5 x L Drill point #2 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: spruce wood C24		
Drilling capacity: ≤2mm			

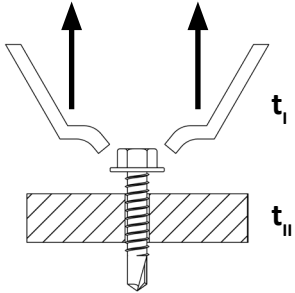
 <p style="text-align: center;">Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	55.00 (Drilling depth 39mm)	0.55	1.32
		0.63	1.26

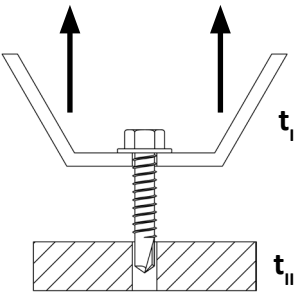
 <p style="text-align: center;">Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
	55.00 (Drilling depth 39mm)	0.55	4.14
		0.63	4.13

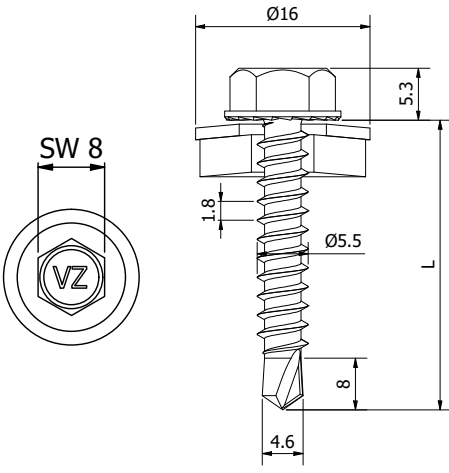
 <p style="text-align: center;">Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	55.00 (Drilling depth 39mm)		2.38

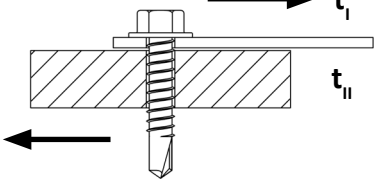
	VZH5: self drilling screw for heavy section steel		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 5.5 x L Drill point#5 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S355MC		
Drilling capacity: ≤12mm			

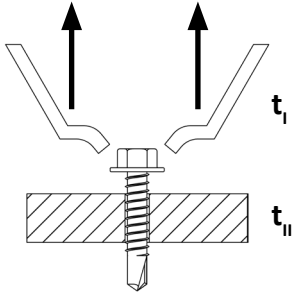
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	5.00	0.63	2.83
		1.00	4.29

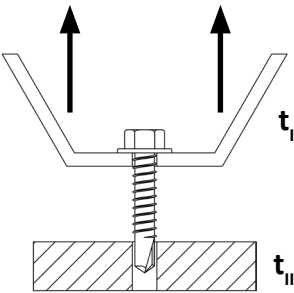
 <p>Pull over force $N_{R,K II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K II}$ (kN)
	5.00	0.63	4.44
		1.00	6.91

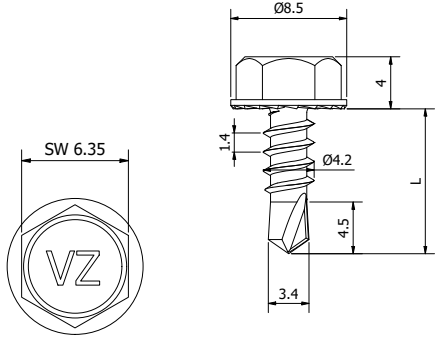
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	5.00	5.00	7.56

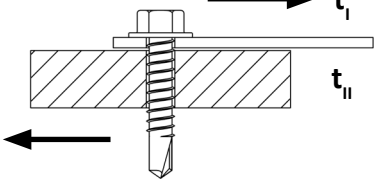
	VZH3: self drilling screw for profile to light section steel		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 5.5 x L Drill point #3 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤5.5mm			

