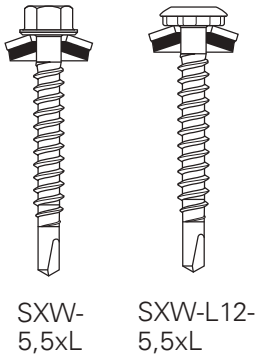


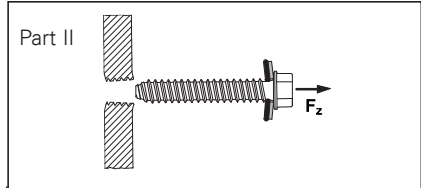
SXW-Ø 5,5



SXW-5,5xL

SXW-L12-5,5xL

Pull-out load F_z (N)



Part II (sub-construction)

Material grade / $R_{m,min}$	embedment t_{II} mm	Test results (N)		
		$F_{z,avg}$	s	R_k
Wood				
fir (C24), 350 kg/m ³	40	3369	184	2618

Approval DIBt Z-14.1-4



Material

Fastener:

austenitic stainless steel,
material grade A2, AISI 304
Material 1.4301 or 1.4567

Washer:

A = aluminium AlMg3 or
S = stainless steel A2,
with vulcanized EPDM sealant

Head type

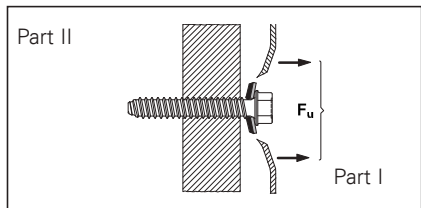
- Hexagonal head, 8 mm A/F



- **irus**® L12, Ø12mm underhead drive



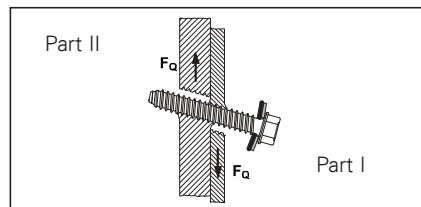
Pull-over load F_u (N)



Material grade/ $R_{m,min}$	t_i (mm)	Washer Ø mm	Test results (N)		
			$F_{u,avg}$	s	R_k
Steel		Steel			
S350GD, 420 N/mm ²	0.63	16	6160	477	4530
S320GD, 390 N/mm ²	0.88	16	8754	772	6424

Shear load F_q (N)

$F_{q,avg}$ is measured between a displacement of 0,5 - 3.00 mm



Material grade/ $R_{m,min}$	t_i (mm)	Material grade/ t_{II} (mm)	Washer Ø mm	Test results (N)		
				$F_{q,avg}$	s	R_k
Steel		Wood	Steel			
S350GD, 420 N/mm ²	0.50	fir (C24), 350 kg/m ³	16	2041	151	1439
S350GD, 420 N/mm ²	0.63	fir (C24), 350 kg/m ³	16	2534	178	1954
S320GD, 390 N/mm ²	0.75	fir (C24), 350 kg/m ³	16	2657	226	1760
S320GD, 390 N/mm ²	0.88	fir (C24), 350 kg/m ³	16	2855	215	1916
S320GD, 390 N/mm ²	1.00	fir (C24), 350 kg/m ³	16	2823	222	1961

All calculations, measurements, fasteners and design methods have to be verified by a responsible designer or engineer, regarding the corresponding structure and load. Please consult your national norms and approvals.

$R_{m,min}$ is the minimum standard tensile strength of Part 1 or 2.

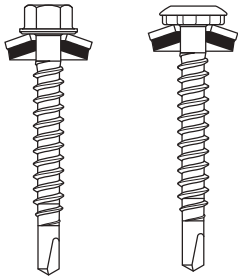
t is the nominal steel thickness of Part 1 or 2

F_{avg} or \bar{x} are the arithmetic mean values of the test results.

s is the standard deviation.

R_k is the characteristic resistance of fastenings according to the EN requirements.

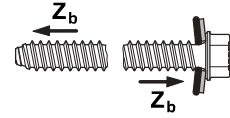
SXW-Ø 5,5



SXW-
5,5xL

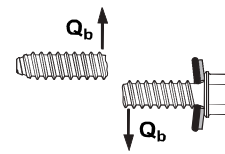
SXW-L12-
5,5xL

Tensile breaking load Z_b (N)



\bar{x}	=	12956
s	=	107

Shear breaking load Q_b (N)



\bar{x}	=	10025
s	=	245

Approval
DIBt Z-14.1-4



Material

Fastener:

austenitic stainless steel,
material grade A2, AISI 304
Material 1.4301 or 1.4567

Washer:

A = aluminium AlMg3 or
S = stainless steel A2,
with vulcanized EPDM sealant

Head type

- Hexagonal head, 8 mm A/F



- *irius*[®] L12, Ø12mm underhead drive



$R_{m,min}$ is the minimum standard tensile strength of Part 1 or 2.

t is the nominal steel thickness of Part 1 or 2

F_{avg} or \bar{x} are the arithmetic mean values of the test results.

s is the standard deviation.

R_k is the characteristic resistance of fastenings according to the EN requirements.