



Roofing and Cladding

International catalogue 2019

The building envelope **specialist**

We strive for continuous improvement and innovation – always in close collaboration with our customers, colleagues and suppliers. We want to be successful together, improve all the time, see where the technological limits are and drive them forward.

SFS creates value with advanced fastening systems for the building envelope.

As the leading specialist in this application we offer the highest possible expertise focusing on specific customer segments. Our offering embraces application consultation, development, manufacture, distribution and after sales services.

Together with our partners we invent new products and services for our shared success.

Our latest innovations

New sandwich panel fixing family

Higher. Faster. Outstanding. With our new sandwich panel family SFS offers improved technical values, drilling capacity, drilling performance and a wider application range.

SXC5-6,3



SXC16-5,8



MXC-7,5



MDC-7,5



Chipless metal deck fastener

SFS now offers a chipless metal deck fastener for faster assembly and improved technical characteristics.

CDM-4,8





Approvals

ETA – European Technical Assessment

ETA's (European Technical Assessments) represent evidence of the technical suitability of a construction product in line with the Construction Products Directive (CPD) of the EU member states.

An ETA is issued for a construction product which is not covered by a harmonised EU standard for the application concerned. The issue of such an approval allows the product manufacturer to use the CE mark on construction products and free access to all contracting states within the European marketplace.

An overview of European Technical Approvals

ETA-05/0011	Concrete screws for use in concrete
ETA-10/0198	Fastening screws for metal members and sheeting
ETA-11/0191	Self tapping screws nonut®
ETA-13/0183	Fastening screws for sandwich panel
ETA-13/0255	Blind rivets
ETA-15/0784	Screws anchor for use in cracked and uncracked concrete



AbZ – National Technical Approval

National technical approvals are the most common form of national verification of suitability for use for construction products. DIBt started granting them as early as 1968.

The AbZ regulates those properties of the construction product that are of regulatory relevance as well as the fields of use and other aspects like confirmation of conformity.

An overview of National Technical Approvals

Z-14.4-776	Screws for connection of steel structural members in steel and high bay warehouse structures
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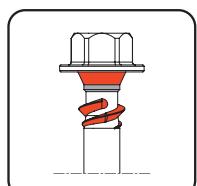


Innovations and features

NEW Premium-Sealing – improved air- and watertightness

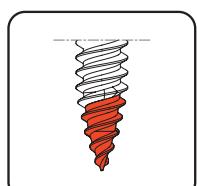
The Premium-Sealing allows valley-fixing on the roof and is characterised by the following attributes:

- Thread-free zone
- Double-support thread with cut-off thread-end (patent pending)
- Cone underneath the head for improved settlement



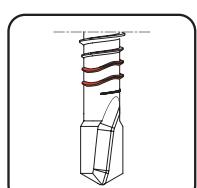
NEW Speed-Point – for rapid, chipless insertion

The Speed-Point allows ergonomic, low-force insertion, while simultaneously providing super-efficient setting and improved technical characteristics.



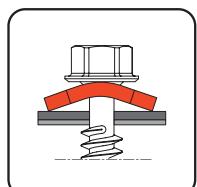
NEW Wave-Thread – improved values, saving customers money

This innovative SFS solution increases pull-out values, meaning that the number of fastening points and/or the thickness of the substructure can be reduced; saving tons of steel.



Thick to Thin – high application area

Products featuring "Thick to Thin" offer an extremely variable clamping range coupled with 100% setting security. This all-rounder meets customer needs head-on when it comes to non-seal-tight connections between thick components and thin substructures.



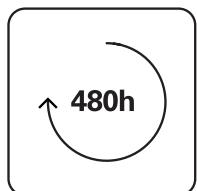
Safe setting – resistant to unwinding and vibration

The cut-off thread-end and defined free-spin zone join forces to offer easy-to-use, highly secured fasteners – safe against over-torquing. The result is a vibration-resistant connection that will not unwind.



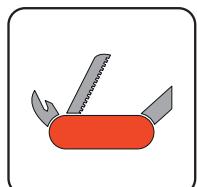
Durocoat® 480 – high corrosion resistance

This special surface stands for a high corrosion resistance and guarantees a very long protection against corrosive environmental influences. Durocoat® 480 corresponds to a resistance of 480h in the salt spray test according to DIN EN ISO 9227.



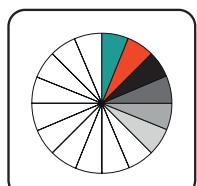
Multi Series – customer centered design

SFS Multi series products demonstrate particular ease-of-use in various applications. These are good all-round products, offering easy insertion, technical performance and simplification in use for the customer.



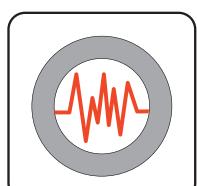
Paintable fasteners – all variants available

SFS offers a wide solution of coloured fasteners, wet or powder painted. The coating process produces a robust finish that is excellent against weathering, offering colour stability in exposed external applications.



Seismic approved – high physical life

Seismic approved products have been developed for category C1 and/or C2 according to Eurocode EN 1992-4 and ensure high durability and service life.



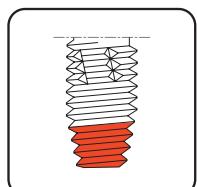
Fire approved – reliable and secure

These products are produced from non-flammable material (class A1) according to EN 13501-1, and tested for their fire resistance to class R30 - R120 according to EN 13501-2.



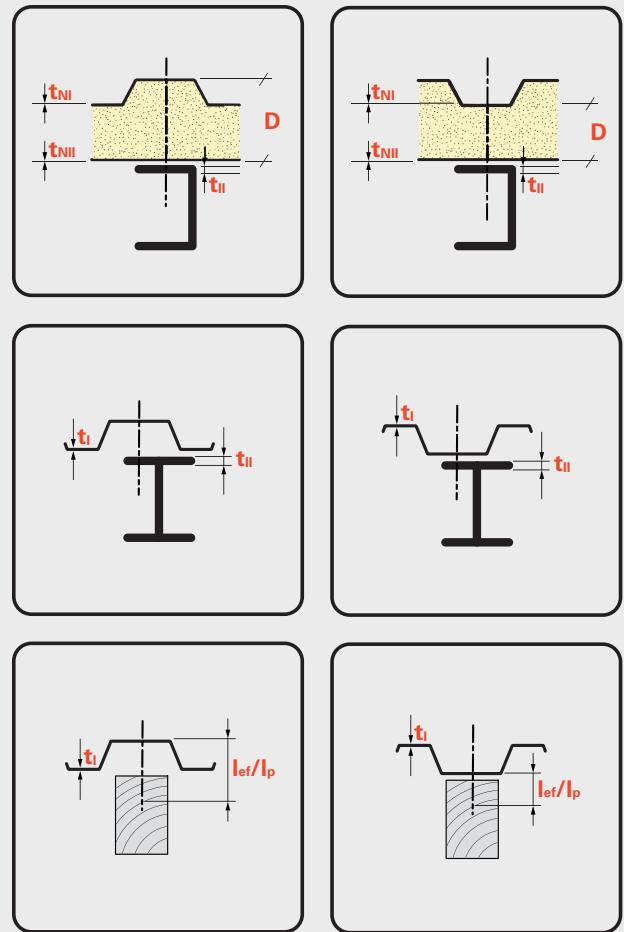
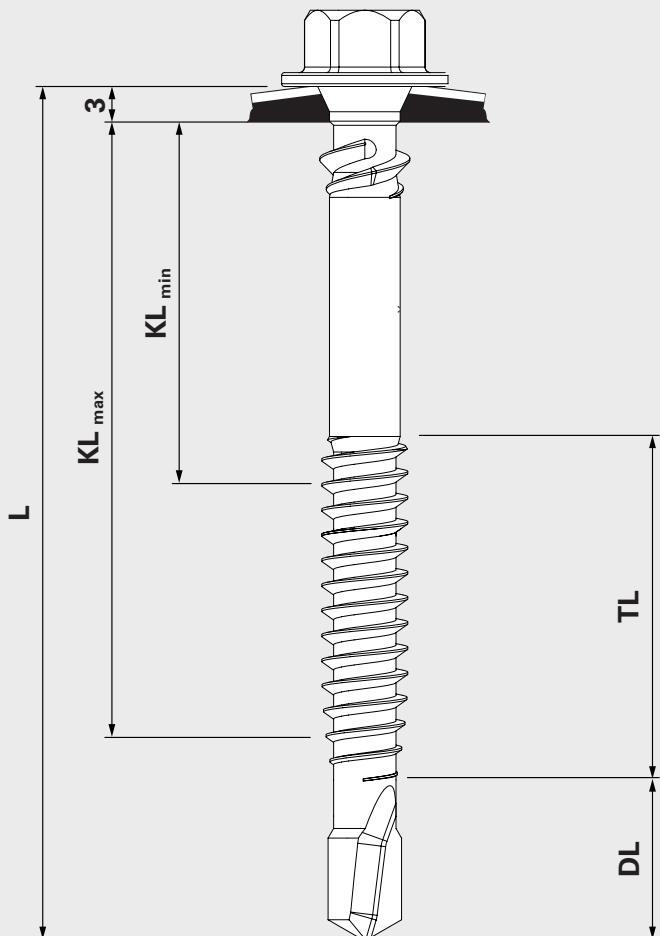
Centering point – easy installation

The special thread inlet makes it easy to install even mis-aligned components.



General information for steel, aluminium and timber

Definition clamping length KL



Explanation and short cuts

KL
Clamping length of the fastener

L
Length of the fastener

D
Thickness of component I (sandwich panel)

t_{NI}
Thickness of the outer skin of component I (sandwich panel)

t_{NII}
Thickness of the inner skin of component I (sandwich panel)

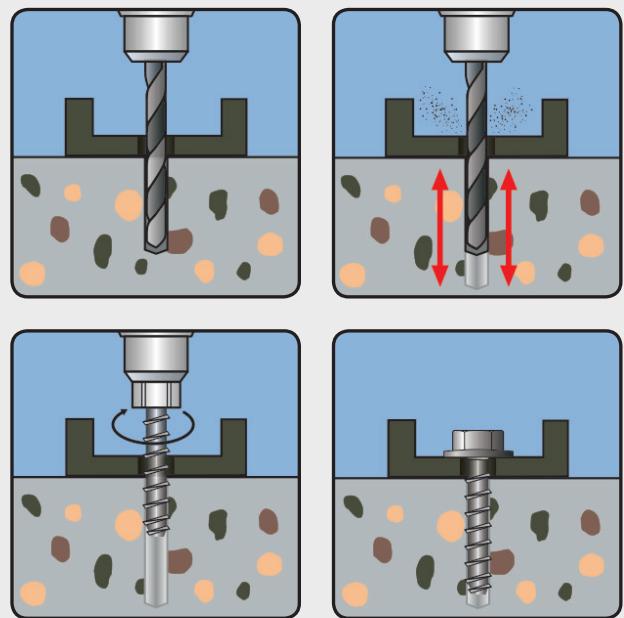
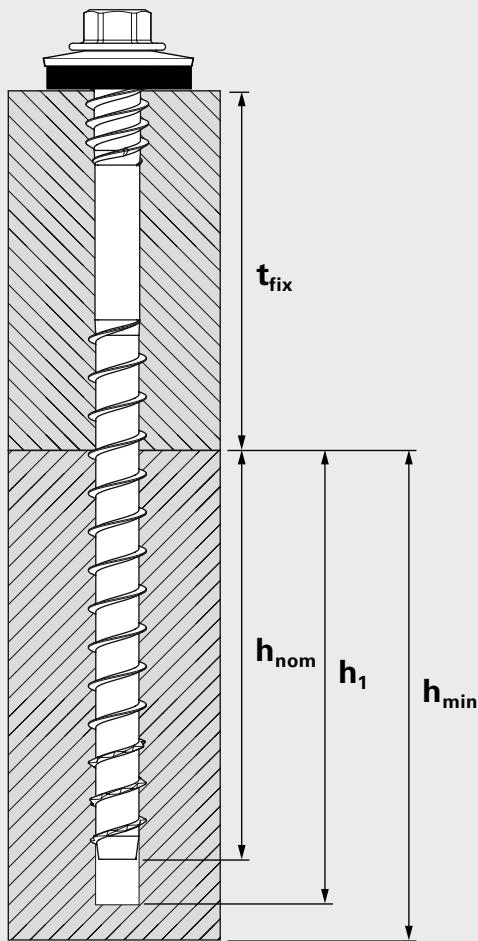
t_I
Thickness of component I

t_{II}
Thickness of component II made of metal
The thickness **t_{II}** corresponds to the load-bearing clamping length of the fastener in component II, if the load-bearing clamping length does not cover the entire component thickness.

l_{ef}/l_p
Effective embedment depth in component II made of timber (**l_{ef}** without drill point) (**l_p** with drill point)

General information for concrete and masonry

Definition clamping length KL



Explanation and short cuts

t_{fix}

Thickness of fixture

h_{nom}

Nominal anchor depth

h_1

Drill hole depth

h_{min}

Minimum thickness of concrete subconstruction

Correct setting

In order to guarantee correct setting, the following points must be addressed:

Insertion speed:

- Drilling fasteners in general at 1,500–2,000 RPMs
- Drilling fasteners in high tensile steel at 1,200 RPMs

Paint coated fasteners

- Clean tool, which fits exactly

The use of impact wrench has to be individually checked for each product and application.

Washer recommendations



Recommendation

12–16 mm washer: Cladding

For walling systems and secondary clamping fasteners, smaller diameters, typically 12–16 mm, is recommended.



Recommendation

19 mm washer: Roofing

For primary valley fixing of through-fixed metal roof weather sheets and insulated roof panels, 19 mm is usually the preferred diameter, in some instances 22 mm is recommended.

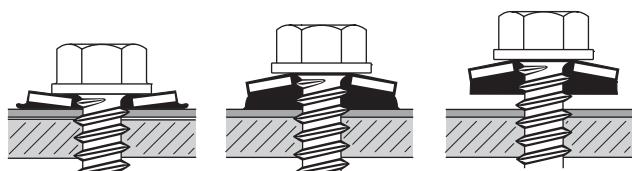


Recommendation

29 mm washer: Rooflights

For "plastics" rooflight profiles, typically GRP and polycarbonate, larger diameter washers, typically 29 mm is recommended.

Correct washer setting





Corrosion and working life

The following tables provide general guidelines for commonly-accepted applications in typical atmospheric conditions.

EOTA Guidance document 002 – Assumption of working life (1999)

Assumed working life of works (years)		Working life of construction products to be assumed in ETAGs, ETAs and hENs (years)		
Category	Years	Category	repairable or easy replaceable	repairable or replaceable with additional efforts
To be defined by the specifier				life ²
short	10	10 ¹	10	10
medium	25	10 ¹	25	25
normal	50	10 ¹	25	50
long	100	10 ¹	25	100

¹In exceptional and justified cases, e.g. for certain repair products, a working life of 3 to 6 years may be envisaged (when agreed by EOTA TB or CEN respectively).

²When not repairable or replaceable either "easily" or "with increased effort".

General: According to the Construction Products Directive "the products must be suitable for construction works which (as a whole and in their separate parts) are fit for their intended use, account being taken of economy, and in this connection satisfy the following essential requirements where the works are subject to regulations containing such requirements. Such requirements must, subject to normal maintenance, be satisfied for an economically reasonable working life".

Contact corrosion

Material of fixing part or substructure	Fastener Material			
	Carbon steel	Austenitic stainless steel		
Stainless steel	T	A2	A4	R5*
	no	yes	yes	yes
Glavanised steel	yes	yes	yes	yes
Aluminium alloy	consult expert	yes	yes	yes

*R5: Internal SFS code referring to the corrosion resistance class V (CRC) out of the EUROCODE3.

The table shows the material of the fixing part and sub-structure and the suitability of the fastener material under atmospheric conditions.

Contact corrosion can occur when different metals are in close contact and conductively connected by a corrosive medium (water, humid air). The less-noble metal is preferentially corroded according to the electrochemical series. The area of ratio of the different metals has also had an influence on the corrosion. This fact is negligible in the case of a small area of the noble metal in relation to the less-noble metal (e.g. stainless-steel fasteners onto galvanised steel).

Recommended fastener materials

To suit EN 12944-2 exposure categories

Corrosivity category	C1 Very low	C2 Low	C3 Medium	C4 High	C5-I Very high (industrial)	C5-M Very high (Marine)	Swimming pools and chemical plants
Examples of typical environments in a temperate climate (informative only)	Interior - heated buildings with clean atmosphere	Rural areas - low levels of pollution - unheated buildings where condensation may occur	Urban and industrial areas - moderate pollution - coastal area with low salinity - production rooms with high humidity and some air pollution	Industrial and coastal areas with moderate salinity	Industrial areas with high humidity and aggressive atmosphere - permanent condensation and high pollution	Coastal and offshore areas with high salinity	Within pool halls and certain chemical processing plants - fasteners that penetrate or are below vcl and exposed to chlorine vapour
R5* Working life (ETA)	S >25	S >25	S >25	S >25	R 25	R 25	R consult expert
A4 Working life (ETA)	S >25	S >25	R >25	R 25	R 25	R consult expert	N -
A2 Working life (ETA)	S >25	R >25	R 25	A consult expert	A consult expert	N -	N -
T Working life (ETA)	R 25	A consult expert	A consult expert	N -	N -	N -	N -

S Suitable but not economic **R** Recommended **A** Requires approval **N** Not suitable

*R5: Internal SFS code referring to the corrosion resistance class V (CRC) out of the EUROCODE3.

This table is based on an average working life for typical applications. The final decision on the required fastener material must be made by the customer. SFS accepts no responsibility regarding the suitability of a product for a specific application, even if informed of the application's conditions.

Working life may not be considered in relation to a limited warranty. Limited warranties are provided upon request.

Product compass

Page	Type	Material					Single skin		Twin skin			Sandwich panels			Liner tray
		A2	A4	R5	T	A						S	P	B	
28	BULB-TITE®											S			
30	CDM-4.8							S							S
32	MDC-7.5						C						C		
35	MMS-7.5/10/12								C						C
37	MMS-plus-7.5/10/12								C/M						C/M
40	MXC-7.5						C						C		
43	nonut®														
45	SC5-5.5														
47	SCF8-6.3						P	B							
49	SCFW-6.5								W						
51	SCFW-S-6.5							W							
53	SD3-5.5						S	P			S	P			S P
55	SD3-D10-5.5														
57	SD6-5.5						P			P					P
59	SD6-H15-5.5								P						P
61	SD14-5.5						B			B					B
63	SD14-D10-5.5														
65	SD14-H15-5.5								B						B
67	SDC2-S-5.5														S
69	SDC3-S-5.5														S P
71	SDK2-S-6.0														
73	SDK3-S-6.0														
75	SDRT2-5.5														S P
77	SDT5-5.5						P			P			P		
80	SDT14-5.5						B						B		
83	SDTW-5.5							W			W			W	
95	SL2-4.8								S						S
87	SL2-H15-6.3								S						S
89	SL2-S-4.8						S			S			S		S
91	SL2-S-5.5						S			S			S		S
93	SL2-S-6.3						S			S			S		S
95	SL2-T-4.8						S			S			S		S
97	SL3/2-5-S-6.0												S		
99	SL3-H15-6.3									P					P
101	SLG-S-4.8						S			S			S		S
103	SLG-S-6.5												S		
105	SLG-T-4.8						S			S			S		S
107	SW2-S-4.8							W			W				
109	SW2-T-D10-5.5														
111	SW3-T-6.5								W				W		
113	SW-T-4.8								W				W		
115	SX3-6.0						S	P		S	P				S P
117	SX5-5.5							P			P				S P
120	SX5-D10-5.5														
122	SX14-5.5						B			B					B
124	SX14-D10-5.5														
126	SXC5-6.3						P		W	P		W	P		W
130	SXC16-5.8						B						B		
134	SXK2-6.0														
136	SXW-6.5							W			W				W
138	TDA-S-6.5						S		W S			W S		W S	W
141	TDB-S-6.3						P B			P B			P B		P B
144	TDC-S-7.1														

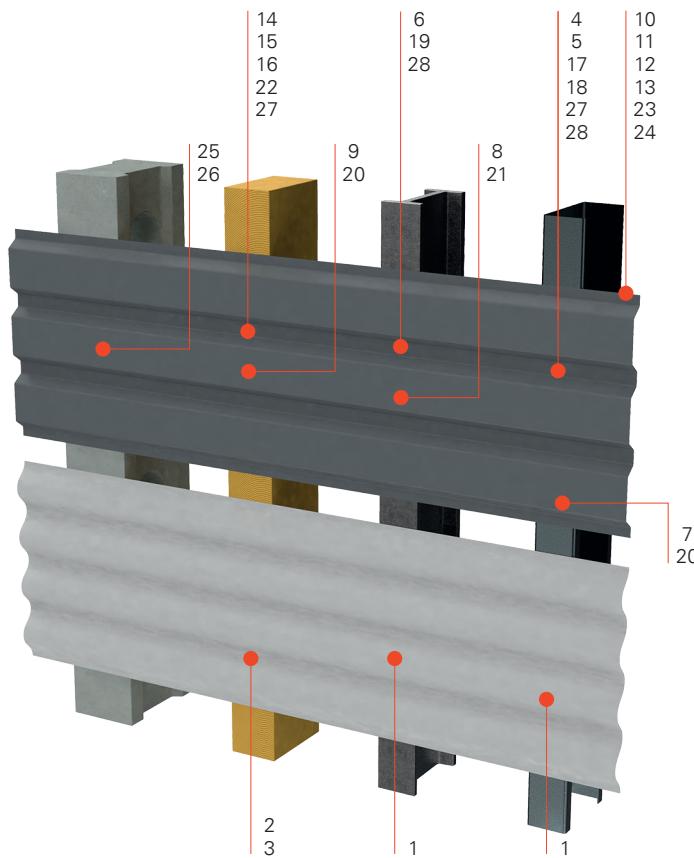
S Sheets P Profiles B Beams C Concrete M Masonry W Wood/Timber

Product compass

Page	Type	Material					Standing seam			Single-ply insulation roof panels			Flashing			Structural connection
		A2	A4	R5	T	A	S	P	B				S			
28	BULB-TITE®						S	P	B				S			
30	CDM-4.8						S									
32	MDC-7.5															
35	MMS-7.5/10/12															C
37	MMS-plus-7.5/10/12															C/M
40	MXC-7.5															
43	nonut®													S	P	B
45	SC5-5.5															P
47	SCF8-6.3															
49	SCFW-6.5															
51	SCFW-S-6.5															
53	SD3-5.5															
55	SD3-D10-5.5												P			
57	SD6-5.5															
59	SD6-H15-5.5							P								
61	SD14-5.5															
63	SD14-D10-5.5											B				
65	SD14-H15-5.5							B								
67	SDC2-S-5.5															
69	SDC3-S-5.5															
71	SDK2-S-6.0						S			W						
73	SDK3-S-6.0						P									
75	SDRT2-5.5															
77	SDT5-5.5															
80	SDT14-5.5															
83	SDTW-5.5															
95	SL2-4.8						S									
87	SL2-H15-6.3						S									
89	SL2-S-4.8												S			
91	SL2-S-5.5												S			
93	SL2-S-6.3												S			
95	SL2-T-4.8												S			
97	SL3/2-5-S-6.0						S	P								
99	SL3-H15-6.3							P								
101	SLG-S-4.8												S			
103	SLG-S-6.5															
105	SLG-T-4.8												S			
107	SW2-S-4.8															
109	SW2-T-D10-5.5												W			
111	SW3-T-6.5															
113	SW-T-4.8															
115	SX3-6.0															
117	SX5-5.5															
120	SX5-D10-5.5											P				
122	SX14-5.5															
124	SX14-D10-5.5											B				
126	SXC5-6.3															
130	SXC16-5.8						S									
134	SXK2-6.0															
136	SXW-6.5															
138	TDA-S-6.5															
141	TDB-S-6.3															
144	TDC-S-7.1															