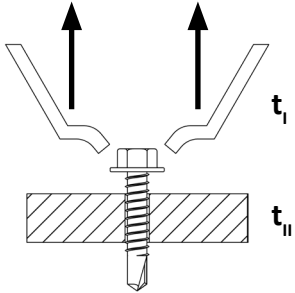
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	2.00	0.55	2.58
		0.63	2.51

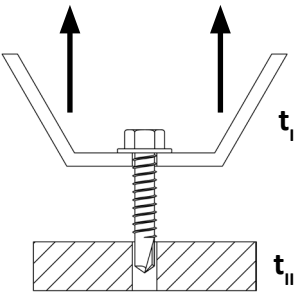
 <p>Pull over force $N_{R,KII}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,KII}$ (kN)
		0.55	3.30
		0.63	3.78

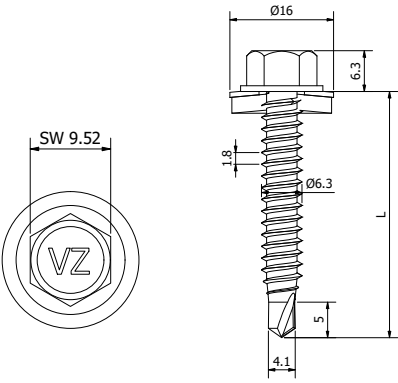
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	2.00		
			1.97

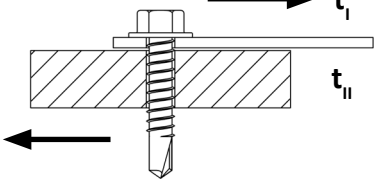
	VZH2: self drilling screw for stitching steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Drill point #2 Materials: Fastener: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤3mm			

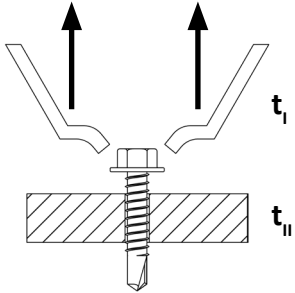
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	1.50
		1.00	2.35

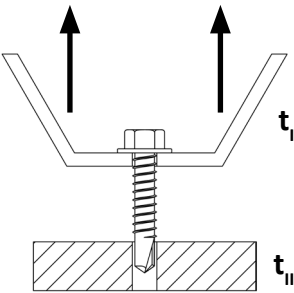
 <p>Pull over force $N_{R,KII}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,KII}$ (kN)
		0.63	2.82
	1.00	4.60	

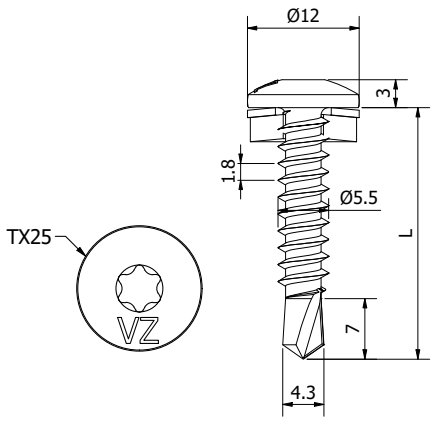
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		0.43

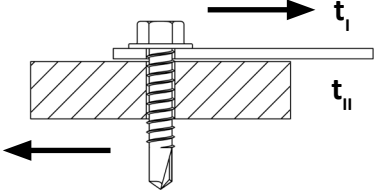
	VZH163: self drilling screw for stitching steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.3 x L Drill point #1 reduced Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x1mm			

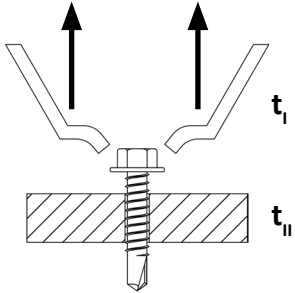
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	2.56
		1.00	2.88

