Roof + Wall + Solar product overview

2018/19



Your competent consultant www.reisser-screws.com



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General terms and conditions

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The tradition-steeped company REISSER-Schraubentechnik GmbH was founded in 1921 in Künzelsau. The brothers Gotthilf, August and Hermann Reisser opened several hardware stores in the area and soon they had their first customers, also from former Silesia and Hungary.

They started producing high quality brass screws and later stainless steel, steel as well as coating screws in 1952.

A strategic repositioning in 1994 supported an even more consistent application and further development of the existing concept which got an additional boost in 1996 with the certification according to ISO 9001:2008, in January 2013 the certification according to ISO 14001:2004 follows. REISSER is also represented successfully in the Eastern European region with its own subsidiaries REISSER-Csavar KFT in Hungary, REISSER Tehnic SRL in Romania and REISSER Poland.

The REISSER Roof+Wall+Solar Division is your partner for fastening in industrial lightweight construction of trapezoidal profiles, sandwich elements and corrugated fibre cement boards as well as solar power and photovoltaic systems. Our competence and experience has grown constantly with the market requirements and in cooperation with our customers. Quality and easy installation are our cornerstones.

Benefit from the strong REISSER Service. Our highly motivated staff in Sales and Product Management and your personal consultant in field are at your disposal.

REISSER-Schraubentechnik GmbH The reliable connection.



Corporate film on:











CERTIFICATE

The Certification Body of TÜV SÜD Management Service GmbH certifies that

CERTIFICADO

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CERTIFICATE .

ZERTIFIKAT .



Reisser Schraubentechnik GmbH

Fritz-Müller-Str. 10 74653 Ingelfingen Germany

has established and applies an Environmental Management System for

Development, production and distribution of screws and fastener for the specialized hardware retailer and Do it yourself, galvanic surface refinement.

An audit was performed, Report No. 70002980. Proof has been furnished that the requirements

ISO 14001:2015

are fulfilled.

The certificate is valid from 2017-11-24 until 2019-01-02 Certificate Registration No.: 12 104 25113 TMS.





ZERTIFIKA



RTIFICATE

The Certification Body SÜD Management Service GmbH certifies that



Schraubentechnik GmbH

Fritz-Müller-Str. 10 74653 Ingelfingen Germany

has established and applies Quality Management System for

production and distribution of s for the specialized hardware retailer f-sector, galvanic surface refinement.

as performed, Report No. 70002980. been furnished that the requirements according to

ISO 9001:2015

is valid from 2017-12-11 until 2018-12-20. Registration No.: 12 100 25113 TMS.







RTIFICATE

The Certification Body SÜD Management Service GmbH certifies that



Schraubentechnik GmbH Müller-Str. 10 • 74653 Ingelfingen Germany

has established and applies Energy Management System for

t, production and distribution of for the specialized hardware retailer and -sector, galvanic surface refinement.

was performed, Report No. 70002980. as been furnished that the requirements according to

ISO 50001:2011

are fulfilled

is valid from 2017-12-09 until 2020-12-08. Registration No.: 12 340 25113 TMS.





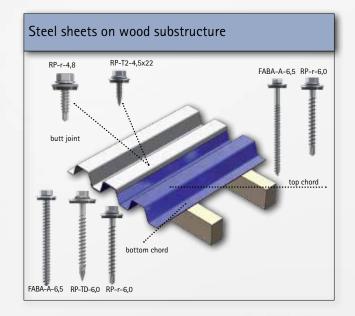


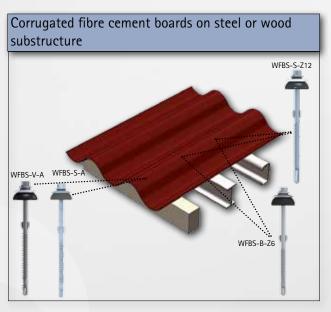


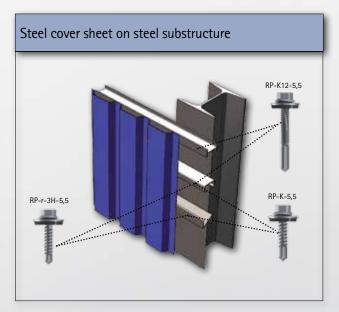
Lightweight metal construction increasingly conquered the international building sector. You will find the right facade screws for the most common applications in the following overview.

SINGLE-SHEET ROOFS





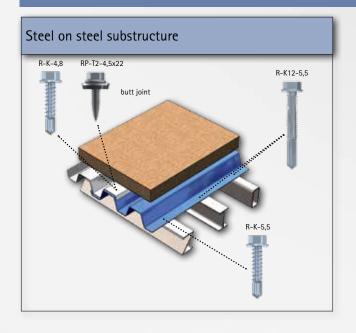


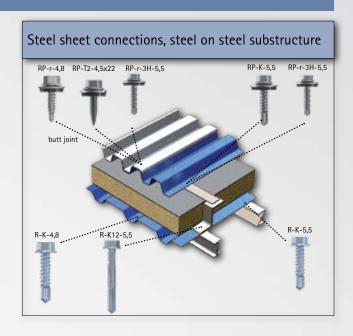




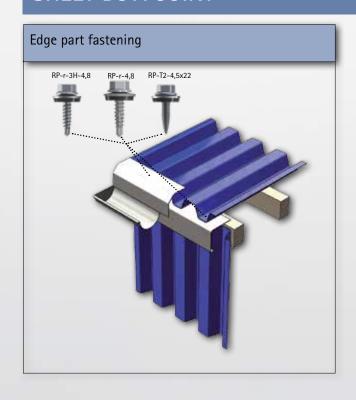


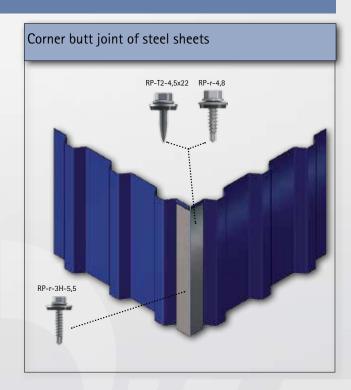
MULTI-SHEET ROOFS





SHEET BUTT JOINT

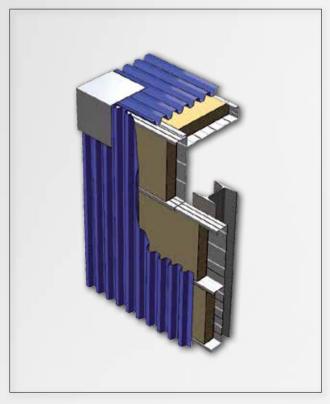


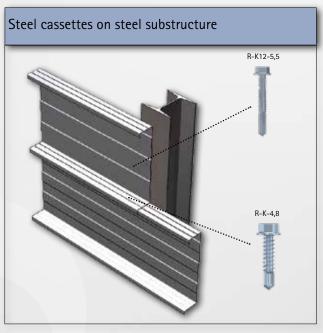


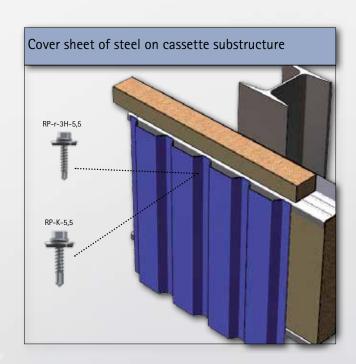




CASSETTE CONSTRUCTION



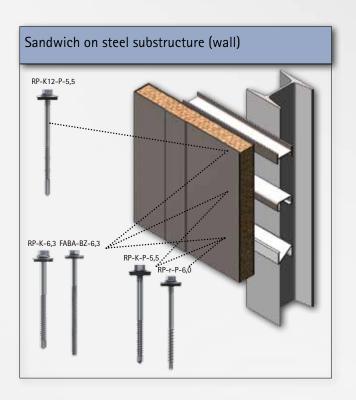


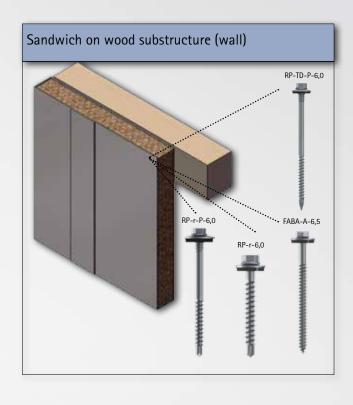


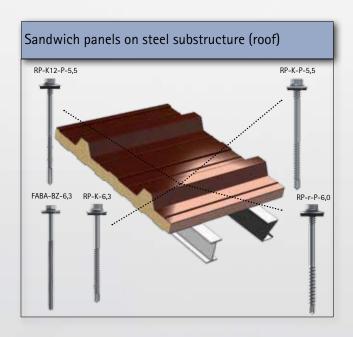


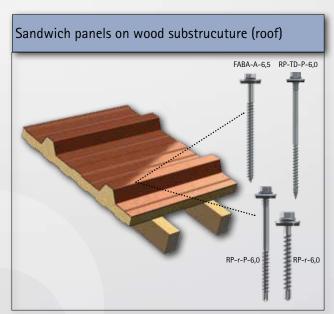


SANDWICH PANELS





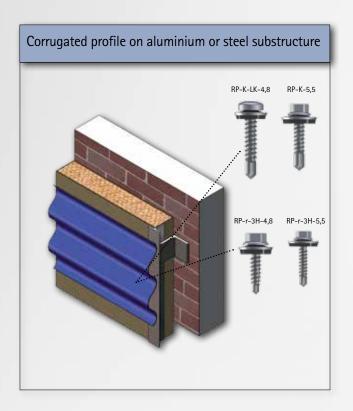


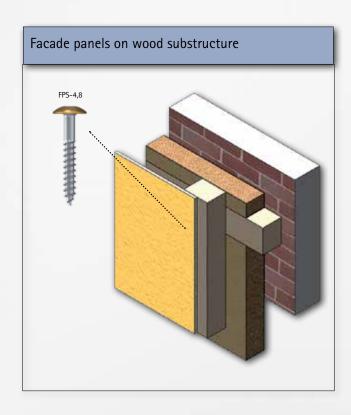


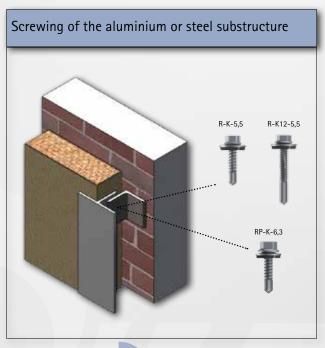




BACK-VENTILATED FACADES













NOTES	





Overview of technical approvals

Page	Designation	Approved sealing washers	Steel approval Z-14.1-4	Aluminium approval Z-14.1-537	Sandwich Z-14.4-407	Solar Z-14.4-555	Standing seam clip Z-14.4-668	Wood ETA-11/0106	SVK Z-31.4-161 Eternit Z-31.4-174, Z-31.4-175, Z-31.4-210
17	RP-r-4,8 x 20	≥ 16	x						
18	RP-r-3H-4,8 x 22	≥ 14	x	Х					
19	RP-r-3H-5,5 x 25*	≥ 14	х	Х					
20	RP-TD-6,0 x 40	≥ 11	x						
21	RP-r-LK-6,0 x 38	≥ 11	x	≥ 16			х		
22	RP-r-6,0 x L	≥ 11	x	≥ 16	≥ 16		х		
24	RP-r-6,3 x 25	≥ 16	x	х					
25	RP-K-4,8 x 25	≥ 0	≥ 16	х					
26	RP-K-LK-4,8 x 25	≥ 0	x	х					
27	RP-K-5,5 x L*	≥ 16	x	х					
28	RP-K-6,3 x L	≥ 16	x	х	х				
30	RP-K12-5,5 x 38	≥ 16	x						
32	RP-T2-4,5 x L	≥ 0	x	≥ 14					
34	RP-T2-(X)-6,0 x L	≥ 0	х	≥ 16			х		
38	RP-TD-P-6,0 x L	≥ 16			x				
43	RP-r-P-6,0 x L	≥ 16			x				
46	RP-K-P-5,5 x L	≥ 16			x				
49	RP-K12-P-5,5 x L	≥ 16			x				
54	R-K-4,8 x 20	≥ 0	х						
55	R-K-5,5 x 25	≥ 0	х						
56	R-K-6,3 x 25	≥ 0	х						
57	R-K12-5,5 x 38	≥ 0	х						
58	R-K12-8,0 x 38	-	Х						

^{*}With technical approval Z-14.1-4 for cassette walls

The above mentioned sealing washers refer to the smallest approved diameter. Bigger diameters are always permitted .

Screws which are marked with ≥ 0 are approved with and without sealing washer.





Overview of technical approvals

Page	Designation	Approved sealing washers	Steel approval Z-14.1-4	Aluminium approval Z-14.1-537	Sandwich Z-14.4-407	Solar Z-14.4-555	Standing seam clip Z-14.4-668	Wood ETA-11/0106	SVK Z-31.4-161 Eternit Z-31.4-174, Z-31.4-175, Z-31.4-210
61	WFBS-B-Z6-6,3 x L	≥ 22							х
62	WFBS-S-Z12-6,3 x L	≥ 22							
63	WFBS-S-A-6,5 x L	≥ 22							X
64	WFBS-V-A-6,5 x L	≥ 22							X
66	FABA Typ A 6,5 x L	≥ 16	х	x	х				
72	FABA Typ A 7,2 x 19	≥ 19	х	х					
73	FABA Typ BZ 6,3 x L	≥ 16	Х	x	х				
79	DSH		Х	x				Х	
98	RSB-A 8,4/M10 x Lm	≥ 19				х			
100	RSB-BZ 8,0/M10 x Lm	≥ 19				х			
105	TKS 8,0 x L	-						х	

The above mentioned sealing washers refer to the smallest approved diameter. Bigger diameters are always permitted .

Screws which are marked with ≥ 0 , are approved with and without sealing washer.





REFABO

REISSER facade self-drilling screw

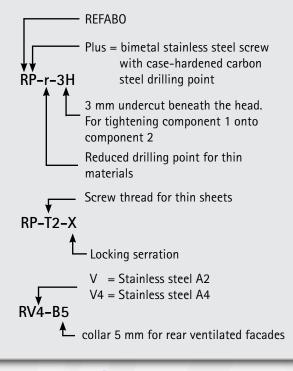
The new generation of sealing-screws for steel and wood substructure is called REFABO.

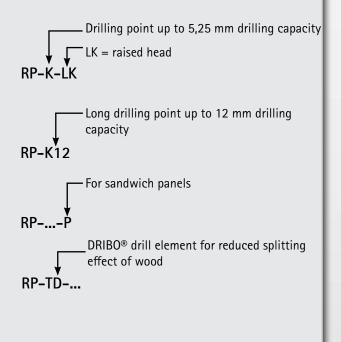
Stainless steel screws are required for exterior work. In order to be able to exploit the positive properties for fastening onto steel substructure as well, we have developed a bimetal self-drilling screw, our REFABO Plus. We attached a case-hardened carbon steel drilling point to our stainless steel A2 screw with our high quality, patented welding process.

Thanks to this combination our product allows a drastic reduction of installation time by up to 50%. Drilling, self-tapping, fastening and sealing are accomplished in one action. Additionly, the tool costs are reduced and very high safety is quaranteed by the technical approval.



The article description consists of:





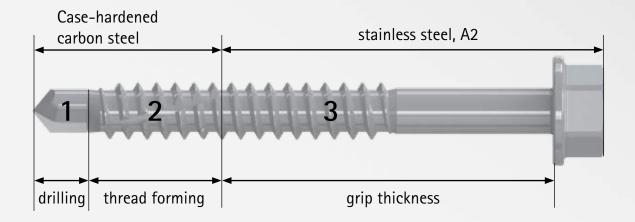




REFABO Plus Market Mar

REFABO Plus

Facade self-drilling screw of bimetal (stainless steel A2 with a case-hardened carbon steel drilling point).



Section 1 + 2: The tool – drilling point with forming thread of case–hardened carbon steel.

Section 3: Support thread and head made of stainless steel A2. Fastening may only take place in this section.

The case-hardened carbon steel part (section 1+2) is connected break-proof to the stainless steel part (section 3) by a patented welding process.

The REFABO Plus is ideally suitable for use in the fastening of steel, aluminium sheet profiles and sandwich elements onto steel and wood substructure with a processing speed between 1200 and 1800 rpm.







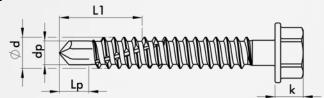






Overview technical specifications:

Facade self-drilling screw of bimetal, stainless steel A2 with a case-hardened carbon steel drilling point.



Designation	Nomi- nal Ø mm	Drilling point Ø dp mm	Drilling point length Lp mm	Length of steel L1 mm	Grip thickness mm	Drilling capacity mm*	Height of head K mm	Drive A/F
	4,8	3,15	4,5	10	8	1x1,5/2x1,0	5	8
RP-r-	6	3,9	4,5	14	5-45	1x2,0/2x1,5	5	8
	6,3	3,95	4,5	11	8	1x2,0/2x1,5	6,4	8
RP-r-LK	6,0	3,9	6	11	1-18	1x2,0/2x1,5	3,3	Sit 20
DD 211	4,8	2,8	3,5	10	7	1x1,5/2x1,0	5	8
RP-r-3H-	5,5	4,2	4,5	14	8	0,63-4,0	5	8
RP-K-LK-	4,8	3,9	5	10	10 - 12	1,0-4,0	3,5	Sit 20
	4,8	3,9	7	13	10	1,0-3,0	5,0	8
RP-K-	5,5	4,7	7	16	6 - 32	1,5-5,25	5,2	8
	6,3	5,5	7,5	16,5	6 - 150	1,5-6,0	6,4	3/8"
RP-K12-	5,5	5,15	13,5	20	4 - 12	4,0-12,0	5	8
DD To	4,5	0,5	-	15	1 - 10	1x1,0/2x0,8	5	8
RP-T2-	6	0,5	-	15	1 - 23	1x1,25/2x1,0	5	8
RP-TD-	6	0,5	-	24	1	0,4-0,75	5	8
RP-TD-P-	6	0,5	12	24	46 - 188	0,4-0,75	5	8
RP-r-P-	6	3,9	4,5	17	40 - 202	1,5-2,0	5	8
RP-K-P-	5,5	4,7	7	17	39 - 202	1,5-5,25	5	8
RP-K12-P-	5,5	5,1	13,5	24	39 - 202	4,0-12,0	5	8
WFBS-B-Z6-	6,3	5,5	7,5	17	51 - 135	1,5-6,0	6,4	8

^{*} Total drilling capacity as specified in technical approval Z-14.1-4, Z-14.4-407 and Z-14.1-537

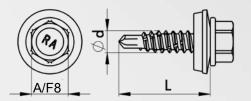








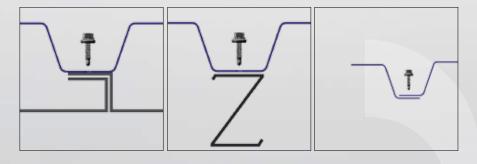
REFABO Plus Stainless steel A2/bimetal RP-r-4,8 x 20 E14/E16



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point for steel sheet joints
- With technical approval from sealing washer E16
- Component 1 from 0,63 2,0 mm
- Component 2 steel substructure from 0,63 1,5 mm
- Aluminium from 0,5 2,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item No.	Pack
	4,8 x 20	E14	8	1x1,5/2x1,0	4005674 47505 1 005169B197-0480206-1	500
DD w	4,8 x 20	E14	8	1x1,5/2x1,0	4005674 54532 7 005169B197-0480202-1	100
RP-r-	4,8 x 20	E16	8	1x1,5/2x1,0	4005674 47521 1 005269B197-0480206-1	500
	4,8 x 20	E16	8	1x1,5/2x1,0	4005674 52902 0 005269B197-0480202-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.170



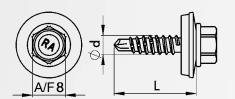








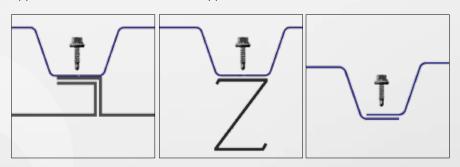
REFABO Plus Stainless steel A2/bimetal RP-r-3H-4,8 x 22 E14



- Specially coated
- Reduced drilling point for steel sheet joints
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 0,63 2,0 mm, aluminium 0,5 1,5 mm
- Component 2 steel substructure 0,63 2,0 mm, aluminium 0,5 – 2,0 mm
- With undercut beneath the head, for tightening component 1 onto component 2

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-r-3H-	4,8 x 22	E14	7	1x1,5/2x1,0	4005674 57582 9 005161B197-0480226-1	500
	4,8 x 22	E14	7	1x1,5/2x1 0	4005674 57558 4 005161B197-0480222-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.277 and Z-14.1-537, appendix 3.1.37/3.2.28



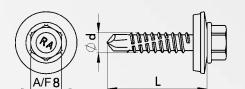








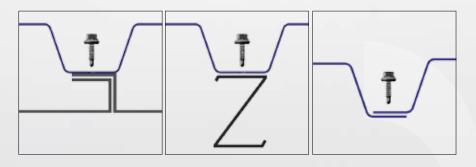
REFABO Plus Stainless steel A2/bimetal RP-r-3H-5,5 x 25 E16



- Specially coated
- Reduced drilling point for steel sheet joints
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 0,63 2,0 mm, aluminium 0,5 3,0 mm
- Component 2 steel substructure 0,63 2,0 mm, aluminium 0,5 3,0 mm
- Also for cassette walls 2 x 0,75 2 x 2,0 mm
- With undercut beneath the head, for tightening component 1 onto component 2