S Sheets P Profiles B Beams C Concrete M Masonry W Wood/Timber

Single Skin



A2 Austenitic stainless steel A2

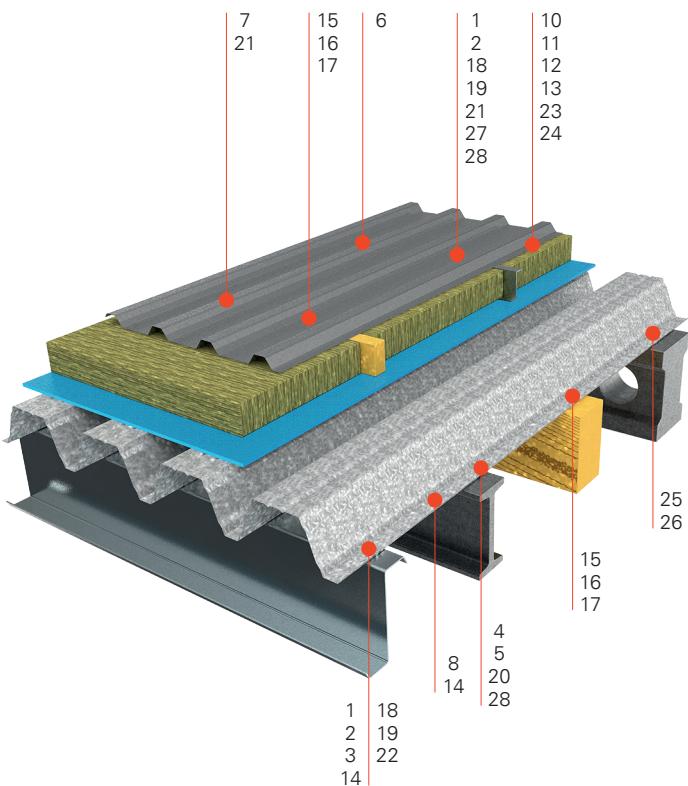
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Twin Skin



Self driller		Page	
T	SD3-5.5	53	1
T	SD6-5.5	57	2
T	SD6-H15-5.5	59	3
T	SD14-5.5	61	4
T	SD14-H15-5.5	65	5
T	SDT5-5.5	77	6
T	SDTW-5.5	83	7
T	SL2-4.8	85	8
T	SL2-H15-6.3	87	9
A2	SL2-S-4.8	89	10
A4	SL2-S-5.5	91	11
A2	SL2-S-6.3	93	12
T	SL2-T-4.8	95	13
T	SL3-H15-6.3	99	14
A2	SW2-S-4.8	107	15
T	SW3-T-6.5	111	16
T	SW-T-4.8	113	17
A2	A4 SX3-6.0	115	18
A2	A4 SX5-5.5	117	19
A2	A4 SX14-5.5	122	20
A2	A4 SXC5-6.3	126	21

A2 Austenitic stainless steel A2

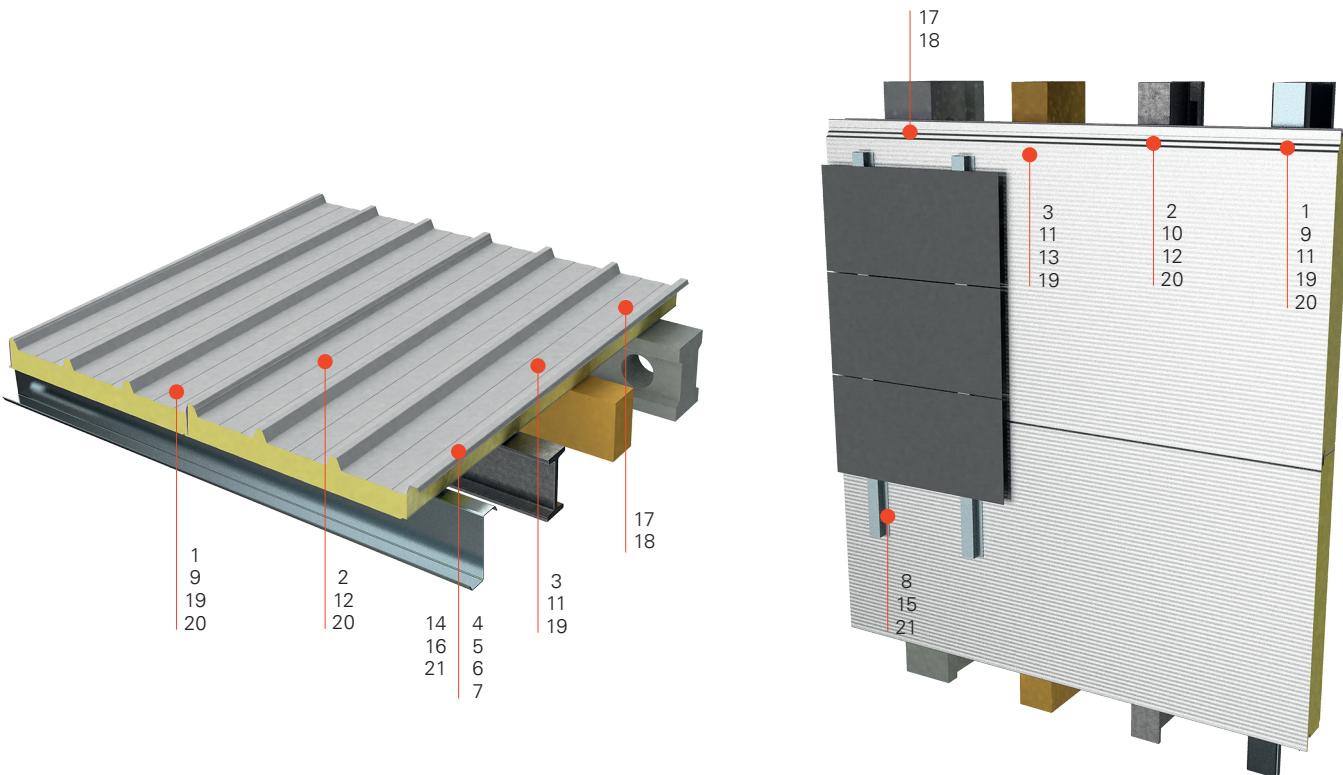
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Sandwich panels



A2 Austenitic stainless steel A2

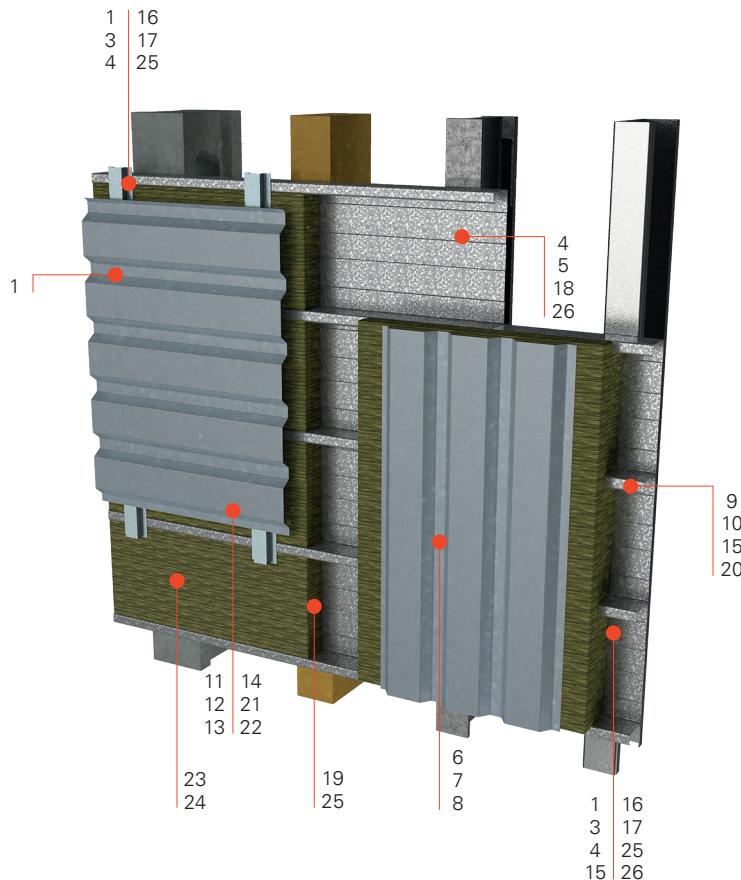
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Liner Tray



Self driller	Page	●	Speed-Point	Page	●	Self tapper	Page	●	Rivets	Page	●
T SD3-5.5	53	1	T CDM-4.8	30	20	A4 R5 MMS-7.5/10/12	35	23			
T SD6-5.5	57	2	A2 SLG-S-4.8	101	21	T MMS-plus-7.5/10/10	37	24			
T SD6-H15-5.5	59	3	T SLG-T-4.8	105	22	A2 TDA-S-6.5	138	25			
T SD14-5.5	61	4				A2 A4 TDB-S-6.3	141	26			
T SD14-H15-5.5	65	5									
A2 SDC2-S-5.5	67	6									
A2 SDC3-S-5.5	69	7									
T SDRT2-5.5	75	8									
T SL2-4.8	95	9									
T SL2-H15-6.3	87	10									
A2 SL2-S-4.8	89	11									
A4 SL2-S-5.5	91	12									
A2 SL2-S-6.3	93	13									
T SL2-T-4.8	95	14									
T SL3-H15-6.3	99	15									
A2 A4 SX3-6.0	115	16									
A2 A4 SX5-5.5	117	17									
A2 A4 SX14-5.5	122	18									
A2 SXW-6.5	136	19									

A2 Austenitic stainless steel A2

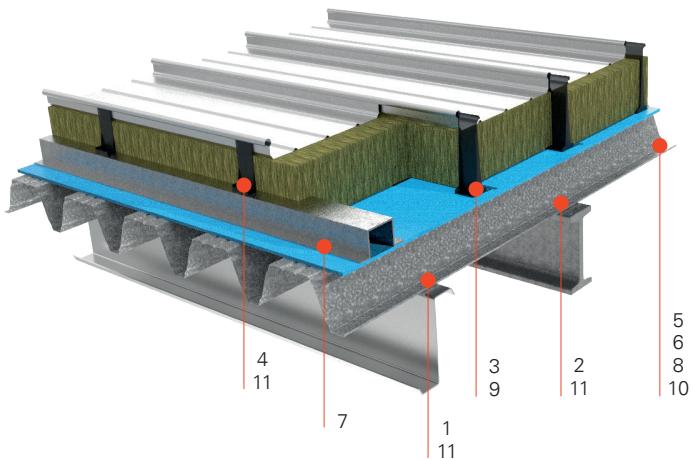
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Standing Seam



A2 Austenitic stainless steel A2

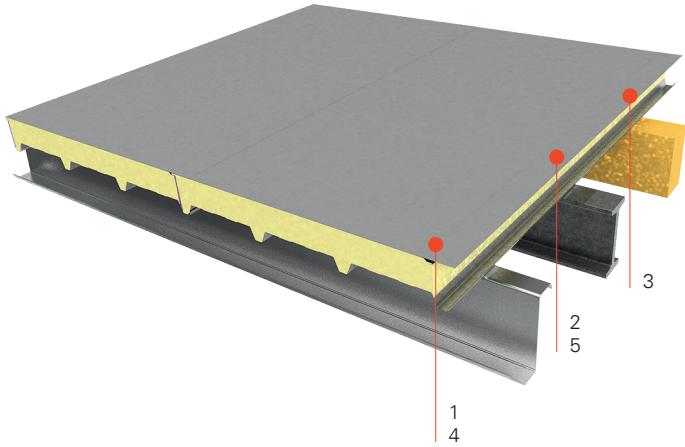
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Single-Ply Insulation Roof Panels



A2 Austenitic stainless steel A2

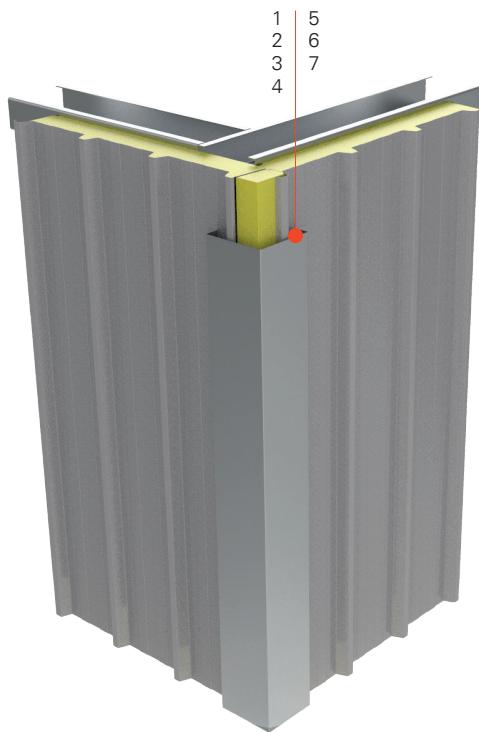
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Flashing



A2 Austenitic stainless steel A2

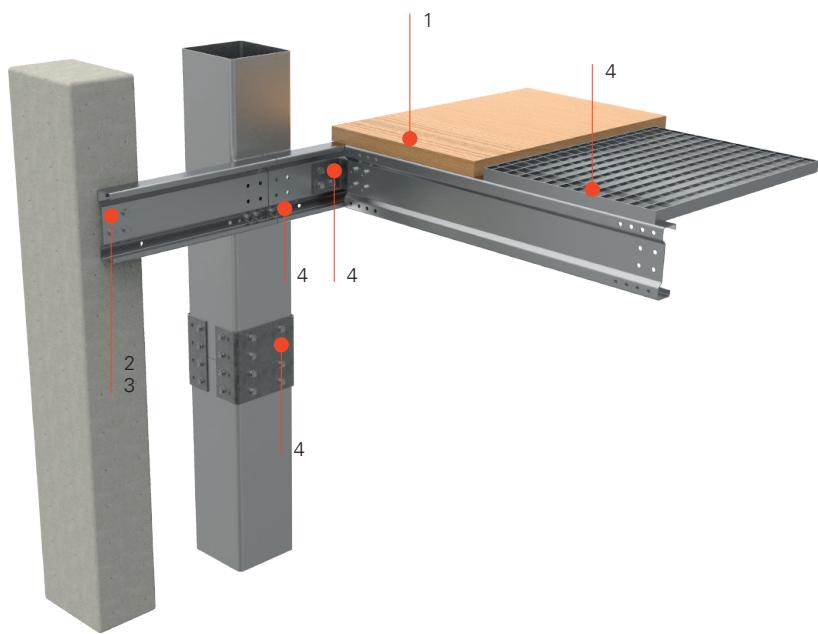
A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Structural Connection



A2 Austenitic stainless steel A2

A4 Austenitic stainless steel A4

R5 Austenitic stainless steel R5

T Carbon steel

A Aluminium

Product codes explanation

S	X	C		5	/	35–65	–	L12	–	S19	–	6,3x140	–	A4	–	M	–	RAL9010
Fastener type	Fastener material	Fastener design	Market-specific	Drilling capacity		Clamping lenght (optional)		Head shape		Additional components		Dimension		Material quality & surface coating		Collated (optional)		Painting (optional)

Fastener type

Self drilling fastener	drill point	onto steel or timber	S
	thread point	onto steel or timber	C
Self tapping fastener		onto steel or timber	T
		onto concrete	M

Fastener material

Bimet	standard	X
	MULTI-MONTI®	MS
Carbon steel, Austenitic stainless steel, Aluminium	standard	D
	MULTI-MONTI®	MS-plus

Fastener design

Self drilling fastener	steel onto steel	standard	–
		composite panel	C
		fibre cement	F
	steel onto timber	standard	W
		composite panel	CW
		fibre cement	FW
	overlap- thread free zone	cut thread end	L
		cut thread end onto steel and/or timber	LW
		thread end run-out	M
		–	D
	distance connection	double thread	U
	timber onto steel	cone underneath head	K
	clip onto steel		

Product codes explanation

S	X	C		5	/	35–65	–	L12	–	S19	–	6,3x140	–	A4	–	M	–	RAL9010
Fastener type	Fastener material	Fastener design	Market-specific	Drilling capacity		Clamping lenght (optional)		Head shape		Additional components		Dimension		Material quality & surface coating		Collated (optional)		Painting (optional)

Fastener design

Self tapping fastener	steel onto timber	standard	A
	steel onto steel	standard	B
		repair fastener	C
	steel onto concrete	standard	-
		composite panel	C
	structural connection	standard	N
		thread free zone	NL

Market-specific

Fance	Kaskinox head	S
	Zamac head	Z
CEE, UK	Plastic head	P

Drilling capacity

max. capacity in mm	e.g. 5
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Clamping lenght KL

min.–max. in mm	e.g. 35–65
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Product codes explanation

S	X	C		5	/	35–65	–	L12	–	S19	–	6,3x140	–	A4	–	M	–	RAL9010
Fastener type	Fastener material	Fastener design	Market-specific	Drilling capacity		Clamping length (optional)		Head shape		Additional components		Dimension		Material quality & surface coating		Collated (optional)		Painting (optional)

Head shape

Hexagon head	standard (e.g. size 8, 13, 16)	–	–
	low head high	–	LH
	increased flange	Ø in mm	H (mm)
Counter sunk	–	Ø in mm	C (mm)
Pan head	–	Ø in mm	D (mm)
SFS head	irius®	Ø in mm	L (mm)
	SXK head	–	K10

Additional components

Sealing washer	Austenitic stainless steel A2 or A4	Ø in mm	S (mm)
	aluminium	Ø in mm	A (mm)
	carbon steel galvanized	Ø in mm	T (mm)
Sealing element	–	–	BAZ
Cutting disc	stainless steel A2	Ø in mm	SC (mm)
	carbon steel galvanized	Ø in mm	TC (mm)
Curved disc	stainless steel A2	Ø in mm	SV (mm)

Dimension

Diameter x length in mm	e.g. 6,3x140
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Product codes explanation

S	X	C		5	/	35–65	–	L12	–	S19	–	6,3x140	–	A4	–	M	–	RAL9010
Fastener type	Fastener material	Fastener design	Market-specific	Drilling capacity		Clamping length (optional)		Head shape		Additional components		Dimension		Material quality & surface coating		Collated (optional)		Painting (optional)

Material quality and surface coating

Bimet/Austenitic stainless steel	A2 A4 1.4547	A2 A4 R5
Carbon steel	Durocoat® 480	–

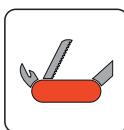
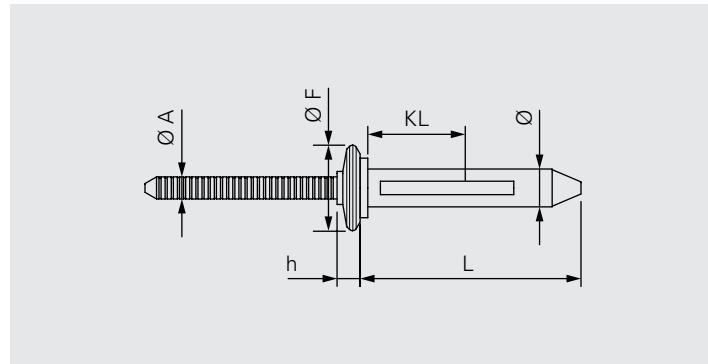
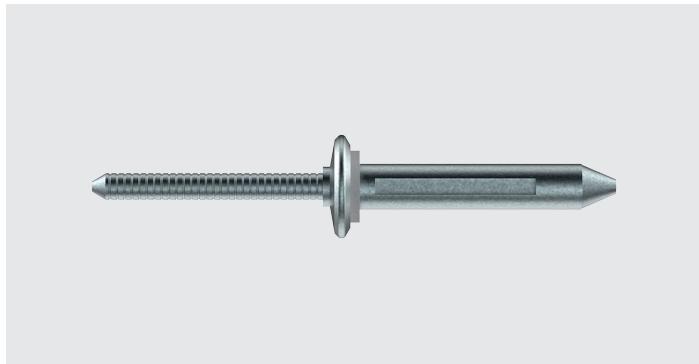
Collated

SFS setting tool	CF400, CF401 Quik Drive®	M MQD
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Painting

RAL colour system	RAL (no)
NCS-S colour system	NCS-S (no)
BS colour system	BS (no)

BULB-TITE®



Application

Fastening of metal profiles onto metal sheets
Fastening of overlaps of profile sheets
Fastening of rooflights and plastic sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel ≥ 0.40	Steel ≥ 0.40	-
Aluminium ≥ 0.50	Aluminium ≥ 0.50	-
Aluminium ≥ 0.50	Steel ≥ 0.50	-

Fastener material

Aluminium (EN573)
Sealing washer: Neopren®

Approvals

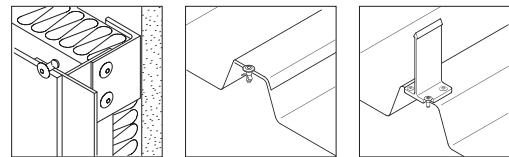


Features and Benefits

- Multifunctional blind rivet for a variety of applications
- High clamping range with clamping force independent of the clamping thickness
- High quality Neoprene sealing washer for long-term weather sealing
- Non-detachable end vibration-resistant connection
- Save setting given by the three load bearing legs

Documentation

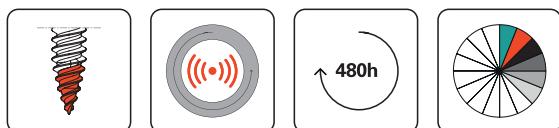
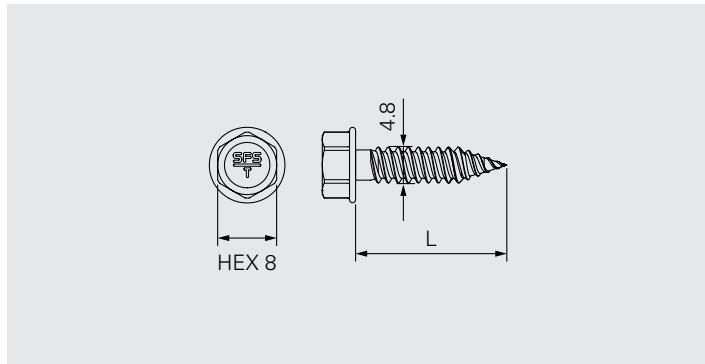
Approval document (ETA) | Declaration of performance (DoP)



Rivets in aluminium onto steel and aluminium

Product code	PU	\varnothing	L	KL	Pre-drill \varnothing	$\varnothing A$	$\varnothing F$	h	
RV6604-6-3W	1000	5.20	17.50	1.30–4.80	5.30–5.50	2.90	11.60	3.40	1570655
RV6604-6-4W	1000	5.20	19.10	1.60–6.40	5.30–5.50	2.90	11.60	3.40	1570656
RV6604-6-6W	1000	5.20	22.20	4.70–9.50	5.30–5.50	2.90	11.60	3.40	1570658
RV6604-6-8W	1000	5.20	25.40	7.90–12.70	5.30–5.50	2.90	11.60	3.40	1570659
RV6604-6-10W	1000	5.20	28.60	11.10–15.90	5.30–5.50	2.90	11.60	3.40	1570629
RV6604-6-12W	1000	5.20	31.80	14.30–19.10	5.30–5.50	2.90	11.60	3.40	1570652
RV6603-9-6W	1000	7.70	27.70	1.00–9.50	7.80–8.20	4.50	15.90	4.80	1570647
RV6605-9-6W	1000	7.70	28.20	1.10–8.30	7.80–8.20	4.50	19.40	5.30	1570660

CDM-4.8



Application

Fastening of overlaps of metal decks
Fastening of overlaps of liner trays
Fastening of overlaps of profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.63–1.25	Steel 0.63–1.25	2.50
Steel 2×0.63–0.88	Steel 2×0.63–0.88	3.60

Fastener material

Carbon steel, Durocoat® 480

Approvals

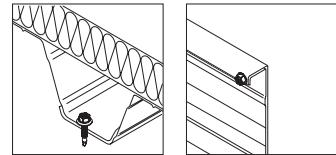


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps
- Fast and chip-free installation thanks to the Speed-Point
- Cost saving installation due to post-cleaning of chips no longer necessary
- No torque control required given by free-spin zone
- Secured against unwinding given by free-spin zone
- High tension and shear resistance achieved by optimized fastener geometry
- Collated fastener available for installation with QuikDrive® setting tool
- High corrosion durability thanks to special galvanic zinc coating