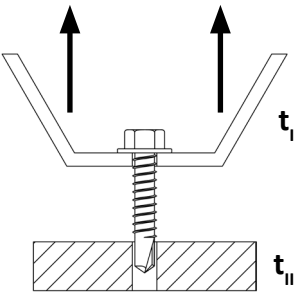
 <p>Pull over force $N_{R,K II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K II}$ (kN)
	1.00	0.63	3.84
		1.00	7.21

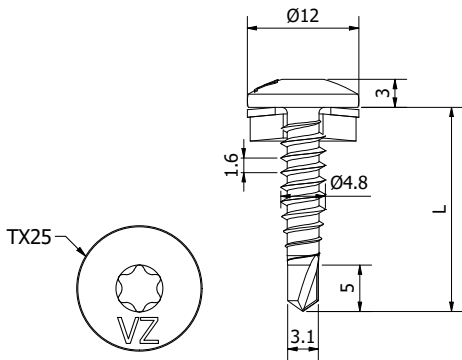
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00	1.00	1.87

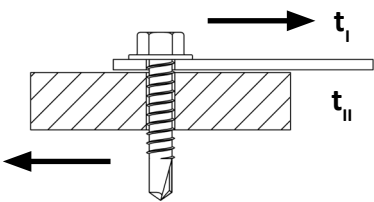
	VZT2: self drilling screw for fixing profile to light section steel		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 5.5 x L Drill point #2 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤3.5mm			

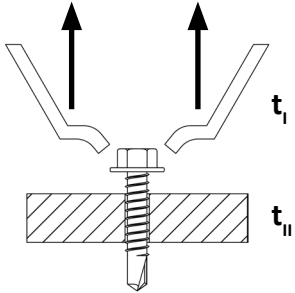
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	2.09
1.00		2.24	

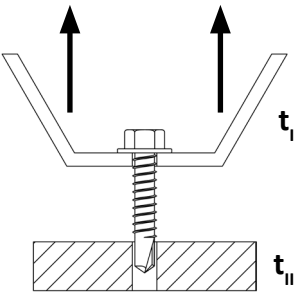
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
	1.00	0.63	3.22
1.00		5.47	

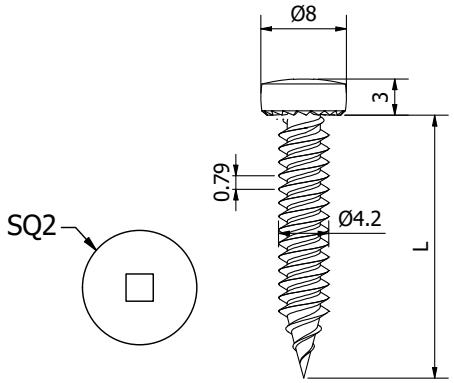
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		1.15

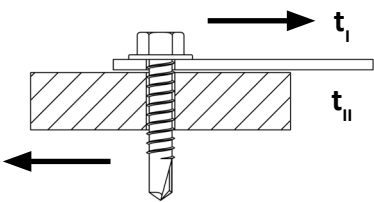
	VZT1: self drilling screw for stitching steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.8 x L Drill point #1 Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x1mm			

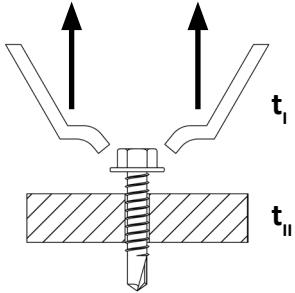
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	1.90
		1.00	2.19

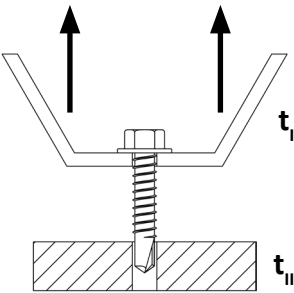
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.63	3.89
		1.00	5.84