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-r-3H-	5,5 x 25	E 16	8	0,63-4,0	4005674 58086 1 005263B197-0550256-1	500
	5,5 x 25	E 16	8	0,63-4,0	4005674 58013 7 005263B197-0550252-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.278/ 3.279 and Z-14.1-537, appendix 3.1.38/3.2.29







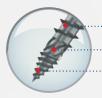




REFABO Plus Stainless steel A2/bimetal RP-TD-6,0 x 40 E16/E19/E22

- Chipless fastening of sandwich elements onto wood substructure
- Reduced splitting effect of wood due to patented drill element
- Specially coated
- With captive sealing washer stainless steel A2/ EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm/ Aluminium
- Component 2 wood, minimum screw-in depth 36 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
	6,0 x 40	E16	1	0,4-0,75	4005674 69519 0 005235B097-0600402-1	100
	6,0 x 40	E19	1	0,4-0,75	4005674 69539 8 005335B097-0600402-1	100
RP-TD-	6,0 x 40	E22	1	0,4-0,75	4005674 68603 7 005435B097-0600402-1	100
	6,0 x 75	E16	1-36	0,4-0,75	4005674 68605 1 005235B097-0600752-1	100
	6,0 x 75	E22	1-36	0,4-0,75	4005674 69631 9 005435B097-0600752-1	100



Asymmetrical wood thread for high extraction forces in the wood

·Drill element taking tension out of wood

······ Thin sheet point getting through sheet metal

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.329/3.330/3.331, Z-14.4-407*, appendix 4.15a/4.16a (*length 75+76 mm only)

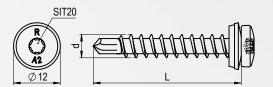








REFABO Plus Stainless steel A2/bimetal RP-r-LK-6,0 x 38 E12



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point
- With technical approval
- With edge distances up to 2,5 x d for solid wood and OSB (oriented strand board)
- Component 1 steel sheet 0,4 2,0 mm, alu 0,5 2,0 mm
- Component 2 wood, minimum screw-in depth 30 mm, steel 0,4 1,5 mm, alu 0,5 2,0 mm

Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness wood substr. mm	Grip thickness steel substr.	Drilling capacity mm	EAN Item no.	Pack
RP-r-LK-	6,0 x 38	E12	1-3	3-18	1x2,0/2x1,5	4005674 68606 8 007625B197-0600382-1	100

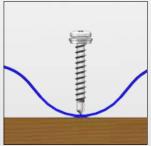


SIT drive

- Perfect matching
- No slipping while screwing
- Maximum power transmission
- No over tightening of the drive

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.312 , Z-14.4-668 and Z-14.1-537, appendix 3.1.39/ 3.2.30/ 3.3.9













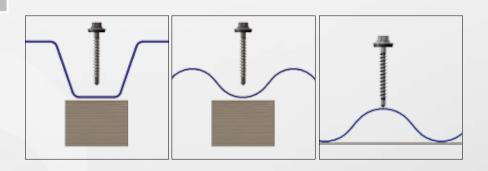
REFABO Plus Stainless steel A2/bimetal RP-r-6,0 x L E16/E19/E22



- Specially coated
- Reduced drilling point
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- With edge distances up to 2,5 x d for solid wood and OSB
- Component 1 steel sheet 0,4 2,0 mm, aluminium 0,5 2,0 mm
- Component 2 wood, minimum screw-in depth 30 mm, steel 0,4 - 1,5 mm, aluminium 0,5 - 2,0 mm
- Also for standing seam clip

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness wood substr.	Grip thickness steel substr. mm	Drilling capacity mm	EAN Item no.	Pack
	6,0 x 38	E16	1-3	3-18	1x2,0/2x1,5	4005674 58044 1 005225B097-0600382-1	100
	6,0 x 38	E19	1-3	3-18	1x2,0/2x1,5	4005674 65206 3 005325B097-0600382-1	100
RP-r-	6,0 x 38	E22	1-3	3-18	1x2,0/2x1,5	4005674 58985 7 005425B097-0600382-1	100
WL -1-	6,0 x 50	E16	1-15	10-30	1x2,0/2x1,5	4005674 55111 3 005225B097-0600502-1	100
	6,0 x 50	E19	1-15	10-30	1x2,0/2x1,5	4005674 58046 5 005325B097-0600502-1	100
	6,0 x 50	E22	1-15	10-30	1x2,0/2x1,5	4005674 57917 9 005425B097-0600502-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.312/3.280/3.281, Z-14.4-407, appendix 4.15, Z-14.4-668 and Z-14.1-537, appendix 3.1.39/3.2.30/3.3.9



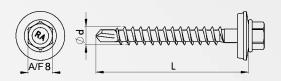








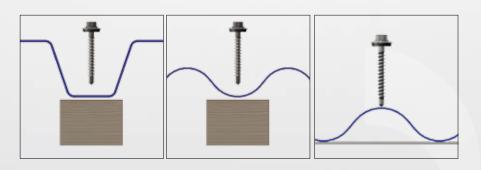
REFABO Plus Stainless steel A2/bimetal RP-r-6,0 x L E16/E19/E22



- Specially coated
- Reduced drilling point
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- With edge distances up to 2,5 x d for solid wood and OSB
- Component 1 steel sheet 0,4 2,0 mm, aluminium 0,5 2,0 mm
- Component 2 wood, minimum screw-in depth 30 mm, steel 0,4 1,5 mm, aluminium 0,5 2,0 mm

	Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness wood substr. mm	Grip thickness steel substr.	Drilling capacity mm	EAN Item no.	Pack
	6,0 x 75	E16	1-40	16-55	1x2,0/2x1,5	4005674 57912 4 005225B097-0600752-1	100	
	6,0 x 75	E19	1-40	16-55	1x2,0/2x1,5	4005674 65208 7 005325B097-0600752-1	100	
D	P-r-	6,0 x 75	E22	1-40	16-55	1x2,0/2x1,5	4005674 57948 3 005425B097-0600752-1	100
N	r-r-	6,0 x 90	E16	1-55	16-70	1x2,0/2x1,5	4005674 55119 9 005225B097-0600902-1	100
	6,0 x 90	E19	1-55	16-70	1x2,0/2x1,5	4005674 62137 3 005325B097-0600902-1	100	
		6,0 x 90	E22	1-55	16-70	1x2,0/2x1,5	4005674 57950 6 005425B097-0600902-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.312/3.280/3.281, Z-14.4-407, appendix 4.15, Z-14.4-668 and Z-14.1-537, appendix 3.1.39/3.2.30/3.3.9



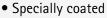








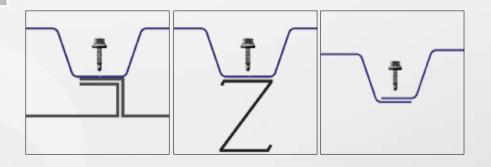
REFABO Plus Stainless steel A2/bimetal RP-r-6,3 x 25 E16



- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point for steel sheet joints
- With technical approval
- Component 1 steel 0,63 2,0 mm, aluminium 0,5 2,0 mm
- Component 2 steel substructure 0,63 2,0 mm, aluminium 0,5 2,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-r-	6,3 x 25	E16	8	1x2,0/2x1,5	4005674 47506 8 008269B197-0630256-1	500
NF-1-	6,3 x 25	E16	8	1x2,0/2x1,5	4005674 55067 3 008269B197-0630252-1	100

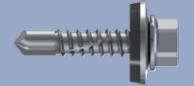
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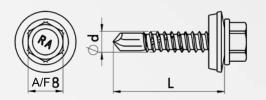








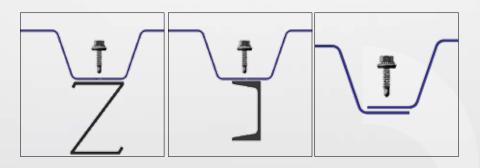
REFABO Plus Stainless steel/bimetal RP-K-4,8 x 25 E16



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel 0,5 2,0 mm, aluminium 0,7– 1,2 mm
- Component 2 steel substructure 1,0 mm 3,0 mm, Aluminium 1,0 - 4,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack	
RP-K-	4,8 x 25	E16	10	1,0-3,0	4005674 67019 7 005279B197-0480252-1	100	

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.171 and Z-14.1-537, appendix 3.1.36/3.2.27



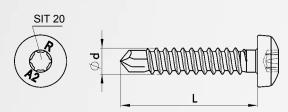








REFABO Plus Stainless steel A2/bimetal RP-K-LK-4,8 x 25 E12



- Specially coated
- LK = raised head
- With technical approval
- Component 1 steel 0,5 2,0 mm, aluminium 0,7- 1,2 mm
- Component 2 steel substructure 1,0 mm 3,0 mm, aluminium 1,0 4,0 mm

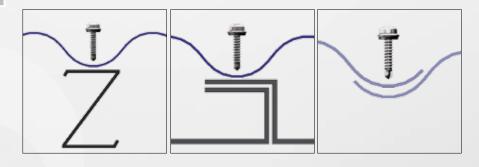
Bezeichnung	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
4,	4,8 x 25	-	12	1,0-4,0	4005674 55203 5 007512B197-0480256-1	500
או א מח	4,8 x 25	-	12	1,0-4,0	4005674 55105 2 007512B197-0480252-1	100
RP-K-LK-	4,8 x 25	E12	10	1,0-4,0	4005674 55204 2 007612B197-0480256-1	500
	4,8 x 25	E12	10	1,0-4,0	4005674 55106 9 007612B197-0480252-1	100



SIT drive

- Perfect matching
- No slipping while screwing
- Maximum power transmission
- No over tightening of the drive

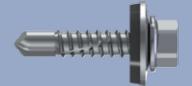
As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.283 and Z-14.1-537, appendix 3.135/3.2.26



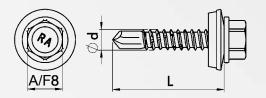








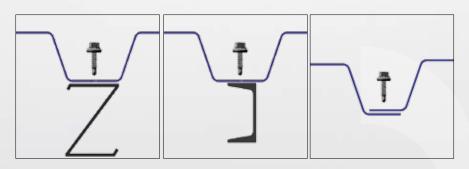
REFABO Plus Stainless steel A2/bimetal RP-K-5,5 x L E16/E22



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel 0,63 2,0 mm, aluminium 0,5 1,5 mm
- Component 2 steel substructure 1,5 4,0, aluminium up to 3 mm
- Also for cassette walls 2 x 0,75 2 x 1,75 mm
- Fully threaded up to length 38 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacitiy mm	EAN Item no.	Pack
5,5 x 2	5,5 x 25	E16	6	1,5-5,25	4005674 47507 5 005279B197-0550256-1	500
	5,5 x 25	E16	6	1,5-5,25	4005674 48407 7 005279B197-0550252-1	100
	5,5 x 25	E22	6	1,5-5,25	4005674 47524 2 005479B197-0550256-1	500
RP-K-	5,5 x 25	E22	6	1,5-5,25	4005674 52903 7 005479B197-0550252-1	100
	5,5 x 32	E16	14	1,5-5,25	4005674 58774 7 005279B197-0550322-1	100
	5,5 x 38	E16	20	1,5-5,25	4005674 57921 6 005279B197-0550382-1	100
	5,5 x 50	E16	15-32	1,5-5,25	4005674 03349 7 005279B197-0550502-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.172/3.173/3.174 and Z-14.1-537, appendix 3.1.47/3.2.37



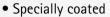








REFABO Plus Stainless steel A2/bimetal RP-K-6,3 x L E16/E22



- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel 0,4 mm, aluminium 0,5 mm
- Component 2 steel substructure 0,63 mm, aluminium 1,5 mm
- Also for fastening sandwich elements

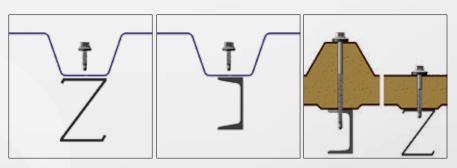
Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	Grip thickness mm	Drilling capacity mm	EAN Item. no.	Pack
	6,3 x 25	E16	25	6	1,5-6,0	4005674 58987 1 005279B197-0630256-1	500
	6,3 x 25	E16	25	6	1,5-6,0	4005674 59003 7 005279B197-0630252-1	100
	6,3 x 70	E16	35	35-50	1,5-6,0	4005674 51960 1 005279B197-0630702-1	100
ע ממ	6,3 x 70	E22	35	35-50	1,5-6,0	4005674 52904 4 005479B197-0630702-1	100
RP-K-	6,3 x 85	E16	50	35-65	1,5-6,0	4005674 52965 5 005279B197-0630852-1	100
	6,3 x 85	E22	50	35-65	1,5-6,0	4005674 52905 1 005479B197-0630852-1	100
	6,3 x 100	E16	50	50-80	1,5-6,0	4005674 52959 4 005279B197-0631002-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.176/3.177 and Z-14.4-407, appendix 2.19 and Z-14.1-537, appendix 3.1.24/3.2.14/3.1.40

50-80

1,5-6,0

50



E22

6,3 x 100





4005674 52906 8

005479B197-0631002-1

100





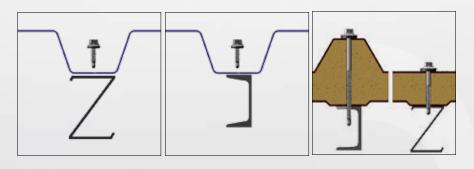
REFABO Plus Stainless steel A2/bimetal RP-K-6,3 x L E16/E22



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel 0,4 mm, aluminium from 0,5 mm
- Component 2 steel substructure 0,63 mm, aluminium 1,5 mm
- Also for fastening sandwich elements

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	Grip thickness mm	Drilling capacity mm	EAN Item. no.	Pack
	6,3 x 115	E16	70	45-90	1,5-6,0	4005674 52960 0 005279B197-0631152-1	100
	6,3 x 115	E22	70	45-90	1,5-6,0	4005674 52907 5 005479B197-0631152-1	100
	6,3 x 130	E16	70	60-110	1,5-6,0	4005674 52961 7 005279B197-0631302-1	100
RP-K-	6,3 x 130	E22	70	60-110	1,5-6,0	4005674 47529 7 005479B197-0631302-1	100
NF-N-	6,3 x 150	E16	70	80-125	1,5-6,0	4005674 52962 4 005279B197-0631502-1	100
	6,3 x 150	E22	70	80-125	1,5-6,0	4005674 47530 3 005479B197-0631502-1	100
	6,3 x 175	E16	70	110-150	1,5-6,0	4005674 52963 1 005279B197-0631752-1	100
	6,3 x 175	E22	70	110-150	1,5-6,0	4005674 47531 0 005479B197-0631752-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.176/3.177 and Z-14.4-407, appendix 2.19 and Z-14.1-537, appendix 3.1.24/3.2.14/3.1.40



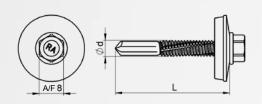








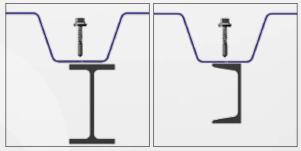
REFABO Plus Stainless steel A2/bimetal RP-K12-5,5 x 38 E16/E22



- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 0,63 2,0 mm
- Component 2 steel substructure 4,0 12,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-K12-	5,5 x 38	E16	12	4,0-12,0	4005674 54009 4 005289B197-0550382-1	100
NF-N12-	5,5 x 38	E22	12	4,0-12,0	4005674 54031 5 005489B197-0550382-1	100

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.175









Chipless fastening

REISSER thin sheet screw & butt joint screw REFABO Plus Stainless steel A2/bimetal

Maximum hold on sheet metals

- To fasten steel and aluminium sheet profiles onto steel and aluminium sheet substructure
- Tip and forming thread made of case-hardened carbon steel, fast penetration of steel sheets
- Load-bearing thread and head made of stainless steel A2 for maximum corrosion protec-
- Connected break-proof by a patented welding process
- Greater holding power due to funnel formation - more thread turns penetrate further into the metal for increased security
- Thanks to the increased holding power less screws are required
- Practically no drilling chips, which would be complex to remove
- Compared with convential drillings screws the fastening process can be twice as fast

No pre-drilling required

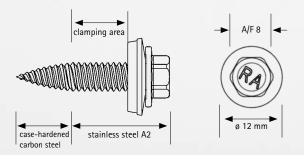
No pre-drilling is required for the REISSER thin sheet metal screw, because it breaks into the material and screws in like a torpedo. It means that no material is removed, but it will be compressed → while pushing through the screw deforms the material into a funnel shape.

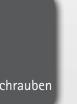














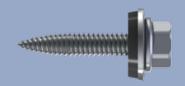
No more drilling chips and complaints!



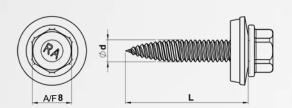








Butt joint screw Stainless steel A2/bimetal RP-T2-4,5 x 22 E14/E16



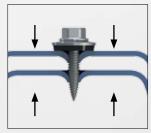
- For butt joints
- Chipless fastening
- Specially coated
- Can be released if required
- With technical approval
- Double-threaded full thread
- Component 1, steel sheet 0,5 1,0 mm and aluminium 0,5 1,2 mm
- Component 2, steel sheet 0,5- 1,0 mm and aluminium 0,5 1,2 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
4,5 x 22 4,5 x 22 4,5 x 22 4,5 x 22	4,5 x 22	E 14	1-6	1x1,0/2x0,8	4005674 67075 3 00D179B020-0450222-1	100
	4,5 x 22	E 14	1-6	1x1,0/2x0,8	4005674 67082 1 00D179B020-0450226-1	500
	4,5 x 22	E 16	1-6	1x1,0/2x0,8	4005674 67076 0 00D279B020-0450222-1	100
	4,5 x 22	E 16	1-6	1x1,0/2x0,8	4005674 67083 8 00D279B020-0450226-1	500

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm







As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.304a/ 3.305a and Z-14.1-537, appendix 3.2.21/ 3.1.30

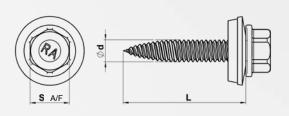








Thin sheet screw Stainless steel A2/bimetal RP-T2-4,5 x 25 E14

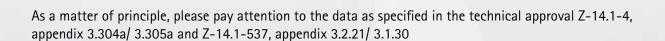


- Chipless fastening
- Specially coated
- With technical approval
- Double-threaded full thread
- Component 1, steel sheet 0,5 1,0 mm and aluminium 0,5 1,2 mm
- Component 2, steel sheet 0,5– 1,0 mm and aluminium 0,5 1,2 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-T2-	4,5 x 25	-	1-10	1x1,0/2x0,8	4005674 68637 2 00DB79B020-0450252-1	100
NF-12-	4,5 x 25	E14	1-8	1x1,0/2x0,8	4005674 68641 9 00D179B020-0450252-1	100

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm





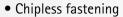








Thin sheet screw Stainless steel A2/bimetal RP-T2-6,0 x L E16



- Specially coated
- With technical approval
- Double-threaded full thread
- Component 1, steel sheet 0,4 1,0 mm and aluminium 0,5 1,0 mm
- Component 2, steel sheet 0,4 1,25 mm and aluminium from 0,5 1,5 mm
- For fastening aluminium standing seam clips onto steel substructure from 0,75 – 1,25 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-T2-	6,0 x 25	-	10	1x1,25/2x1,0	4005674 68639 6 00DB79B020-0600252-1	100
	6,0 x 25	E16	8	1x1,25/2x1,0	4005674 67217 7 00D279B020-0600252-1	100
	6,0 x 38	-	23	1x1,25/2x1,0	4005674 67418 8 00DB79B020-0600382-1	100
	6,0 x 38	E16	21	1x1,25/2x1,0	4005674 67420 1 00D279B020-0600382-1	100
	6,0 x 38	E16	21	1x1,25/2x1,0	4005674 67425 6 00D279B020-0600386-1	500

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.306b/ 3.307b und Z-14.1-537, Anlage 3.1.31/ 3.2.22 und Z-14.4-668

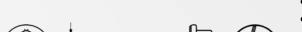


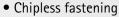






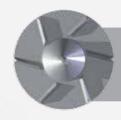
Thin sheet screw with locking serration Stainless steel A2/bimetal RP-T2-X-6,0 x L





- Specially coated
- With locking serration
- With technical approval
- Double-threaded full thread
- Component 1, steel sheet 0,5 1,25 mm and aluminium 0,5 1,5 mm
- Component 2, steel sheet 0,5- 1,25 mm and aluminium 0,5 1,5 mm
- For fastening aluminium standing seam clips onto steel substructure from 0,75 – 1,25 mm

Designation	Ø d x L mm	Grip thickness mm	Drilling capacity mm	EAN Item no.	Pack
RP-T2-X-	6,0 x 25	10	1x1,25/2x1,0	4005674 64909 4 00KB79B020-0600252-1	100
NF-12-A-	6,0 x 38	23	1x1,25/2x1,0	4005674 64911 7 00KB79B020-0600382-1	100



Advantages of locking serration

- No overtightening
- No self-loosening

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm



As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 3.306b.

For fastening standing seam clips, please pay attention to the data as specified in the technical approval Z-14.4-668 as well as the specifications of the respective systems manufacturers.