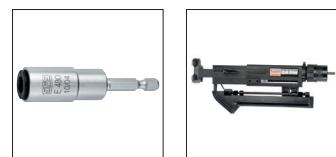
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

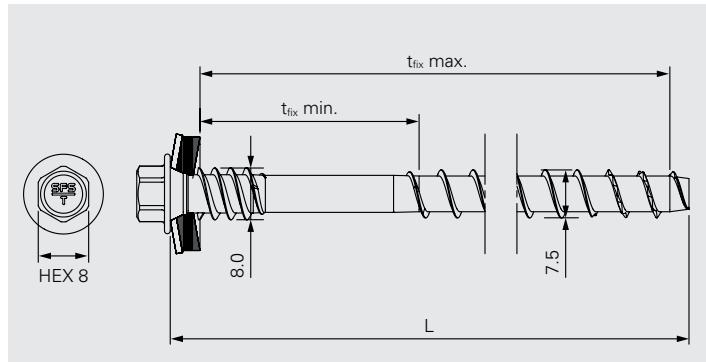
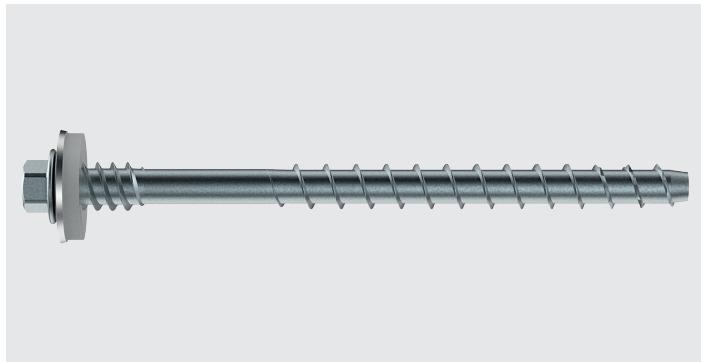
Product code	PU	L	KL	Collated	
CDM-4,8x20	1000	20	1.20–2.50	–	1476369
CDM-4,8x20-MQD	500	20	1.20–2.50	Yes	1476370



Accessories/Ancillaries

Product code	PU	
Setting tool Quik Drive BGP75E	1	1490366
Socket E480	10	688056

MDC-7.5



Application

Fastening of sandwich panels onto concrete

Fastener Ø

7.50

Pre-drill Ø

6.0

Embedment depth

35/55

Fastener material

Carbon steel, Durocoat® 480

Sealing washer: Austenitic stainless steel A2, EPDM-seal

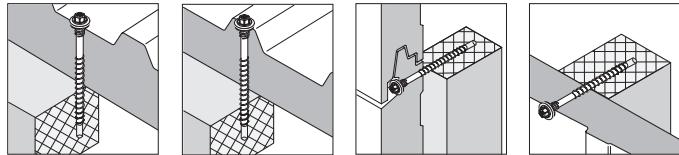
Approvals

Features and Benefits

- Self tapping fastener suitable for installation of sandwich panels onto concrete
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- Optimized support function achieved by patented double support thread
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High corrosion resistance thanks to special galvanic zinc coating
- Easy insertion and high load capacities given by the ideal core-/thread geometry
- Reduced abrasion achieved by toothed functional tip

Documentation

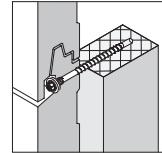
Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto concrete

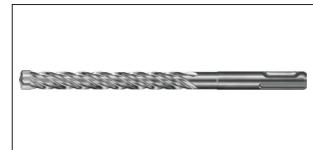
Product code	PU	L	t_{fix}	S16	S19	S22
MDC-S19-7,5x85	100	85	10–45	1574300	1562034	1562305
MDC-S19-7,5x105	100	105	30–65	1574321	1562228	1562331
MDC-S19-7,5x125	100	125	50–85	1574324	1562227	1562329
MDC-S19-7,5x145	100	145	70–105	1574326	1562225	1562328
MDC-S19-7,5x165	100	165	90–125	1574328	1562229	1562332
MDC-S19-7,5x185	100	185	110–145	1574329	1562224	1562327
MDC-S19-7,5x205	100	205	130–165	1574332	1562223	1562326
MDC-S19-7,5x225	100	225	150–185	1574334	1562222	1562325
MDC-S19-7,5x245	100	245	170–205	1574335	1562221	1562324
MDC-S19-7,5x265	100	265	190–225	1574340	1562210	1562323
MDC-S19-7,5x285	100	285	210–245	1574353	1562209	1562322
MDC-S19-7,5x305	100	305	230–265	1574355	1562208	1562309
MDC-S19-7,5x325	100	325	250–285	1574413	1562207	1562308
MDC-S19-7,5x345	100	345	270–305	1574416	1562206	1562307
MDC-S19-7,5x365	100	365	290–325	1574418	1562205	1562306

Without
approval



Fastener in carbon steel onto concrete

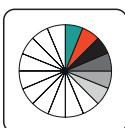
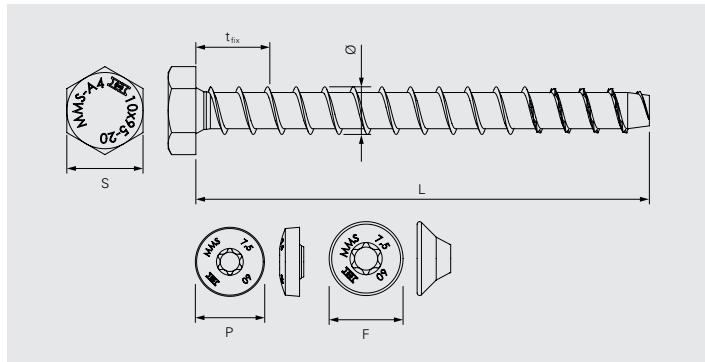
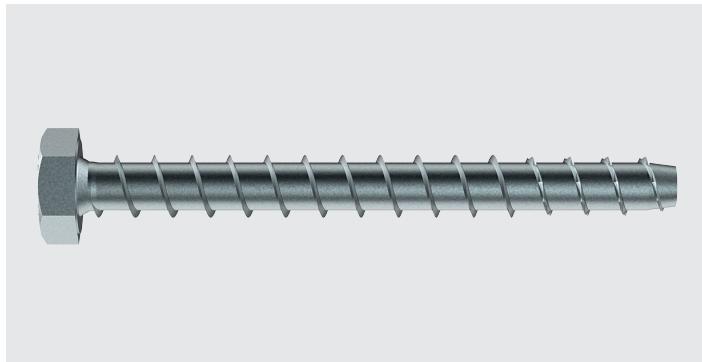
Product code	PU	L	t_{fix}	No washer
MDC-7,5x85	100	85	15–50	1580854
MDC-7,5x105	100	105	35–70	1580856
MDC-7,5x125	100	125	55–90	1580857
MDC-7,5x145	100	145	75–110	1580862
MDC-7,5x165	100	165	95–130	1580864
MDC-7,5x185	100	185	115–150	1580870
MDC-7,5x205	100	205	135–170	1580874
MDC-7,5x225	100	225	155–190	1580912
MDC-7,5x245	100	245	175–210	1580913
MDC-7,5x265	100	265	195–230	1580919
MDC-7,5x285	100	285	215–250	1580931
MDC-7,5x305	100	305	235–270	1580933
MDC-7,5x325	100	325	255–290	1580951
MDC-7,5x345	100	345	275–310	1580953
MDC-7,5x365	100	365	295–330	1590960



Accessories/Ancillaries

Product code	PU	D	L	WL	FL	
SDS-6x210/150-4C	1	6	210	150	150	1487583

MMS-A4/R5



Application

Fastening of metal plates, profiles, brackets onto concrete

Fastening of timber battens onto concrete

Fastener Ø	7.50	10.0	12.0
Pre-drill Ø	6.0	8.0	10.0
Embedment depth	65	75	90

Fastener material

Austhenitic stainless steel A4/R5

Approvals



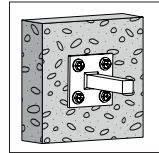
ETA-05/0011

Features and Benefits

- Self tapping fastener suitable for installation onto concrete
- Easy settable even in case of worn drills
- Settable by means of power-tools and immediately loadbearing
- Faster setting due to toothed functional tip
- Small spacing and edge distances thanks to no spreading effect

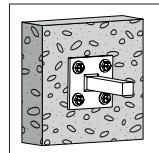
Documentation

Approval document (ETA) | Declaration of performance (DoP)



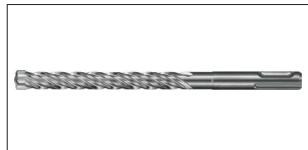
Fastener in A4 onto concrete

Product code	PU	L	t _{fix}	
MMS-S-7,5x75-A4	50	75	0–10	1479976
MMS-S-10x85-A4	25	85	0–10	1480024
MMS-S-12x100-A4	25	100	0–10	1480026



Fastener in R5 onto concrete

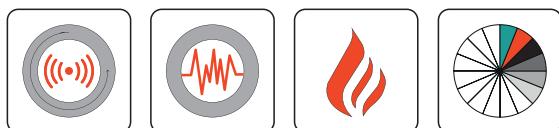
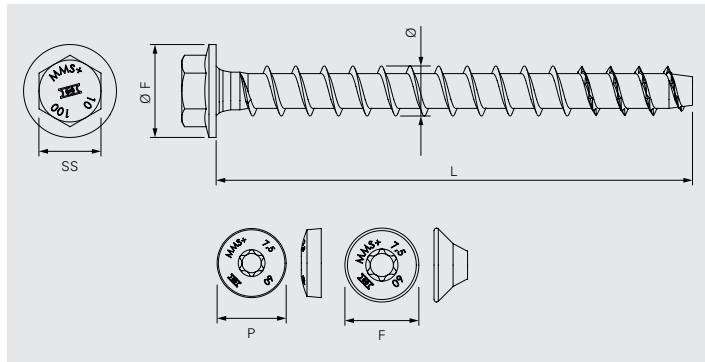
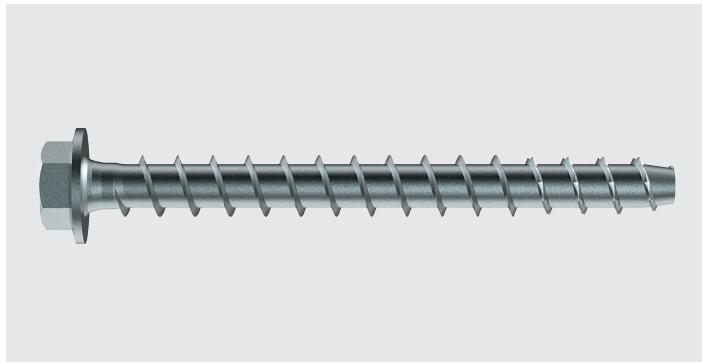
Product code	PU	L	t _{fix}	
MMS-F-C14-7,5x75-R5	50	75	0–10	1480027
MMS-F-C14-7,5x85-R5	50	85	0–20	1480028
MMS-F-C14-7,5x95-R5	50	95	0–30	1486553
MMS-F-C14-7,5x115-R5	50	115	0–50	1486583
MMS-P-D14-7,5x75-R5	50	75	0–10	1480029
MMS-P-D14-7,5x85-R5	50	85	0–20	1480030



Accessories/Ancillaries

Product code	PU	D	L	WL	FL	
SDS-6x210/150-4C	1	6	210	150	150	1487583
SDS-8x210/150-4C	1	8	210	150	150	1487585
SDS-10x210/150-4C	1	10	210	150	150	1487586

MMS-plus



Application

Fastening of metal plates, profiles, brackets onto concrete

Fastening of timber battens onto concrete

Fastener Ø	7.50	10.0	12.0
Pre-drill Ø	6.0	8.0	10.0
Embedment depth	35/55	50/65	75/90
Seismic approved	–	yes	yes

Fastener material

Carbon steel, bright zinc plated

Approvals

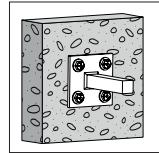


Features and Benefits

- Easy settable even in case of worn drills
- More flexibility given by two embedment depths
- Settable by means of power-tools and immediately loadbearing
- Seismic approved from diameter 10 mm
- Highest demands and economical fixations given by reduced clearance hole displacements
- Faster setting due to toothed functional tip
- Multiple use in temporary fixations from diameter 10 mm
- Small spacing and edge distances thanks to no spreading effect

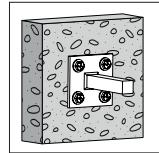
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto concrete

Product code	PU	L	t_{fix}	$\emptyset F$	
MMS-plus-F-C16-7,5x50	100	50	0–15	–	1480041
MMS-plus-F-C16-7,5x60	50	60	0–5/25	–	1480037
MMS-plus-F-C16-7,5x70	50	70	0–15/35	–	1564084
MMS-plus-F-C16-7,5x80	50	80	0–25/45	–	1503577
MMS-plus-F-C16-7,5x100	50	100	0–45/65	–	1486584
MMS-plus-F-C16-7,5x120	50	120	0–65/85	–	1564086
MMS-plus-F-C16-7,5x140	50	140	0–85/105	–	1564087
MMS-plus-F-C16-7,5x160	50	160	0–105/125	–	1486585
MMS-plus-F-C20-10x60	25	60	0–10	–	1503581
MMS-plus-F-C20-10x70	25	70	0–5/20	–	1480038
MMS-plus-F-C20-10x80	25	80	0–15/30	–	1503583
MMS-plus-F-C24-12x90	25	90	0–1/15	22	1480039
MMS-plus-F-C24-12x100	25	100	0–10/25	22	1503584
MMS-plus-F-C24-12x120	25	120	0–30/45	22	1564088
MMS-plus-P-D15-7,5x40	100	40	0–5	–	1480040
MMS-plus-P-D15-7,5x50	100	50	0–15	–	1480036
MMS-plus-P-D15-7,5x60	50	60	0–5/25	–	1480042
MMS-plus-SS-7,5x40	100	40	0–5	14	1480031
MMS-plus-SS-7,5x50	50	50	0–15	14	1480032
MMS-plus-SS-7,5x60	50	60	0–5/25	14	1480033
MMS-plus-SS-7,5x70	50	70	0–15/35	14	1503514
MMS-plus-SS-7,5x80	50	80	0–25/45	14	1507359
MMS-plus-SS-7,5x100	50	100	0–45/65	14	1515810
MMS-plus-SS-7,5x120	50	120	0–65/85	14	1563777
MMS-plus-SS-7,5x140	50	140	0–85/105	14	1563779
MMS-plus-SS-10x60	25	60	0–10	19	1503515
MMS-plus-SS-10x70	25	70	0–5/20	19	1480034
MMS-plus-SS-10x80	25	80	0–15/30	19	1491708
MMS-plus-SS-10x90	25	90	0–25/40	19	1563780
MMS-plus-SS-10x100	25	100	0–35/50	19	1547793
MMS-plus-SS-10x120	25	120	0–55/70	19	1563781
MMS-plus-SS-10x140	25	140	0–75/90	19	1522355
MMS-plus-SS-10x160	25	160	0–95/110	19	1563782

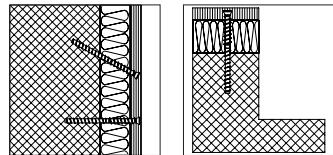


Fastener in carbon steel onto concrete

Product code	PU	L	t _{fix}	Ø F	
MMS-plus-SS-12×60	25	60	0–5	22	1599840
MMS-plus-SS-12×80	25	80	0–5	22	1516300
MMS-plus-SS-12×90	25	90	0–1/15	–	1480035
MMS-plus-SS-12×100	25	100	0–10/25	–	1503516
MMS-plus-SS-12×120	25	120	0–30/45	–	1503517
MMS-plus-SS-12×140	25	140	0–50/65	22	1516202
MMS-plus-SS-12×160	25	160	0–70/85	22	1516203

t_{fix} Calculated with two different embedment depths

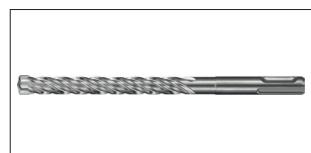
Without
approval



Fastener in carbon steel onto concrete

Product code	PU	L	t _{fix}	
MMS-DT-C15-7,5×200-HP	50	200	0–145/165	1598480
MMS-DT-C15-7,5×250-HP	50	250	0–195/215	1525948
MMS-DT-C15-7,5×300-HP	50	300	0–245/265	1525949
MMS-DT-C15-7,5×350-HP	50	350	0–295/315	1525950
MMS-DT-C15-7,5×400-HP	50	400	0–345/365	1598486

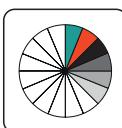
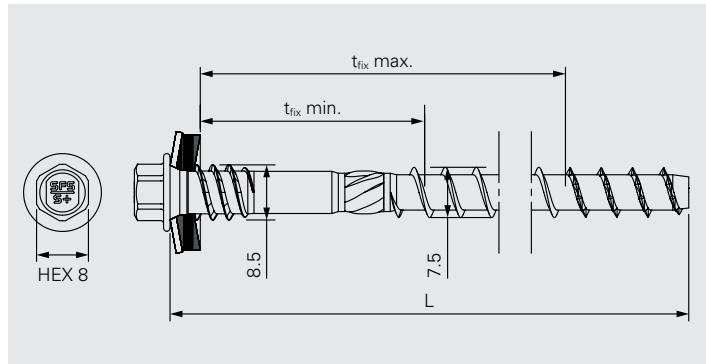
t_{fix} Calculated with two different embedment depths



Accessories/Ancillaries

Product code	PU	D	L	WL	FL	
SDS-6×210/150-4C	1	6	210	150	150	1487583
SDS-8×210/150-4C	1	8	210	150	150	1487585
SDS-10×210/150-4C	1	10	210	150	150	1487586

MXC-7.5



Application

Fastening of sandwich panels onto concrete

Fastener Ø

7.50		
Pre-drill Ø	6.0	
Embedment depth	65.0	

Fastener material

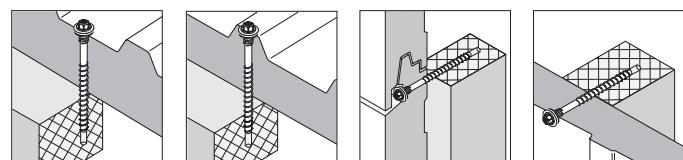
Austenitic stainless steel A4

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

Features and Benefits

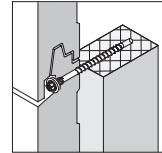
- Self tapping fastener suitable for installation of sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- Optimized support function achieved by engineered double support thread
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- Easy insertion and high load capacities given by the ideal core-/thread geometry
- Reduced abrasion achieved by toothed functional tip



Fastener in A4 onto concrete

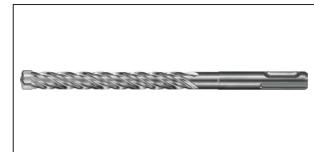
Product code	PU	L	t_{fix}	S16	S19	S22
MXC-S19-7,5x95	100	95	18–45	1596755	1596762	1596768
MXC-S19-7,5x115	100	115	35–65	1596786	1596788	1596790
MXC-S19-7,5x135	100	135	55–85	1596802	1596806	1596807
MXC-S19-7,5x155	100	155	75–105	1596812	1596813	1596818
MXC-S19-7,5x175	100	175	95–125	1596862	1596866	1596868
MXC-S19-7,5x195	100	195	115–145	1596947	1596953	1596956
MXC-S19-7,5x215	100	215	135–165	1597023	1597024	1597025
MXC-S19-7,5x235	100	235	155–185	1597028	1598660	1598674
MXC-S19-7,5x255	100	255	175–205	1598678	1598686	1598715
MXC-S19-7,5x275	100	275	195–225	1598722	1598726	1598727
MXC-S19-7,5x295	100	295	215–245	1598733	1598735	1598791
MXC-S19-7,5x315	100	315	235–265	1598798	1598813	1598814
MXC-S19-7,5x335	100	335	255–285	1598917	1598932	1598970
MXC-S19-7,5x355	100	355	275–305	1598993	1599213	1599214
MXC-S19-7,5x375	100	375	295–325	1599216	1599217	1599218

Without
approval



Fastener in A4 onto concrete

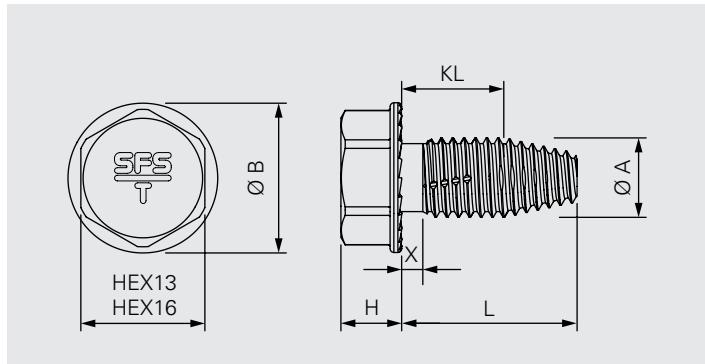
Product code	PU	L	t _{fix}	No washer
MXC-7,5×95	100	95	23–50	1596782
MXC-7,5×115	100	115	40–70	1596801
MXC-7,5×135	100	135	60–90	1596811
MXC-7,5×155	100	155	80–110	1596820
MXC-7,5×175	100	175	100–130	1596891
MXC-7,5×215	100	215	140–170	1597026
MXC-7,5×235	100	235	160–190	1598675
MXC-7,5×255	100	255	180–210	1598720
MXC-7,5×275	100	275	200–230	1598728
MXC-7,5×295	100	295	220–250	1598795
MXC-7,5×315	100	315	240–270	1598816
MXC-7,5×335	100	335	260–290	1598972
MXC-7,5×355	100	355	280–310	1599215
MXC-7,5×375	100	375	300–330	1599219



Accessories/Ancillaries

Product code	PU	D	L	WL	FL	
SDS-6×210/150-4C	1	6	210	150	150	1487583

nonut®



Application

Structural connections of metal profiles

Component 1 (t_1)

Steel

Component 2 (t_{II})

Steel

$\Sigma_{\max} t_1 + t_{II}$

-

-

-

Fastener material

Carbon steel, Durocoat® 480

Approvals

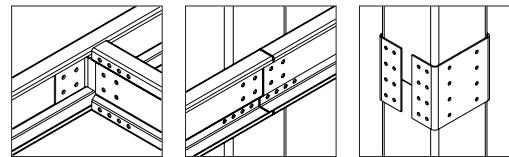


Features and Benefits

- Blind fastening – simple one side installation compared to nut and bolt
- Fast and user friendly installation with impact wrench
- Centering of the pre-punched metal profiles thanks to conical thread start
- Patented thread design for optimized thread forming capability
- High tension and shear resistance achieves by optimized fastener geometry
- Highest safety regarding over-winding and self-loosening