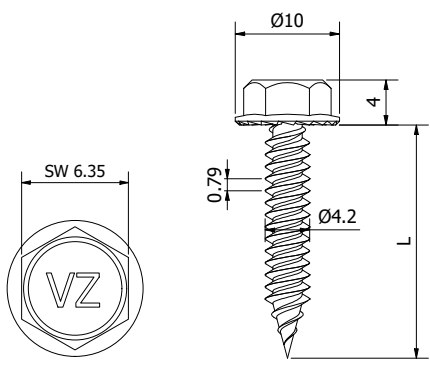
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		1.38

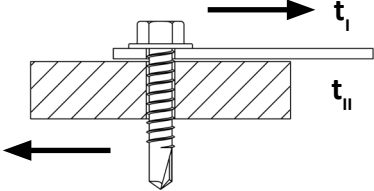
	VZBSQSP: stitcher for steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Sharp point Materials: Fastener: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x0.7mm			

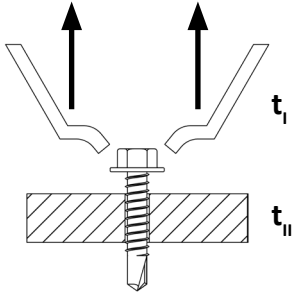
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	1.66
1.00		2.08	

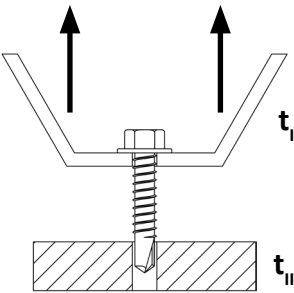
 <p>Pull over force $N_{R,K II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K II}$ (kN)
	1.00	0.63	2.95
1.00		3.95	

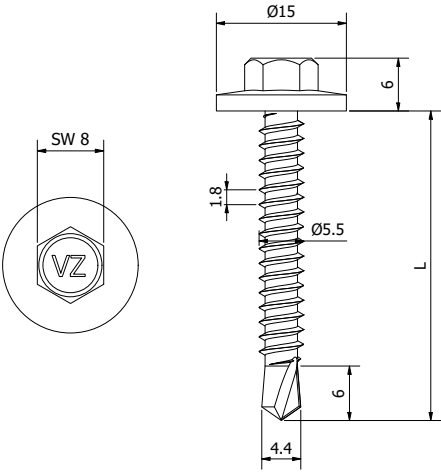
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		0.82

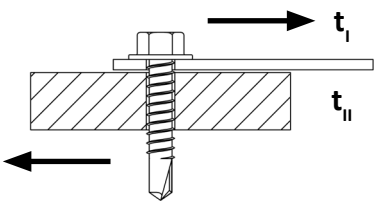
	VZHSP: stitcher for steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Sharp point Materials: Fastener: C1022 carbon steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x0.7mm			

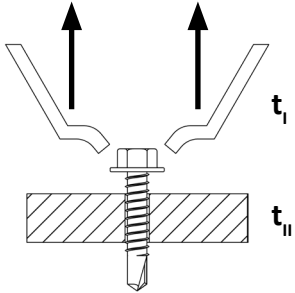
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	2.23
		1.00	2.25

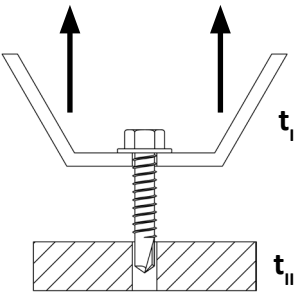
 <p>Pull over force $N_{R,KII}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,KII}$ (kN)
		0.63	2.81
	1.00	4.42	

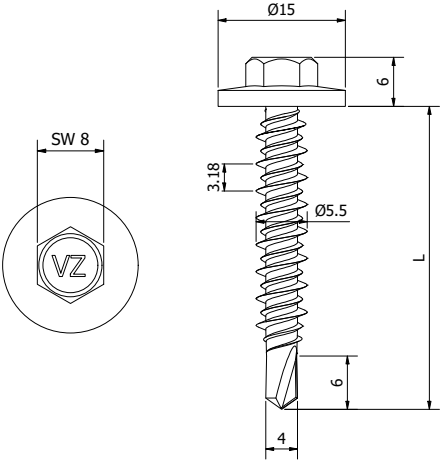
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		0.82