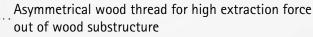






SavesØ 0.30€ per screw

Chipless fastening



·Tension-free fastening in wood due to patented drill element

Sheet penetration without pre-drilling due to thin sheet tip

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm
RP-TD-P-	6,0 x 99 - 320	E16/E19/E22	46 - 245

- Reduced splitting effect of wood due to patented drill element
- Thread beneath the head for permanent tightness
- With technical approval
- Component 1 steel sheet from 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

Butt joint screw RP-T2-4,5 x 22

- For butt joints
- · Chipless fastening
- Can be released if required
- Double-threaded full thread
- Component 1, steel sheet from 0,5 1,0 mm and aluminium 0,5 1,2 mm
- Component 2, steel sheet 0,5- 1,0 mm and aluminium 0,5 1,2 mm









REFABO Plus Sandwich

REISSER REFABO Plus Sandwich REFABO Plus Stainless steel A2/bimetal

The versatile bimetal screw for fastening sandwich panels

- Screw with integrated tool
- 50% time saving
- Bimetal- stainless steel A2/ case-hardened carbon steel
- Best corrosion protection
- Double-thread beneath the head against deformation of the upper shell during the screw-process
- With technical approval
- With captive sealing washer stainless steel A2/EPDM
- For steel and wood substructures

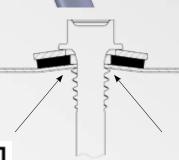
Double-thread beneath the head against deformation of the upper shell during the screw-process

Due to the double thread there are two thread endings beneath the head.

Those two thread endings provide two opposite supporting points for the upper shell of the sandwich panel.

Therefore the sealing washer is pressed equally against the upper shell and avoids a deformation of the upper shell.





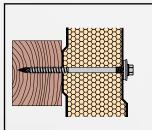


You **Tube**

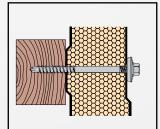
Assembly video on: www.youtube.de/REISSERSchrauben





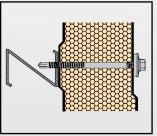


RP-TD-P-6,0 x L E16/E19/E22 For chipless fastening onto wood substructure

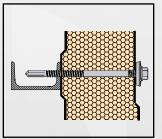


RP-r-P-6,0 x L E16/E19/E22 For wood substructures and steel substructures from 1,5-2,0 mm





RP-K-P-5,5 x L E16/E19/E22 For steel substructure with drilling point from 1,5-5,25 mm drilling capacity



RP-K12-P-5,5 x L E16/E19/E22 For steel substructure with drilling point from 4,0-12,0 mm drilling capacity











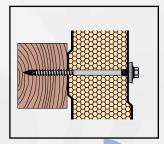
- Reduced splitting effect of wood due to patented drill element
- Specially coated
- Thread beneath the head for permanent tightness
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

					-,	iew in depth 12 min	
Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capa- city mm	EAN Item no.	Pack
	6,0 x 99	E16	45	46-52	0,4-0,75	4005674 69915 0 005217B097-0600992-1	100
	6,0 x 126	E16	50	52-79	0,4-0,75	4005674 69917 4 005217B097-0601262-1	100
	6,0 x 142	E16	65	66-95	0,4-0,75	4005674 69921 1 005217B097-0601422-1	100
RP-TD-P-	6,0 x 162	E16	65	66-115	0,4-0,75	4005674 69919 8 005217B097-0601622-1	100
	6,0 x 185	E16	85	86-138	0,4-0,75	4005674 69923 5 005217B097-0601852-1	100
NEW LENGTH	6,0 x 210*	E16	85	86-163	0,4-0,75	4005674 12810 0 005217B097-0602102-1	100
	6,0 x 235	E16	85	86-188	0,4-0,75	4005674 69925 9 005217B097-0602359-1	50

^{*}Please note the delivery time!

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm



Technical information:

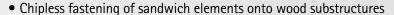
- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight











- Reduced splitting effect of wood due to patented drill element
- Specially coated
- Thread beneath the head for permanent tightness
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

Designation	n ØdxL mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capa- city mm	EAN Item no.	Pack
	6,0 x 99	E19	45	46-52	0,4-0,75	4005674 67455 3 005317B097-0600992-1	100
	6,0 x 126	E19	50	52-79	0,4-0,75	4005674 67457 7 005317B097-0601262-1	100
	6,0 x 142	E19	65	66-95	0,4-0,75	4005674 67459 1 005317B097-0601422-1	100
RP-TD-P-	6,0 x 162	E19	65	66-115	0,4-0,75	4005674 67461 4 005317B097-0601622-1	100
	6,0 x 185	E19	85	86-138	0,4-0,75	4005674 67463 8 005317B097-0601852-1	100
NEV	6,0 x 210*	E19	85	86-163	0,4-0,75	4005674 12815 5 005317B097-0602102-1	100
	6,0 x 235	E19	85	86-188	0,4-0,75	4005674 67465 2 005317B097-0602359-1	50

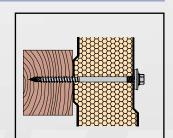
^{*}Please note the delivery time!

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight

















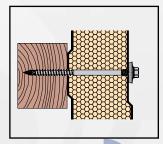
- Chipless fastening of sandwich elements onto wood substructures
- Reduced splitting effect of wood due to patented drill element
- Specially coated
- Thread beneath the head for permanent tightness
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capa- city mm	EAN Item no.	Pack
DD TD D	6,0 x 289	E19	85	180-205	0,4-0,75	4005674 11966 5 005317B097-0602899-1	50
RP-TD-P-	6,0 x 320	E19	85	200-245	0,4-0,75	4005674 12110 1 005317B097-0603209-1	50

Please note the delivery time!

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm



Technical information:

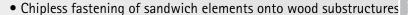
- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight











- Reduced splitting effect of wood due to patented drill element
- Specially coated
- Thread beneath the head for permanent tightness
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capa- city mm	EAN Item no.	Pack
	6,0 x 99	E22	45	46-52	0,4-0,75	4005674 67467 6 005417B097-0600992-1	100
	6,0 x 126	E22	50	52-79	0,4-0,75	4005674 67469 0 005417B097-0601262-1	100
	6,0 x 142	E22	65	66-95	0,4-0,75	4005674 67471 3 005417B097-0601422-1	100
RP-TD-P-	6,0 x 162	E22	65	66-115	0,4-0,75	4005674 67453 9 005417B097-0601622-1	100
	6,0 x 185	E22	85	86-138	0,4-0,75	4005674 67473 7 005417B097-0601852-1	100
NEW LENGTH	6,0 x 210*	E22	85	86-163	0,4-0,75	4005674 12821 6 005417B097-0602102-1	100
***	6,0 x 235	E22	85	86-188	0,4-0,75	4005674 67475 1 005417B097-0602359-1	50

^{*}Please note the delivery time!

Recommendation for chipless fastening:

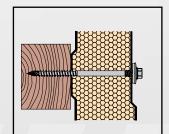
- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight















- Chipless fastening of sandwich elements onto wood substructures
- Reduced splitting effect of wood due to patented drill element
- Specially coated
- Thread beneath the head for permanent tightness
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- Component 1 steel sheet 0,4 0,75 mm
- Component 2 wood, minimum screw-in depth 42 mm

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capa- city mm	EAN Item no.	Pack
DD TD D	6,0 x 289	E22	85	180-205	0,4-0,75	4005674 11929 0 005417B097-0602899-1	50
RP-TD-P-	6,0 x 320	E22	85	200-245	0,4-0,75	4005674 12122 4 005417B097-0603209-1	50

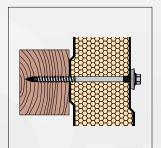
Please note the delivery time!

Recommendation for chipless fastening:

- Screw in with high pressure and low processing speed (approx. 200 rpm)
- Reduce pressure when the thread is providing forward feed
- Then increase rotation speed (approx. 1600 rpm) (speed should only be increased when tip and drill element are completely screwed in into the sheet metal)
- Significantly reduce speed before sealing washer touches the surface then tighten till the washer is lightly compressed
- Recommended tightening torque for steel substructures approx. 3 Nm, for less than 0,8 mm material thickness 1 Nm
- Recommended tightening torque for aluminium substructures approx. 1 Nm, for less than 0,8 mm material thickness 0,5 Nm

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight

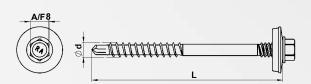












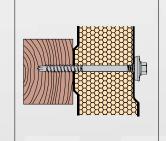
- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point for trapezoidal and sandwich elements
- With technical approval
- For fastening sandwich elements onto wood and steel substructures
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 wood, minimum screw-in depth 36 mm, steel 1,5 - 2,0 mm
- Thread beneath the head for permanent tightness

					neath the nead	<u> </u>		
Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements onto wood mm	For sandwich elements onto steel mm	Drilling capacity mm	EAN Art. Nr.	VP
NEW LENGTH	6,0 x 78*	E16	36,5	36-40	40-56	1,5-2,0	4005674 11951 1 005215B097-0600782-1	100
L.	6,0 x 92	E16	39	40 - 51	54-70	1,5-2,0	4005674 69931 0 005215B097-0600922-2	100
	6,0 x 119	E16	50	52-78	65-97	1,5-2,0	4005674 69933 4 005215B097-0601192-1	100
RP-r-P-	6,0 x 135	E16	65	66 - 94	71-113	1,5-2,0	4005674 69935 8 005215B097-0601352-1	100
NF-I-F-	6,0 x 155	E16	65	66 - 114	91-133	1,5-2,0	4005674 69937 2 005215B097-0601552-1	100
	6,0 x 178	E16	85	86 - 137	94-156	1,5-2,0	4005674 69939 6 005215B097-0601782-1	100
NEW LENGTH	6,0 x 203*	E16	85	86-162	119-177	1,5-2,0	4005674 12828 5 005215B097-0602032-1	100
	6,0 x 228	E16	85	86 - 187	144-206	1,5-2,0	4005674 63609 4 005215B097-0602289-1	50

^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1400 rpm













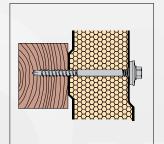
- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point for trapezoidal and sandwich elements
- With technical approval
- For fastening sandwich elements onto wood and steel substructures
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 wood, minimum screw-in depth 36 mm, steel 1,5 - 2,0 mm
- Thread beneath the head for permanent tightness

					- Incatil the nead	Tor perman	ene agriciness	
Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements onto wood mm	For sandwich elements onto steel mm	Drilling capacity mm	EAN Item no.	Pack
NEW LENGTH	6,0 x 78*	E19	36,5	36-40	40-56	1,5-2,0	4005674 11975 7 005315B097-0600782-1	100
	6,0 x 92	E19	39	40-51	54-70	1,5-2,0	4005674 61646 1 005315B097-0600922-1	100
	6,0 x 119	E19	50	52-78	65-97	1,5-2,0	4005674 61647 8 005315B097-0601192-1	100
DD ~ D	6,0 x 135	E19	65	66-94	71-113	1,5-2,0	4005674 61648 5 005315B097-0601352-1	100
RP-r-P-	6,0 x 155	E19	65	66-114	91-133	1,5-2,0	4005674 61649 2 005315B097-0601552-1	100
	6,0 x 178	E19	85	86-137	94-156	1,5-2,0	4005674 61650 8 005315B097-0601782-1	100
NEW LENGTH	6,0 x 203*	E19	85	86-162	119-177	1,5-2,0	4005674 12834 6 005315B097-0602032-1	100
	6,0 x 228	E19	85	86-187	144-206	1,5-2,0	4005674 61651 5 005315B097-0602289-1	50

^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1400 rpm

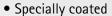












- With captive sealing washer stainless steel A2/EPDM
- Reduced drilling point for trapezoidal and sandwich elements
- With technical approval
- For fastening sandwich elements onto wood and steel structures

sub-

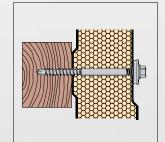
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 wood, minimum screw-in depth 36 mm, steel 1,5 - 2,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements onto wood mm	For sandwich elements onto steel mm	Drilling capacity mm	EAN Item no.	Pack
NEW	6,0 x 78*	E22	36,5	36-40	40-56	1,5-2,0	4005674 11983 2 005415B097-0600782-1	100
	6,0 x 92	E22	39	40-51	54-70	1,5-2,0	4005674 61661 4 005415B097-0600922-1	100
	6,0 x 119	E22	50	52-78	65-97	1,5-2,0	4005674 61662 1 005415B097-0601192-1	100
DD	6,0 x 135	E22	65	66-94	71-113	1,5-2,0	4005674 61663 8 005415B097-0601352-1	100
RP-r-P-	6,0 x 155	E22	65	66-114	91-133	1,5-2,0	4005674 61664 5 005415B097-0601552-1	100
	6,0 x 178	E22	85	86-137	94-156	1,5-2,0	4005674 61665 2 005415B097-0601782-1	100
NEW LENGTH	6,0 x 203*	E22	85	86-162	119-177	1,5-2,0	4005674 12841 4 005415B097-0602032-1	100
	6,0 x 228	E22	85	86-187	144-206	1,5-2,0	4005674 61666 9 005415B097-0602289-1	50

^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1400 rpm













- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 steel substructure 1,5 4,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item no.	Pack
	5,5 x 69	E16	31	39 - 43	5,25	4005674 69941 9 005211B197-0550692-1	100
	5,5 x 78	E16	36	43 - 52	5,25	4005674 69943 3 005211B197-0550782-1	100
	5,5 x 92	E16	41	52 - 66	5,25	4005674 69945 7 005211B197-0550922-1	100
	5,5 x 119	E16	55	65 - 93	5,25	4005674 63234 8 005211B197-0551192-1	100
RP-K-P-	5,5 x 135	E16	65	71 - 109	5,25	4005674 69947 1 005211B197-0551352-1	100
	5,5 x 155	E16	65	91 - 129	5,25	4005674 67010 4 005211B197-0551552-1	100
	5,5 x 178	E16	85	94 - 152	5,25	4005674 69949 5 005211B197-0551782-1	100
NEW LENGTH	5,5 x 203*	E16	85	150-179	1,5-5,25	4005674 11937 5 005211B197-0552032-1	100
LE:	5,5 x 228	E16	85	144 - 202	5,25	4005674 69951 8 005211B197-0552289-1	50

^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1400 rpm

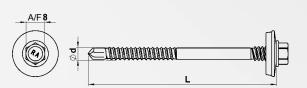












- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 steel substructure 1,5 4,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item no.	Pack
	5,5 x 69	E19	31	39 - 43	5,25	4005674 61620 1 005311B197-0550692-1	100
	5,5 x 78	E19	36	43 - 52	5,25	4005674 61621 8 005311B197-0550782-1	100
	5,5 x 92	E19	41	52 - 66	5,25	4005674 61622 5 005311B197-0550922-1	100
	5,5 x 119	E19	55	65 - 93	5,25	4005674 61623 2 005311B197-0551192-1	100
RP-K-P-	5,5 x 135	E19	65	71 - 109	5,25	4005674 61624 9 005311B197-0551352-1	100
NF-N-F-	5,5 x 155	E19	65	91 - 129	5,25	4005674 61630 0 005311B197-0551552-1	100
	5,5 x 178	E19	85	94 - 152	5,25	4005674 61631 7 005311B197-0551782-1	100
NEW LENGTH	5,5 x 203*	E19	85	150-179	1,5-5,25	4005674 65014 4 005311B197-0552032-1	100
	5,5 x 228	E19	85	144 - 202	5,25	4005674 61632 4 005311B197-0552289-1	50
NEW	5,5 x 282	E19	85	196-255	1,5-5,25	4005674 61633 1 005311B197-0552829-1	50

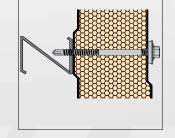
^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1400 rpm









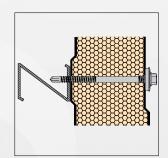




- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 steel sheet 0,4 1,0 mm
- Component 2 steel substructure 1,5 4,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item no.	Pack
	5,5 x 69	E22	31	39 -43	5,25	4005674 61625 6 005411B197-0550692-1	100
	5,5 x 78	E22	36	43 - 52	5,25	4005674 61626 3 005411B197-0550782-1	100
	5,5 x 92	E22	41	52 - 66	5,25	4005674 61627 0 005411B197-0550922-1	100
	5,5 x 119	E22	55	65 - 93	5,25	4005674 61628 7 005411B197-0551192-1	100
RP-K-P-	5,5 x 135	E22	65	71 - 109	5,25	4005674 61629 4 005411B197-0551352-1	100
UL-V-L-	5,5 x 155	E22	65	91 - 129	5,25	4005674 61636 2 005411B197-0551552-1	100
	5,5 x 178	E22	85	94 - 152	5,25	4005674 61637 9 005411B197-0551782-1	100
NEW	5,5 x 203*	E22	85	150-179	1,5-5,25	4005674 65017 5 005411B197-0552032-1	100
	5,5 x 228	E22	85	144 - 202	5,25	4005674 61638 6 005411B197-0552289-1	50
NEW	5,5 x 282	E22	85	196-255	1,5-5,25	4005674 61639 3 005411B197-0552829-1	50

*Please note the delivery time!



Technical information:

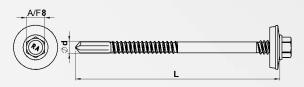
- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
 - Wille screwing in and will remain permain
- Processing speed 1300 1500 rpm











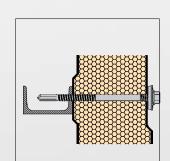
- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 0,4 1,0 mm
- Component 2 steel substructure 4,0 10,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item. No.	Pack
	5,5 x 76	E16	38	39 - 43	11,25	4005674 69953 2 005213B197-0550762-1	100
	5,5 x 85	E16	43	43 - 52	11,25	4005674 69955 6 005213B197-0550852-1	100
	5,5 x 99	E16	48	52 - 66	11,25	4005674 69957 0 005213B197-0550992-1	100
	5,5 x 126	E16	62	65 - 93	11,25	4005674 69959 4 005213B197-0551262-1	100
RP-K12-P-	5,5 x 142	E16	75	71 - 109	11,25	4005674 69961 7 005213B197-0551422-1	100
	5,5 x 162	E16	75	78 - 129	11,25	4005674 69963 1 005213B197-0551622-1	100
	5,5 x 185	E16	93	93 - 152	11,25	4005674 63235 5 005213B197-0551852-1	100
NEW	5,5 x 210*	E16	93	150-179	4-12	4005674 12024 1 005213B197-0552102-1	100
	5,5 x 235	E16	93	143 - 202	11,25	4005674 69965 5 005213B197-0552359-1	50

^{*}Please note the delivery time!

Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1200 1400 rpm

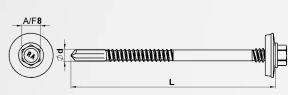








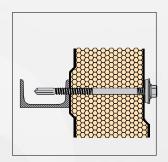




- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 0,4 1,0 mm
- Component 2 steel substructure 4,0 10,0 mm
- Thread beneath the head for permanent tightness

Designation	ØdxL mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item. No.	Pack
	5,5 x 76	E19	38	39 - 43	11,25	4005674 61641 6 005313B197-0550762-1	100
	5,5 x 85	E19	43	43 - 52	11,25	4005674 61642 3 005313B197-0550852-1	100
	5,5 x 99	E19	48	52 - 66	11,25	4005674 61643 0 005313B197-0550992-1	100
	5,5 x 126	E19	62	65 - 93	11,25	4005674 61644 7 005313B197-0551262-1	100
RP-K12-P-	5,5 x 142	E19	75	71 - 109	11,25	4005674 61645 4 005313B197-0551422-1	100
NF-N12-F-	5,5 x 162	E19	75	78 - 129	11,25	4005674 61671 3 005313B197-0551622-1	100
	5,5 x 185	E19	93	93 - 152	11,25	4005674 61672 0 005313B197-0551852-1	100
NEW	5,5 x 210*	E19	93	150-179	4-12	4005674 65015 1 005313B197-0552102-1	100
	5,5 x 235	E19	93	143 - 202	11,25	4005674 61673 7 005313B197-0552359-1	50
NEW LENGTH	5,5 x 289	E19	93	196-255	4-12	4005674 61674 4 005313B197-0552899-1	50

*Please note the delivery time!



Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1200 1400 rpm











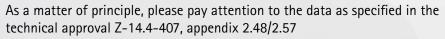
- Specially coated
- With captive sealing washer stainless steel A2/EPDM
- With technical approval
- For fastening sandwich elements onto steel substructures
- Component 1 0,4 1,0 mm
- Component 2 steel substructure 4,0 10,0 mm
- Thread beneath the head for permanent tightness

Designation	Ø d x L mm	Washer EPDM Ø	Thread length mm	For sandwich elements mm	Drilling capacity mm	EAN Item. No.	Pack
	5,5 x 76	E22	38	39 - 43	11,25	4005674 61656 0 005413B197-0550762-1	100
	5,5 x 85	E22	43	43 - 52	11,25	4005674 61657 7 005413B197-0550852-1	100
	5,5 x 99	E22	48	52 - 66	11,25	4005674 61658 4 005413B197-0550992-1	100
	5,5 x 126	E22	62	65 - 93	11,25	4005674 61659 1 005413B197-0551262-1	100
RP-K12-P-	5,5 x 142	E22	75	71 - 109	11,25	4005674 61660 7 005413B197-0551422-1	100
NF-N1Z-F-	5,5 x 162	E22	75	78 - 129	11,25	4005674 61676 8 005413B197-0551622-1	100
	5,5 x 185	E22	93	93 - 152	11,25	4005674 61677 5 005413B197-0551852-1	100
NEW	5,5 x 210*	E22	93	150-179	4-12	4005674 65018 2 005413B197-0552102-1	100
	5,5 x 235	E22	93	143 - 202	11,25	4005674 61678 2 005413B197-0552359-1	50
NEW LENGTI	5,5 x 289	E22	93	196-255	4-12	4005674 61679 9 005413B197-0552899-1	50

^{*}Please note the delivery time!