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

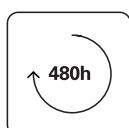
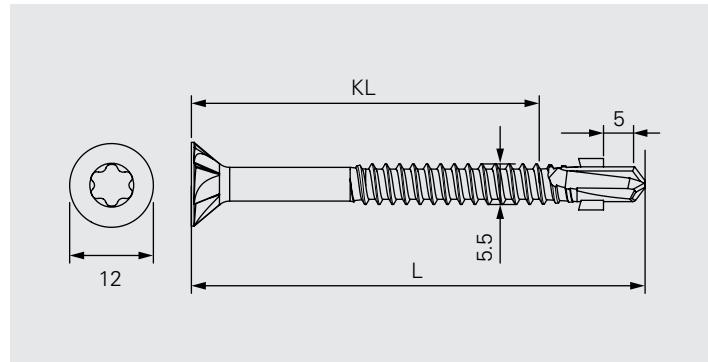
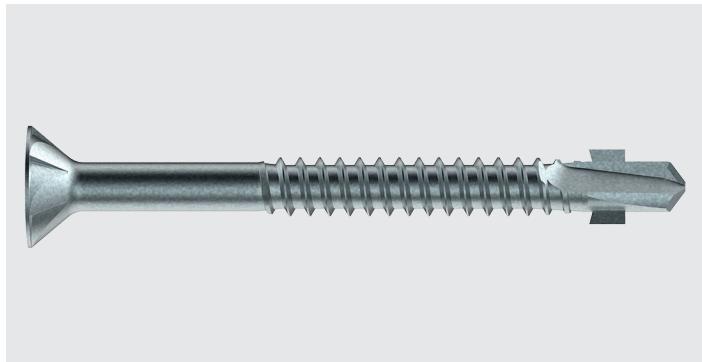
Product code	PU	L	KL	Head	Ø A	Ø B	x	H	
nonut®-TDBL-T-8,6x16	200	16	9	HEX13	8.60	16.0	2.0	7	1542214
nonut®-TDBLF-T-F-8,6x16	200	16	9	HEX13	8.60	16.0	<1.0	4.7	1541860
nonut®-TDBL-T-8,6x50	100	50	43	HEX16	8.60	16.0	20.0	7	1607124
nonut®-TDBL-T-10,6x23	100	23	13	HEX16	10.60	20.0	3.0	8	1542223
nonut®-TDBLF-T-10,6x23	100	23	13	HEX16	10.60	20.0	<1.50	8	1542229
nonut®-TDBL-T-10,6x30	100	30	20	HEX16	10.60	20.0	3.0	8	1542217
nonut®-TDBL-T-10,6x50	100	50	40	HEX16	10.60	20.0	3.0	8	1561761
nonut®-TDBLF-T-13,4x23	100	23	13	HEX16	13.40	20.0	<2.0	8	1589570
nonut®-TDBL-T-13,4x30	100	30	20	HEX16	13.40	20.0	3.0	8	1542212



Accessories/Ancillaries

Product code	PU	Drive	Head	
E313	1	1/4"	HEX13	508029
E513	1	1/4"	HEX13	1512203
E416	1	1/4"	HEX16	1389740
E516	1	1/4"	HEX16	1524373

SC5-5.5



Application

Fastening of timber boards onto supporting steel structures

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Timber	27.0–40.0	Steel 2.0–5.0

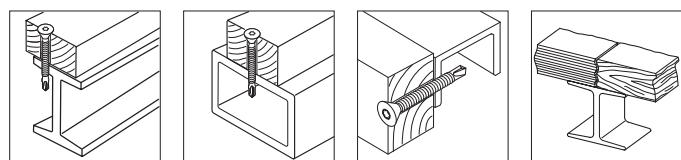
Fastener material

Carbon steel, Durocoat® 480

Approvals

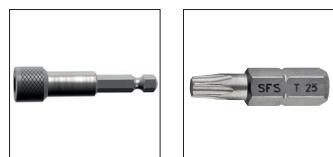
Features and Benefits

- Flush-mounted installation without damaging the timber surface given by the milling grooves
- Ergonomical setting tool available



Fastener in carbon steel onto steel

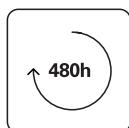
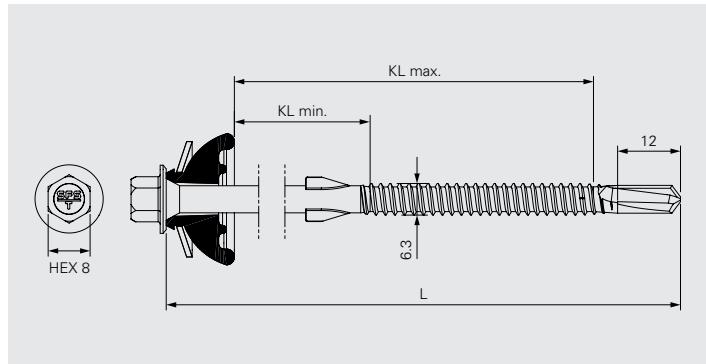
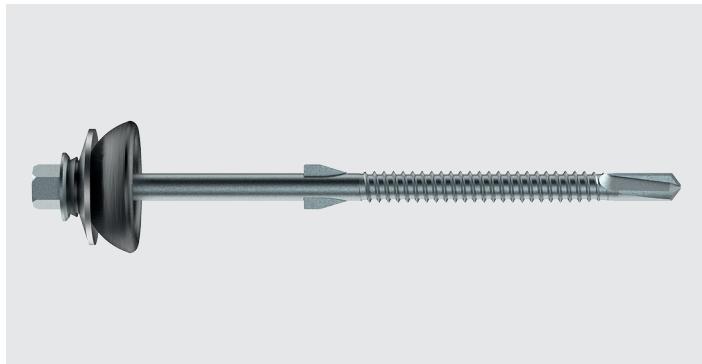
Product code	PU	L	KL	VD	
SC5/46-12CC-5,5x60	1000	60	29–45	5	1580102



Accessories/Ancillaries

Product code	PU	
T30-25-HEX1/4"	1	24010
Bit holder ZA1/4"	10	1162306

SCF8-6.3



Application

Fastening of fibre cement boards onto metal profiles

Fastening of fibre cement boards onto metal beams

Component 1 (t_1)

Fibre cement 2×6.50

Component 2 (t_{II})

Steel 1.50–8.0

$\Sigma_{\max} t_1 + t_{II}$

21.0

Fastener material

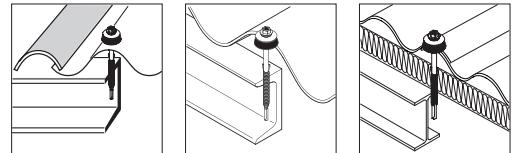
Carbon steel, Durocoat® 480

BAZ sealing element: Austenitic stainless steel A2, EPDM-seal

Approvals

Features and Benefits

- Self drilling fastener suitable for corrugated fibre cement boards
- High quality EPDM sealing element for long-term weather sealing
- No pre-drilling of fibre cement board required thanks to expanding wings
- High corrosion durability thanks to special galvanic zinc coating



Fastener in carbon steel onto steel

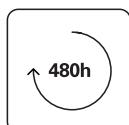
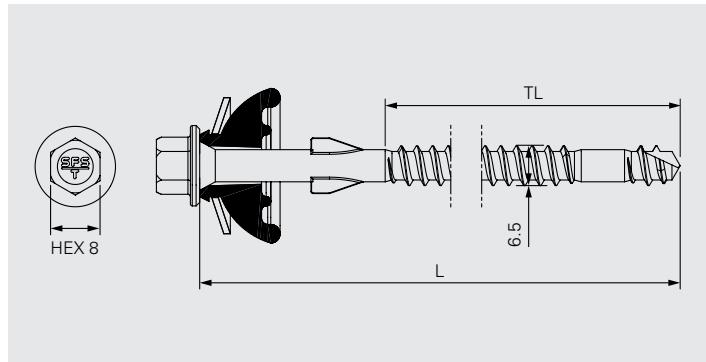
Product code	PU	L	KL	
SCF8-BAZ-6,3x115	100	115	46-89	1040101



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SCFW-6.5



Application

Fastening of fibre cement boards onto timber

Component 1 (t_1)

Fibre cement 2x6.50

Component 2 (t_{II})

Timber

≥ 57.0

$\Sigma_{\max} t_1 + t_{II}$

—

Fastener material

Carbon steel, Durocoat® 480

BAZ sealing element: Austenitic stainless steel A2, EPDM-seal

Approvals

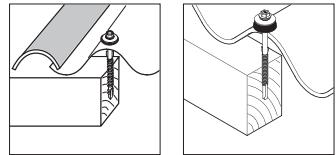


Features and Benefits

- Self drilling fastener suitable for corrugated fibre cement boards
- High quality EPDM sealing element for long-term weather sealing
- Fast installation thanks to the threaded drill point
- No pre-drilling of fibre cement board required thanks to expanding wings
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto timber

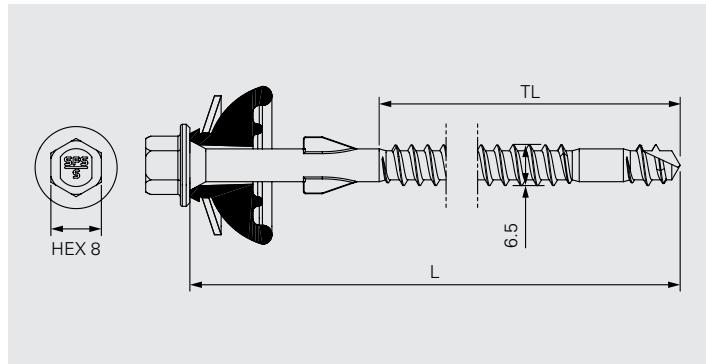
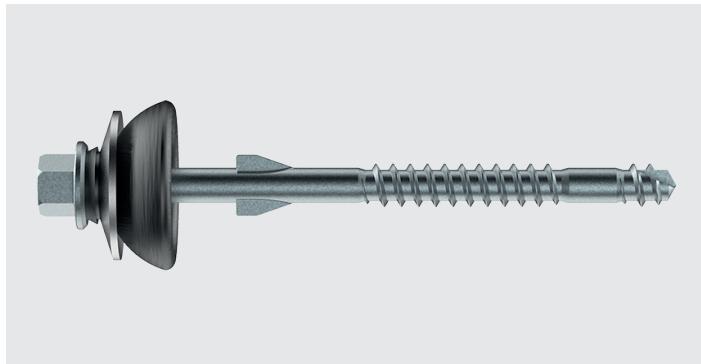
Product code	PU	L	TL	
SCFW-BAZ-6,5x95	100	95	50	297228
SCFW-BAZ-6,5x130	100	130	50	1506552



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SCFW-S-6.5



Application

Fastening of fibre cement boards onto timber

Component 1 (t_1)

Fibre cement 2x6.50

Component 2 (t_{II})

Timber

≥ 30.0

$\Sigma_{\max} t_1 + t_{II}$

—

Fastener material

Austenitic stainless steel A2

BAZ washer: Austenitic stainless steel A2, EPDM-seal

Approvals

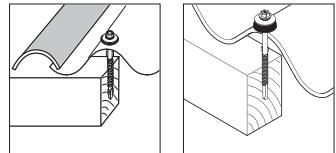


Features and Benefits

- Self drilling fastener suitable for corrugated fibre cement boards
- High quality EPDM sealing element for long-term weather sealing
- Fast installation thanks to the threaded drill point
- No pre-drilling of fibre cement board required thanks to expanding wings

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto timber

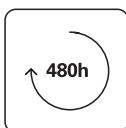
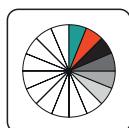
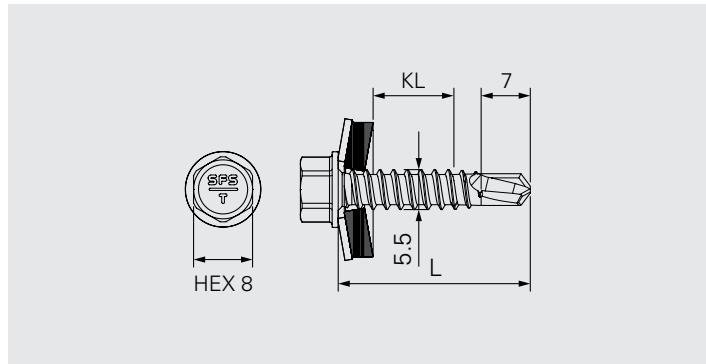
Product code	PU	L	TL	
SCFW-S-BAZ-6,5x130	100	130	50	53679



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SD3-5.5



Application

Fastening of profile sheets onto metal profiles

Fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 1.25–3.0	4.0
	Steel 2×0.63 –2.0	5.0

Fastener material

Carbon steel, Durocoat® 480

Approvals

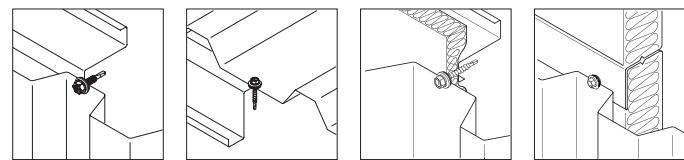


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

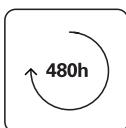
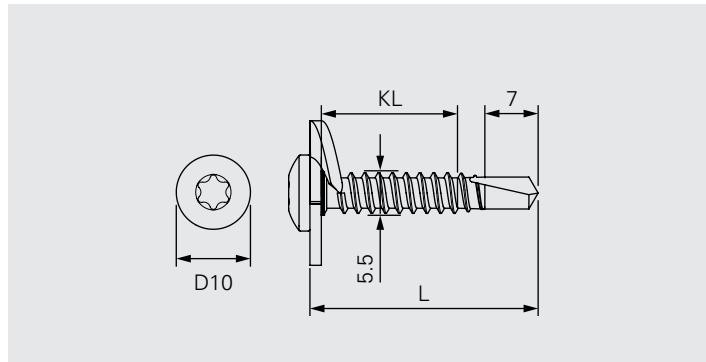
Product code	PU	L	KL	T16
SD3-T16-5,5x25	500	25	0-11	1506612
SD3-T16-5,5x45	500	45	0-31	1506617



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SD3-D10-5.5



Application

Fastening of single-ply insulated roof panels onto metal profiles

Component 1 (t_i)

Single-ply panel

Component 1 (t_i)	Component 2 (t_{II})	$\Sigma_{max} t_i + t_{II}$
Single-ply panel	Steel 1.25–3.0	4.0

Fastener material

Carbon steel, Durocoat® 480

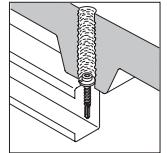
Cutting disc: Carbon steel

Approvals

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Features and Benefits

- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- High corrosion resistance thanks to special galvanic zinc coating
- Self coring fastener without disruption of the insulating material achieved by the cutting-washer



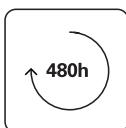
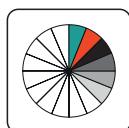
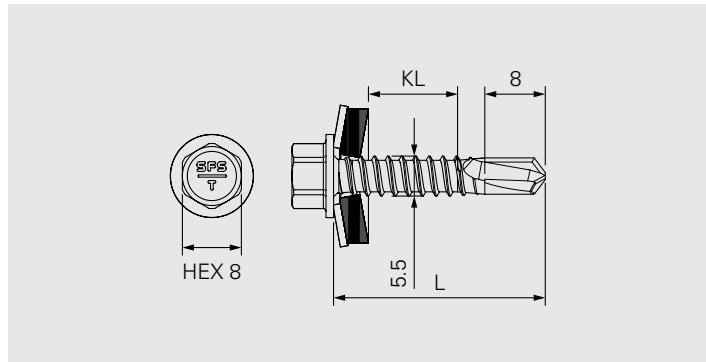
Fastener in carbon steel onto steel

Product code	PU	L	KL	TC
SD3-D10-T19/C9-5,5x30	500	30	0-16	733171



Accessories/Ancillaries

SD6-5.5



Application

Fastening of profile sheets onto metal profiles

Fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 1.50–5.0	6.0
–	Steel 2x1.0–3.0	5.0

Fastener material

Carbon steel, Durocoat® 480

Approvals

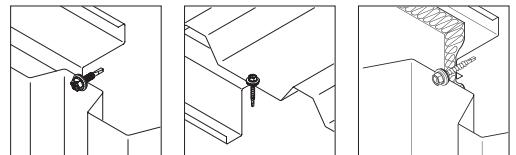


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



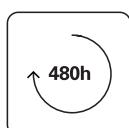
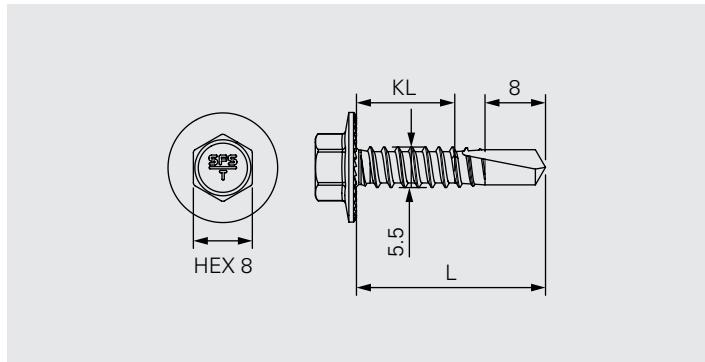
Fastener in carbon steel onto steel

Product code	PU	L	KL	T16
SD6-T16-5,5x28	500	28	0-13	1423084
SD6-T16-5,5x38	500	38	0-23	1423700



Accessories/Ancillaries

SD6-H15-5.5



Application

Fastening of metal decks onto metal profiles

Fastening of liner trays onto metal profiles

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 1.50–5.0	6.0
–	Steel 2x1.50–3.0	7.0

Fastener material

Carbon steel, Durocoat® 480

Approvals

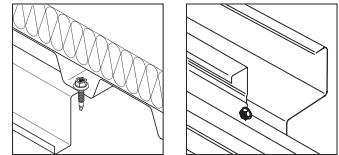


Features and Benefits

- Self drilling fastener suitable for installation of metal decks and liner trays
- Reduced risks of over driving and unwinding achieved by locking ribs
- High tension resistance achieved by optimized fastener geometry
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

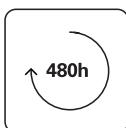
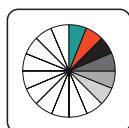
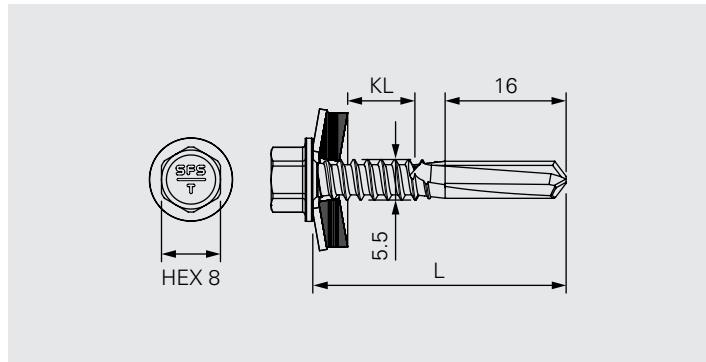
Product code	PU	L	KL	T16
SD6-H15-5,5x25	500	25	0–13	1422767



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SD14-5.5



Application

Fastening of profile sheets onto metal beams

Fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 4.0–12.0	13.50

Fastener material

Carbon steel, Durocoat® 480

Approvals

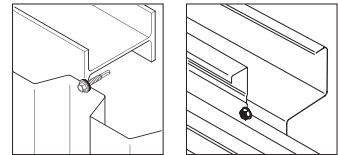


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- High performance drill point for heavy steel beams
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

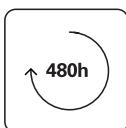
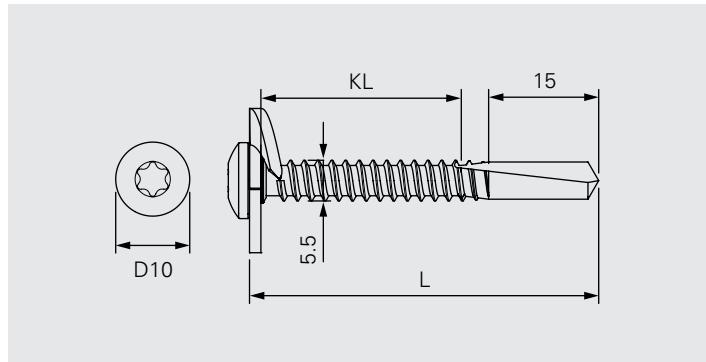
Product code	PU	L	KL	T16
SD14-T16-5,5x34	500	25	0-10	1423111
SD14-T16-5,5x48	500	48	0-24	1423120
SD14-T16-5,5x58	250	58	0-34	1423121



Accessories/Ancillaries

Product code	PU											
Socket E480	10											688056

SD14-D10-5.5



Application

Fastening of single-ply insulated roof panels onto metal beams

Component 1 (t_1)

Single-ply panel

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Single-ply panel	Steel 4.0–12.0	13.50

Fastener material

Carbon steel, Durocoat® 480

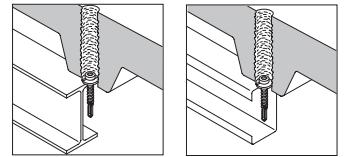
Cutting disc: Carbon steel

Approvals

—

Features and Benefits

- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- High performance drill point for heavy steel beams
- High corrosion resistance thanks to special galvanic zinc coating
- Self coring fastener without disruption of the insulating material achieved by the cutting washer



Fastener in carbon steel onto steel

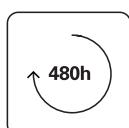
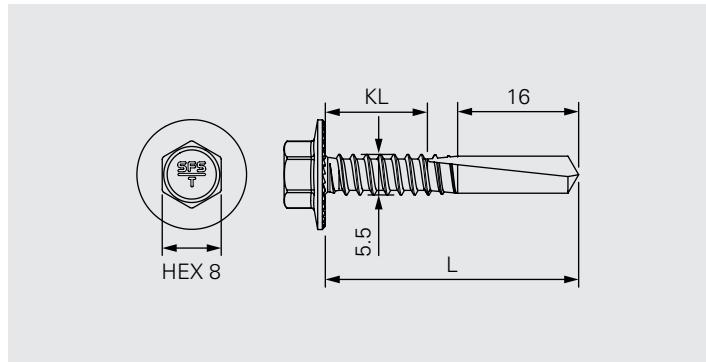
Product code	PU	L	KL	TC
SD14-D10-T19/C9-5,5x46	500	46	0–21	774650



Accessories/Ancillaries

Product code	PU	TC
T25W-175-HEX1/4"	5	727979

SD14-H15-5.5



Application

Fastening of metal decks onto metal beams

Fastening of liner trays onto metal beams

Component 1 (t_1)	Component 2 (t_{11})	$\Sigma_{\max} t_1 + t_{11}$
Steel 0.50–1.50	Steel 4.0–12.0	13.50

Fastener material

Carbon steel, Durocoat® 480

Approvals

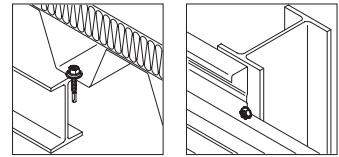


Features and Benefits

- Self drilling fastener suitable for installation of metal decks and liner trays
- Reduced risks of over driving and unwinding achieved by locking ribs
- High tension resistance achieved by optimized fastener geometry
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

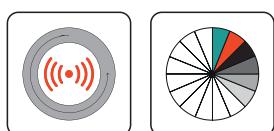
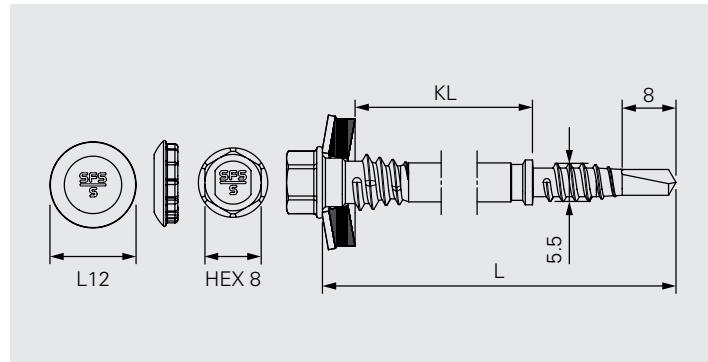
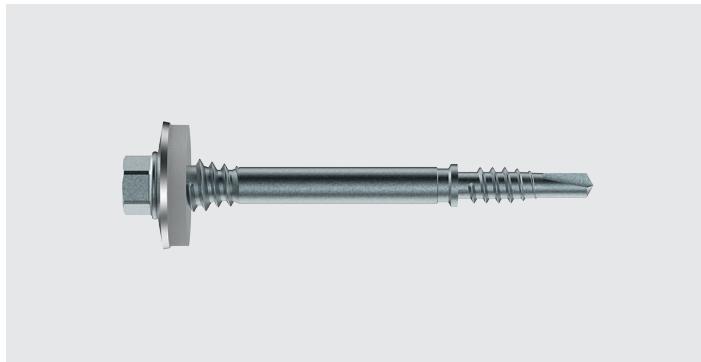
Product code	PU	L	KL	
SD14-H15-5,5x34	500	34	0–13	1420173