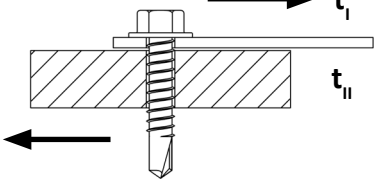
	SS102: self drilling screw for fixing profile to light section steel		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 5.5 x L Drill point #2 Materials: Fastener: C1022 carbon steel / Washer: EPDM Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤4mm			

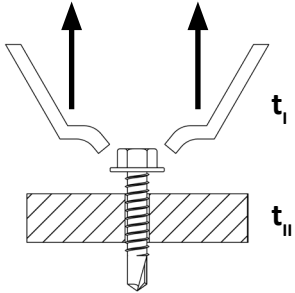
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	1.66
1.00		2.40	

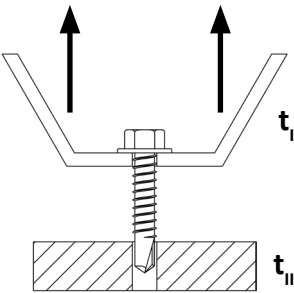
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
	1.00	0.63	4.08
1.00		7.18	

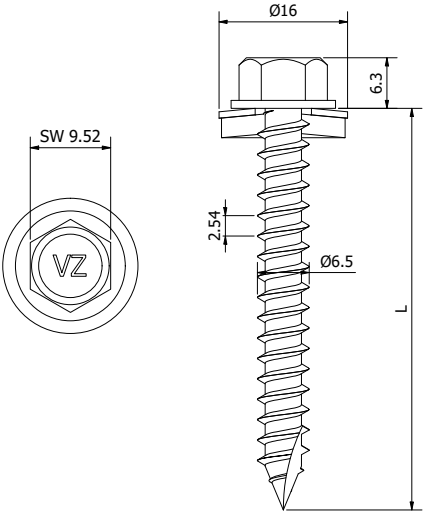
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		0.95

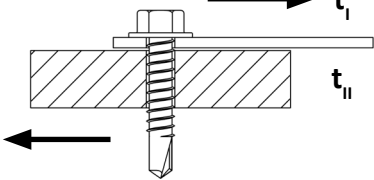
	SS1HL: self drilling screw for fixing profile to timber substructure		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 5.5 x L Drill point #2 reduced Materials: Fastener: C1022 carbon steel / Washer: EPDM Component I: steel S250GD Component II: spruce wood C24		
Drilling capacity: ≤3.5mm			

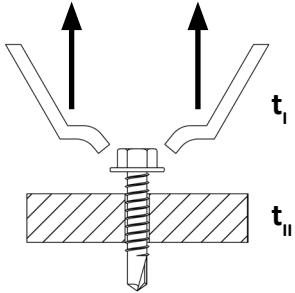
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	55.00 (Drilling depth 29mm)	0.63	1.16
		0.70	1.28

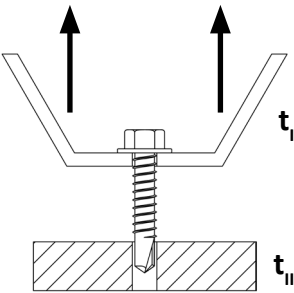
 <p>Pull over force $N_{R,KII}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,KII}$ (kN)
		0.63	3.63
		0.70	3.90

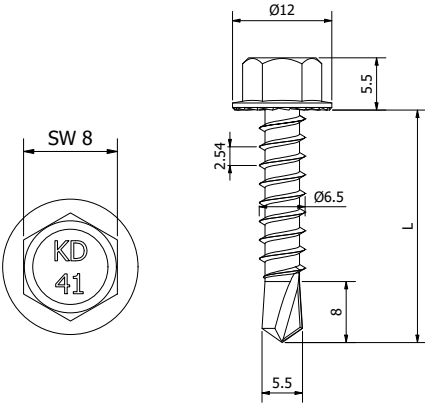
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	55.00 (Drilling depth 29mm)		1.10