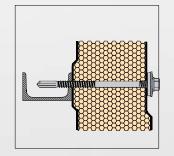
Technical information:

- The undercut (part without thread) is located between the supporting thread beneath the head and the flange
- The cover sheet of the sandwich panel will be fixed between the sealing washer and the supporting thread while screwing in and will remain permanently tight
- Processing speed 1200 1400 rpm

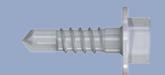


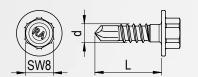












REISSER Sliding and fixed point screw Stainless steel A2 RV-B5-5,4 x 18

- Stainless steel A2 anti-friction coated
- With test certificate for rear ventilated facades (VHF)
- Flexibly usable for thickness 3,5 7 mm
- No pre-drilling of component 2
- For aluminium and stainless steel wall brackets
- Component 1pre-drilled Ø 5 mm
- Component 2 aluminium 1,5 5,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
DV DE	5,4 x 18	-	3,5-7,0	1,5-5,0	4005674 12484 3 005091V138-0540182-1	100
RV-B5-	5,4 x 18	-	3,5-7,0	1,5-5,0	4005674 12504 8 005091V138-0540186-1	500





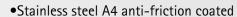
With technical test certificate P-BWU02-178008 for VHF







REISSER Sliding and fixed point screw Stainless steel A4 RV4-B5-5,4 x 18



- With test certificate for rear ventilated facades (VHF)
- Flexibly usable for thickness 3,5 7 mm
- No pre-drilling of component 2
- For aluminium and stainless steel wall brackets
- Component 1pre-drilled Ø 5 mm
- Component 2 aluminium 1,5 5,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
D)/4 DE	5,4 x 18	-	3,5-7,0	1,5-5,0	4005674 12513 0 005091W138-0540182-1	100
RV4-B5-	5,4 x 18	-	3,5-7,0	1,5-5,0	4005674 12530 7 005091W138-0540186-1	500

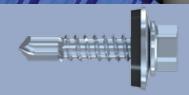




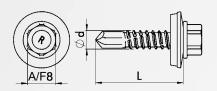
With technical test certificate P-BWU02-178008 for VHF





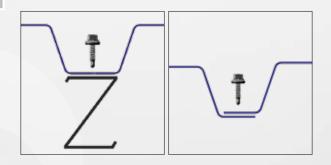


REFABO Steel hardened R-K-4,8 x 20 S16



- Steel hardened, coated
- With technical approval
- Component 1 0,63 2,0 mm
- Component 2 steel substructure 0,63 3,0 mm

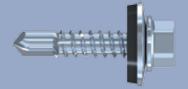
Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
R-K-	4,8 x 20	-	10	4,4	4005674 47476 4 005079S121-0480206-1	500
	4,8 x 20	-	10	4,4	4005674 55606 4 005079S121-0480202-1	100
	4,8 x 20	S16	8	4,4	4005674 47501 3 005279S121-048020E-1	300
	4,8 x 20	S16	8	4,4	4005674 58983 3 005279S121-0480202-1	100



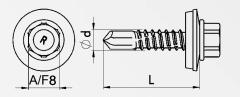






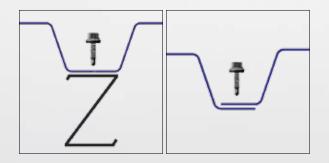


REFABO Steel hardened R-K-5,5 x 25 S16



- Steel hardened, coated
- With technical approval
- Component 1 0,63 2,0 mm
- Component 2 steel substructure 0,63 4,0 mm

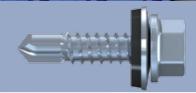
Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
R-K-	5,5 x 25	-	15	5,25	4005674 47477 1 005079S121-0550256-1	500
	5,5 x 25	-	15	5,25	4005674 58997 0 005079S121-0550252-1	100
	5,5 x 25	S16	12	5,25	4005674 47502 0 005279S121-0550254-1	200
	5,5 x 25	S16	12	5,25	4005674 53205 1 005279S121-0550252-1	100



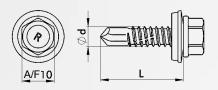






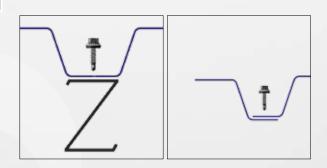


REFABO Steel hardened R-K-6,3 x 25 S16



- Steel hardened, coated
- With technical approval
- Component 1 0,63 2,0 mm
- Component 2 steel substructure 0,63 5,0 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
R-K-	6,3 x 25	-	12	6	4005674 47478 8 005079S121-0630256-1	500
	6,3 x 25	-	12	6	4005674 58991 8 005079S121-0630252-1	100
	6,3 x 25	S16	10	6	4005674 47504 4 005279S121-0630254-1	200
	6,3 x 25	S16	10	6	4005674 58993 2 005279S121-0630252-1	100











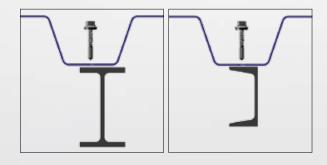
REFABO Steel hardened R-K12-5,5 x 38 S16





- Steel hardened, coated
- With technical approval
- Component 1 0,63 2,0 mm
- Component 2 steel substructure 6,0 12,0 mm

Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
R-K12-	5,5 x 38	-	23	4 - 12	4005674 47483 2 005089S121-055038Z-1	250
	5,5 x 38	-	23	4 - 12	4005674 58995 6 005089S121-0550382-1	100
	5,5 x 38	S16	20	4 - 12	4005674 47503 7 005289S121-0550384-1	200
	5,5 x 38	S16	20	4 - 12	4005674 53207 5 005289S121-0550382-1	100











REISSER self-drilling crossbar screw 8.0

For fastening crossbars and other attachments when constructing industrial buildings
REFABO R-K12-8,0 x 38

Field of application

The steel self-drilling screw is used to fasten crossbars, purlins and other attachments to steel substructures when constructing industrial buildings.

Application

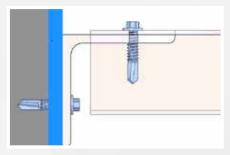
The self-drilling crossbar screw replaces the classic metric screws with nuts. It joins components in a single step: drilling, thread forming and fastening. This reduces assembly times, saves tool changes and costs for drilling tools. For example, the pre-punching of holes for the brackets on posts and rafters can be dispensed with in this case, thus compensating for structural tolerances and oblong holes can be easily mounted. Furthermore, self-drilling screws have a higher holding and shear force. For this reason, fewer self-drilling screws need to be mounted and assembly times are shorter.

Your benefits

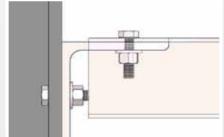
- Drilling and screwing in one
 →50% time saving
- Fewer screws due to the high holding force
- Oblong hole fastening is also possible (with technical approval)
- Easy to compensate for structural tolerances
- Drilling capacitiy: 12 mm
- •10 kN extraction force 14 kN shear force
- With technical approval Z-14.1-4

Safety

Safety is guaranteed thanks to the technical approval Z-14.1-4.



No pre-drilling!



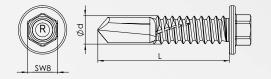
Conventional fastening must be pre-drilled and fit with millimetre precision





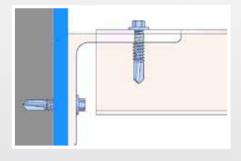


REFABO self-drilling crossbar screw Steel hardened R-K12-8,0 x 38



- Steel hardened, coated
- With technical approval
- Component 1, steel 1,5 4,0 mm
- Component 2, steel substructure 2,0 8,0 mm
- Shear force up to 14 kN

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item. No.	Pack
R-K12-	8,0 x 38	-	23	4 - 12	4005674 70274 4 008013S121-0800382-1	100











Corrugated fibre cement board self-drilling screw



Type

Steel hardened with special coating and stainless

Sealing

The captive EPDM Ø 25 mm bell sealing is supported by a Ø 22 mm stainless steel washer. This seals the screw shank reliably at a cone underneath the head. The bell sealing adapts exactly to the shape of the board and seals the drilling waterproofed.

Reaming-wings

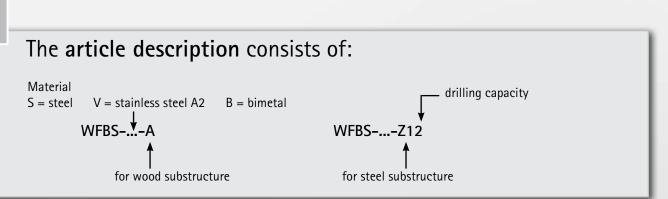
The pressed reaming-wings at the screw shank widen the hole in the fibre cement when screwing in. This avoids tension between the screw shank and the drilling reveal. Tension cracks in the corrugation can not be formed and guarantee a professional installation.

Drilling point

The drilling point makes separate pre-drilling superfluous so that installation time is halved. We recommend a processing speed from 900 to 1500 rpm.

Advantages in screwing:

 Drilling, fastening and sealing in one step

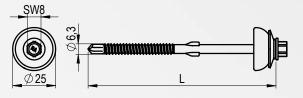








WFBS Stainless steel A2/bimetal WFBS-B-Z6-6,3 x L



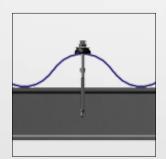
- Specially coated
- With captive bell sealing (Ø 25 mm) and stainless steel washer (Ø 22 mm)
- With technical approval
- With drilling point for steel substructure 1,5 6,0 mm

Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item No	Pack
WEDG D 70	6,3 x 110	GLD25	51 - 85	1,5-6	4005674 60903 6 005574B197-0631102-1	100
WFBS-B-Z6-	6,3 x 160	GLD25	83 - 135	1,5-6	4005674 60905 0 005574B197-0631602-1	100

Technical information:

- Processing speed 1200 rpm
- Minimum screw-in depth 25 mm
- Stop-orientated screwing is recommended

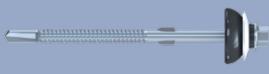
As a matter of principle, please pay attention to the data as specified in the technical approval of SVK Z-31.4-161 and Eternit Z-31.4-174, Z-31.4-175 and Z-31.4-210











WFBS Steel hardened WFBS-S-Z12-6,3 x 110



- Specially coated
- With captive bell sealing (Ø 25 mm) and stainless steel washer (Ø 22 mm)
- With drilling point for steel substructure 4-12 mm

Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness mm	Drilling capacity mm	EAN Item No.	Pack
WFBS-S-Z12-	6,3 x 110	GLD25	40- 60	4-12	4005674 49100 6 005574S297-0631102-1	100

Technical information:

- Stop-orientated screwing is recommended
- Processing speed 1200 1500 rpm
- Minimum screw-in depth min. 30 mm

Please observe the specifications of the corrugated fibre cement board manufacturer and the national approvals for the use and calculations of the fastening elements.







WFBS Steel hardened WFBS-S-A-6,5 x 130



- Hot-dip galvanised
- With captive bell sealing (Ø 25 mm) and stainless steel washer (Ø 22 mm)
- With technical approval
- With drilling point for wood substructure

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
WFBS-S-A-	6,5 x 130	GLD25	40- 60	4005674 60907 4 005572S091-0651302-1	100

Technical information:

- Stop-orientated screwing is recommended
- Processing speed 900 rpm
- Minimum screw-in depth 50 mm

As a matter of principle, please pay attention to the data as specified in the technical approval of SVK Z-31.4-161 and Eternit Z-31.4-174, Z-31.4-175 and Z-31.4-210









WFBS Stainless steel A2 WFBS-V-A-6,5 x130



- With captive bell sealing (Ø 25 mm) and stainless steel washer (Ø 22 mm)
- With drilling point for wood substructure
- With technical approval

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
WFBS-V-A-	6,5 x 130	GLD25	40- 60	4005674 54001 8 005572V038-0651302-1	100

Technical information:

- Processing speed 900 rpm
- Minimum screw-in depth 50 mm
- Stop-orientated screwing is recommended

As a matter of principle, please pay attention to the data as specified in the technical approval of SVK Z-31.4-161 and Eternit Z-31.4-174, Z-31.4-175 and Z-31.4-210











FABA

Facade screws

Material and design

The strength of stainless steel A2 facade screws is increased extremely by high compression of the material. Therefore the screws are able to groove their own thread into the steel substructures. A very thick and special coating improves the sliding property and reduces the screw-in torque.

Application

FABA type A with 2,5 mm thread pitch is suitable for fittings onto wood, steel and aluminium substructures. FABA type BZ with 1,8 mm thread pitch is suitable for fittings onto steel substructures.

FABAs have a very wide range of applications. Since predrilling is done individually, the same screws can be used for different substructures. You can see the appropriate pre-drilling diameters for the respective substructure in our drilling tables, these must be observed. If the hole is too big, the FABA will find no grip and if the hole is too small the FABA could get damaged.

Safety

The safety is guaranteed by technical approval Z-14.1-4, Z-14.1-537 and Z-14.4-407.

Screwing in three steps:

- Pre-drilling with the right drilling Ø, which is suitable for the substructure
- 2. Turn in the screw, it grooves its own thread in the substructure
- 3. Tighten the screw until the sealing forms a slight bulge, see sealing washers, chapter 6 "Accessories" (Stop-orientated screwing is recommended, see chapter 7 "Tools")











FABA type A facade screw, stainless steel A2

- For screwing steel profiles, aluminium profiles, fibre cement boards, wood boards and sandwich elements onto wood, steel up to 1,5 mm and aluminium substructure up to 2,0 mm
- With captive sealing washer stainless steel A2/EPDM
- Special coating with high lubricating properties
- Fast, reliable screwing and high safety due to technical approval

Designation	Nominal Ø mm	Length mm	Washer Ø	Application	Grip thickness mm	A/F
FABA-A	6,5	19 - 200	E16/E22	 Steel 0,63 - 1,5 mm, Wood substructure: minimum screw-in depth 26 mm Sandwich elements: minimum screw-in depth 45 mm 	0 - 185	3/8"

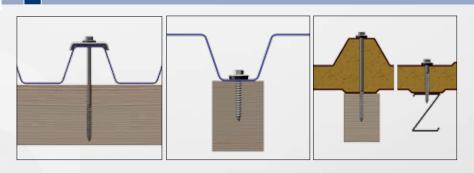
Drill hole table for FABA type A

Commonant II this langer was (substance to a		Man al			
Component II thickness mm (substructure)	0,63	0,75	0,88 - 1,25	1,5	Wood
Ø of drill hole mm	3,5	4	4,5	5	4,8

O (Aluminium			
Component II thickness mm (substructure)	0,5 - 0,7	0,8 - 1,5	2,0	
Ø of drill hole mm	4,0	4,5	5	



You can find suitable drills in chapter "Tools"

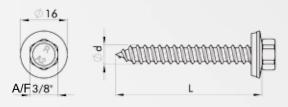












- Pre-drilling according to pre-drill table on page 66
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For fastening profiles onto wood substructures
- Steel sheet up to 1,5 mm and aluminium substructure up to 2,0 mm

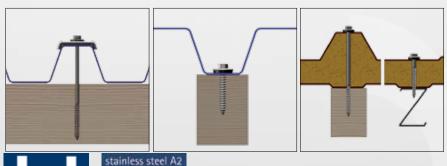
Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness steel and alu- minium mm	Grip thickness wood mm	EAN Item No.	Pack
	6,5 x 19	E16	9	-	4005674 42515 5 000331V020-0650196-1	500
	6,5 x 19	E16	9	-	4005674 45602 9 000331V020-0650192-1	100
	6,5 x 25	E16	15	-	4005674 42516 2 000331V020-0650256-1	500
ΓΛΟΛ Λ	6,5 x 25	E16	15	-	4005674 53145 0 000331V020-0650252-1	100
FABA-A	6,5 x 32	E16	22	2	4005674 42517 9 000331V020-0650326-1	500
	6,5 x 32	E16	22	2	4005674 44415 6 000331V020-0650322-1	100
	6,5 x 38	E16	28	8	4005674 42518 6 000331V020-0650386-1	500
	6,5 x 38	E16	28	8	4005674 45604 3 000331V020-0650382-1	100

Technical information:

- Recommended screw-in depth in wood min. 26 mm
- Recommended screw-in depth for sandwich elements min. 45 mm
- Up to length 25 mm: Technical approval only for steel and aluminium substructure

Please note:

Also available with E19 sealing washer on request.

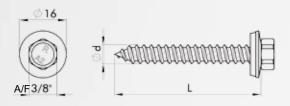












- Pre-drilling according to pre-drill table on page 66
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For fastening profiles onto wood substructures
- Steel sheet up to 1,5 mm and aluminium substructure up to 2,0 mm

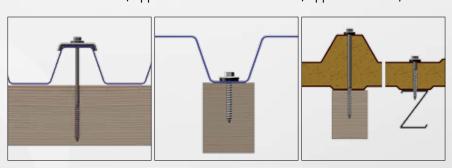
Designation	ØdxLmm	Washer EPDM Ø	Grip thickness steel and alu- minium mm	Grip thickness wood mm	EAN Item No.	Pack
	6,5 x 45	E16	35	15	4005674 42519 3 000331V020-065045E-1	300
	6,5 x 45	E16	35	15	4005674 51955 7 000331V020-0650452-1	100
	6,5 x 50	E16	40	20	4005674 42520 9 000331V020-065050E-1	300
	6,5 x 50	E16	40	20	4005674 41229 2 000331V020-0650502-1	100
FABA-A-	6,5 x 64	E16	54	34	4005674 42521 6 000331V020-065064E-1	300
	6,5 x 64	E16	54	34	4005674 41587 3 000331V020-0650642-1	100
	6,5 x 75	E16	65	45	4005674 42522 3 000331V020-065075E-1	300
	6,5 x 75	E16	65	45	0 4005674 41595 8 000331V020-0650752-1	100

Technical information:

- Recommended screw-in depth in wood min. 26 mm
- Recommended screw-in depth for sandwich elements min. 45 mm

Please note:

Also available with E19 sealing washer on request.













- Pre-drilling according to pre-drill table on page 66
- With technical approval
- Zinc-slide coating
- Partial thread 70 mm
- With captive sealing washer stainless steel A2/EPDM
- For fastening profiles onto wood substructures
- Steel sheet up to 1,5 mm and aluminium substructure up to 2,0 mm

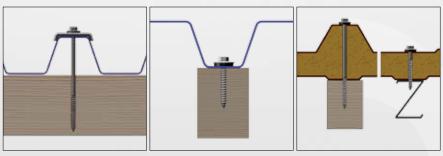
Designation	Ø d x L mm	Washer EPDM Ø	Grip thickness steel and alu- minium mm	Grip thickness wood mm	EAN Item No.	Pack
	6,5 x 90	E16	25-80	60	4005674 41606 1 000331V020-0650902-1	100
	6,5 x 100	E16	35-90	70	4005674 40155 5 000331V020-0651002-1	100
	6,5 x 115	E16	50-105	85	4005674 40156 2 000331V020-0651152-1	100
FABA-A-	6,5 x 130	E16	65-120	100	4005674 40157 9 000331V020-0651302-1	100
	6,5 x 150	E16	85-140	120	4005674 40187 6 000331V020-0651502-1	100
	6,5 x 175	E16	110-165	145	4005674 47404 7 000331V020-0651752-1	100
	6,5 x 200	E16	135-190	170	4005674 47405 4 000331V020-0652002-1	100

Technical information:

- Recommended screw-in depth in wood min. 26 mm
- Recommended screw-in depth for sandwich elements min. 45 mm

Please note:

Also available with E19 sealing washer on request.













- Pre-drilling according to pre-drill table on page 66
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For fastening profiles onto wood substructures
- Steel sheet up to 1,5 mm and aluminium substructure up to 2,0 mm

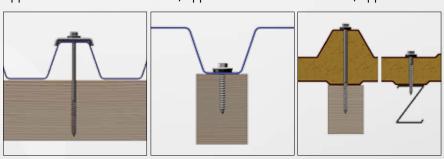
Designation	ØdxLmm	Washer EPDM Ø	Grip thickness steel and alu- minium mm	Grip thickness wood mm	EAN Item No.	Pack
	6,5 x 19	E22	9	-	4005674 58723 5 002331V020-0650192-1	100
	6,5 x 25	E22	15	-	4005674 58725 9 002331V020-0650252-1	100
	6,5 x 32	E22	22	2	4005674 58727 3 002331V020-0650322-1	100
ΓΛΩΛ Λ	6,5 x 38	E22	28	8	4005674 58729 7 002331V020-0650382-1	100
FABA-A-	6,5 x 45	E22	35	15	4005674 58732 7 002331V020-0650452-1	100
	6,5 x 50	E22	40	20	4005674 44974 8 002331V020-0650502-1	100
	6,5 x 64	E22	54	34	4005674 56359 8 002331V020-0650642-1	100
	6,5 x 75	E22	65	45	4005674 54942 4 002331V020-0650752-1	100

Technical information:

- Recommended screw-in depth in wood min. 26 mm
- Recommended screw-in depth for sandwich elements min. 45 mm

Please note:

Also available with E19 sealing washer on request.