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SDC2-S-5.5



Application

Distance fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–2.0	Steel 0.63–2×1.25	–
Aluminium 0.80–2.0	Steel 0.63–2×1.25	–

Fastener material

Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

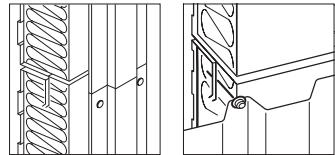


Features and Benefits

- Self drilling fastener suitable for installation of metal profile sheets at a set distance from liner trays
- Perfect supporting of the metal sheet given by support thread with cut-off thread-end
- Precisely fastening distance given by the flange on the shank
- No torque control required given by free-spin zone
- High shear resistance achieved by optimized fastener geometry
- High quality EPDM sealing washer for long-term weather sealing
- Secured against unwinding given by cut-off thread-end

Documentation

Installation instruction | Technical Data



Fastener in A2 onto steel

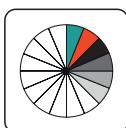
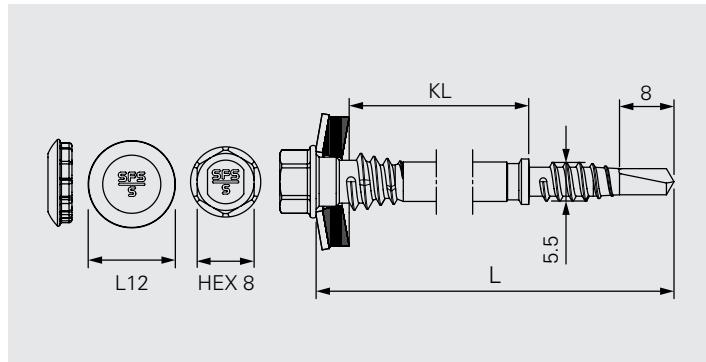
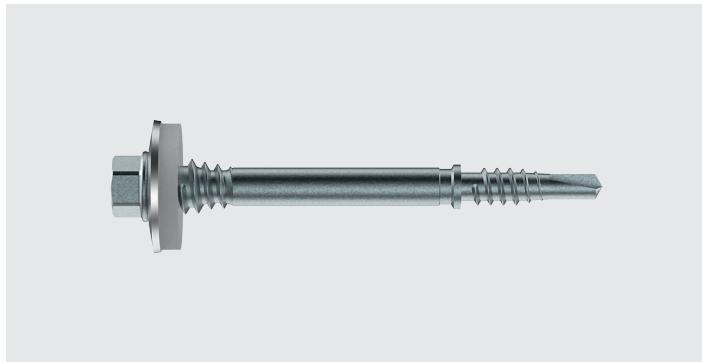
Product code	PU	L	KL/ Insulation	Cassette (t_{ii}) substructure	S16
SDC2-S-S16-5,5x64	100	64	40	0.63–2.50	1134176
SDC2-S-S16-5,5x104	250	104	80	0.63–2.50	1478861



Accessories/Ancillaries

Product code	PU	L	
Socket E480	10		688056
Driller HSS-6,5	10	101/63	893457

SDC3-S-5.5



Application

Distance fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–2.0	Steel 0.63–2×1.50	–
Aluminium 0.80–2.0	Steel 0.63–2×1.50	–

Fastener material

Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

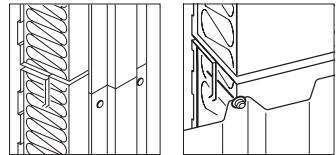


Features and Benefits

- Self drilling fastener suitable for installation of metal profile sheets at a set distance from liner trays
- Perfect supporting of the metal sheet given by support thread with cut-off thread-end
- Precisely fastening distance given by the flange on the shank
- No torque control required given by free-spin zone
- High shear resistance achieved by optimized fastener geometry
- High quality EPDM sealing washer for long-term weather sealing
- Secured against unwinding given by cut-off thread-end

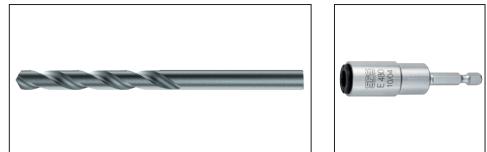
Documentation

Installation instruction | Technical Data



Fastener in A2 onto steel

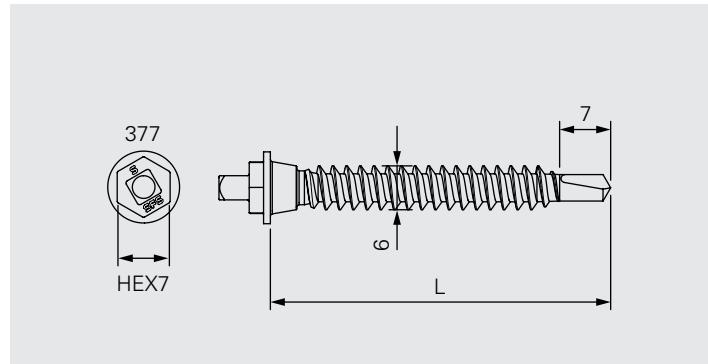
Product code	PU	L	KL/ Insulation	Cassette (t_{ii}) substructure	S16
SDC3-S-S16-5,5x64	100	64	40	0.63–3.0	1526645
SDC3-S-S16-5,5x104	250	104	80	0.63–3.0	1541205



Accessories/Ancillaries

Product code	PU	L	
Socket E480	10		688056
Driller HSS-6,5	10	101/63	893457

SDK2-S-6.0



Application

Fastening of standing seam clips onto metal decks

Fastening of standing seam clips onto timber

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Clip ≥5.0	Steel 0.75–1.25	–
Clip ≥5.0	Aluminium 0.90–2.50	–
Clip ≥5.0	Timber ≥18.0	–

Fastener material

Austenitic stainless steel A2

Approvals

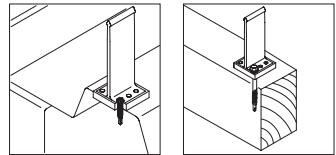


Features and Benefits

- Self drilling fastener suitable for installation of standing seam clips
- Safe against over-driving of the fastener onto thin steel sheets and timber substructure
- No torque control required given by breaking-off square drive
- Reduced risks of over driving and unwinding thanks to clamping-cone
- High tension resistance achieved by optimized fastener geometry

Documentation

Installation instruction | Technical Data



Fastener in A2 onto steel, aluminium and timber

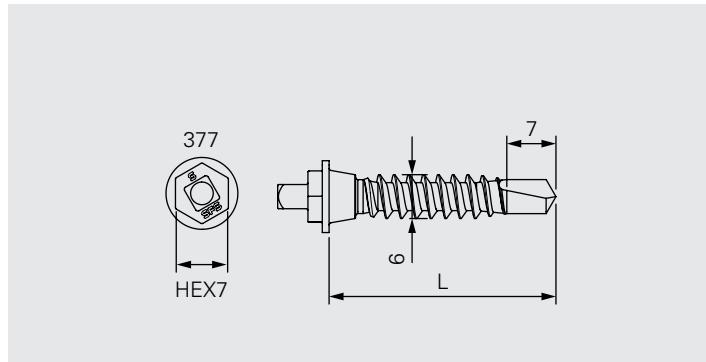
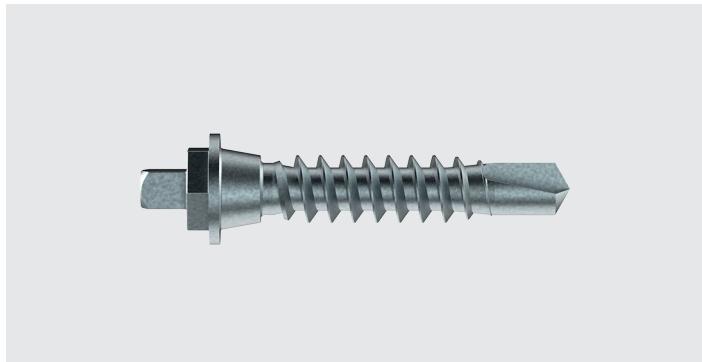
Product code	PU	L	Clip onto steel	Clip onto timber	
SDK2-S-377-6,0x35	250	35	5-17	—	931981
SDK2-S-377-6,0x45	250	45	5-27	—	950490
SDK2-S-377-6,0x60	250	60	5-42	5-18	1071714



Accessories/Ancillaries

Product code	PU	L	
Adapter DS-K185	1	185	1429676
Adapter DS-K265	1	265	1429117

SDK3-S-6.0



Application

Fastening of standing seam clips onto metal profiles

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Clip ≥5.0	Steel 1.50–2.50	–
Clip ≥5.0	Aluminium 1.80–3.0	–

Fastener material

Austenitic stainless steel A2

Approvals

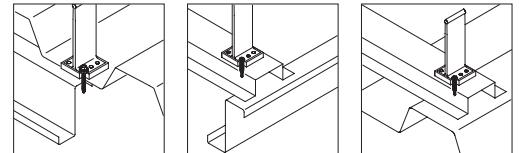


Features and Benefits

- Self drilling fastener suitable for installation of standing seam clips
- Safe against over-driving of the fastener onto thin steel sheets
- No torque control required given by breaking-off square drive
- Reduced risks of over driving and unwinding thanks to clamping-cone
- High tension resistance achieved by optimized fastener geometry

Documentation

Installation instruction | Technical Data



Fastener in A2 onto steel and aluminium

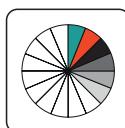
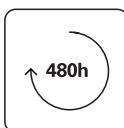
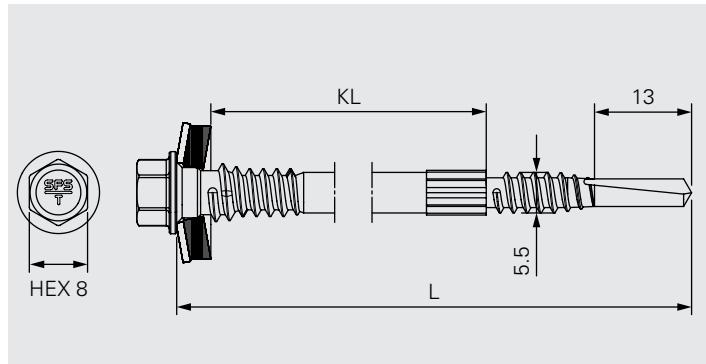
Product code	PU	L	Clip onto steel	
SDK3-S-377-6,0x30	250	30	5-12	1291699
SDK3-S-377-6,0x45	250	45	5-27	1291698



Accessories/Ancillaries

Product code	PU	L	
Adapter DS-K185	1	185	1429676
Adapter DS-K265	1	265	1429117

SDRT2-5.5



Application

Distance fastening of profile sheets onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 0.75–2×1.50	–
Aluminium 0.80–1.50	Steel 0.75–2×1.50	–

Fastener material

Carbon steel, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Approvals

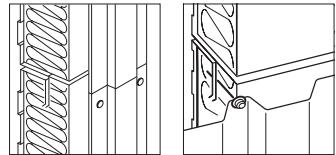


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets at a set distance from liner trays
- No pre-drilling of metal sheet required thanks to the knurl on the shank
- Perfect supporting of the metal sheet given by support thread with cut-off thread-end
- Precisely fastening distance given by the knurl on the shank
- No torque control required given by free-spin zone
- High corrosion durability thanks to special galvanic zinc coating
- High quality EPDM sealing washer for long-term weather sealing
- Secured against unwinding given by cut-off thread-end
- High shear resistance achieved by optimized fastener geometry

Documentation

Installation instruction | Technical Data



Fastener in carbon steel onto steel

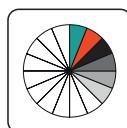
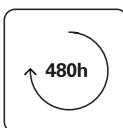
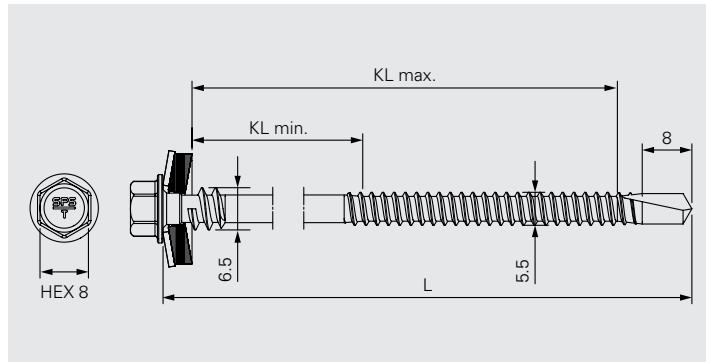
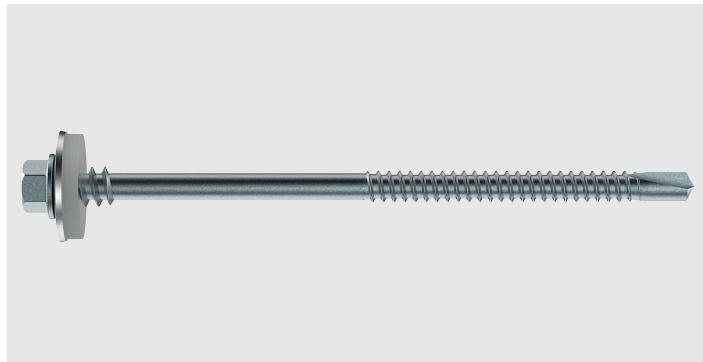
Product code	PU	L	KL/ Insulation	Cassette (t_{II}) substructure	T16
SDRT2-T16-5,5x69	250	69	40	0.63–2.50	1580868
SDRT2-T16-5,5x89	100	89	60	0.63–2.50	1576185
SDRT2-T16-5,5x109	100	109	80	0.63–2.50	1524405



Accessories/Ancillaries

Product code	PU	L	
Socket E480	10		688056

SDT5-5.5



Application

Fastening of sandwich panels onto metal profiles

Component 1 (t_i)

Sandwich panel

Component 1 (t_i)	Component 2 (t_{II})	$\Sigma_{max} t_i + t_{II}$
Sandwich panel	Steel 1.50–4.0	5.0

Fastener material

Carbon steel, Durocoat® 480

Sealing washer: Aluminium, EPDM-seal

Approvals

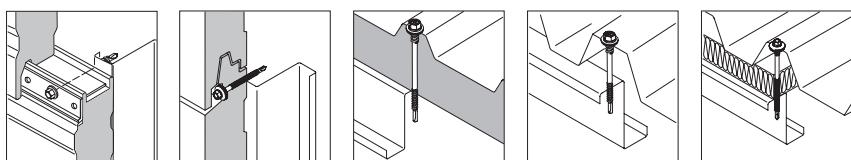


Features and Benefits

- Self drilling fastener suitable for installation of sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High corrosion resistance thanks to special galvanic zinc coating

Documentation

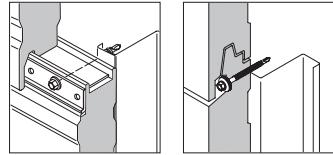
Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

Product code	PU	L	KL	D _{Steel}	A19
SDT5-A19-5,5x68	100	68	33-50	33-45	1423940
SDT5-A19-5,5x88	100	88	43-70	43-65	1423943
SDT5-A19-5,5x108	100	108	53-90	53-85	1423950
SDT5-A19-5,5x128	100	128	73-110	73-105	1423954
SDT5-A19-5,5x148	100	148	93-130	93-125	1423960
SDT5-A19-5,5x178	100	178	113-160	113-155	1424449
SDT5-A19-5,5x208	100	208	143-190	143-185	1424466
SDT5-A19-5,5x238	100	238	173-220	173-215	1424468
SDT5-A19-5,5x278	100	278	213-260	213-255	1424469

Without
approval



Fastener in carbon steel onto steel

Product code	PU	L	KL	D _{Steel}	No washer
SDT5-5,5x68	100	68	36–53	36–48	1423939
SDT5-5,5x88	100	88	46–73	46–68	1423941
SDT5-5,5x108	100	108	56–93	56–88	1423949
SDT5-5,5x128	100	128	76–113	76–108	1423955
SDT5-5,5x148	100	148	93–133	96–128	1423957
SDT5-5,5x178	100	178	116–163	116–158	1525261
SDT5-5,5x208	100	208	146–193	146–188	1525262
SDT5-5,5x238	100	238	176–223	176–218	1525263
SDT5-5,5x278	100	278	216–263	216–258	1466263

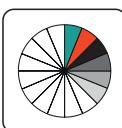
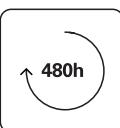
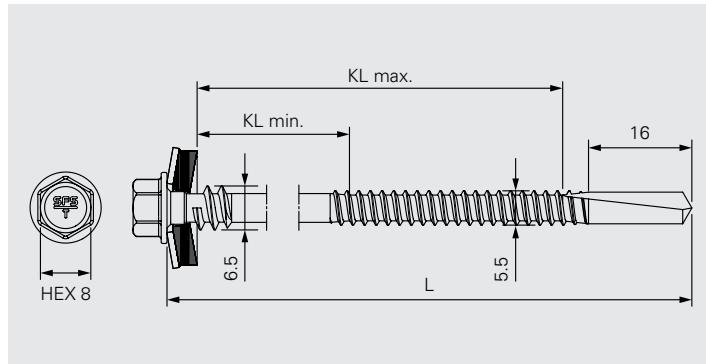
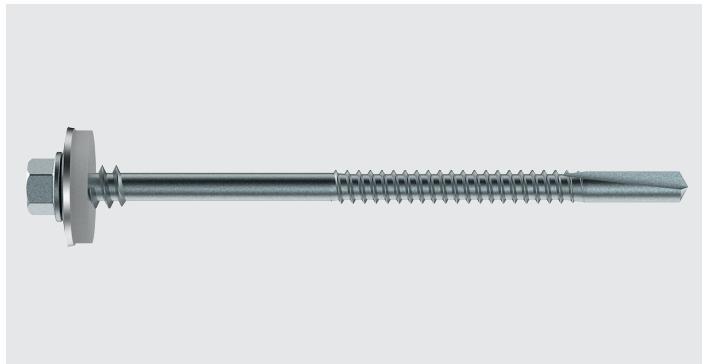
D_{Steel} Calculated with load bearing clamping length in steel ≥ 3 mm, sealing tape ≤ 2 mm



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SDT14-5.5



Application

Fastening of sandwich panels onto steel beams

Component 1 (t_i)

Sandwich panel

Component 2 (t_{II})

Steel

4.0–12.0

$\Sigma_{\max} t_i + t_{II}$

14.0

Fastener material

Carbon steel, Durocoat® 480

Sealing washer: Aluminium, EPDM-seal

Approvals

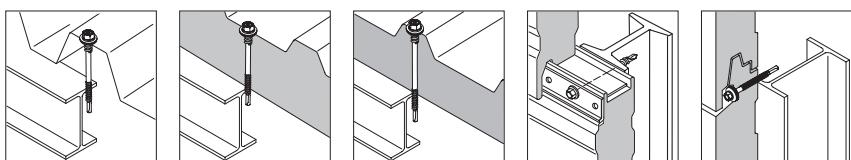


Features and Benefits

- Self drilling fastener suitable for installation of sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- High performance drill point for heavy steel beams
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High corrosion resistance thanks to special galvanic zinc coating

Documentation

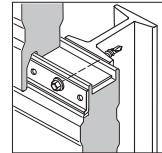
Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

Product code	PU	L	KL	D _{Steel}	A19
SDT14-A19-5,5x78	100	78	33-52	33-44	1422750
SDT14-A19-5,5x98	100	98	43-72	43-64	1423712
SDT14-A19-5,5x118	100	118	53-92	53-84	1423880
SDT14-A19-5,5x138	100	138	73-112	73-104	1423882
SDT14-A19-5,5x158	100	158	93-132	93-124	1423884
SDT14-A19-5,5x188	100	188	113-162	113-154	1424470
SDT14-A19-5,5x218	100	218	143-192	143-184	1424471
SDT14-A19-5,5x248	100	248	173-222	173-214	1424472
SDT14-A19-5,5x288	100	288	213-262	213-254	1424498
SDT14-A19-5,5x348	100	348	273-322	273-314	1465147

Without
approval



Fastener in carbon steel onto steel

Product code	PU	L	KL	D _{Steel}	No washer
SDT14-5,5x78	100	78	36–55	36–47	1422748
SDT14-5,5x98	100	98	46–75	46–67	1423711
SDT14-5,5x118	100	118	56–95	56–87	1423879
SDT14-5,5x138	100	138	76–115	76–107	1423881
SDT14-5,5x158	100	158	96–135	96–127	1423883
SDT14-5,5x188	100	188	116–165	116–157	1480356
SDT14-5,5x218	100	218	146–195	146–187	1491056
SDT14-5,5x248	100	248	176–225	176–217	1491057
SDT14-5,5x288	100	288	216–265	216–257	1491059
SDT14-5,5x348	100	348	276–325	276–317	1476752

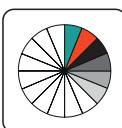
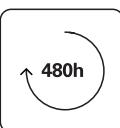
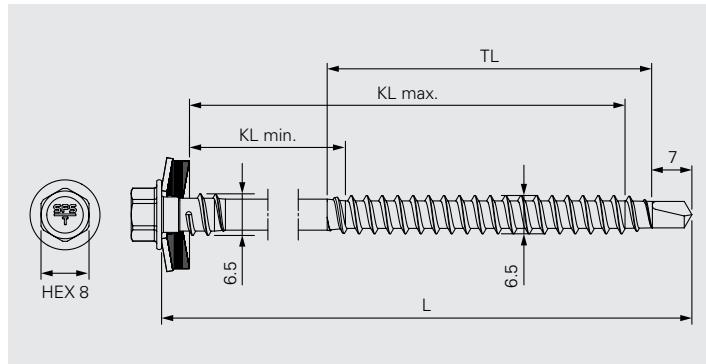
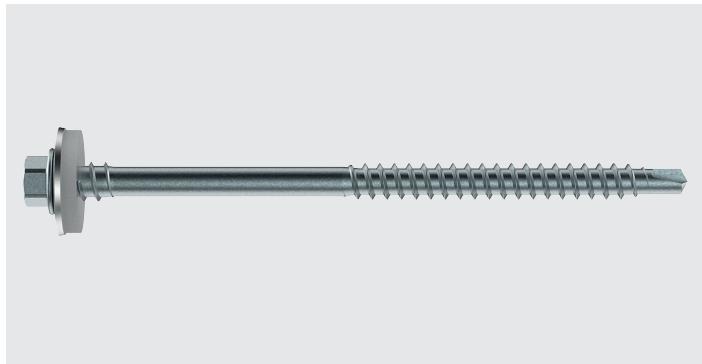
D_{Steel} Calculated with load bearing clamping length in steel ≥6 mm, sealing tape ≤2 mm



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SDTW-5.5



Application

Fastening of sandwich panels onto timber

Component 1 (t_1)

Sandwich panel

Component 2 (t_{II})

Timber

$\Sigma_{\max} t_1 + t_{II}$

≥ 35.0

Fastener material

Carbon steel, Durocoat® 480

Sealing washer: Aluminium, EPDM-seal

Approvals

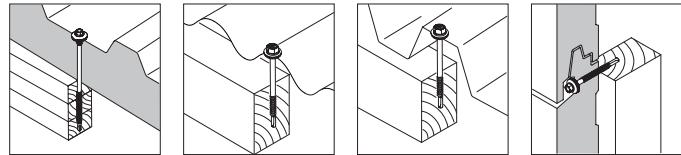


Features and Benefits

- Self drilling fastener suitable for installation of sandwich panels onto timber
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- Reduced risks of timber splitting given by the drill point
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High corrosion resistance thanks to special galvanic zinc coating

Documentation

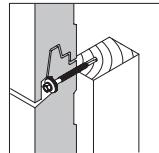
Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto timber