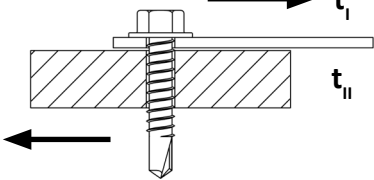
	220065T17: façade screw for fixing profile to timber substructure		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.5 x L Materials: Fastener: C1022 carbon steel / Washer: C1022 carbon steel Component I: steel S250GD Component II: spruce wood C24		
Drilling capacity: ≤2mm			

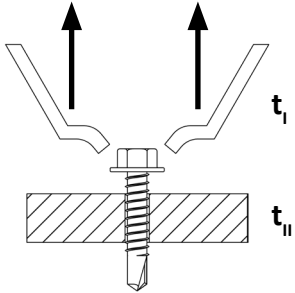
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	55.00 (Drilling depth 39mm)	0.55	1.69
		0.63	1.62

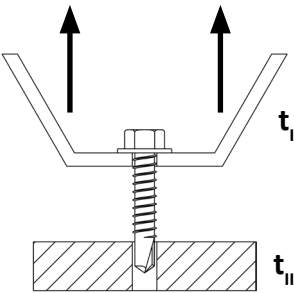
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.55	3.56
		0.63	4.23

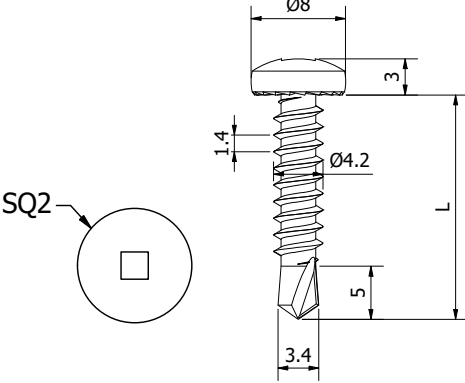
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	55.00 (Drilling depth 49mm)		3.41

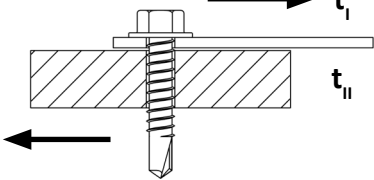
	410065: self drilling screw for fixing profile to timber substructure		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.5 x L Drill point #3 Materials: Fastener: C1022 carbon steel Component I: steel S250GD Component II: spruce wood C24		
Drilling capacity: ≤6mm			

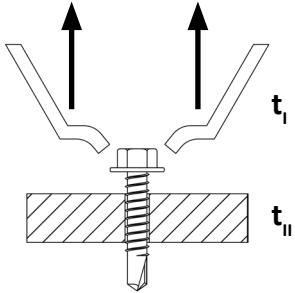
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	55.00 (Drilling depth 39mm)	0.55	1.64
		0.63	1.69

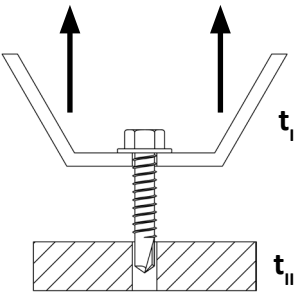
 <p>Pull over force $N_{R,KII}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,KII}$ (kN)
		0.55	2.43
		0.63	3.70

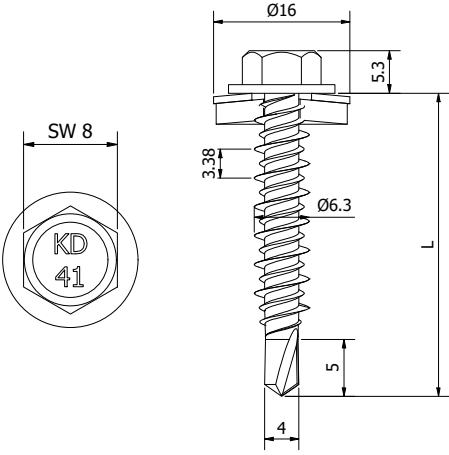
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	55.00 (Drilling depth 49mm)		3.17