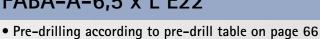












- Tre-uning according to p
- With technical approval
- Zinc-slide coating
- Length of partial thread 70 mm
- With captive sealing washer stainless steel A2/EPDM
- For fastening profiles onto wood substructures
- Steel sheet up to 1,5 mm and aluminium substructure up to 2,0 mm

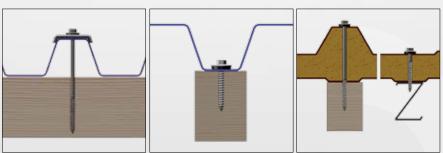
	Seef sheet up to 1,5 mm and diaminant substructure up to					
Designation	ØdxLmm	Washer EPDM Ø	Grip thickness steel and alu- minium mm	Grip thickness wood mm	EAN Item No.	Pack
	6,5 x 90	E22	25-80	60	4005674 44975 5 002331V020-0650902-1	100
	6,5 x 100	E22	35-90	70	4005674 51497 2 002331V020-0651002-1	100
	6,5 x 115	E22	50-105	85	4005674 46902 9 002331V020-0651152-1	100
FABA-A-	6,5 x 130	E22	65-120	100	4005674 47313 2 002331V020-0651302-1	100
	6,5 x 150	E22	85-140	120	4005674 44247 3 002331V020-0651502-1	100
	6,5 x 175	E22	110-165	145	4005674 46353 9 002331V020-0651752-1	100
	6,5 x 200	E22	135-190	170	4005674 47740 6 002331V020-0652002-1	100

Technical information:

- Recommended screw-in depth in wood min. 26 mm
- Recommended screw-in depth for sandwich elements min. 45 mm

Please note:

Also available with E19 sealing washer on request.











Repair screw Stainless steel A2 FABA-A-7,2 x 19 E19



- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For sealing incorrect drillings
- To repair loose rivets and screw connections $\emptyset \le 6.5 \text{ mm}$
- Also for fastening solar systems onto thin aluminium and steel sheets

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
7,2 x 19 7,2 x 19 7,2 x 19 7,2 x 19	E19	5	4005674 49907 1 001331V020-0720196-1	500	
	7,2 x 19	E19	5	4005674 56358 1 001331V020-0720192-1	100
	7,2 x 19	E19	5	4005674 63597 4 001331V020-0720195-1	20

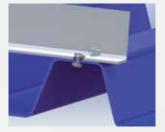
Drill hole table

A/F 3/8

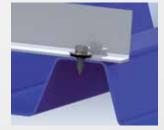
Component II thickness mm	0,5-1,25	1,5-2,0
Ø of drill hole mm	4,7	5,5

- Quick and easy repair
- No further working step necessary
- High holding force due to large cross section
- Technical approval remains









As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 4.43b and Z-14.1-537, appendix 4.1.9/4.2.9









FABA type BZ facade screw stainless steel A2

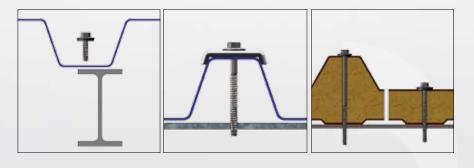
- For screwing steel profiles, aluminium profiles, fibre cement boards, wood boards and sandwich elements onto steel substructure from 1,25 mm
- With captive sealing washer stainless steel A2/EPDM
- Special coating with high lubricating properties
- Fast, reliable screwing and high safety due to technical approval

Designation	Nominal Ø mm	Length mm	Washer Ø	Substructure mm	Grip thickness mm	A/F
FABA-BZ-	6,3	19 - 200	E16/E22	1,5 - 10	0 - 185	3/8"

Drill hole table for FABA type BZ

Dilli floid table for TABA type be					
Component II thickness mm (steel substructure)	1,25	1,5	2,0 - 5,9	6,0- 6,9	≥7,0
Ø of drill hole mm	5	5	5,3	5,5	5,7
Component II thickness mm (aluminium substructure)	1,5	2,0 - 3,0	4,0 - 5,0	6,0	≥7,0
Ø of drill hole mm	4,5	5	5,3	5,5	5,7

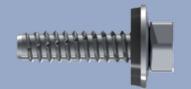
You can find suitable drills in chapter "Tools"

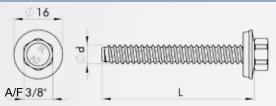












- Pre-drilling according to pre-drill table on page 73
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For steel substructure 1,25 mm and aluminium 1,5 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
	6,3 x 19	E16	9	4005674 42501 8 000332V020-0630196-1	500
	6,3 x 19	E16	9	4005674 53146 7 000332V020-0630192-1	100
	6,3 x 25	E16	15	4005674 42502 5 000332V020-0630256-1	500
FABA-BZ-	6,3 x 25	E16	15	4005674 53147 4 000332V020-0630252-1	100
FADA-DZ-	6,3 x 32	E16	22	4005674 42503 2 000332V020-0630326-1	500
	6,3 x 32	E16	22	4005674 53148 1 000332V020-0630322-1	100
	6,3 x 38	E16	28	4005674 42504 9 000332V020-0630386-1	500
	6,3 x 38	E16	28	4005674 53149 8 000332V020-0630382-1	100

Please note:

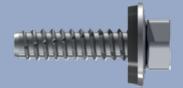
Also available with E19 sealing washer on request.













- Pre-drilling according to pre-drill table on page 73
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For steel substructure 1,25 mm and aluminium 1,5 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
	6,3 x 45	E16	35	4005674 42505 6 000332V020-063045E-1	300
	6,3 x 45	E16	35	4005674 47426 9 000332V020-0630452-1	100
	6,3 x 50	E16	40	4005674 42506 3 000332V020-063050E-1	300
FABA-BZ-	6,3 x 50	E16	40	4005674 41586 6 000332V020-0630502-1	100
FADA-DZ-	6,3 x 64	E16	54	4005674 42507 0 000332V020-063064E-1	300
	6,3 x 64	E16	54	4005674 40491 4 000332V020-0630642-1	100
	6,3 x 75	E16	65	4005674 42508 7 000332V020-063075E-1	300
	6,3 x 75	E16	65	4005674 41210 0 000332V020-0630752-1	100

Please note:

Also available with E19 sealing washer on request.













- Pre-drilling according to pre-drill table on page 73
- With technical approval
- Zinc-slide coating
- Length of partial thread 70 mm
- With captive sealing washer stainless steel A2/EPDM
- For steel substructure 1,25 mm and aluminium 1,5 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
	6,3 x 90	E16	25-80	4005674 43498 0 000332V020-0630902-1	100
	6,3 x 100	E16	35-90	4005674 42180 5 000332V020-0631002-1	100
	6,3 x 115	E16	50-105	4005674 42673 2 000332V020-0631152-1	100
FABA-BZ	6,3 x 130	E16	65-120	4005674 43383 9 000332V020-0631302-1	100
	6,3 x 150	E16	85-140	4005674 44194 0 000332V020-0631502-1	100
	6,3 x 175	E16	110-165	4005674 55063 5 000332V020-0631752-1	100
	6,3 x 200	E16	135-190	4005674 58709 9 000332V020-0632002-1	100

Please note:

Also available with E19 sealing washer on request.













- Pre-drilling according to pre-drill table on page 73
- With technical approval
- Zinc-slide coating
- With captive sealing washer stainless steel A2/EPDM
- For steel substructure 1,25 mm and aluminium 1,5 mm

Bezeichnung	ØdxLmm	Scheibe EPDM Ø	Klemmdicke mm	EAN Art. Nr.	VP
	6,3 x 19	E22	9	4005674 58734 1 002332V020-0630192-1	100
	6,3 x 25	E22	15	4005674 58736 5 002332V020-0630252-1	100
	6,3 x 32	E22	22	4005674 58738 9 002332V020-0630322-1	100
FABA-BZ	6,3 x 38	E22	28	4005674 58740 2 002332V020-0630382-1	100
rada-dz	6,3 x 45	E22	35	4005674 58742 6 002332V020-0630452-1	100
	6,3 x 50	E22	40	4005674 58763 1 002332V020-0630502-1	100
	6,3 x 64	E22	54	4005674 58765 5 002332V020-0630642-1	100
	6,3 x 75	E22	65	4005674 58767 9 002332V020-0630752-1	100

Please note:

Also available with E19 sealing washer on request.











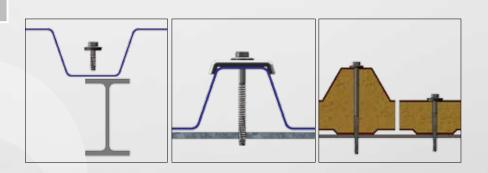


- Pre-drilling according to pre-drill table on page 73
- With technical approval
- Zinc-slide coating
- Length of the partial thread 70 mm
- With captive sealing washer stainless steel A2/EPDM
- For steel substructure 1,25 mm and aluminium 1,5 mm

Designation	ØdxLmm	Washer EPDM Ø	Grip thickness mm	EAN Item No.	Pack
	6,3 x 90	E22	25-80	4005674 58769 3 002332V020-0630902-1	100
	6,3 x 100	E22	35-90	4005674 58772 3 002332V020-0631002-1	100
	6,3 x 115	E22	50-105	4005674 46572 4 002332V020-0631152-1	100
FABA-BZ	6,3 x 130	E22	65-120	4005674 47407 8 002332V020-0631302-1	100
	6,3 x 150	E22	85-140	4005674 46354 6 002332V020-0631502-1	100
	6,3 x 175	E22	110-165	4005674 47748 2 002332V020-0631752-1	100
	6,3 x 200	E22	135-190	4005674 47749 9 002332V020-0632002-1	100

Please note:

Also available with E19 sealing washer on request.











REISSER Distance-Set

For corrugated and trapezoidal panels

- One man installation completely from the top
- 50% time saving
- Patented glass fiber reinforced expanding sleeve
- Significantely improved tightness
- Best corrosion protection
- Replaces conventionally bar spacer

Processing:

1

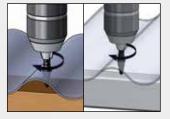


Figure 1: Pre-drilling of the profile with step drill Ø 4-10 mm.



(Item no. 00A423S010-410040L-2)



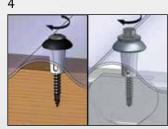


Figure 2: Insert the screw with the expanding-sleeve through the panel up to the substructure.

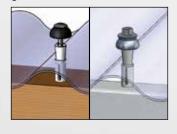
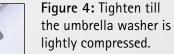


Figure 3: While screwing into the substructure, the collar of the sleeve must remain under the panel for spreading.















REISSER distance set

For fastening corrugated and trapezoidal light panels onto wood substructure



- For light panels with thickness 1-2 mm
- No pre-drilling of the substructure
- Glass fiber reinforced expanding sleeve
- Stainless steel A2 facade panel screw 4,8 x 50 / stainless steel A2 DRIBO® screw 6,0 x L E19
- EPDM umbrella sealing Ø 19 mm // Ø 24 mm
- Drive SIT®20/TX 20 // A/F8 (DSH2-12 wood)



Designation	Profile height mm	Panel thickness mm	Sleeve D Ø mm	Screw d Ø mm	Screw length L mm	Item No.	Pack
DSH2-Wood	17-20	1-2	10	4,8	50	4005674 61501 3 00DSH2V138-0480502-1	100
DSH4-Wood*	21-24	1-2	10	4,8	50	4005674 70268 3 00DSH4V138-0480502-1	100
DSH2-Wood	29-33	1-2	12	6,0	75	4005674 68779 9 00DSH2V138-1200302-1	100
DSH2-Wood	34-38	1-2	12	6,0	90	4005674 69441 4 00DSH2V138-1200352-1	100
DSH2-Wood	39-43	1-2	12	6,0	90	4005674 69443 8 00DSH2V138-1200402-1	100
DSH2-Wood	44-48	1-2	12	6,0	100	4005674 69446 9 00DSH2V138-1200452-1	100
DSH2-Wood	49-53	1-2	12	6,0	100	4005674 67805 6 00DSH2V138-1200502-1	100

^{*}Please note the delivery time!



- DSH5 for light panels with thickness 3 mm
- No pre-drilling of the substructure
- Glass fiber reinforced expanding sleeve
- Stainless steel A2 facade panel screw 4,8 x 50
- EPDM umbrella sealing Ø 19 mm
- Drive SIT®20/TX 20



Designation	Profile height mm	Panel thickness mm	Sleeve DØ mm	Screw d Ø mm	Screw length L mm	Item No.	Pack
DSH5-Wood	17-20	max. 3	10	4,8	50	4005674 70272 0 00DSH5V138-0480502-1	100



Pre-drilling of the profile with REISSER step drill (Item No. 00A423S010-410040L-2)



Ø 10 mm

Technical information:

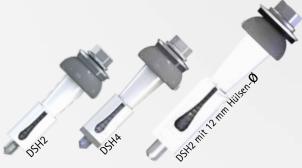
- For panels with more than 2 mm material thickness we recommend:
 - wood substructure: RP-r-6,0 x 90 E16 + appropriate saddle washer
- Please pay attention to the regulations of the manufacturers





REISSER distance set

For fastening corrugated and trapezoidal light panels onto steel substructure



- For light panels with thickness 1-2 mm
- No pre-drilling of the substructure
- Glass fiber reinforced expanding sleeve
- Bimetal self-drilling screw RP-K-5,5 x 50 E16 for steel substructure up to 5,25 mm // Bimetal self-drilling screw RP-K-6,3 x L E19 for steel substructure up to 6,0 mm
- EPDM umbrella sealing Ø 19 mm // Ø 24 mm
- Drive SIT®20/TX 20 // A/F3/8 (DSH2-12 steel)

Designation	Profile height mm	Panel thickness mm	Sleeve D Ø mm	Screw d Ø mm	Screw length L mm	Item No.	Pack
DSH2-Steel	17-20	1-2	10	5,5	50	4005674 604536 00DSH2B197-0550502-1	100
DSH4-Steel*	21-24	1-2	10	5,5	50	4005674 70266 9 00DSH4B197-0550502-1	100
DSH2-Steel	29-33	1-2	12	6,3	70	4005674 69424 7 00DSH2B197-1200302-1	100
DSH2-Steel	34-38	1-2	12	6,3	85	4005674 69426 1 00DSH2B197-1200352-1	100
DSH2-Steel	39-43	1-2	12	6,3	85	4005674 69428 5 00DSH2B197-1200402-1	100
DSH2-Steel	44-48	1-2	12	6,3	85	4005674 69431 5 00DSH2B197-1200452-1	100
DSH2-Steel	49-53	1-2	12	6,3	85	4005674 67807 0 00DSH2B197-1200502-1	100

^{*}Please note the delivery time!



- DSH5 for light panels with thickness 3 mm
- No pre-drilling of the substructure
- Glass fiber reinforced expanding sleeve
- Bimetal self-drilling screw RP-K-5,5 x 50 E16 for steel substructure up to 5,25 mm
- EPDM umbrella sealing Ø 19 mm
- Drive A/F 8

Designation	Profile height mm	Panel thickness mm	Sleeve D Ø mm	Screw d Ø mm	Screw length L mm	Item No.	Pack
DSH5-Steel	17-20	max. 3	10	5,5	50	4005674 70270 6 00DSH5B197-0550502-1	100



Pre-drilling of the profile with REISSER step drill (Item No. 00A423S010-512040L-2)



Ø 12 mm

Technical information:

- For panels with more than 2 mm material thickness we recommend:
- steel substructure: RP-K-6,3 x 85 E16 + appropriate saddle washef
- Please pay attention to the regulations of the manufacturers







REISSER FixFlex Stainless steel A2/EPDM sealing sleeve FixFlex

Streching fastener for plate joints of different materials

- EPDM sealing sleeve with screw stainless steel A2 and sealing washer
- Quick, easy assembly completely from the top
- 50% time saving
- For flexible butt joint of plastic profiles with metal profiles
- For sealing drill holes
- Permanently tight
- E.g. fastening of translucent sheets onto roof and wall

Designation	Sleeve Ø d mm	Sleeve length L mm	Screw Ø mm	Washer Ø mm	Pre- drilling Ø mm	Clamping range mm	EAN Item No.	Pack
ΓίνΓΙον	9,5	16	M5	15	10	0,4 - 5,0	4005674 68803 1 00FLEXV038-1000169-1	50
FixFlex	9,5	22	M5	15	10	5,0 - 16,0	4005674 69070 6 00FLEXV038-1000229-1	50

Application:



1.
Pre-drilling of the plates
with step drill* up to
Ø 10 mm, 800 - 1000 rpm



Insert the FixFlex into the drill hole and then screwing in with little pressure



3. When the washer and the screw are lying on top of each other increase the pressure to prevent a turn around.



Tighten till the sealing sleeve is lightly compressed



*Pre-drilling of the profiles with step drill (Item No. 00A423S010-410040L-2).

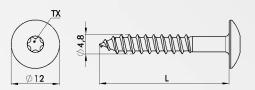


Ø 10 mm









- Facade panel screw Ø 4.8 mm
- Truss head Ø 12 mm, TX 20
- Head painted in RAL
- Including bit
- Wood and steel substructure

Designation	Ø d x L mm	RAL colour	EAN Item No,	Pack
	4,8 x 25	unpainted	4005674 51691 4 000812V038-04802502-1	100
	4,8 x 25	9010 pure white	4005674 51695 2 000812V038-04802502-38	100
	4,8 x 25	7016 anthracite grey	4005674 51692 1 000812V038-04802502-17	100
	4,8 x 25	8014 sepia brown	4005674 51693 8 000812V038-04802502-28	100
FPS	4,8 x 25	9005 deep black	4005674 51694 5 000812V038-04802502-36	100
LL 2	4,8 x 38	unpainted	4005674 51711 9 000812V038-04803802-1	100
	4,8 x 38	9010 pure white	4005674 51559 7 000812V038-04803802-38	100
	4,8 x 38	7016 anthracite grey	4005674 51556 6 000812V038-04803802-17	100
	4,8 x 38	8014 sepia brown	4005674 51557 3 000812V038-04803802-28	100
	4,8 x 38	9005 deep black	4005674 51712 6 000812V038-04803802-36	100

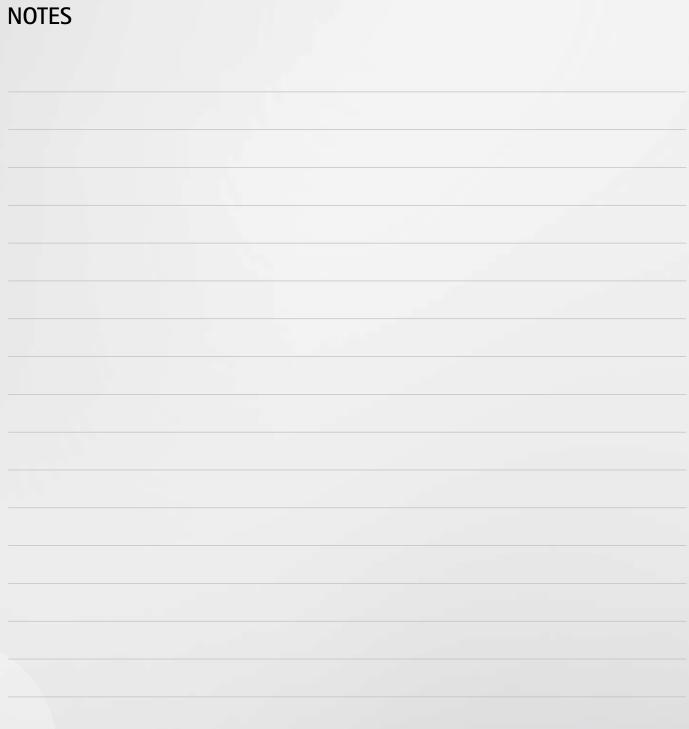
Please note:

Other colours on request.

Please pay attention to the specifications of the facing tile manufacturer for the use and the calculation of the fastening elements.



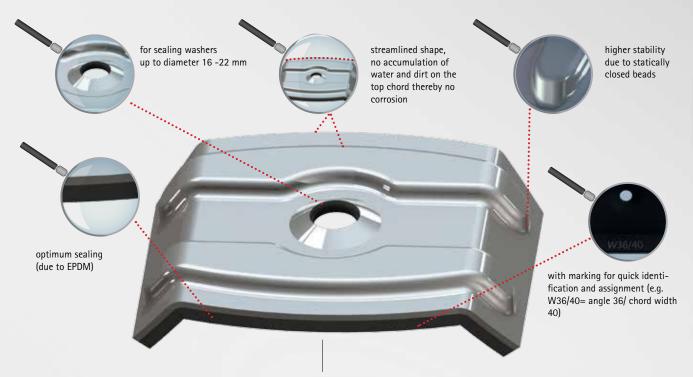






The new REISSER saddle washers

more stable // improved protection for your roof // optimum fit



For trapezoidal and corrugated profiles





The way to find the right saddle washer quick and easy? Ask for the REISSER saddle washer stencil!





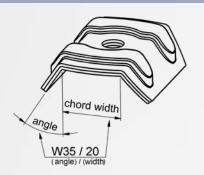








REISSER saddle washer for trapezoidal profile aluminium/EPDM



- Aluminium 1 mm with EPDM sealing 2 mm
- Hole diameter 7,3 mm, saddle washer length 45 mm
- For top chord installation of steel, aluminium and plastic roofings, also PMMA acrylic glass
- Stabilizes the profile board
- Avoids pressing in of the top chord
- No accumulation of dirt due to curvature

Designation	Angle in °	Chord width mm	EAN Item No. self-coloured	Pack
W15/20	15	20	4005674 65265 0 00745WA011-015020P2-1	100
W35/20	35	20	4005674 65267 4 00745WA011-035020P2-1	100
W30/23	30	23	4005674 65269 8 00745WA011-030023P2-1	100
W15/25	15	25	4005674 65271 1 00745WA011-015025P2-1	100
W27/25	27	25	4005674 65273 5 00745WA011-027025P2-1	100
W40/26	40	26	4005674 65275 9 00745WA011-040026P2-1	100
W35/28	35	28	4005674 65276 6 00745WA011-035028P2-1	100
W24/30	24	30	4005674 65277 3 00745WA011-024030P2-1	100

Please note:

Also available: lacquered in RAL.