Product code	PU	L	KL	TL	D _{Timber}	A19
SDTW-A19-5,5x75	100	75	20–66	50	0–31	937840
SDTW-A19-5,5x115	100	115	45–106	65	27–71	911329
SDTW-A19-5,5x125	100	125	55–116	65	37–81	937842
SDTW-A19-5,5x135	100	135	65–126	65	47–91	937845
SDTW-A19-5,5x150	100	150	80–141	65	62–106	1222803

Without approval



Fastener in carbon steel onto timber

Product code	PU	L	KL	TL	D _{Timber}	No washer
SDTW-5,5x75	100	75	23–69	50	0–34	743764
SDTW-5,5x115	100	115	48–109	65	30–74	1047815
SDTW-5,5x125	100	125	58–119	65	40–84	1346440
SDTW-5,5x135	100	135	68–129	65	50–94	701545
SDTW-5,5x150	100	150	83–144	65	65–109	1237209

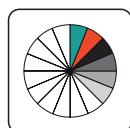
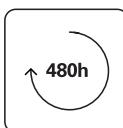
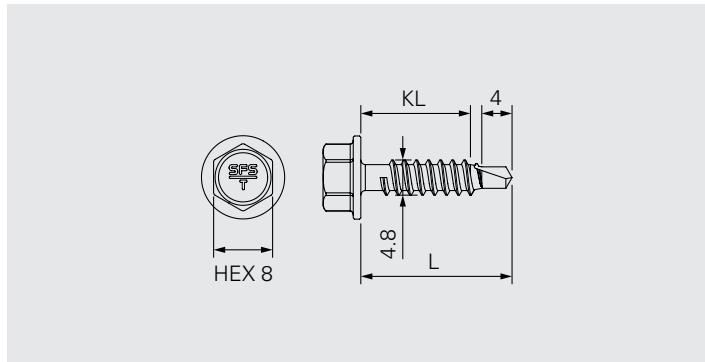
D_{Timber} Calculated with effective embedment depth in timber ≥35 mm, sealing tape ≤3 mm and embedment depth of the fastener shank in timber ≤14 mm



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL2-4.8



Application

Fastening of overlaps of metal decks

Fastening of overlaps of liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel 0.63–1.50	Steel 0.63–1.50	3.0

Fastener material

Carbon steel, Durocoat® 480

Approvals

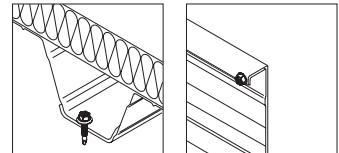


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

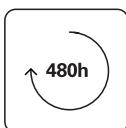
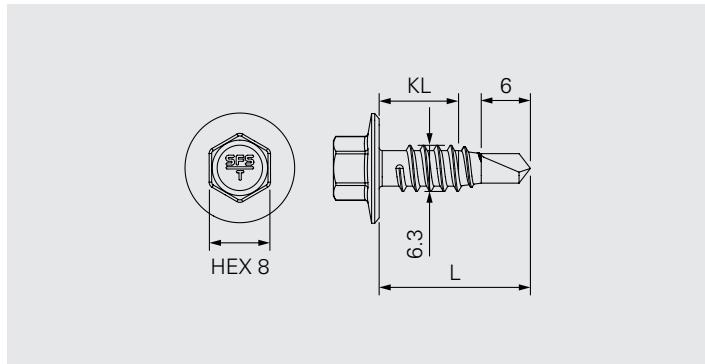
Product code	PU	L	KL	
SL2-4,8x20	1000	20	1.20–2.50	482671



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SL2-H15-6.3



Application

Fastening of overlaps of metal decks

Fastening of overlaps of liner trays

Component 1 (t_1)

Steel

0.63–1.50

Component 2 (t_{II})

Steel

0.63–1.50

$\Sigma_{\max} t_1 + t_{II}$

3.0

Fastener material

Carbon steel, Durocoat® 480

Approvals

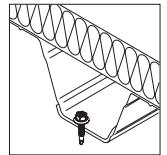


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end and free-spin zone
- High tension and shear resistance achieved by optimized H15 head flange and fastener geometry
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

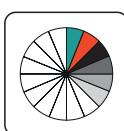
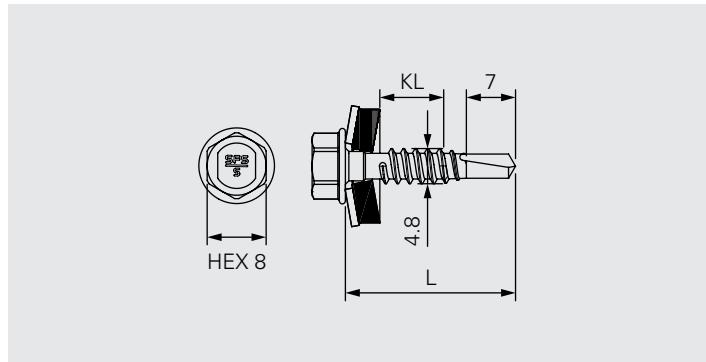
Product code	PU	L	KL	
SL2-H15-6,3x20	500	32	1.20–2.50	943791



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SL2-S-4.8



Application

- Fastening of overlaps of profile sheets
- Fastening of overlaps of sandwich panels
- Fastening of flashings onto sandwich panels
- Fastening of flashings onto profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.40–1.50	Steel 0.40–1.50	3.0
Steel 2×0.63–0.88	Steel 2×0.63–0.88	3.60

Fastener material

- Austenitic stainless steel A2
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

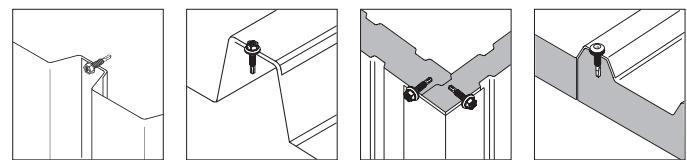


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- High quality EPDM sealing washer for long-term weather sealing

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel

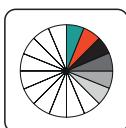
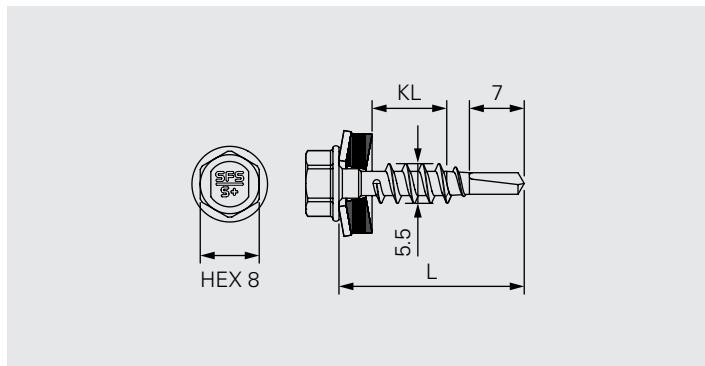
Product code	PU	L	KL	S14	S16	S19
SL2-S-S14-4,8×22	250	22	0.80–2.50	1158560	1082912	1021182



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL2-S-5.5



Application

- Fastening of overlaps of profile sheets
- Fastening of overlaps of sandwich panels
- Fastening of flashings onto sandwich panels
- Fastening of flashings onto profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.40–1.50	Steel 0.40–1.50	3.0
Aluminium 0.50–1.50	Aluminium 0.50–1.50	3.0

Fastener material

- Austenitic stainless steel A4
Sealing washer: Austenitic stainless steel A4, EPDM-seal

Approvals



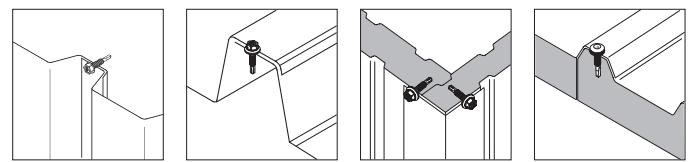
ETA-10/0198

Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- High quality EPDM sealing washer for long-term weather sealing

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A4 onto steel and aluminium

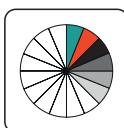
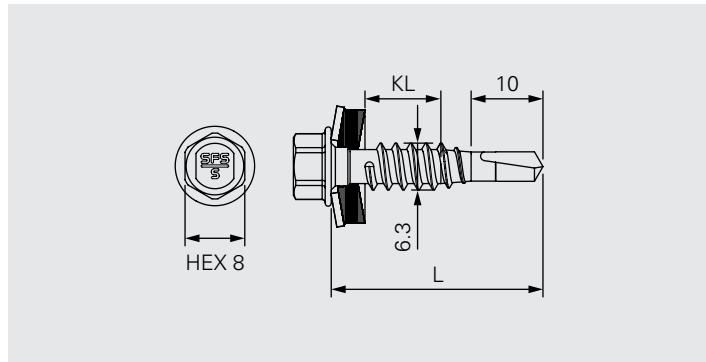
Product code	PU	L	KL	S14
SL2-S-S14/A4-5,5x25-A4	250	25	0.80–2.50	1585156



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL2-S-6.3



Application

- Fastening of overlaps of profile sheets
- Fastening of overlaps of sandwich panels
- Fastening of flashings onto sandwich panels
- Fastening of flashings onto profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.40–1.50	Steel 0.40–1.50	3.0
Aluminium 0.50–1.50	Aluminium 0.50–1.50	3.0

Fastener material

- Autenitic stainless steel A2
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals



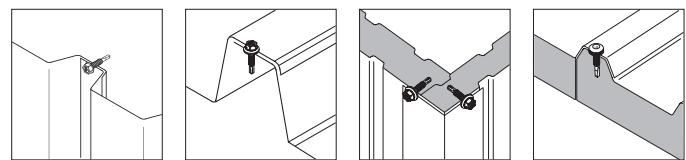
ETA-10/0198

Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- High quality EPDM sealing washer for long-term weather sealing

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel and Aluminium

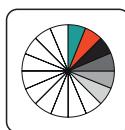
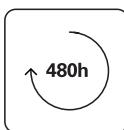
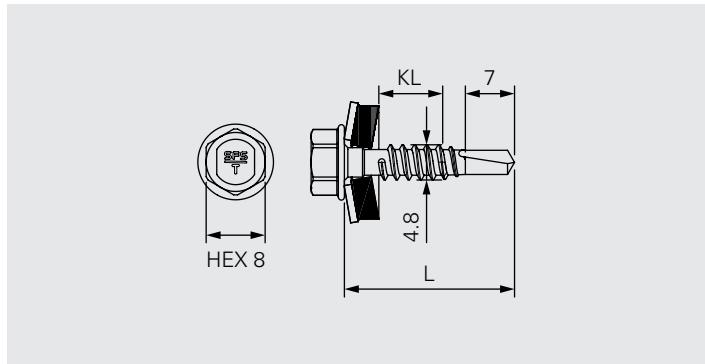
Product code	PU	L	KL	S14	S16	S19
SL2-S-S14-6,3×28	500	28	0.80–2.50	1210627	1133512	1133511



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL2-T-4.8



Application

- Fastening of overlaps of profile sheets
- Fastening of overlaps of sandwich panels
- Fastening of flashings onto sandwich panels
- Fastening of flashings onto profile sheets

Component 1 (t_1)

Steel 0.40–1.50

Component 2 (t_{II})

Steel 0.40–1.50

$\Sigma_{\max} t_1 + t_{II}$

3.0

Fastener material

- Carbon steel, Durocoat® 480
Sealing washer: Aluminium, EPDM-seal

Approvals

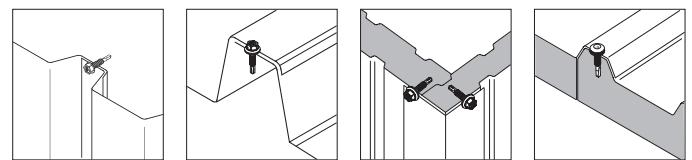


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- High corrosion durability thanks to special galvanic zinc coating
- High quality EPDM sealing washer for long-term weather sealing

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

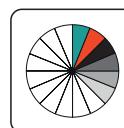
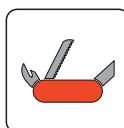
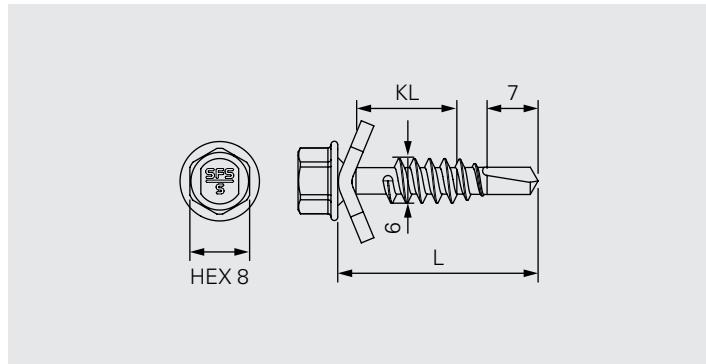
Product code	PU	L	KL	A14
SL2-T-A14-4,8x20	250	20	0.80–2.50	3041



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL3/2-5-S-SV16-6.0



Application

Fastening of metal profiles onto sandwich panels
Fastening of metal profiles onto profile sheets
Fastening of metal profiles onto metal decks
Fastening of metal profiles onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel Aluminium	1.0–2.0 1.50–3.0	Steel Steel
		0.63–2×0.90 0.63–2×0.90
		3.80 4.80

Fastener material

Austenitic stainless steel A2/A4
Curved disc: Austenitic stainless steel A2/A4

Approvals

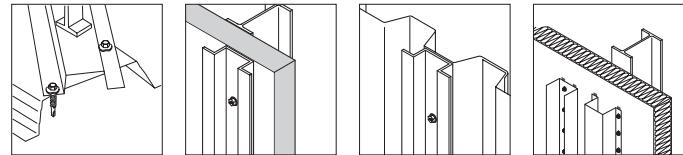


Features and Benefits

- Self drilling fastener suitable for installation of metal profiles onto thin metal sheets
- High clamping range with clamping force independent of the clamping thickness given by the spring washer
- Secured against unwinding given by cut-off thread-end
- No torque control required given by free-spin zone
- High tension and shear resistance achieved by optimized fastener geometry

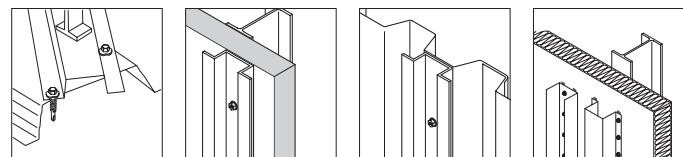
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel and aluminium

Product code	PU	L	KL _{Steel}	KL _{Alu}	SV16
SL3/2-5-S-SV16-6x27	500	27	1.90–4.80	2.30–4.80	1071554



Fastener in A4 onto steel and aluminium

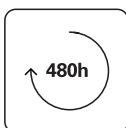
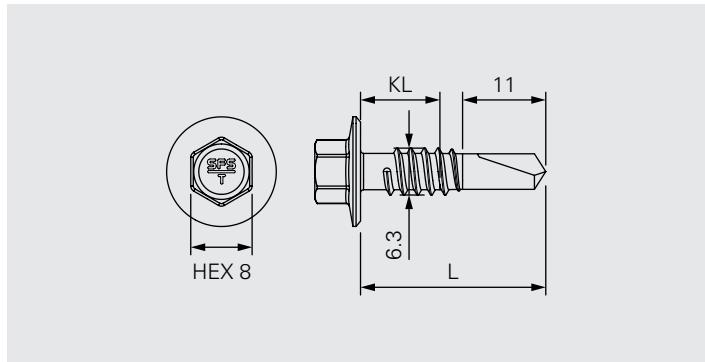
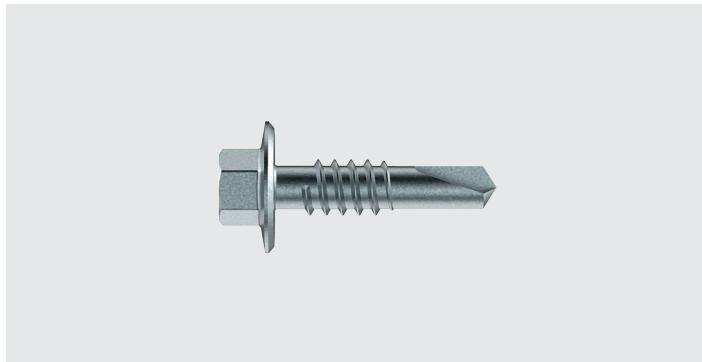
Product code	PU	L	KL _{Steel}	KL _{Alu}	SV16
SL3/2-5-S-SV16-6x27-A4	500	27	1.90–4.80	2.30–4.80	1426185



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SL3-H15-6.3



Application

Fastening of overlaps of metal decks
Fastening of metal profiles onto profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 1.0–2.0	Steel 1.0–2.0	3.50

Fastener material

Carbon steel, Durocoat® 480

Approvals

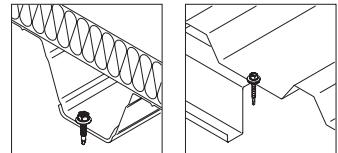


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end and free-spin zone
- High tension and shear resistance achieved by optimized H15 head flange and fastener geometry
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

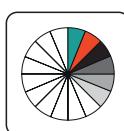
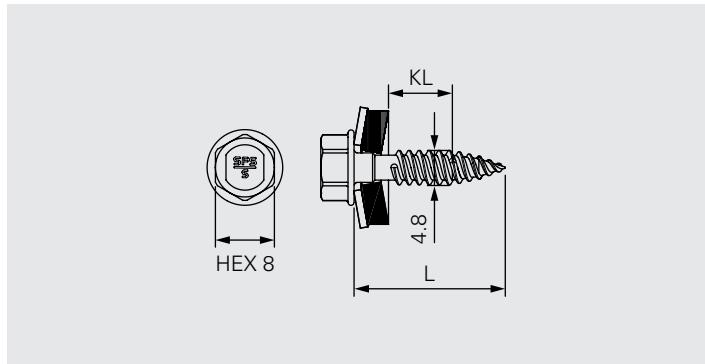
Product code	PU	L	KL	
SL3-H15-6,3x24	500	24	2.0–3.50	984607
SL3-H15-6,3x32	500	32	2.0–3.60	3615



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056

SLG-S-4.8



Application

Fastening of overlaps of profile sheets
Fastening of overlaps of sandwich panels
Fastening of flashings onto sandwich panels
Fastening of flashings onto profile sheets

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.40–1.0	Steel 0.40–1.0	2.0

Fastener material

Austenitic stainless steel A2
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

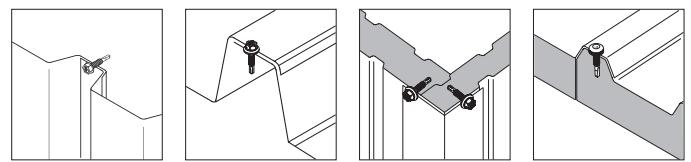


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- Fast and chip-free installation thanks to the Speed-Point
- No scratches on painted metal surfaces thanks to the sharp Speed-Point
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- Cost saving installation due to post-cleaning of chips no longer necessary
- High quality EPDM sealing washer for long-term weather sealing
- High tension resistance achieved by optimized fastener geometry

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel

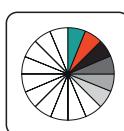
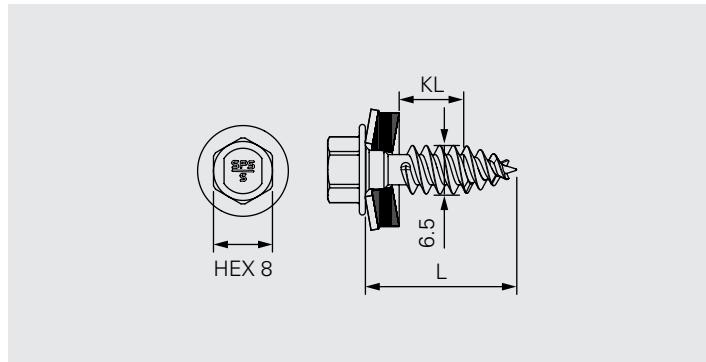
Product code	PU	L	KL	S14	S16	A14	
SLG-S-S14-4,8x20	250	20	0.80–2.0		1351313	1378614	1378615



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SLG-S-6.5



Application

Fastening of metal profiles onto sandwich panels
Fastening of metal profiles onto profile sheets
Fastening of metal profiles onto metal decks
Fastening of metal profiles onto liner trays

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel predrilled	1.50–5.0	Steel 0.50–2×1.0
Alu predrilled	1.50–5.0	Steel 0.50–2×1.0
Steel	0.40–1.0	Steel 0.40–1.0

Fastener material

Austenitic stainless steel A2
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

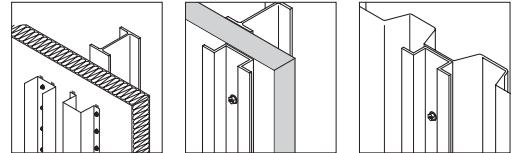


Features and Benefits

- Self drilling fastener suitable for installation of pre-punched metal profiles onto thin metal sheets
- High quality EPDM sealing washer for long-term weather sealing
- Fast and chip-free installation thanks to the Speed-Point
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- Cost saving installation due to post-cleaning of chips no longer necessary
- High tension resistance achieved by optimized fastener geometry

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel

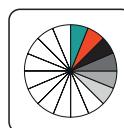
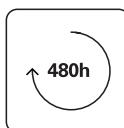
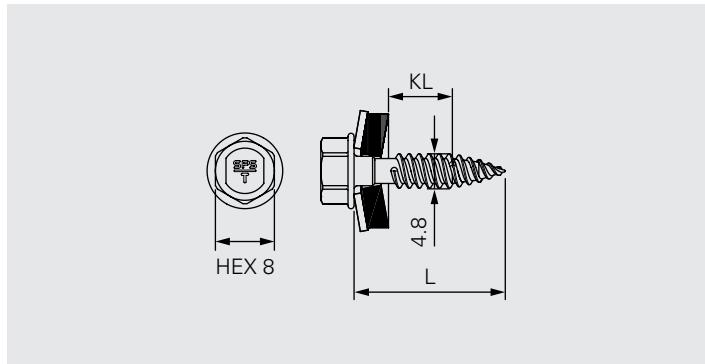
Product code	PU	L	KL	Pre-drill Ø	No washer	S14	S16
SLG/0-2-S-S14-6,5x20	250	20	0-2	–	–	1492629	–
SLG/2-5-S-6,5x20	250	20	2-5	6.50-7.20	1468117	–	–
SLG/4-6-S-S16-6,5x24	1000	24	4-6	6.50-7.20	–	–	1479743



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SLG-T-4.8



Application

Fastening of overlaps of profile sheets
Fastening of overlaps of sandwich panels
Fastening of flashings onto sandwich panels
Fastening of flashings onto profile sheets

Component 1 (t_1)

Steel

Component 2 (t_{II})

Steel

0.40–1.0

0.40–1.0

$\Sigma_{\max} t_1 + t_{II}$

2.0

Fastener material

Carbon steel, Durocoat® 480
Sealing washer: Aluminium, EPDM-seal

Approvals

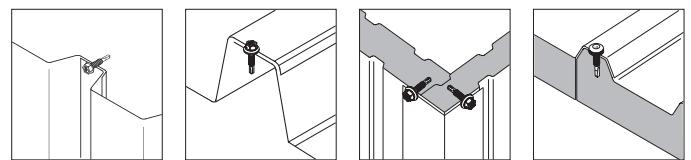


Features and Benefits

- Self drilling fastener suitable for fastening of overlaps and flashings
- Fast and chip-free installation thanks to the Speed-Point
- No scratches on painted metal surfaces thanks to the sharp Speed-Point
- No torque control required given by free-spin zone
- Secured against unwinding given by cut-off thread-end
- Cost saving installation due to post-cleaning of chips no longer necessary
- High quality EPDM sealing washer for long-term weather sealing
- High corrosion durability thanks to special zinc coating
- High tension resistance achieved by optimized fastener geometry