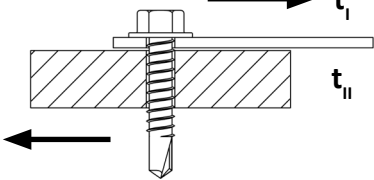
	410442: stitcher for steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Drill point #2 Materials: Fastener: SUS410 stainless steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤3mm			

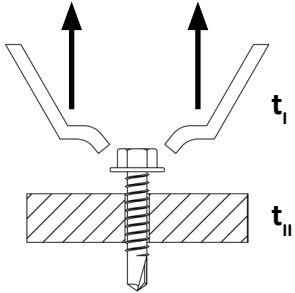
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	0.97
1.00		1.98	

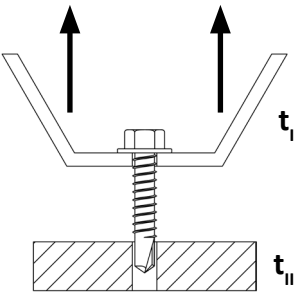
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
	1.00	0.63	2.84
1.00		4.21	

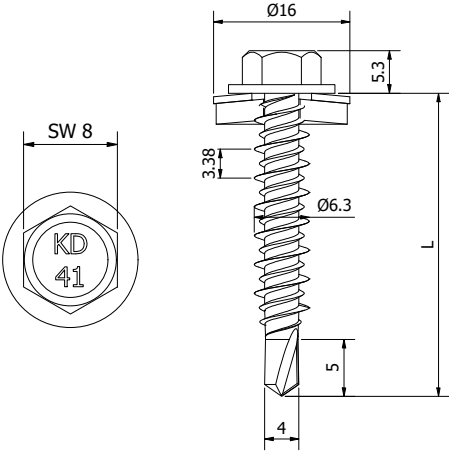
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.0		0.76

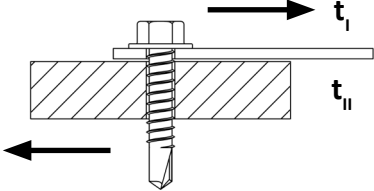
	410HL: self drilling screw for fixing profile to light section steel		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.3 x L Drill point #1 reduced Materials: Fastener: SUS410 stainless steel / Washer: stainless steel A2 Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: ≤3mm			

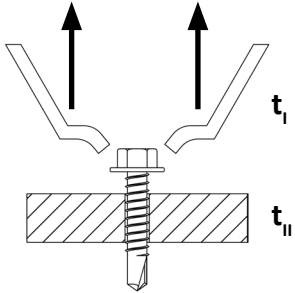
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	2.28
		1.00	2.59

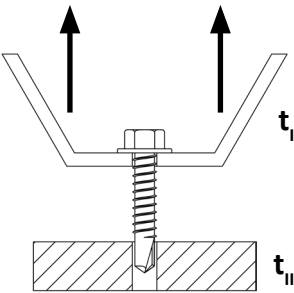
 <p>Pull over force $N_{R,K II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K II}$ (kN)
		0.63	4.14
		0.70	6.18

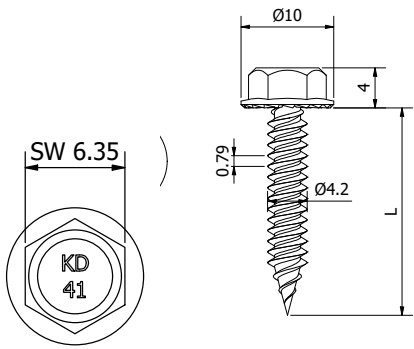
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		1.46