For screws with \emptyset 10 mm and \emptyset 12 mm available on request.

The way to find the right saddle washer quick and easy? Ask for the REISSER saddle washer stencil!

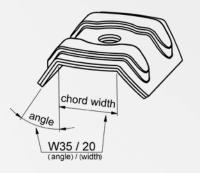








REISSER saddle washer for trapezoidal profile aluminium/EPDM



- Aluminium 1 mm with EPDM sealing 2 mm
- Hole diameter 7,3 mm, saddle washer length 45 mm
- For top chord installation of steel, aluminium and plastic roofings, also PMMA acrylic glass
- Stabilizes the profile board
- Avoids pressing in of the top chord
- No accumulation of dirt due to curvature

Designation	Angle in °	Chord width mm	EAN Item No. self-coloured	Pack
W38/30	38	30	4005674 65278 0 00745WA011-038030P2-1	100
W48/33	48	33	4005674 66786 9 00745WA011-048033P2-1	100
W23/34	23	34	4005674 65279 7 00745WA011-023034P2-1	100
W33/37	33	37	4005674 65280 3 00745WA011-033037P2-1	100
W17/40	17	40	4005674 65281 0 00745WA011-017040P2-1	100
W36/40	36	40	4005674 65282 7 00745WA011-036040P2-1	100
W32/54	32	54	4005674 65283 4 00745WA011-032054P2-1	100
W22/57	22	57	4005674 65284 1 00745WA011-022057P2-1	100

Please note:

Also available: lacquered in RAL.

For screws with \emptyset 10 mm and \emptyset 12 mm available on request.



The way to find the right saddle washer quick and easy? Ask for the REISSER saddle washer stencil!

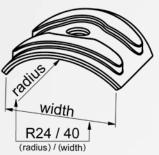








REISSER saddle washer for corrugated profile aluminium/EPDM



- Aluminium 1 mm with EPDM sealing 2 mm
- Hole diameter 7,3 mm, saddle washer length 45 mm
- For top chord installation of steel, aluminium and plastic roofings, also PMMA acrylic glass
- Stabilizes the profile board
- Avoids pressing in of the top chord
- No accumulation of dirt due to curvature

Designation	Radius mm	Width mm	EAN Item No. self-coloured	Pack
R24/40	24	40	4005674 65291 9 00745RA011-024040P2-1	100
R32/51	32	51	4005674 65293 3 00745RA011-032051P2-1	100
R48/57	48	57	4005674 65295 7 00745RA011-048057P2-1	100

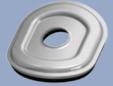
Please note:

Also available: lacquered in RAL.

For screws with \emptyset 10 mm and \emptyset 12 mm available on request.







REISSER mini saddle washer

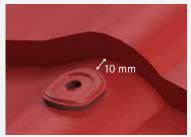
aluminium/EPDM



- Aluminium 1 mm with EPDM sealing 2 mm
- Hole diameter 6,5 mm, saddle washer length 32 mm
- For top chord installation
- Use as a drilling template and simplifies positioning
- Stabilizes the profile, avoids pressing in of the top chord
- No accumulation of dirt due to curvature

Designation	Radius mm	Width mm	EAN Item No. self-coloured	Pack
M40/28	40	28	4005674 69551 0 00745MA011-040028P2-1	100

Perfect fastening with mini saddle washer



1. Putting on as drilling template



3. Tighten till the sealing is lightly compressed



2. Screwing in through the hole in the mini saddle washer



4. Perfect and stable fit

Please note:

Also available: lacquered in RAL.



Manufacturer	Profile designation	saddle washer
Α		
	alubel 28	W36/40
A I I I	alubel 21	W40/26
Alubel	alubel 40	W36/40
	alubel 44	W24/30
	Alutech Dach	W27/25
	Aluform 20/125	W33/37
	Aluform 29/124	W35/20
	Aluform 30/153	W30/23
	Aluform 40/167	W23/34
	Aluform 42/250	W38/30
Aluform	Aluform 45/150	W27/25
Aluloilli	Aluform 45/200	W36/40
	Alutherm DT 900	W27/25
	Alutherm DT 1000	W38/30
	Welle 18/76	R24/40
	Welle 35/137	R32/51
	Welle 55/177	R48/57
	AL 34/207	W36/40
	A 35/207	W48/33
	B 35/207	W17/40
	39/333 T	W30/23
	AL 40/183	W17/40
	A 40/183	W33/37
	AL 42/333 S	W24/30
	44/180	W32/54
	AL 45/150	W27/25
Arcelor	A50/250	W32/54
	85/280	W36/40
	100/275	W36/40
	105/345	W17/40
	106/250	W17/40
	Ondatherm 1001 TS	W30/23
	Ondafibre 3005 T	W27/25
	Agratherm 1001 TS	W27/25
	Welle 18/76	R24/40
	32/207	W48/33

Manufacturer	Profile designation	saddle washer
В		
	20/125	W36/40
	30/262K	W36/40
	35/207	W36/40
	40/183/183 S	W17/40
	50/250	W36/40
	58/315K	W32/54
	70/200	W32/54
Dichor	80/307	W36/40
Bieber	89/305	W36/40
	100/275	W17/40
	106/250	W17/40
	110/333	W17/40
	135/310	W36/40
	150/280	W36/40
	160/250	W17/40
	170/250	W17/40
Brucha	DP	W15/25
D		
	DP 20/35	W33/37
	DP 20/65	W40/26
	DP 20/100	W40/26
Dansk Profiltechnik	DP 35/115	W36/40
	DP Sinus 18/76	R24/40
	DP Sinus 35/143	R32/51
	DP Sinus Variant 35/143	R32/51
	DS 20/115	W35/28
	DS 35/190	W36/40
	DS 35/206	W33/37
DS Staalprofil	DS Sinus 18/75	R24/40
	DS Sinus 35/143	R32/51
	SISCOROOF 4G	W15/20
	SISCOTEC ROOF 4G	W15/20
E		
	Welle 5	R48/57
Eternit	Welle 6	R48/57
	Welle 8	R32/51



Manufacturer	Profile designation	saddle washer
F		
•	EL 22/214	W33/37
	EL 30/220	W36/40
	EL 35/207	W36/40
	EL 39/333/S	W33/37
Feilmeier	EL 40/183	W17/40
	EL 45/333/S	W35/28
	EL 50/250	W32/54
	Welle EL 18/76	R24/40
	Dakprofiel 18-76	R24/40
	Dakprofiel 42-960	R48/57
	Dakprofiel 20-1090	W48/33
Finish Profiles	Dakprofiel 35-1000	W48/33 W33/37
Tillion Tionics	Dakprofiel 40R-915	W17/40
	Dakprofiel 50-1000	W17/40 W32/54
	Dakprofiel 58-945 KD	W32/54 W32/54
	35/207	W32/54 W36/40
	40/183	W17/40
	50/250	W17/40 W32/54
	85/280	W32/54 W36/40
	100/275	_
		W36/40
Fischer	150/280	W36/40
	165/250	W17/40
	Sinus 18 Sinus 27	R24/40
		R32/51
	Sinus 42	R48/57
	DL actions	W36/40
	20/220	W36/40
	W-20/990	W40/26
	W-20/1100	W40/26
Friedrich von Lien	W-45R/900	W17/40
AG Weckman	W-45ER/1000	W38/30
	W-155/840	W17/40
	W-1/1064	R24/40
	W-35/1035	W36/40
Н		141= c 1 : -
Hösch	Thermodach	W36/40
	Nordblech 18/137	W48/33
	Nordblech 19/137	W48/33
HNB Nordbleche	Nordblech 20/125	W36/40
GmbH	Nordblech 35/207	W36/40
	Nordblech 50/250	W32/54
	Nordblech 100/275	W36/40
	Nordblech 18/76	R24/40

Manufacturer	Profile designation	saddle washer
1		
	LG 20	W40/26
Isopan	LG 28	W33/37
ізоран	LG 40	W27/25
	Isocop	W27/25
Italpannelli	Penta	W15/20
J		
	JID 45.333.100	W24/30
	JI 33.250.1000	W30/23
	JI 45.333.1000	W30/23
	JI 35.207.1035	W36/40
	JI 40.183.915	W17/40
	JI 50.250.1000	W32/54
	JI 56.317.945	W33/37
	JI Roof 1000	W27/25
Joriside	JI Ecopaneel 1000	W23/34
	JI 18.76.988	R24/40
	VDB 18.76.988	R24/40
	JI 19.155.1090	W40/26
	VDB 27.111.1000	R24/40
	JI 46.150.900	R32/51
	VDB 30.220.1100	W36/40
	VDB 35.207.1035	W36/40
	VDB 40.183.915	W17/40
K		
Kingspan	KS 1000 RW	W24/30
Killyspall	KS 1000 FF	W27/25
	35.207.1035	W36/40
IVI: C. D.	30.220.1100	W36/40
Klinger & Partner Profilvertrieb GmbH	50.250.1000	W32/54
וווטחוועכונוופט טוווטח	40.183.915	W36/40
	39.333.1000	W27/25



Manufacturer	Profile designation	saddle washer
	KAS-18/76	R24/40
	KAS-42/160	R48/57
	KAS-55/177	R48/57
	KAS-19/105	W48/33
	KAS-19/105 KD	W35/28
	KAS-30/262 KDS	W36/40
	KAS-32/207	W48/33
	KAS-39/183	W33/37
	KAS-45/333 KD	W24/30
	KAS-58/315 KDS	W32/54
	KAS AL- 29/124-A	W35/20
	KAS AL- 42/250-A	W24/30
Klöckner	KAS-D 65-115	W33/37
Klockner	KAS-D 68	W15/20
	KAS-D 80	W36/40
	KAS-D 62-142	W27/25
	KAS AL-20/125 A	W33/37
	KAS-AL 30/153 A	W24/30
	KAS-35/207	W36/40
	KAS AL-40/167 A	W23/34
	KAS-40/183	W17/40
	KAS AL-45/200 A	W36/40
	KAS AL-45/150-A	W27/25
	KAS-50/250	W32/54
	KAS-85/280	W17/40
	KAS-89/305	W17/40
L		
	Isocopre	W35/20
Lattanadil	37/200	W35/20
Lattonedil	Eurocinque	W35/20
	Eurocopre	W35/20

Manufacturer	Profile designation	saddle washer
	35-207	W36/40
	22-214	W36/40
	20-75	W30/23
	45-333 S	W27/25
	40-100	W38/30
Laukien	50-250	W36/40
	18/76	R24/40
	27/111	R32/51
	42/160	R48/57
	55/177	R48/57
	LP 20	W35/28
	LP 35	W36/40
Charles	LTP 20	W35/28
Lindab	LP 1100	W40/26
	LVP 20	W35/28
	Sinus 18	R24/40
	LM D-20/138	W40/26
	LM D-35/207	W36/40
Luxmetall	LM D-18/76	R24/40
Luxiliciali	LM40 250 1000	W27/25
	LM19 156 1094	W40/26
	LM 27-111-1000	R32/51
М		
	20-75	W27/25
	20-100	W33/37
	22-214	W36/40
	35-207	W36/40
	35-207 V	W36/40
Maas	40-100	W38/30
iviaas	45-150	W27/25
	45-333 S	W30/23
	50-250	W36/40
	Welle 18-76	R24/40
	Welle 27-111	R32/51
	Welle 55-177	R48/57



Manufacturer	Profile designation	saddle washer
	G4	W15/20
	Hipertec Dach	W15/20
	Cutec	W15/20
Metecno	Monoroof	W15/20
WELECHO	Rocksteel	W15/20
	Zootechnik	W15/20
	Toproof DG	W35/20
	SISC0	W15/20
	SP 20/154	W35/28
	SP 26/143	W36/40
	SP 30/221	W36/40
	SP 35/207	W36/40
	SP 40/183	W17/40
	SP 41/193,5	W36/40
	SP 44/333	W24/30
	SP 44/333S	W38/30
	SP 45/150	W36/40
Montana	SP 59/225	W23/34
iviontana	SP 80/277	W17/40
	SP 105/345	W36/40
	SP 111/310	W17/40
	SP 135/310	W36/40
	SP 153/ 280	W17/40
	SP 160/250	W17/40
	MTD TL	W23/34
	SP 18/76	R24/40
	SP 27/111	R32/51
	SP 42/160	R48/57
M-Profil	KP	W33/37

	M 00/040	
	M 20/210	W36/40
	M 20/220	W36/40
	M 35.1/207	W48/33
	M 35/207	W36/40
	M 40.1/183	W33/37
	M 40/183	W17/40
	M 40/333	W30/23
	M 40KD/333	W30/23
Münker	M 50/250	W32/54
Wuriker	M 85/280	W36/40
	M 100/275	W17/40
	M 135.1/310	W36/40
	M 150/280	W36/40
	M 160/250	W17/40
	M 18/76	R24/40
	M 18.1/76	R24/40
	M 27/111	R24/40
	M 27.1/111	R24/40
0		
	20.125/8	W36/40
	20.136/8	W38/30
	20.156/7	W40/26
	25.268/4	W38/30
	25.280/3	W17/40
	30.153/7	W27/25
	30.200/5	W30/23
	30.207/5	W33/37
	35.207/5	W36/40
0 Metall	35.250/4	W33/37
	39.333/3	W35/28
	40.183/5	W17/40
	40.250/4	W27/25
	45.150/6	W27/25
	45.333/3	W30/23
	50.250/4	W32/54
	Welle 18.76	R24/40
	Welle 27.111	R32/51
	Welle 55.177	R48/57



Manufacturer	Profile designation	saddle washer
Р		
Pflaum	1001TS	W27/25
	Plannja 19	W40/26
	Plannja 20-102	W40/26
	Plannja 35	W36/40
Di .	Sinus 18	R24/40
Plannja	Sinus 51	R48/57
	Plannja 20-75	W30/23
	Plannja 60	W17/40
	Plannja 30	W38/30
	Plannja 45	W36/40
	19/105	W48/33
	20/125	W33/37
	20/154	W35/28
	26/143	W36/40
	30/207	W48/33
	30/220	W36/40
	30 KD	W36/40
	35/207	W36/40
	35.1/207	W48/33
	39/333	W30/23
	40/183	W17/40
	40.1/183	W33/37
	41/193,5	W33/37
Proge	45/150	W36/40
	45/333	W24/30
	45KD-S	W30/23
	50/250	W32/54
	58 KD	W32/54
	59/225	W23/34
	70/200	W32/54
	80/277	W17/40
	85/280	W36/40
	90/305	W36/40
	100/275	W17/40
	105/345	W17/40
	106/250	W17/40
	Welle 18/76	R24/40

Manufacturer	Profile designation	saddle
iriana accarci	Trome designation	washer
	Welle 27/111	R32/51
Proge	Welle 42/160	R48/57
	Welle 55/177	R48/57
R		
Romakowski	Тур D	W15/25
Ruukki	SPC W; SP2C PIR	W36/40
S		
	19/1050	W48/33
	19KD/1050	W40/26
	35R/1035	W36/40
	40R/915	W17/40
	50R/1000	W32/54
	70R/800	W32/54
	85R/1120	W36/40
	89R/915	W36/40
SAB	100R/825	W17/40
SAR	30KD/1050	W36/40
	45KD/1000	W24/30
	45KD/1000-S	W30/23
	58KD/945-S	W32/54
	D 65-75-95-115-135	W33/37
	D135.1000 TL	W33/37
	18/988	R24/40
	27/1000	R24/40
	42/960	R48/57
	PS 35/207	W36/40
	PS 40/183	W17/40
Cologittor	PS 50/250	W32/54
Salzgitter	PS 85/280	W36/40
	PS 100/275	W17/40
	SIP D	W36/40
S.A.M.	ST 35-207	W36/40



Manufacturer	Profile designation	saddle washer
	S 18/76	R24/40
	S 35/207	W48/33
	40/183	W17/40
	40/333	W27/25
Siegmetall	50/250	W32/54
	S 75/305	W36/40
	85/280	W36/40
	100/275	W17/40
	Siegfalz Premium	W15/20
T		
	Hoesch Thermodach	W36/40
	T 35.1	W36/40
	T 40.1	W17/40
	T 40.1 S	W17/40
ThyssenKrupp Steel	T 50.1	W32/54
Europe AG	T 85.1	W36/40
	T 100.1	W17/40
	T 106.1	W17/40
	WP 18/76	R24/40
	WP 42/160	R48/57
Trimo	SNV	W27/25
W		
	WU 20/125	W36/40
	WU 30/200	W35/20
Wurzer	WU 30D/207	W48/33
Profiliertechnik GmbH	WU 30W/207	W48/33
GIIIOIT	WU 35/207	W36/40
	WU 40/183	W17/40
	WU 45/333	W27/25

Manufacturer	Profile designation	saddle washer							
	WU 50/250								
	WU 80/307	W36/40							
	WU 100/275	W17/40							
	WU 18/76	R24/40							
	WU 27/111	R32/51							
Wurzer	WU 55/177	R48/57							
Profiliertechnik GmbH	plusdach DL	W36/40							
Gillott	Ter	W15/20							
	Welle 42-160	R48/57							
	30.200/5	W35/20							
	39.333/3	W38/30							
	39/333	W40/26							
	41/193,5	W17/40							





SOLAR FASTENER

For secure fastening of solar and photovoltaic systems

The REISSER stainless steel A2 solar fastener is very easy to install and is the prerequisite for exact adjustment of solar systems. With its technical approval Z-14.4-555 it guarantees tightness, proved load rating and maximum safety in installation.

The solar fastener is anchored in the substructure and transports all the incidental traction and compression forces in it. This prevents that the weight of the solar system as well as wind and snow loads being transferred to the thin sheeting. Therefore it avoids damage to the roof surface. The tightness of the connection is optimised by a top chord connection with saddle washer and sealing washer or umbrella sealing. Original facade fastening with solar fasteners guarantees that the roof sealing is maintained.

The REISSER solar fastener is available for wood (type A) or steel (type BZ) substructure with a self-tapping thread. The basis is the FABA type A sealing screw for wood substructure or type BZ for steel substructures. It is connected with a setscrew by a high quality welding process. A positive-locking connection is achieved together with hexagon nut, locking nut, washers, sealing washer and umbrella sealing or saddle washer.

The proved REISSER solar fastener should be used for all roofs with trapezoidal profiles, sandwich elements and corrugated fibre board coverings. REISSER-Schraubentechnik GmbH is the specialist for maximum safety for the installation of your solar systems.

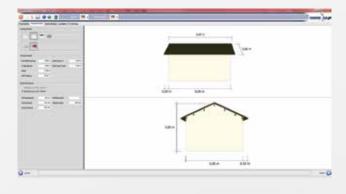


REISSER

solar calculation software
The REISSER solar calculation software computes the
number of solar fasteners



necessary for your building project. You will find the software on www.reisser-screws.com.





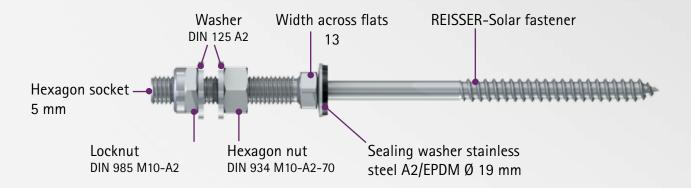




SOLAR FASTENER

Solar fastener for wood substructure

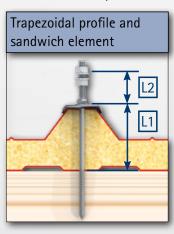
TYPE A



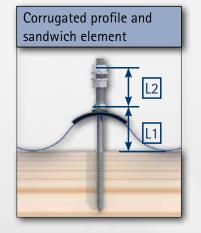
Accessories depending on application



Saddle washer for trapezoidal profile (see chapter 4 "Saddle washers")

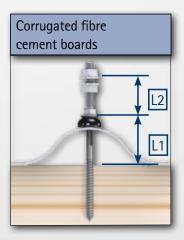


Saddle washer for corrugated profile (see chapter 4 "Saddle washers")





Umbrella sealing (see chapter 6 "Accessories")









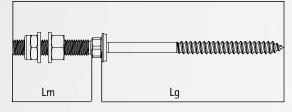






Solar fastener type A Stainless steel A2 RSB-A-8,4/M10 x Lm/Lg

Total length L



- With captive sealing washer stainless steel A2/EPDM Ø 19 mm
- With special slide coating
- With technical approval
- For fastening photovoltaic and solar installations
- For wood substructures
- Length of partial thread=70 mm

Designation	Ø mm	Lg/Lm mm	Total length L mm	Clamping area L1 mm	EAN Item No.	Pack
	8,4/M10 x 80/50	136	0 - 40	4005674 61109 1 003876V020-1000805-1	20	
8,4/M10 x 100/50 156 20 - 60 003876V020-10010	4005674 61113 8 003876V020-1001005-1	20				
RSB-A	8,4/M10 x	130/50	186	55 - 90	4005674 61117 6 003876V020-1001305-1	20
N3D-A	8,4/M10 x	150/50	206	75 - 110	4005674 61121 3 003876V020-1001505-1	20
	8,4/M10 x	180/50	236	105 - 140	4005674 61125 1 003876V020-1001805-1	20
	8,4/M10 x	200/50	256	125 - 160	4005674 61129 9 003876V020-1002005-1	20

Technical information:

- For wood substructure we recommend 6,0 mm (0,7 x D^*) for pre-drilling (D^* = nominal screw diameter). You will find the matching drill on page 115.
- Recommended screw length: trapezoidal panel height/height of sandwich element + screw-in depth
- Minimum screw-in depth 34 mm (min. 4 x D* 12 x D*)
- Doubeling of shear force with additional aluminium angle bracket for fastening onto sandwich elements (see p. 101)
- Minimum edge distance 3 x D*

Please note:

You will find the matching saddle washer or umbrella sealing for your profile in chapter 4 "Saddle washers" and chapter 6 "Accessories"

Different dimensions on request.