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto steel

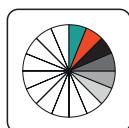
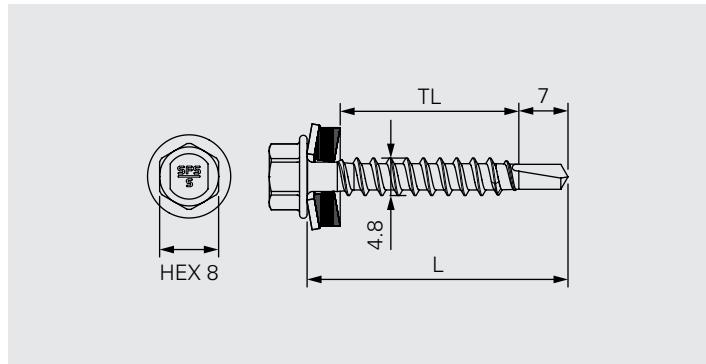
Product code	PU	L	KL	A14
SLG-T-A14-4,8×20	250	20	0.80–2.0	1385274



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SW2-S-4.8



Application

Fastening of profile sheets onto timber

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–1.50	Timber ≥ 25.0	–
Aluminium 0.50–1.50	–	–

Fastener material

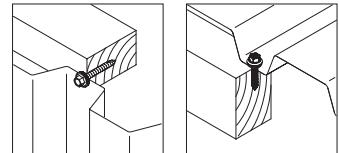
Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- Reduced risks of timber splitting given by the drill point



Fastener in A2 onto timber

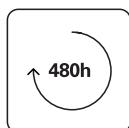
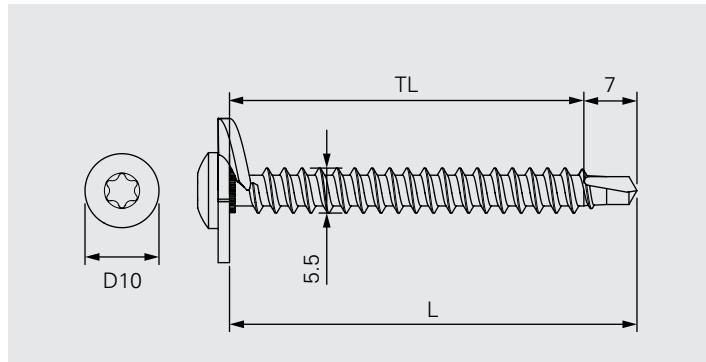
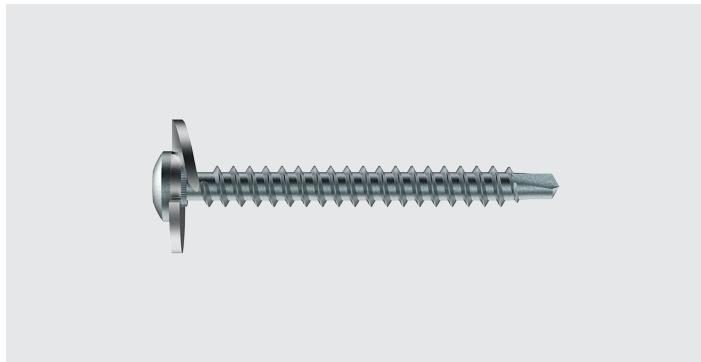
Product code	PU	L	TL	S14
SW2-S-S14-4,8x35-A2	250	35	25	755834



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SW2-T-D10-5.5



Application

Fastening of single-ply insulated roof panels onto timber

Component 1 (t_i)

Single-ply panel

Component 2 (t_{ii})

Timber

$\Sigma_{\max} t_i + t_{ii}$

Fastener material

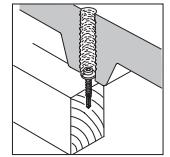
Carbon steel, Durocoat® 480

Cutting disc: Carbon steel

Approvals

Features and Benefits

- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- Reduced risks of timber splitting given by the drill point
- High corrosion resistance thanks to special galvanic zinc coating
- Self coring fastener without disruption of the insulating material achieved by the cutting-washer



Fastener in carbon steel onto timber

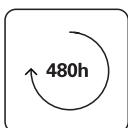
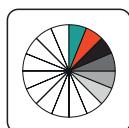
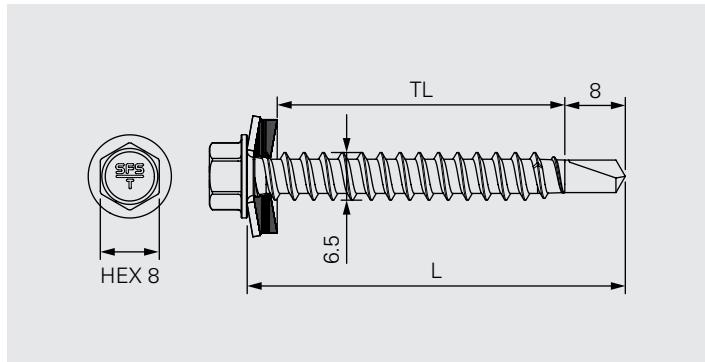
Product code	PU	L	TL	TC
SW2-T-D10-T19/C9-5,5x55	500	55	47	1178371



Accessories/Ancillaries

Product code	PU		
T25W-175-HEX1/4"	5		727979

SW3-T-6.5



Application

Fastening of profile sheets onto timber

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel 0.50–1.50	Timber ≥ 35.0	–

Fastener material

Carbon steel with Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Approvals

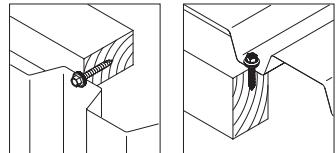


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- Reduced risks of timber splitting given by the drill point
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto timber

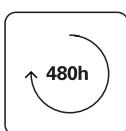
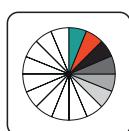
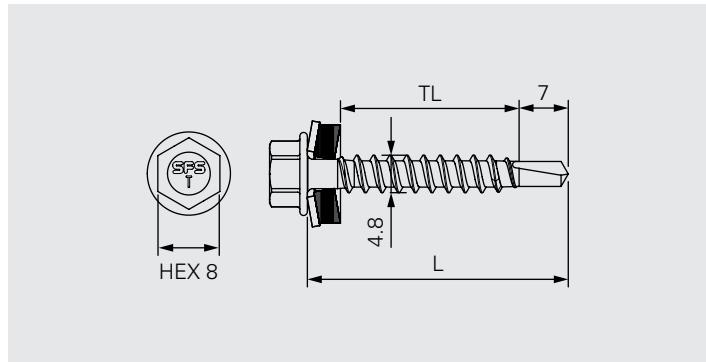
Product code	PU	L	TL	T16
SW3-T-T16-6,5x50	250	50	40	71056



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SW-T-4.8



Application

Fastening of profile sheets onto timber

Component 1 (t_1)

	t_1	t_{II}	$\Sigma_{max} t_1 + t_{II}$
Steel	0.50–1.50	Timber	≥ 25.0

Fastener material

Carbon steel with Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Approvals

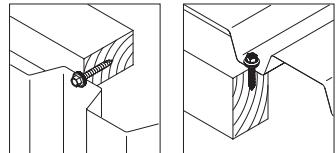


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- Reduced risks of timber splitting given by the drill point
- High corrosion durability thanks to special galvanic zinc coating

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in carbon steel onto timber

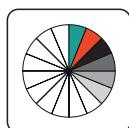
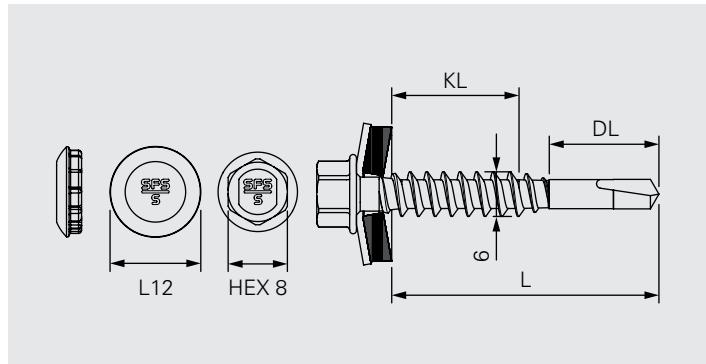
Product code	PU	L	TL	A14
SW-T-A14-4,8x35	250	35	26	856490
SW-T-A14-4,8x51	250	51	42	16576



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SX3-6.0



Application

Fastening of profile sheets onto metal profiles

Fastening of profile sheets onto liner trays

Fastening of standing seam clips onto metal decks

Component 1 (t_i)	Component 2 (t_{ii})	$\Sigma_{\max} t_i + t_{ii}$
Steel 0.50–1.50	Steel 0.63–2.50	3.50
Aluminium 0.50–1.50	Steel $2 \times 0.63–1.50$	4.0
–	Aluminium 1.0–2.50	3.50
–	Aluminium $2 \times 1.0–1.50$	4.0

Fastener material

Austenitic stainless steel A2/A4

Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Approvals

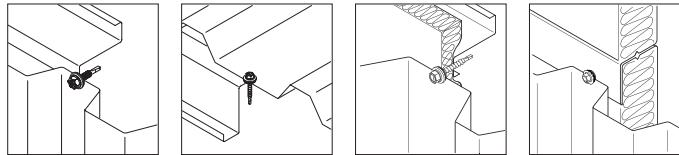


Features and Benefits

- Self drilling fastener suitable for installation of profile sheets
- High quality EPDM sealing washer for long-term weather sealing
- Easy drilling through the whole clamping thickness (including insulation strip in between) given by the long drill point

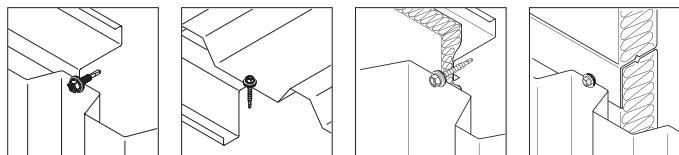
Documentation

Approval document (ETA) | Declaration of performance (DoP)



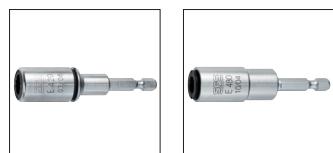
Fastener in A2 onto steel and aluminium

Product code	PU	L	KL	DL	A12	S16	S19
SX3/9-S16-6x29-A2	500	29	0-9	10	–	1141978	1142000
SX3/15-S16-6x40-A2	500	40	0-15	15	–	1133237	1142008
SX3/20-S16-6x50-A2	250	50	0-20	20	–	1133239	1142063
SX3/9-L12-A12-6x29-A2	500	29	0-9	10	1142002	–	–



Fastener in A4 onto steel and aluminium

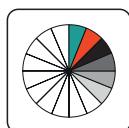
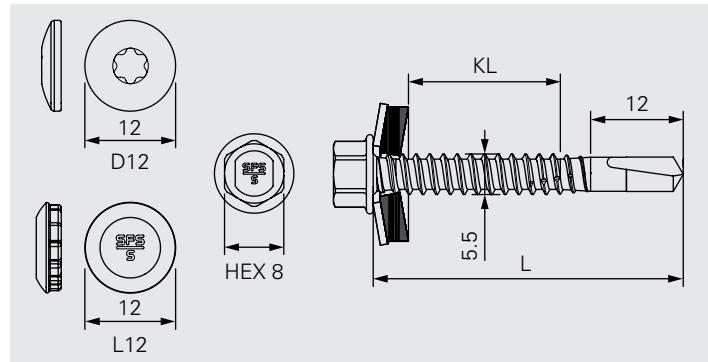
Product code	PU	L	KL	DL	S16	S19
SX3/9-S16/A4-6x29-A4	500	29	0-9	10	1479579	1614057
SX3/18-S16/A4-6x38-A4	500	38	0-18	10	1575772	1614745
SX3/28-S16/A4-6x48-A4	500	48	0-28	10	1575777	1614058



Accessories/Ancillaries

Product code	PU	Head	
Socket E480	10	HEX8	688056
Socket E420	1	L12	973316

SX5-5.5



Application

- Fastening of profile sheets onto metal profiles
- Fastening of sandwich panels onto metal profiles
- Fastening of standing seam clips onto metal profiles

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 1.50–4.0	5.0
Aluminium 0.50–1.50	Steel 2×1.50–2.50	6.0
Sandwich –	Aluminium 1.50–4.0	5.0
–	Aluminium 2×1.50–2.50	6.0

Fastener material

- Austenitic stainless steel A2/A4
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Approvals

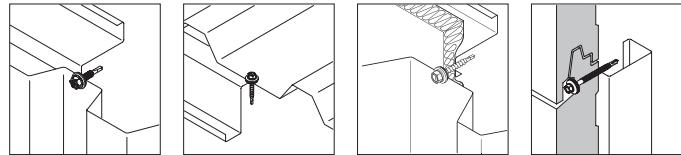
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ETA-10/0198 ETA-13/0183

Features and Benefits

- Self drilling fastener suitable for installation of profile sheets and sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Easy drilling through overlapped metal profiles given by the long drill point

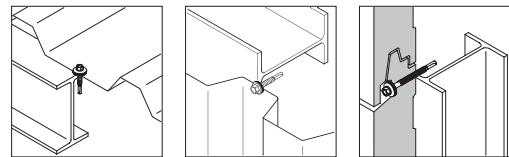
Documentation

Approval document (ETA) | Declaration of performance (DoP)



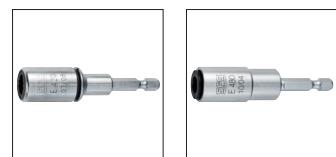
Fastener in A2 onto steel and aluminium

Product code	PU	L	KL	Washer	S12	S16	S19
SX5/8-S16-5,5x31-A2	500	31	0–8	S16	–	1122767	1134299
SX5/12-S16-5,5x35-A2	500	35	0–12	S16	–	1123168	1123167
SX5/18-S16-5,5x41-A2	500	41	0–18	S16	–	1134477	1134476
SX5/20-30-S16-5,5x53-A2	250	53	20–30	S16	–	1133684	1155085
SX5/38-S16-5,5x61-A2	250	61	0–38	S16	–	1168765	1168767
SX5/55-S16-5,5x78-A2	250	78	8–55	S16	–	1133330	1133331
SX5/8-L12-S16-5,5x31-A2	500	31	0–8	S16	–	1134340	–
SX5/12-L12-S16-5,5x35-A2	500	35	0–12	S16	–	1134352	–
SX5/18-L12-S16-5,5x41-A2	500	41	0–18	S16	–	1135439	–
SX5/12-D12-S12-5,5x35-A2	500	35	0–12	S12	1154952	–	–



Fastener in A4 onto steel and aluminium

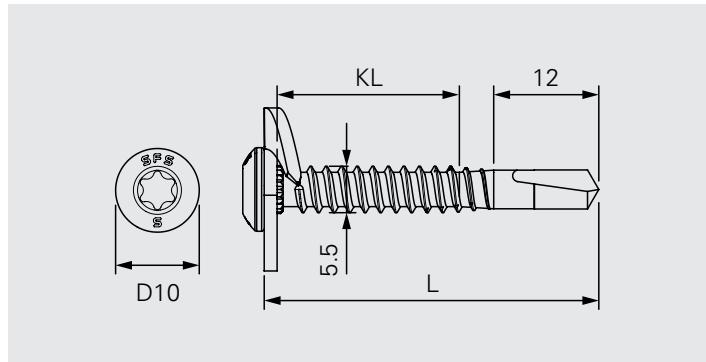
Product code	PU	L	KL	Washer	S16	S19
SX5/8-S16/A4-5,5x31-A4	500	31	0-8	S16	1614135	1588949
SX5/12-S16/A4-5,5x35-A4	500	35	0-12	S16	1585655	1614137
SX5/38-S16/A4-5,5x61-A4	250	61	0-38	S16	1585656	1614138



Accessories/Ancillaries

Product code	PU	Head	
Socket E480	10	HEX8	688056
Socket E420	1	L12	973316

SX5-D10-5.5



Application

Fastening of single-ply insulated roof panels onto metal profiles

Component 1 (t_i)

Single-ply panel

Component 2 (t_{ii})

Steel

5.0

$\Sigma_{\max} t_i + t_{ii}$

6.0

Fastener material

Austenitic stainless steel A2

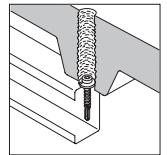
Cutting disc: Austenitic stainless steel A2

Approvals

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Features and Benefits

- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- Easy drilling through overlapped metal profiles given by the long drill point
- Self coring fastener without disruption of the insulating material achieved by the cutting-washer



Fastener in A2 onto steel

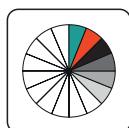
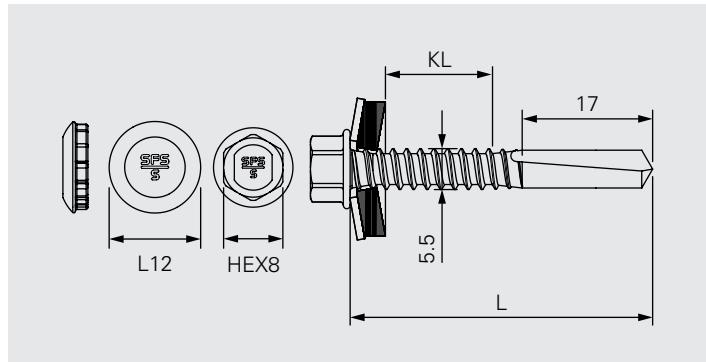
Product code	PU	L	KL	SC
SX5-D10-S19/C9-5,5x39	500	39	0-6	1122625



Accessories/Ancillaries

Product code	PU		
T25W-175-HEX1/4"	5		727979

SX14-5.5



Application

Fastening of profile sheets onto metal beams
Fastening of sandwich panels onto metal beams (hidden fixing)
Fastening of standing seam clips onto metal beams

	Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel	0.50–1.50	Steel	4.0–12.0
Aluminium	0.50–1.50	–	–
Sandwich	–	–	–

Fastener material

Austenitic stainless steel A2/A4
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Approvals

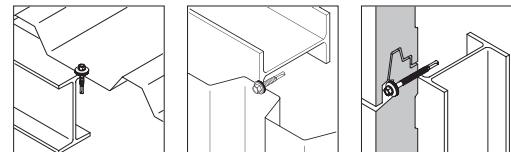
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ETA-10/0198 ETA-13/0183

Features and Benefits

- Self drilling fastener suitable for installation of profile sheets and sandwich panels (hidden fixing)
- High quality EPDM sealing washer for long-term weather sealing
- High performance drill point for heavy steel beams

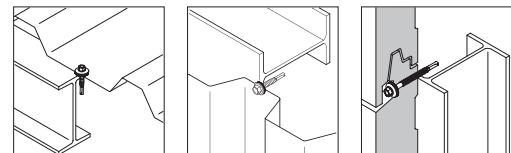
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel

Product code	PU	L	KL	Washer	S16	S19
SX14/12-S16-5,5x40-A2	500	40	0-12	S16	770785	770796
SX14/20-S16-5,5x48-A2	500	48	0-20	S16	773625	773626
SX14/38-S16-5,5x66-A2	250	66	0-38	S16	770805	770807
SX14/58-S16-5,5x86-A2	250	86	0-58	S16	523277	519419
SX14/12-L12-S16-5,5x40-A2	500	40	0-12	S16	-	776328



Fastener in A4 onto steel

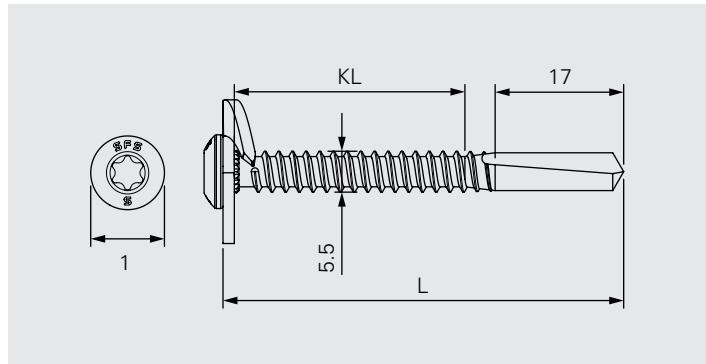
Product code	PU	L	KL	Washer	S16	S19
SX14/12-S16/A4-5,5x40-A4	500	40	0-12	S16	1614139	1585192
SX14/27-S16/A4-5,5x55-A4	250	55	0-27	S16	1585194	1614143



Accessories/Ancillaries

Product code	PU	Head	
Socket E480	10	HEX8	688056
Socket E420	1	L12	973316

SX14-D10-5.5



Application

Fastening of single-ply insulated roof panels onto metal beams

Component 1 (t_{I})

Single-ply panel

Component 2 (t_{II})

Steel

13.50

$\Sigma_{\text{max}} t_{\text{I}} + t_{\text{II}}$

14.50

Fastener material

Austenitic stainless steel A2

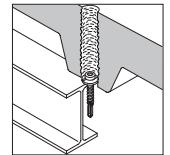
Cutting disc: Austenitic stainless steel A2

Approvals

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Features and Benefits

- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- Self coring fastener without disruption of the insulating material achieved by the cutting-washer
- High performance drill point for heavy steel beams



Fastener in A2 onto steel

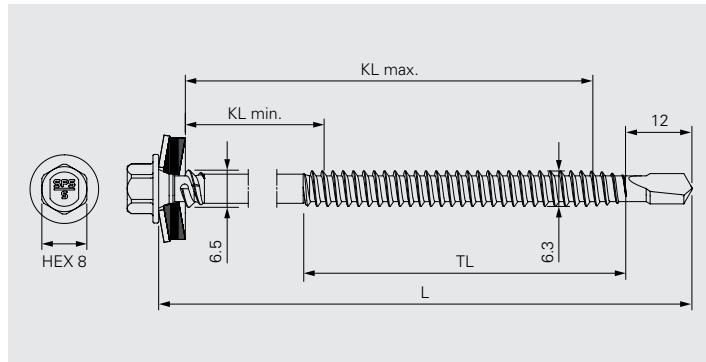
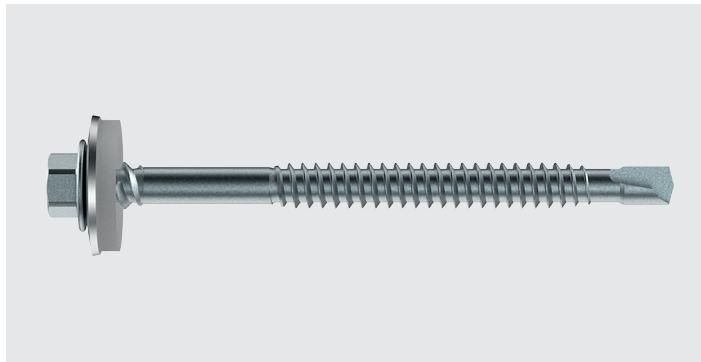
Product code	PU	L	KL	SC
SX14-D10-S19/C9-5,5x53	500	53	14	1174930



Accessories/Ancillaries

Product code	PU	SC
T25W-175-HEX1/4"	5	727979

SXC5-6.3



Application

Fastening of sandwich panels onto metal profiles

Fastening of sandwich panels onto timber

Component 1 (t_{I})

Sandwich panel

Component 2 (t_{II})

Steel

1.0–4.0

$\Sigma_{\text{max}} t_{\text{I}} + t_{\text{II}}$

Fastener material

Austenitic stainless steel A2/A4

Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Approvals

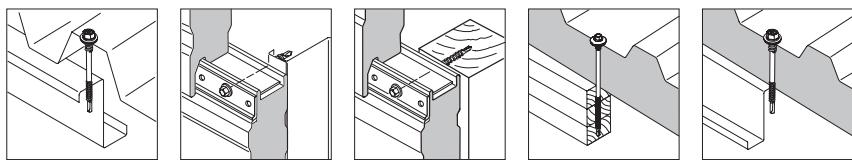


Features and Benefits

- Self drilling fastener suitable for installation of sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- Optimized support function achieved by engineered double support thread
- No scratches on painted metal surfaces thanks to the sharp drill point
- Easy drilling through overlapped metal profiles given by the long drill point
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High tension resistance achieved by optimized fastener geometry
- Economical benefits given by less fastener needed and installation time savings and / or optimized subconstruction