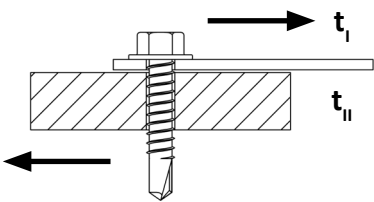
	410HL: self drilling screw for fixing profile to timber substructure		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 6.3 x L Drill point #1 reduced Materials: Fastener: SUS410 stainless steel / Washer: stainless steel A2 Component I: steel S250GD Component II: spruce wood C24		
Drilling capacity: ≤3mm			

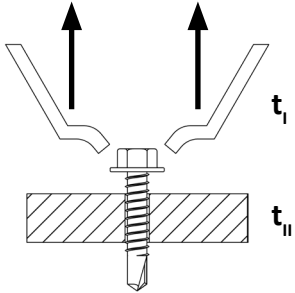
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	55.00 (Drilling depth 29mm)	0.63	1.66
		0.70	1.51

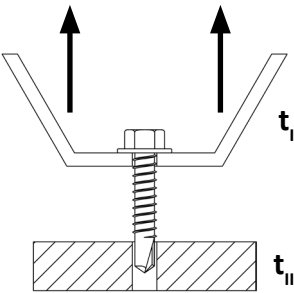
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.63	4.14
		0.70	6.18

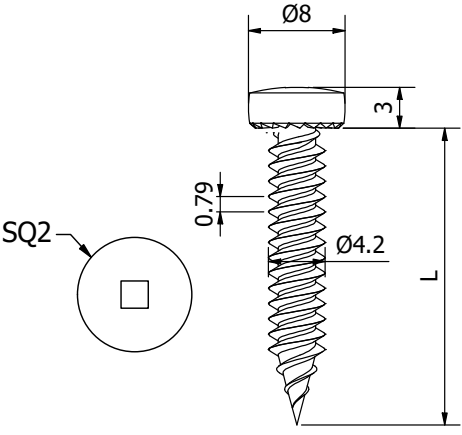
 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	55.00 (Drilling depth 29mm)		1.90

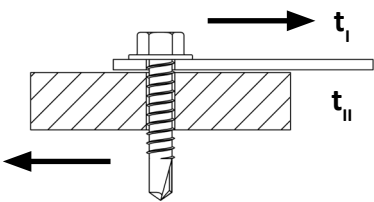
	4100SP: stitcher for steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Sharp point Materials: Fastener: SUS410 stainless steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x0.7mm			

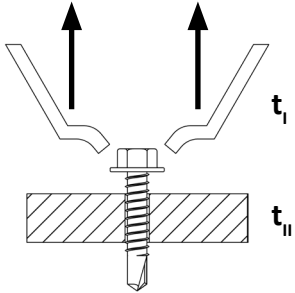
 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	2.19
		1.00	3.22

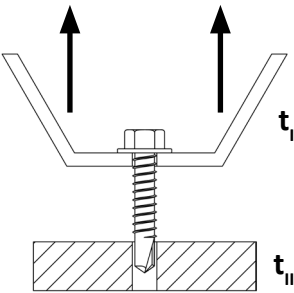
 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.63	2.98
	1.00	5.02	

 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		1.25

	4104SP: stitcher for steel sheets		
	Test acc. to EAD 330046-01-0602 Fastening screws for metal members and sheeting		
	Test executed by: TZUZ Prague - department Ostrava Report number 070-063747		
	Size: 4.2 x L Sharp point Materials: Fastener: SUS410 stainless steel Component I: steel S250GD Component II: steel S250GD		
Drilling capacity: 2x0.7mm			

 <p>Shearing force $V_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$V_{R,K}$ (kN)
	1.00	0.63	1.80
		1.00	2.48

 <p>Pull over force $N_{R,K,II}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K,II}$ (kN)
		0.63	3.20
	1.00	3.66	

 <p>Pull out force $N_{R,K}$</p>	Component t_{II} (mm)	Component t_I (mm)	$N_{R,K}$ (kN)
	1.00		1.25