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.4-555



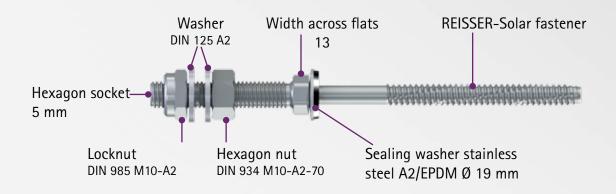




SOLAR FASTENER

Solar fastener for steel substructure

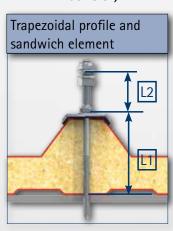
TYPE BZ



Accessories depending on application

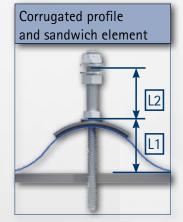


Saddle washer for trapezoidal profile (see chapter 4 "Saddle washers")



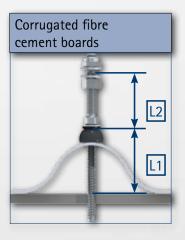


Saddle washer for corrugated profile (see chapter 4 "Saddle washers")





Umbrella sealing (see chapter 6 "Accessories")















Solar fastener type BZ Stainless steel A2 RSB-Z-8,0/M10 x Lm/Lg

- total length L
- With captive sealing washer stainless steel A2/EPDM Ø 19 mm
- With special slide coating
- With technical approval
- For fastening photovoltaic and solar installations
- For steel substructures
- Length of partial thread=65 mm

Designation	Ø mm	Lg/Lm mm	Total length L mm	Clamping area L1 mm	EAN Item No.	Pack
	8,0/M10 x	80/50	136	15 - 60	4005674 61075 9 003874V020-1000805-1	20
8,0/M10 x 100/50 15	156	35 - 80	4005674 61079 7 003874V020-1001005-1	20		
RSB-Z	8,0/M10 x	125/50	181	60 - 105	4005674 61083 4 003874V020-1001255-1	20
N3D-Z	8,0/M10 x	150/50	206	85 - 130	4005674 61087 2 003874V020-1001505-1	20
	8,0/M10 x	160/50	216	95 - 140	4005674 61091 9 003874V020-1001605-1	20
	8,0/M10 x	200/50	256	135 - 180	4005674 61095 7 003874V020-1002005-1	20

Technical information:

Pre-drilling table for substructure

Component II thickness mm (steel substructure)	1,5-5,0	6,0	8,0	≥10,0
Pre-drilling- Ø mm	6,8	7,0	7,2	7,4

- You will find the matching drill in chapter "Tools"
- Recommended screw length (Lg): trapezoidal profile height/sandwich thickness + 20 mm
- Doubeling of shear force with additional aluminium angle bracket for fastening onto sandwich elements

Please note:

You will find the matching saddle washer or umbrella sealing for your profile in chapter 4 "Saddle washers" and chapter 6 "Accessories"

Different dimensions on request.

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.4-555

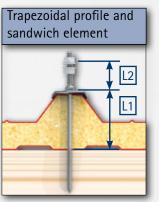


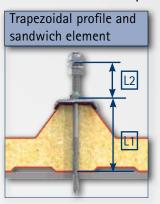


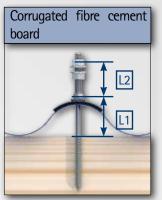


Fastening with RSB-A-8,4/M10 x L and RSB-Z-8,0/M10 x L

Table to determine the number of solar fasteners per sqm







Roof pitch	Wind	Wind zone 2 building height $> 10 \text{ m} < 18 \text{ m}$ resp. wind zone $3 < 10 \text{ m}$ // q ref = 0,80 kN/sqm										
in °		Snow load kN/sqm										
	0,65	0,85	1	1,1	1,25	1,5	1,75	2	2,25	2,5	2,75	3
10	0,89	0,89	0,89	0,89	0,89	0,89	0,95	1,06	1,17	1,28	1,40	1,51
20	0,89	0,89	0,89	0,89	0,94	1,05	1,15	1,26	1,36	1,47	1,61	1,76
30	0,89	0,89	0,89	0,89	0,99	1,16	1,34	1,52	1,71	1,90	2,10	2,31
40	0,90	0,90	0,90	0,90	0,90	0,98	1,11	1,25	1,39	1,53	1,67	1,82
50	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,91	0,95	1,03	1,10
60	0,92	0,92	0,92	0,92	0,92	0,92	0,92	0,92	0,92	0,92	0,92	0,92

Roof pitch	Wind z	Wind zone 2 building height $>$ 18 m $<$ 25 m resp. wind zone 3 $>$ 10 m $<$ 25 $/\!\!/$ q ref = 1,10 kN/sqm										
in °		Snow load kN/sqm										
	0,65	0,85	1	1,1	1,25	1,5	1,75	2	2,25	2,5	2,75	3
10	1,17	1,17	1,17	1,17	1,17	1,17	1,17	1,17	1,20	1,31	1,42	1,54
20	1,17	1,17	1,17	1,17	1,17	1,17	1,25	1,36	1,46	1,57	1,68	1,81
30	1,18	1,18	1,18	1,18	1,18	1,20	1,38	1,57	1,43	1,96	2,16	2,36
40	1,18	1,18	1,18	1,18	1,18	1,18	1,18	1,29	1,43	1,58	1,72	1,87
50	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19	1,19
60	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21	1,21

Please note:

There are only slight deviations between wood and steel substructure, therefore the table above is valid for both substructures.

The following values have been taken:

- Screw-in depth in wood substructure = 70 mm
- Screw-in depth in steel substructure = ca 20 mm
- Roofing profile steel thickness = 0,63 mm

- Weight for modul and rails per sqm = 15 kg
- Profile height L1 = 60 mm
- Mounting dimension over L2 = 30 mm

Compression and tensile forces were transferred through the solar fastener into the substructure. Permissible load is determined by technical approval Z-14.4-555.

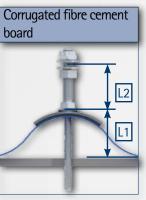


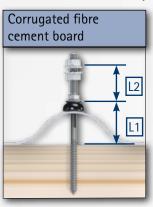


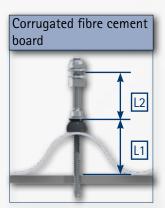


Fastening with RSB-A-8,4/M10 x L and RSB-Z-8,0/M10 x L

Table to determine the number of solar fasteners per sqm







Roof pitch		Wind zone 1 building height < 10 m // q ref = 0,50 kN/sqm											
in °		Snow load kN/sqm											
	0,65	0,85	1	1,1	1,25	1,5	1,75	2	2,25	2,5	2,75	3	
10	0,49	0,51	0,58	0,62	0,69	0,80	0,91	1,02	1,13	1,24	1,36	1,47	
20	0,55	0,63	0,69	0,74	0,80	0,91	1,01	1,12	1,25	1,39	1,54	1,69	
30	0,55	0,78	0,68	0,84	0,94	1,11	1,28	1,46	1,67	1,83	2,03	2,23	
40	0,51	0,59	0,67	0,72	0,80	0,93	1,06	1,19	1,33	1,47	1,61	1,75	
50	0,52	0,52	0,52	0,52	0,54	0,61	0,68	0,76	0,83	0,9	0,97	1,05	
60	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53	0,53	

Roof pitch	Wind z	Wind zone 1 building height $> 10 \text{ m} < 18 \text{ m}$ resp. wind zone 2 $< 10 \text{ m}$ // q ref = 0,65 kN/sqm										
in °		Snow load kN/sqm										
	0,65	0,85	1	1,1	1,25	1,5	1,75	2	2,25	2,5	2,75	3
10	0,66	0,66	0,66	0,66	0,71	0,82	0,93	1,04	1,15	1,26	1,37	1,48
20	0,66	0,69	0,75	0,80	0,86	0,97	1,07	1,18	1,28	1,42	1,57	1,72
30	0,67	0,70	0,79	0,86	0,96	1,13	1,31	1,49	1,67	1,86	2,06	2,26
40	0,68	0,68	0,69	0,74	0,82	0,95	1,08	1,22	1,36	1,49	1,64	1,78
50	0,69	0,69	0,69	0,69	0,69	0,69	0,70	0,78	0,85	0,92	1,00	1,07
60	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70	0,70

Please note:

There are only slight deviations between wood and steel substructure, therefore the table above is valid for both substructures.

The following values have been taken:

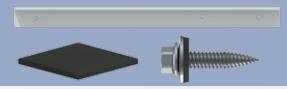
- Screw-in depth in wood substructure = 70 mm
- Screw-in depth in steel substructure = ca 20 mm
- Roofing profile steel thickness = 0,63 mm
- Weight for modul and rails per sqm = 15 kg
- Profile height L1 = 60 mm
- Mounting dimension over L2 = 30 mm

Compression and tensile forces were transferred through the solar fastener into the substructure. Permissible load is determined by technical approval Z-14.4-555.



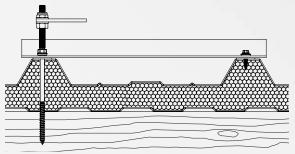






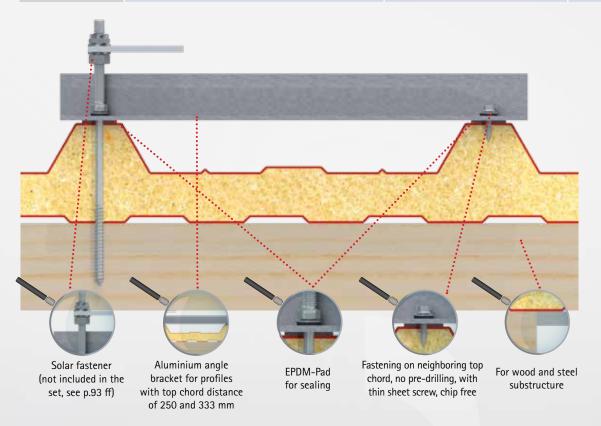
RSB-angle bracket set Aluminium/EPDM/bimetal RSBW

For sandwich elements: Doubeling of shear force with solar fastener type A and BZ together with aluminium angle bracket $30 \times 30 \times 3$ mm



- For profiles with top chord distance of 250 and 333 mm
- Pre-drilled aluminium angle bracket, drill hole distance 250 and 333 mm
- More than doubeling of shear force
- Including 2x self-adhesive EPDM-Pad
- Fastening on neighbouring top chord with RP-T2-6,0 x 25 E16
- With matching solar fastener for wood and steel substructure (not included in the set, has to be ordered separatley see p.93 ff)

Designation	Set including	EAN Item No,	Pack
RSBW	Angle bracket 30 x 30 x 3 mm, total length 400 mm EPDM-Pad 30 x 30 x 2mm RP-T2-6,0 x 25 E166	4005674 63645 2 00RSBWA011-0010013-1	10



As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.4-555

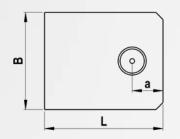








Multi-solar sheet Aluminium MSB L x B for REISSER solar fastener

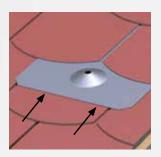


- Suitable for the most shingle roofs
- Technical approval with REISSER solar fastener
- Rainwater proofed
- Sheet: 1 mm aluminium
- Quick, easy handling

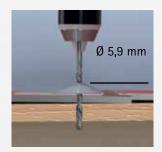
Designation	L x B mm	hole distance a mm	hole Ø mm	EAN Item No.	VP
MSB	580 x 250	120	8,5	4005674 64982 7 003878A011-5802501-1	lose
	380 x 280	120	8,5	4005674 64980 3 003878A011-3802801-1	lose
	246 x 205	65	8,5	4005674 64978 0 003878A011-2462051-1	lose

For slate and artificial slate or on sheet metal shingle and bitumen shingle roofs.

Application:



Insert the MSB Multisolar sheet directly above the rafters between the individual layers of shingles.



An initial pilot hole is drilled in the rafters with high profile drill Ø 5,9 mm through the elevated hole of Multisolar sheet. Total screwin depth.



Screw in the REISSER solar fastener with sealing washer through the umbrella sealing into the substructure.



The two sealing elements muste be in close contact to one other but do no cut into eatch other.

Please note:

Delivery times on request. Also available laquered in RAL.

Technical approval Z-14.4-555 with REISSER solar fastener RSB







Wafer-head screw Stainless steel A2 TKS-8,0 x L



- With European technical approval
- With shank cutter, to reduce the bolting up torque
- Anti-friction coated
- Wood substructure

Designation	Ø d x L mm	Ø D mm	Drive	Shank cutter	b mm	EAN Item No.	Pack
TKS	8 x 80	20	TX 40	-	75	4005674 57005 3 009292V238-0800802-1	100
	8 x 100	20	TX 40	×	80	4005674 55693 4 009292V238-0801002-1	100
	8 x 120	20	TX 40	x	80	4005674 55695 8 009292V238-0801202-1	100

Further dimensions on request.

With European technical approval ETA-11/0106, appendix 5.10









Accessories for Roof+Wall+Solar screws

Other products are required for secure fastening of corrugated profiles, trapezoidal profiles and sandwich elements in addition to the high quality screws:

Rivets

REISSER-Schraubentechnik offers special rivets with technical approval for facade and roof construction. These are adapted to the requirements in lightweight metal construction and ensure safe and easy installation.

Sealings and sealing washers

We have different sealings and sealing washers made of the very efficient EPDM sealing material in our portfolio. They provide optimal tightness.

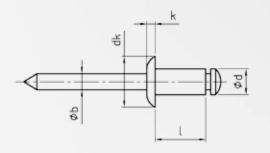
This assortment rounds off the REISSER programme for lightweight metal construction and enables you to cover all your requirements completely with us.

We will gladly advise you.





POP blind rivet Stainless steel A2/aluminium POP-4,8



- Blind rivet sleeve aluminium AlMg 3,5
- Captive rivet pin head
- Rivet pin Ø 2,6 mm stainless steel A2

Designation	Clamping length mm	Sleeve I mm	dk / k mm	EAN Item No.	Pack
POP-4,8	0,5 - 3,2	7,5	9,5 / 1,6	4005674 49507 3 000232A011-0480076-1	500
	3,2 - 4,8	9	9,5 / 1,6	4005674 49508 0 000232A011-0480096-1	500
	4,8 - 6,4	11	9,5 / 1,6	4005674 49509 7 000232A011-0480116-1	500
	6,4 - 7,9	12,7	9,5 / 1,6	4005674 49522 6 000232A011-0480126-1	500
	7,9 - 9,5	14,7	9,5 / 1,6	4005674 49523 3 000232A011-0480146-1	500
	9,5 – 11,1	16,5	9,5 / 1,6	4005674 49524 0 000232A011-0480166-1	500
	11,1 - 13,5	19	9,5 / 1,6	4005674 49525 7 000232A011-0480196-1	500

Technical information:

- Nominal dimension Ø 4,8 mm
- Drill hole Ø 4,9 mm
- Normal breaking force: shear 2020 N, tension 2800 N

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 2.7

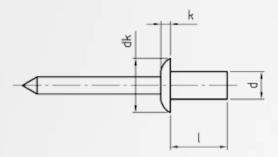








Cup blind rivet Stainless steel A2/aluminium Cup-4,8



- Truss head, cup-shaped rivet shank
- Blind rivet sleeve aluminium AIMg 5
- Rivet pin Ø 2,6 mm stainless steel A2
- Air tight and splash-proofed connection
- Captive rivet pin head

	Claussius Iauath				
Designation	Clamping length mm	Sleeve I mm	dk / k mm	EAN Item No.	Pack
Cup-4,8	0,5 - 3,2	8,3	9,5 / 1,7	4005674 49486 1 000231A011-0480086-1	500
	3,2 - 4,8	10	9,5 / 1,7	4005674 49487 8 000231A011-0480106-1	500
	4,8 - 6,4	11,5	9,5 / 1,7	4005674 49488 5 000231A011-0480116-1	500
	6,4 - 7,9	13	9,5 / 1,7	4005674 49489 2 000231A011-0480136-1	500
	7,9 – 9,5	14,5	9,5 / 1,7	4005674 49490 8 000231A011-0480146-1	500
	9,5 – 12,7	18	9,5 / 1,7	4005674 49497 7 000231A011-0480186-1	500
	12,7 - 15,9	22	9,5 / 1,7	4005674 49498 4 000231A011-0480226-1	500

Technical information:

- Nominal dimension Ø 4,8 mm
- Drill hole Ø 4,9 mm
- Normal breaking force: shear 2260N, tension 3110 N

As a matter of principle, please pay attention to the data as specified in the technical approval Z-14.1-4, appendix 2.8

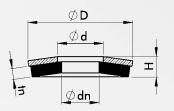






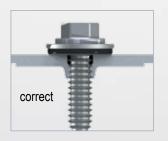


Sealing washer Stainless steel A2/EPDM E12 - E22



- Stainless steel A2 washer 1 mm
- EPDM sealing

Designation	Ø D mm	Ø d/dn mm	EPDM thickness tn mm	Height H mm	EAN Item No.	Pack
E12-5-	12	5,1 / 3,3	2	3,5	4005674 56433 5 000330V011-0500121-1	loose
E14-5-	14	5,1 / 3,3	2	3,5	4005674 19727 4 000330V011-0500141-1	loose
E14-6-	14	5,8 / 4,0	2	3,7	4005674 48595 1 000330V011-0600141-1	loose
E16-5-	16	5,1 / 3,3	2	3,7	4005674 49613 1 000330V011-0500161-1	loose
E16-6-	16	5,8 / 4,0	2	3,7	4005674 49625 4 000330V011-0600161-1	loose
E16-6,8-	16	6,8 / 5,1	2	3,7	4005674 19785 4 000330V011-0680161-1	loose
E19-6,8-	19	6,8 / 5,1	2	3,7	4005674 19787 8 000330V011-0680191-1	loose
E19-8,3-	19	8,3 / 6,8	3	4,7	4005674 50395 2 000330V011-0830191-1	loose
E22-5,8-	22	5,8 / 4,0	2	3,7	4005674 49808 1 000330V011-0600221-1	loose
E22-6,8-	22	6,8 / 5,1	3	5,1	4005674 19789 2 000330V011-0680221-1	loose







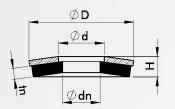








Sealing washer Steel/EPDM S16



- Washer steel coated 1 mm
- EPDM sealing

Designation	Ø D mm	Ø d/dn mm	EPDM thickness tn mm	Height H mm	EAN Item No.	Pack
S16-6,8	16	6,8 / 5,1	2	3,5	4005674 41258 2 000330S021-0680161-1	loose

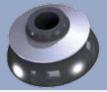




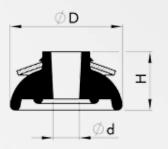








Bell sealing Stainless steel A2/EPDM GLD



- Washer stainless steel A2 1 mm
- EPDM sealing

Designation	Ø D mm	Ø d mm	EPDM thickness mm	EAN Item No.	Pack
GLD	25	5,5	13	4005674 52923 5 000228P011-0640241-2	lose
GLD	25	7,8	13	4005674 53666 0 000228P011-0800241-2	lose



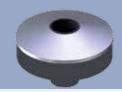




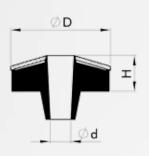








Mushroom sealing Stainless steel A2/EPDM PLD



- Washer stainless steel A2 1 mm
- EPDM sealing

Designation	Ø D mm	Screw Ø d mm	EPDM thickness mm	Height H mm	EAN Item No.	Pack
PLD	25	6,3-6,5	9	7	4005674 41609 2 000229P011-0640251-2 4005674 41630 6 000230V011-0690251-1	lose



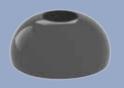




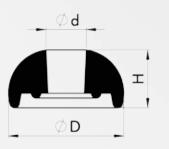








Umbrella sealing EPDM SD



- UV resistant with long lifetime
- For sealing screw connections
- E.g. for plastic profiles and fibre-cement roofings

Designation	Ø D mm	Screw Ø d mm	Height H mm	EAN Item No.	Pack
	19	4,5 - 5,5	9	4005674 64721 2 000227P011-0460191-3	lose
SD	24	6,0 - 6,5	12	4005674 64759 5 000227P011-0650241-3	lose
	24	8,0 - 8,4	12	4005674 50520 8 000227P011-0840245-2	20

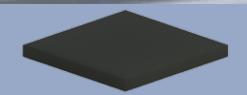




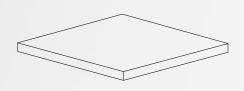








EPDM-Pad EPDM PAD



- Self-adhesive EPDM-Pad 30 x 30 x 2 mm
- For sealing between sheet metal and profile
- With adhesive layer as assembly aid

Designation	In sheets of 21 pcs. L x B mm	EPDM-Pad L x B mm	EPDM thickness mm	EPDM colour	EAN Item No.
PAD	210 x 90	30 x 30	2	schwarz	4005674 63642 1 00PAD1P011-302030D-1



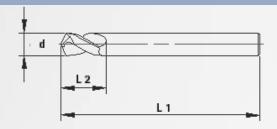
Drills, box nuts and bits

Tools

We provide you with the optimum tools for facade installation to make it easy for you to use the connecting elements. This enables you to supply the building site with the required tools, ensuring a high degree of processing safety.



High profile drill, HSS HPB



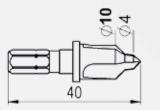
- With 118° tip angle
- Long service life
- For making tap hole drillings for facade screws

Designation	Ødinmm	L1 mm	L2 mm	EAN Item No.	Pack
	4,5	150	30	4005674 65229 2 00T338S011-045150D-1	5
	5	200	30	4005674 65231 5 00T338S011-050200D-1	5
	5,3	200	30	4005674 65233 9 00T338S011-053200D-1	5
	5,5	200	30	4005674 65235 3 00T338S011-055200D-1	5
НРВ	5,7	200	30	4005674 65237 7 00T338S011-057200D-1	5
ПГВ	5,9	200	30	4005674 65238 4 00T338S011-059200D-1	5
	6,8	225	30	4005674 65239 1 00T338S011-068225D-1	5
	7	225	30	4005674 65240 7 00T338S011-070225D-1	5
	7,2	225	30	4005674 65241 4 00T338S011-072225D-1	5
	7,4	225	30	4005674 65242 1 00T338S011-074225D-1	5



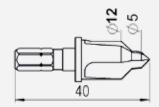


Step drill STB



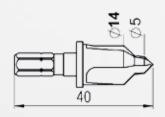
- Pre-drilling for Distance-Set and FixFlex
- Adapter: 1/4" hexagon
- Suitable for plastic profiles
- Suitable for steel profiles with material thickness up to 2 mm
- Drill speed max. 800 1500 rpm
- With integrated depth stop

Designation	L mm	Ø d mm	Material	EAN Item No.	Pack
STB	40	4-10	Steel HSS	4005674 09505 1 00A423S010-410040L-2	1



- Pre-drilling for Distance-Set
- Adapter: 1/4" hexagon
- Suitable for plastic profiles
- Suitable for steel profiles with material thickness up to 2 mm
- Drill speed max. 800 1500 rpm
- With integrated depth stop

Designation	L mm	Ø d mm	Material	EAN Item No.	Pack
STB	40	5-12	Steel HSS	4005674 09531 0 00A423S010-512040L-2	1



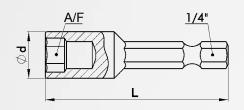
- Pre-drilling for light panels
- Adapter: 1/4" hexagon
- Suitable for plastic profiles
- Suitable for steel profiles with material thickness up to 2 mm
- Drill speed max. 800 1500 rpm
- With integrated depth stop

Designation	L mm	Ø d mm	Material	EAN Art. Nr.	Pack
STB	40	5-14	Werkzeugstahl	4005674 09563 1 00A423S010-514040L-1	1





Box nut SKN



- Box nut with shank for hexagon screws
- Drive: 1/4" hexagon DIN 3126 E 6.3
- Downforce: DIN 475/2 hexagon socket
- With clamping spring

Designation	AF	L mm	Ø d mm	EAN Item No.	Pack
SKN	8	50	14	4005674 68545 0 00K274S011-080050S-1	1
	3/8"	50	16	4005674 49462 5 00K274S011-038050S-1	1
	10	50	16	4005674 49466 3 00K274S011-100050S-1	1



Bits



- Assembly tool for screwsAdapter: 1/4" hexagon

Specification	Designation	L mm	EAN Item No.	Pack
Hexagon socket	A/F 5	25	4005674 53349 2 009273S010-0500251-1	loose
Instar	SIT 20	25	4005674 09924 0 009269S010-0200001-1	loose
Instar	SIT 30	25	4005674 42635 0 009269S010-0300001-1	loose
Instar	SIT 40	25	4005674 38626 5 009269S010-0400001-1	loose



- The present General Terms of Delivery and Payment ("delivery and payment terms")
 apply to all business transactions entered into by REISSER-Schraubentechnik
 GmbH ("REISSER") and its customers ("customer"). These delivery and payment
 terms apply only if the customer is an entrepreneur within the meaning of
 Section 14 of the German Civil Code ("BGB"), a public law entity or a special
 fund under public law. The latest version of these delivery and payment terms
 can be accessed at http://www.reisser-screws.com/kontakt/agb.
- These delivery and payment terms shall apply exclusively to all business transactions. Any conflicting or diverging terms and conditions of the customer are excluded, unless their application was expressly agreed to by REISSER. The present delivery and payment terms shall apply even if REISSER effects delivery to the customer without reservation while being aware of the customer's conflicting, diverging or supplementary terms.
- Separate, individual agreements concluded with the customer shall take precedence over the provisions in these delivery and payment terms. However, these individual agreements require written form and/or REISSER's written confirmation to be effective.
- 4. Any legally relevant representations and notices to be made to REISSER by the customer after conclusion of a contract (incl. deadlines or grace periods, notices of defects, rescission of a contract or price reductions) must be made in writing to be effective.
- References to statutory requirements are for clarification purposes es only. Even without such references, legal regulations and statutory requirements generally apply without limitation unless they are expressly changed or excluded in these delivery and payment terms.

II. Conclusion of a contract

- REISSER's offers are without engagement. This provision also applies if REISSER provides the customer with catalogs, technical documentation or other product information and documents, which are subject to copyrights and other proprietary rights held by REISSER.
- The placing of an order by the customer constitutes a binding offer to conclude a contract. Unless otherwise specified in the order, REISSER may accept the customer's contract offer within 4 weeks after receipt of the order.
- Delivery contracts only enter into force upon written acceptance or shipment of the goods at the latest. Acceptance shall be deemed given in writing if delivered by any means of telecommunication.
- 4. In the event REISSER uses a telecommunication or other electronic media service to conclude a contract, the customer hereby waives the right to appropriate, effective and accessible technical means for the detection and correction of typing errors, to the disclosure of the information specified in Art. 246, Sec. 3 EGBGB (German Introductory Act to the Civil Code) and to a confirmation of receipt of the order. Any electronically transmitted order shall not be deemed received until downloaded and opened by REISSER.

III. Prices and terms of payment

- 1. All prices are quoted ex warehouse.
- 2. Any customs duties, fees, taxes and other public charges are borne by the customer. To the extent permitted by the German Packaging Ordinance (VerpackV), REISSER does not take back any transport or other packaging, which becomes property of the customer. This does not include pallets. Shipments of goods worth more than EUR 1,000 (net) are delivered carriage paid to receiving site and at no extra packing charge within Germany. Shipments of goods worth less than EUR 100 (net) are subject to a minimum quantity surcharge of EUR 25 (net) per shipment.
- 3. Unless agreed otherwise, payment terms are always 20 days net without deductions. Any contractor or service invoices are payable immediately without deductions. Should a contract have a merchandise value of more than EUR 5,000, REISSER may demand a down payment of 30 % of the purchase price. The down payment is payable within 20 calendar days of the invoice date.
- Regardless of the means of payment, payment shall be deemed received on the date REISSER can dispose of the amount due.
- 5. The customer shall be deemed to have defaulted (within the meaning of Section 286 BGB) on the agreed payment once the payment term specified in paragraph 3 expires. In the event of default, the customer will be charged late-payment interest (default interest, Section 288 BGB) on the purchase price at the statutory rate. REISSER reserves the right to make additional claims for losses caused by default. Without prejudice to the above provisions, REISSER

- of the German Commercial Code (HGB) if the customer is a businessperson (Secs. 1 et seq. HGB).
- The customer may only claim a set-off or exercise its right of retention to the extent that its claim is uncontested or has become res judicata. Nothing in these terms shall exclude any opposing rights the customer may have in the event of defective deliveries.
- 7. Should it become apparent after conclusion of the contract that REISSER's claim to the purchase price is jeopardized by the customer's inability to perform (e.g. the customer files for bankruptcy), REISSER may refuse performance and after setting a reasonable grace period rescind the contract in accordance with statutory requirements (Section 321 BGB). Without prejudice to the statutory requirements for the immediate rescission of a contract, REISSER may rescind a contract for the production of unmarketable items (products made to specification) with immediate effect.
- Provided there are already outstanding claims for payment under the ongoing business relationship with the customer, REISSER may refuse further deliveries until the customer has settled all claims in full. The above provision applies mutatis mutandis to any credit lines granted by REISSER.
- If the customer fails to pay the outstanding purchase price even though payment is overdue, this failure will be reported to the credit agencies cooperating with REISSER in accordance with Section 28a of the German Federal Data Protection Act (BDSG).

IV. Retention of title

- REISSER will retain legal ownership of the goods sold until full payment is received for all present and future claims arising out of the corresponding sales contracts and the current business transaction ("secured claims" in the following).
- Any goods subject to retention of title may not be pledged or offered as security
 to third parties by the customer until all secured claims have been paid in full.
 The customer shall notify REISSER immediately of any attempt by third parties
 to seize such goods.
- 3. Any breach of contract on the part of the customer including, without limitation, non-payment of the payable purchase price, shall entitle REISSER to rescind the contract in compliance with statutory requirements and demand the return of the goods sold on the basis of the retention of title and REISSER's rescission of the contract. If the customer fails to pay the payable purchase price, REISSER may only exercise the aforementioned rights after having set a reasonable grace period, unless such a grace period can be dispensed with in accordance with statutory requirements.
- The customer may resell and/or process the goods subject to retention of title
 in the ordinary course of business. In this case, the following supplementary
 provisions apply.
- a) REISSER retains title to the goods supplied even though they have been processed, blended or combined in such a way that they now form part of or are converted into a new product, whereby REISSER shall be considered as manufacturer. In case proprietary rights of third parties continue after such processing, blending or combination, REISSER acquires joint title to the new product in proportion to the invoice values of the processed, blended or combined goods. In all other respects, the same provisions that apply to the goods delivered subject to retention of title shall also apply to the new product.
- b) Any claims against third parties arising out of the resale of REISSER's goods or the newly created product shall be considered assigned to REISSER by the customer by way of security either in full or in proportion to the value of REISSER's joint title as specified in the provisions above. REISSER hereby accepts the assignment. The contractual obligations of the customer contained in paragraph 2 shall also apply with respect to the assigned claims.
- c) The customer remains entitled to collect claims from resales. REISSER shall not collect such claims provided the customer continues to make the agreed payments to REISSER within the agreed terms, no petition for insolvency proceedings has been filed and the customer remains capable of meeting its contractual obligations. Should the customer fail to meet the above requirements, REISSER may demand that the customer disclose the assigned claims and the corresponding debtors as well as all information necessary to collect such claims, deliver all necessary documents and notify the debtors (third parties) concerned of the assignment.
- d) In the event the realizable value of these securities exceeds REISSER's claims by more than 10 %, REISSER shall, at the request of the customer, release securities. REISSER may choose the securities to be released at its own discretion.



V. Delivery periods, delivery dates, acts of God and delays indelivery

- Delivery and/or performance periods and delivery and/or performance dates are agreed individually and/or specified by REISSER upon acceptance of the order.
- All technical questions have to be resolved before commencement of the individually agreed or specified delivery or performance periods. When manufacturing goods or sourcing special items, the delivered quantities may deviate by up to 10 % from the quantities ordered.
- REISSER's observation of the delivery or performance periods is further subject to the customer's due and timely compliance with all contractual obligations. REISSER reserves the right to refuse performance in accordance with Section 320 BGB if the customer fails to render the agreed consideration.
- REISSER shall give the customer prompt written notice in the event of delays to, improper performance or non-performance of deliveries or other obligations on the part of sub-suppliers or subcontractors, despite appropriate congruent hedging transactions, due to circumstances beyond REISSER's reasonable control or in the event of acts of God, i.e. obstacles to performance occurring without REISSER's fault or negligence and lasting more than 14 calendar days. In this case, REISSER may delay performance of the delivery or other obligation by a period of time equal to the duration of the obstacle to performance or rescind the contract in whole or in part on the basis of the unfulfilled part of the contract, provided the above information requirement has been met and REISSER has not assumed the procurement and/or production risk and the obstacle to performance is not temporary. Within the meaning of the above provisions, the following circumstances shall be deemed equivalent to acts of God to the extent these circumstances are beyond REISSER's reasonable control and occur without REISSER's fault or negligence: strike, lockout, government intervention, energy and raw material shortages, delivery bottlenecks, business interruptions (e.g. through fire, water and machine failure) and all other interruptions occurring without REISSER's fault or negligence.
- In the event a binding delivery and/or performance period and/or date has been agreed and is exceeded by more than three months due to the circumstances described in section 4 or the continuation of the contract would pose an unreasonable hardship on the customer in the event of a non-binding performance date, the customer may rescind the contract on the basis of the unfulfilled part of the contract.
- Commencement of default on delivery within the meaning of Secs. 286 et seq. BGB on the part of REISSER is subject to statutory requirements. Notwithstanding the above provision, a reminder by the customer is required for the commencement of default. In the event REISSER defaults on a delivery, the customer may claim a fixed compensation amount for the damage caused by the default. This compensation amounts to 0.5 % of the net purchase price for every full calendar week REISSER is in default, but no more than 5 % of the net purchase price of the delayed goods. Any further claims of the customer to the payment of compensation for damages caused by default are hereby excluded. REISSER reserves the right to establish that the customer did not incur any or significantly less damage than the amount covered by the compensation specified above.
- Nothing in these delivery and payment terms is intended to limit or exclude the rights of the customer set forth in Section IX below and REISSER's legal rights including, without limitation, the exclusion of contractual obligations (e.g. due to impossibility of performance, unreasonable hardship and/or provision of a remedy).

VI. Delivery, transfer of risk, delays in acceptance

- 1. Delivery is effected ex warehouse, which is also the place of performance. Upon request and at the expense of the customer, the goods can be shipped to a different destination (sales shipment, Section 447 BGB). Unless agreed otherwise, REISSER may choose the method of shipping (including, without limitation, carrier, shipping route and packing).
- REISSER may perform partial deliveries, provided this does not have any negative consequences for the customer.
- REISSER reserves the right to deliver consumables in commercially standardized quantities, i.e. short or excess deliveries, provided these deliveries remain within reasonable bounds and do not conflict with the customer's interests.
- The risk of accidental loss of or accidental damage to the goods passes to the customer when the goods are delivered to the customer. In case of a sales shipment, the risk of accidental loss of or accidental damage to the goods as well as the risk of delay already pass to the customer upon delivery of the goods to the forwarder, carrier or other third party authorized to collect the goods. Failure to accept the goods delivery (default of acceptance, Sec. 293 BGB) shall constitute delivery of the goods.
- In case the customer is in default of acceptance, fails to cooperate or is otherwise responsible for delaying REISSER's delivery, REISSER may claim compensation for the damage incurred including any additional expenses (such as storage costs). Should the customer return correctly delivered goods with our consent, a 10 % 121 processing fee, but no less than EUR 25, is deducted from the credit note. Both the shipment and return shipment are effected at the expense and risk of the customer.

VII. Industrial property rights, provision of documents

- The customer shall inform REISSER without delay of any property right claims of third parties pertaining to the products delivered by REISSER. REISSER may, but is not obliged to, defend these rights at its own cost and for its own benefit.
- 2. The customer warrants that any accompanying goods, services and documentation provided by the customer are free of third-party rights. The customer shall indemnify REISSER against any claims of third parties arising out of the infringement of third-party rights, unless the customer cannot be held responsible for this legal defect.
- By providing documents to REISSER, the customer grants REISSER the worldwide, non-exclusive and perpetual right to use these documents for the contractually agreed purposes. In the event of product inquiries based on documents provided by the customer such as drawings and specifications (parts made to order), REISSER may provide these documents to upstream manufacturing companies to complete the inquiry process and perform the contract through sub-suppliers. Should the customer demand changes to the specifications or additional specifications when inquiring about parts made to order without making these changed or additional specifications or drawings available to REISSER, REISSER may change or amend the existing drawings or specifications accordingly.

VIII. Claims for defects of the customer

- Unless otherwise provided below, the rights of the customer in the event of material and/or legal defects are subject to statutory requirements.
- The legal basis for any liability for defects on the part of REISSER shall be the agreement made concerning the quality of the goods. Agreements on the quality of the goods include all product descriptions and specifications which have either been agreed on by REISSER and the customer on the basis of the corresponding standards (e.g. DIN, ISO) or been provided to REISSER by the customer and expressly approved by REISSER.
- Any claim made by the customer based on any defect in the quality or condition of the goods is subject to the customer having fulfilled its legal obligations to examine the goods upon delivery and notify REISSER of any defects (sections 377, 381 HGB). Any defect discovered during examination or later shall be notified to REISSER in writing without delay. Such notice shall be deemed given without delay if delivered or mailed within two weeks. Without prejudice to the above examination and notification obligations, the customer shall inform us in writing of any obvious defects (including wrong and short shipments) by mailing a corresponding notice within two weeks after delivery. In the event the customer fails to duly observe these examination and/or notification obligations, REISSER will not accept liability for any defects which have not been reported.
- Should the goods delivered be defective, REISSER reserves the right to choose an appropriate remedy either by repairing the defect (rectification) or providing goods free of defects (replacement). However, nothing in these delivery and payment terms is intended to limit or exclude REISSER's right to refuse the provision of a remedy in accordance with statutory requirements.
- REISSER may make the provision of the remedy owed to the customer dependent on whether the customer pays the payable purchase price. The customer may, however, withhold a reasonable proportion of the purchase price.
- The customer shall grant REISSER a reasonable grace period and the opportunity to provide the required remedy, including, without limitation, returning the defective goods to REISSER for examination purposes. In the event of replacement, the customer shall return the defective goods to REISSER in accordance with statutory requirements. Any remedy provided by REISSER does not include the removal nor the reinstallation of the defective goods unless the installation was originally carried out by REISSER.
- In the event the goods are defective, all costs incurred during the examination of the goods and the provision of a remedy, including, without limitation, transport, travel, work and material costs (not removal or installation costs), shall be borne by REISSER. Should the claim of the customer turn out to be unjustified, REISSER may demand reimbursement of all costs incurred in connection with the customer's claim.
- In the event REISSER fails to remedy a defect or a reasonable grace period set by the customer expires without any results or can be dispensed with in accordance with statutory requirements, the customer may rescind the contract or reduce the purchase price. The customer has no right to rescind the contract if the defect is immaterial
- Except as expressly provided in Section IX, any claims of the customer for damages and/or for reimbursement of futile expenses are hereby excluded.



IX. Other liability

- Unless otherwise specified in these delivery and payment terms including the following provisions, REISSER shall be liable for all breaches of contractual or non-contractual obligations in accordance with statutory requirements.
- Nothing in these terms shall exclude or limit REISSER's liability for claims for damages based on willfulness or gross negligence howsoever arising. In the event of ordinary negligence, REISSER shall only be liable for
- a) damage resulting from injury to life, body or health.
- b) damage resulting from material breaches of contract (failure to perform contractual duties which are essential for the due performance of the contract and whose performance the other contracting party does and may generally trust in); in this case, REISSER's liability shall be limited to the reasonably foreseeable damage typical for this type of contract.
- 3. Notwithstanding the provisions in paragraph 2, nothing in these terms shall exclude or in any way limit REISSER's liability for fraudulent concealment of defects or for any warranties or representations made by REISSER as to the nature or quality of the goods. The same applies to claims of the customer made on the basis of the German Product Liability Act (ProdHaftG).
- 4. In the event of a breach of contractual obligations not resulting from a defect, the customer may only rescind or terminate the contract if REISSER is responsible for this breach. The right of the customer to terminate the contract at any time (including, but not limited to, the rights granted in sections 651 and 649 BGB) is hereby excluded. In all other respects, the statutory provisions apply.

X. Limitation periods

The statutory limitation periods contained in the German sale of goods laws shall also apply to all contractual and non-contractual claims for damages made by the customer based on defective goods, unless the applicable legal provisions require shorter limitation periods in individual cases (sections 195, 199 BGB). Irrespective of the above provisions, nothing in this agreement is intended to limit or exclude the limitation periods for claims under the German Product Liability Act . In all other respects, any claims made by the customer for damages under Section IX are subject to the applicable statutory limitation periods.

XI. Hydrogen embrittlement

- REISSER and the customer are aware of the numerous possible causes and problems of hydrogen-induced cracking, particularly in galvanized, high-strength and/or case-hardened items with an ultimate tensile strength of 1000 N/mm² or more and core or surface hardnesses of 320 HV or more, as specified in DIN EN ISO 4042. REISSER cannot guarantee the complete elimination of hydrogen embrittlement risks.
- In the event the risk of hydrogen embrittlement in the goods delivered by RE-ISSER needs to be reduced even further in special individual applications due to construction requirements or for safety reasons, the customer and REISSER shall conclude a separate agreement on the process structure and material procurement to limit the above-mentioned risks.
- The DIN EN ISO 4042 standard is an integral part of all agreements concluded between REISSER and the customer.

XII. Applicable law and place of jurisdiction

- These business transactions and all legal relationships between REISSER and
 the customer are subject to the laws of the Federal Republic of Germany under
 exclusion of all international and supranational (contractual) legal systems
 including, without limitation, the UN Convention on Contracts for the International Sale of Goods. The legal requirements and effects of the retention of
 title clause under Section IV are subject to the laws applicable at the location
 of the goods to the extent the laws of the Federal Republic of Germany are
 invalid or ineffective.
- 2. The place of jurisdiction for all disputes arising out of or in connection with the contractual relationship between the parties, including any disputes related to the effective conclusion thereof, shall be the courts of law responsible for 74653 Ingelfingen-Criesbach, Germany, provided the Supplier is a businessperson within the meaning of Sections 1 et seq. of the German Commercial Code (HBG), a public law entity or a special fund under public law. REISSER does, however, reserve the right to also bring its claims against the supplier at the place of performance agreed for deliveries.

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