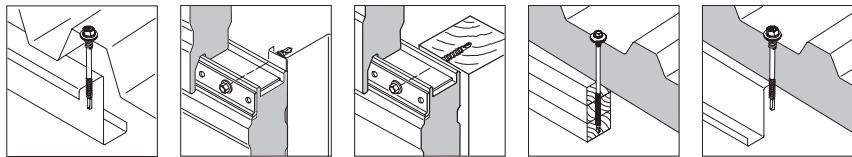
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel and timber

Product code	PU	L	KL	TL	D _{Steel}	D _{Timber}	S16	S19	S22
SXC5-S19-6,3x80-A2	100	80	33–53	37	33–48	—	1573397	1573583	1573732
SXC5-S19-6,3x100-A2	100	100	43–73	47	43–68	30–48	1573398	1573584	1573734
SXC5-S19-6,3x120-A2	100	120	53–93	57	53–88	40–68	1573400	1573585	1573736
SXC5-S19-6,3x140-A2	100	140	73–113	77	73–108	60–88	1573411	1573586	1573738
SXC5-S19-6,3x160-A2	100	160	93–133	77	93–128	80–108	1573414	1573587	1573740
SXC5-S19-6,3x190-A2	100	190	113–163	77	113–158	100–138	1573415	1573588	1573751
SXC5-S19-6,3x220-A2	100	220	143–193	77	143–188	130–168	1573416	1573590	1573762
SXC5-S19-6,3x250-A2	100	250	173–223	77	173–218	160–198	1573417	1573591	1573768
SXC5-S19-6,3x290-A2	100	290	213–263	77	213–258	200–238	1573418	1573592	1573773



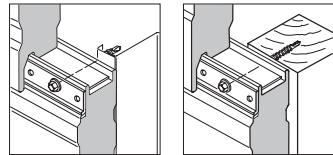
Fastener in A4 onto steel and timber

Product code	PU	L	KL	TL	D _{Steel}	D _{Timber}	S16	S19	S22
SXC5-S19-6,3x80-A4	100	80	33–53	37	33–48	15–28	1599990	1600001	1600003
SXC5-S19-6,3x100-A4	100	100	43–73	47	43–68	25–48	1600005	1600007	1600009
SXC5-S19-6,3x120-A4	100	120	53–93	57	53–88	35–68	1600022	1600023	1600024
SXC5-S19-6,3x140-A4	100	140	73–113	77	73–108	55–88	1600026	1600027	1600028
SXC5-S19-6,3x160-A4	100	160	93–133	77	93–128	75–108	1600042	1600043	1600044
SXC5-S19-6,3x190-A4	100	190	113–163	77	113–158	95–138	1600047	1600049	1600051
SXC5-S19-6,3x220-A4	100	220	143–193	77	143–188	125–168	1600055	1600056	1600057
SXC5-S19-6,3x250-A4	100	250	173–223	77	173–218	155–198	1600059	1600064	1600071
SXC5-S19-6,3x290-A4	100	290	213–263	77	213–258	195–238	1600078	1600080	1600134
SXC5-S19-6,3x345-A4	100	345	268–318	77	268–313	250–293	1600140	1600161	1600166

D_{Steel} Calculated with load bearing clamping length in steel ≥3 mm, sealing tape ≤2 mm

D_{Timber} Calculated with effective embedment depth in timber ≥35 mm, sealing tape ≤3 mm and embedment depth of the fastener shank in timber ≤14 mm

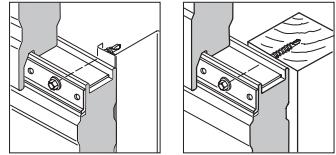
Without
approval



Fastener in A2 onto steel and timber

Product code	PU	L	KL	TL	D _{Steel}	D _{Timber}	No washer
SXC5-6,3×80-A2	100	80	36–56	37	36–51	18–31	1599843
SXC5-6,3×100-A2	100	100	46–76	47	46–71	28–51	1599844
SXC5-6,3×120-A2	100	120	56–96	57	56–91	38–71	1599847
SXC5-6,3×140-A2	100	140	76–116	77	76–111	58–91	1599848
SXC5-6,3×160-A2	100	160	96–136	77	96–131	78–111	1599851
SXC5-6,3×190-A2	100	190	116–166	77	116–161	98–141	1599857
SXC5-6,3×220-A2	100	220	146–196	77	146–191	128–171	1599859
SXC5-6,3×250-A2	100	250	176–226	77	176–221	158–201	1599860
SXC5-6,3×290-A2	100	290	216–266	77	216–261	198–241	1599871

Without
approval



Fastener in A4 onto steel and timber

Product code	PU	L	KL	TL	D _{Steel}	D _{Timber}	No washer
SXC5-6,3x80-A4	100	80	36–56	37	36–51	18–31	1600004
SXC5-6,3x100-A4	100	100	46–76	47	46–71	28–51	1600010
SXC5-6,3x120-A4	100	120	56–96	57	56–91	38–71	1600025
SXC5-6,3x140-A4	100	140	76–116	77	76–111	58–91	1600029
SXC5-6,3x160-A4	100	160	96–136	77	96–131	78–111	1600045
SXC5-6,3x190-A4	100	190	116–166	77	116–161	98–141	1600052
SXC5-6,3x220-A4	100	220	146–196	77	146–191	128–171	1600058
SXC5-6,3x250-A4	100	250	176–226	77	176–221	158–201	1600073
SXC5-6,3x290-A4	100	290	216–266	77	216–261	198–241	1600137
SXC5-6,3x345-A4	100	345	268–318	77	271–316	253–296	1600185

D_{Steel} Calculated with load bearing clamping length in steel ≥3 mm, sealing tape ≤2 mm

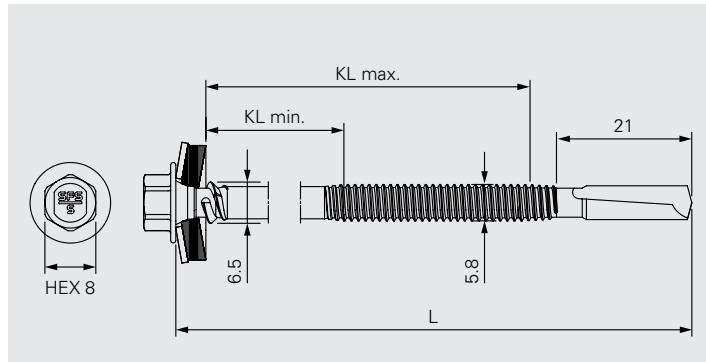
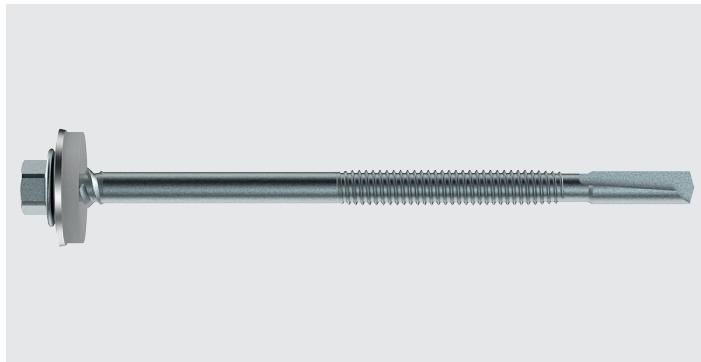
D_{Timber} Calculated with effective embedment depth in timber ≥35 mm, sealing tape ≤3 mm and embedment depth of the fastener shank in timber ≤14 mm



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SXC16-5.8



Application

Fastening of sandwich panels onto steel metal beams

Fastening of profile sheets onto steel metal beams

Component 1 (t_1)

Sandwich panel

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Sandwich panel	Steel 3.0–14.0	16.0

Approvals

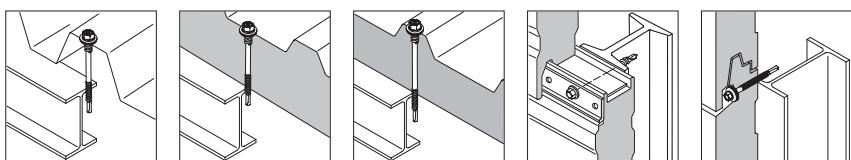


Features and Benefits

- Self drilling fastener suitable for installation of sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end
- Optimized support function achieved by engineered double support thread
- High performance drill point for heavy steel beams
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin
- High tension resistance achieved by optimized fastener geometry
- Economical benefits given by less fastener needed and installation time savings

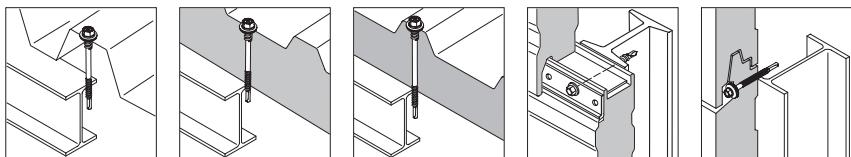
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel

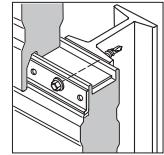
Product code	PU	L	KL	D _{Steel}	S16	S19	S22
SXC16-S19-5,8x90-A2	100	90	33-56	33-48	1573419	1573595	1573774
SXC16-S19-5,8x110-A2	100	110	43-76	43-68	1573420	1573596	1573783
SXC16-S19-5,8x130-A2	100	130	53-96	53-88	1573441	1573597	1573789
SXC16-S19-5,8x150-A2	100	150	73-116	73-108	1573443	1573707	1573790
SXC16-S19-5,8x170-A2	100	170	93-136	93-128	1573445	1573709	1573859
SXC16-S19-5,8x200-A2	100	200	113-166	113-158	1573446	1573710	1573875
SXC16-S19-5,8x230-A2	100	230	143-196	143-188	1573447	1573712	1574011
SXC16-S19-5,8x260-A2	100	260	173-226	173-218	1573448	1573714	1574051
SXC16-S19-5,8x300-A2	100	300	213-266	213-258	1573450	1573715	1574054



Fastener in A4 onto steel

Product code	PU	L	KL	D _{Steel}	S16	S19	S22
SXC16-S19/A4-5,8x90-A4	100	90	33-56	33-48	1613574	1613558	1613576
SXC16-S19/A4-5,8x110-A4	100	110	43-76	43-68	1613594	1613595	1613596
SXC16-S19/A4-5,8x130-A4	100	130	53-96	53-88	1613602	1613603	1613604
SXC16-S19/A4-5,8x150-A4	100	150	73-116	73-108	1613606	1613607	1613608
SXC16-S19/A4-5,8x170-A4	100	170	93-136	93-128	1613622	1613623	1613626
SXC16-S19/A4-5,8x200-A4	100	200	113-166	113-158	1613693	1613694	1613695
SXC16-S19/A4-5,8x230-A4	100	230	143-196	143-188	1613699	1613707	1613708
SXC16-S19/A4-5,8x260-A4	100	260	173-226	173-218	1613711	1613712	1613713
SXC16-S19/A4-5,8x300-A4	100	300	213-266	213-258	1613720	1614801	1614803
SXC16-S19/A4-5,8x355-A4	100	355	268-321	268-313	1614805	1606472	1606474

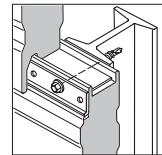
D_{Steel} Calculated with load bearing clamping length in steel ≥6 mm, sealing tape ≤2 mm

Without
approval

Fastener in A2 onto steel

Product code	PU	L	KL	D _{Steel}	No washer
SXC16-5,8×90-A2	100	90	36–59	36–51	1615954
SXC16-5,8×110-A2	100	110	46–79	46–71	1615960
SXC16-5,8×130-A2	100	130	56–99	56–91	1615963
SXC16-5,8×150-A2	100	150	76–119	76–111	1615978
SXC16-5,8×170-A2	100	170	96–139	96–131	1616036
SXC16-5,8×200-A2	100	200	116–169	116–161	1616046
SXC16-5,8×230-A2	100	230	146–199	146–191	1616051
SXC16-5,8×260-A2	100	260	176–229	176–221	1616090
SXC16-5,8×300-A2	100	300	216–269	216–261	1616112

Without
approval



Fastener in A4 onto steel

Product code	PU	L	KL	D _{Steel}	No washer
SXC16-5,8x90-A4	100	90	36–59	36–51	1613577
SXC16-5,8x110-A4	100	110	46–79	46–71	1613600
SXC16-5,8x130-A4	100	130	56–99	56–91	1613605
SXC16-5,8x150-A4	100	150	76–119	76–111	1613609
SXC16-5,8x170-A4	100	170	96–139	96–131	1613630
SXC16-5,8x200-A4	100	200	116–169	116–161	1613697
SXC16-5,8x230-A4	100	230	146–199	146–191	1613709
SXC16-5,8x260-A4	100	260	176–229	176–221	1613717
SXC16-5,8x300-A4	100	300	216–269	216–261	1614804
SXC16-5,8x355-A4	100	355	271–324	271–316	1606471

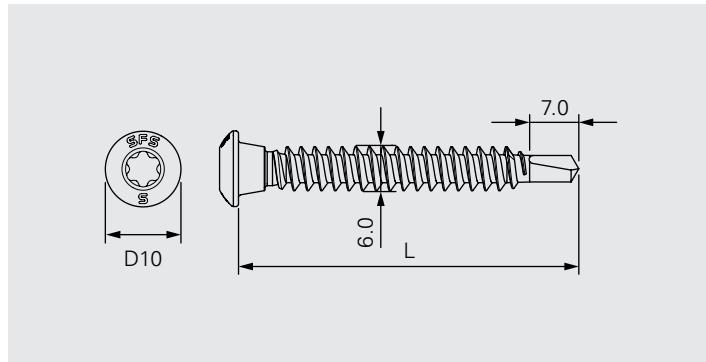
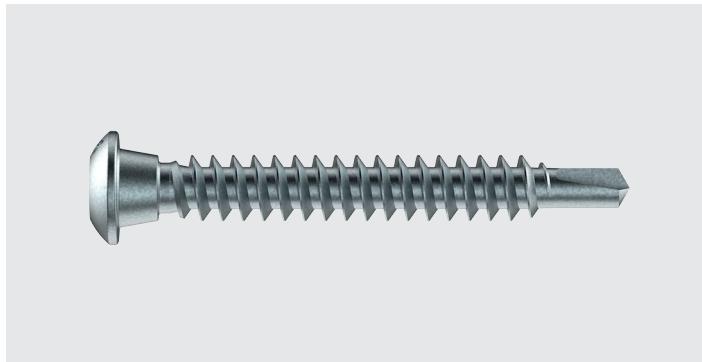
D_{Steel} Calculated with load bearing clamping length in steel ≥6 mm, sealing tape ≤2 mm



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

SXK2-6.0



Application

Fastening of standing seam clips onto metal decks

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Clip ≥5.0	Steel 0.75–1.25	–
Clip ≥5.0	Aluminium 0.90–2.50	–

Fastener material

Austenitic stainless steel A2

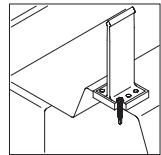
Approvals

Features and Benefits

- Self drilling fastener suitable for installation of standing seam clips
- Reduced risks of over driving and unwinding achieved by clamping-cone
- High tension resistance achieved by optimized fastener geometry

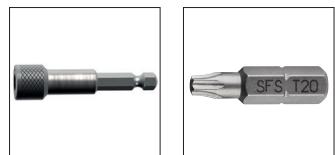
Documentation

Installation instruction | Technical Data



Fastener in A2 onto steel

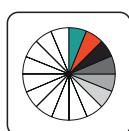
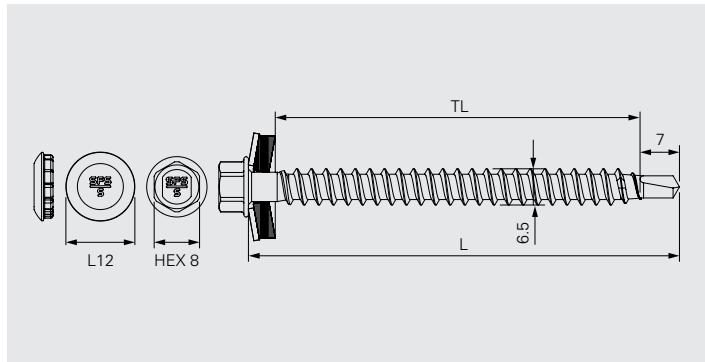
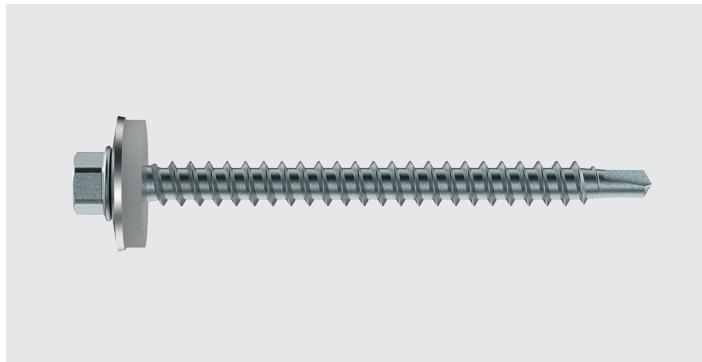
Product code	PU	L	Clip onto steel	
SXK2-D10-6,0×35-A2	250	35	5–17	1615850
SXK2-D10-6,0×45-A2	250	45	5–27	1615848



Accessories/Ancillaries

Product code	PU	
T20W-25-HEX1/4"	10	895280
Bit holder ZA1/4"	10	1162306

SXW-6.5



Application

Fastening of profile sheets onto timber

Fastening of sandwich panels onto timber (hidden fixing)

	Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{\max} t_1 + t_{II}$
Steel	0.50–1.50	Timber	≥35.0
Aluminium	0.50–1.50	–	–
Sandwich	–	–	–

Fastener material

Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

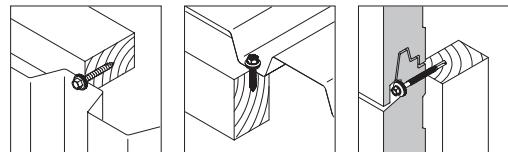
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ETA-10/0198 ETA-13/0183

Features and Benefits

- Self drilling fastener suitable for installation of profile sheets and sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Reduced risks of wood splitting given by the drill point

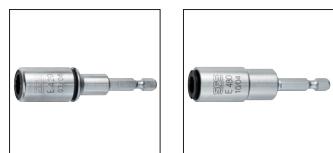
Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel and timber

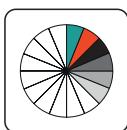
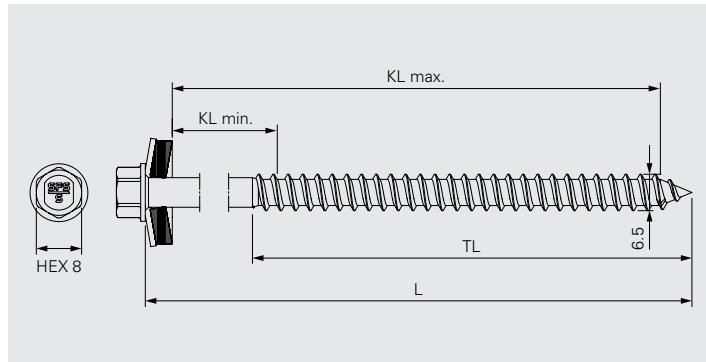
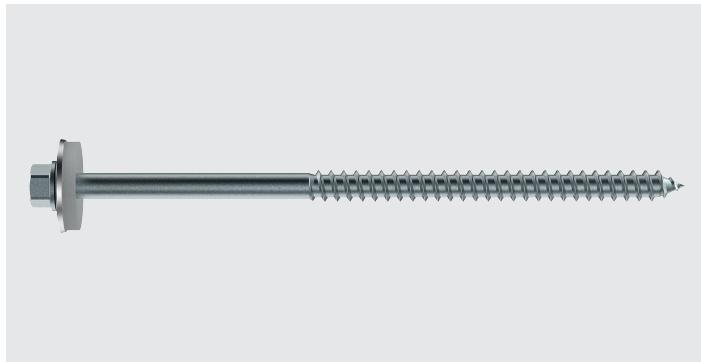
Product code	PU	L	TL	Washer	
SXW-S16-6,5x52-A2	250	52	40	S16	1123138
SXW-S19-6,5x52-A2	250	52	40	S19	1123139
SXW-L12-S16-6,5x52-A2	250	52	40	S16	1133037
SXW-S16-6,5x75-A2	250	75	63	S16	1069319
SXW-S19-6,5x75-A2	250	75	63	S19	1107866
SXW-S16-6,5x99-A2	250	99	78	S16	1110537
SXW-S19-6,5x99-A2	250	99	78	S19	1098610



Accessories/Ancillaries

Product code	PU	
Socket E480	10	688056
Socket E420	1	973316

TDA-S-6.5



Application

Fastening of metal sheets onto metal profiles
Fastening of metal sheets onto timber
Fastening of metal sheets onto liner trays
Fastening of sandwich panels onto timber

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel ≥ 0.40	Steel 0.63–3.0	4.50
Aluminium 0.50–1.50	Steel $2 \times 0.75 - 2 \times 1.50$	4.50
–	Aluminium 1.0–3.0	4.50
–	Timber ≥ 35.0	–

Fastener material

Austenitic stainless steel A2
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

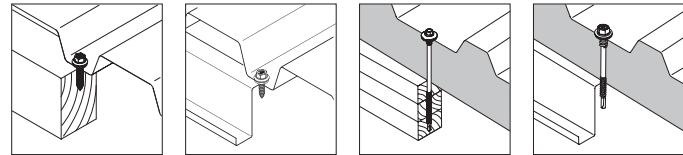


Features and Benefits

- Self tapping fastener suitable for installation of profile sheets and sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Multifunctional fastener for a variety of applications

Documentation

Approval document (ETA) | Declaration of performance (DoP)



Fastener in A2 onto steel, timber and aluminium

Product code	PU	L	TL	KL	D _{Steel}	D _{Timber}	S16	S19	S22
TDA-S-S16-6,5x20	500	20	20	0–10	0–7	–	1526324	1526378	1526739
TDA-S-S16-6,5x25	500	25	25	0–15	0–12	–	6760	6680	6713
TDA-S-S16-6,5x32	500	32	32	0–22	0–19	–	6761	6681	6714
TDA-S-S16-6,5x40	250	40	40	0–30	0–27	–	1526325	1526379	1526751
TDA-S-S16-6,5x50	250	50	50	0–40	0–37	0–9	6764	6684	6717
TDA-S-S16-6,5x60	250	60	60	0–50	0–47	0–19	1526326	1526391	1526752
TDA-S-S16-6,5x80	250	80	76	5–68	5–65	0–39	1526328	1526392	1526753
TDA-S-S16-6,5x100	100	100	76	25–88	25–85	7–59	6768	6688	6721
TDA-S-S16-6,5x120	100	120	76	45–108	45–105	27–79	1526330	1526393	1526754
TDA-S-S16-6,5x140	100	140	76	65–128	65–125	47–99	1526342	1526394	1526756
TDA-S-S16-6,5x160	100	160	76	85–148	85–145	67–109	1526344	1526395	1526758
TDA-S-S16-6,5x180	100	180	76	105–168	105–165	87–119	1526346	1526396	1526771
TDA-S-S16-6,5x200	100	200	76	125–188	125–185	107–139	1526347	1526397	1526774
TDA-S-S16-6,5x220	100	220	76	145–208	145–205	127–159	1526348	1526398	1526776
TDA-S-S16-6,5x260	100	260	76	185–248	185–245	167–199	1526349	1526399	1526779

D_{Steel} Calculated with load bearing clamping length in steel ≥ 1 mm, sealing tape ≤ 2 mm

D_{Timber} Calculated with effective embedment depth in timber ≥ 35 mm, sealing tape ≤ 3 mm and embedment depth of the fastener shank in timber ≤ 14 mm

Pre-drill diameter

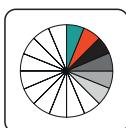
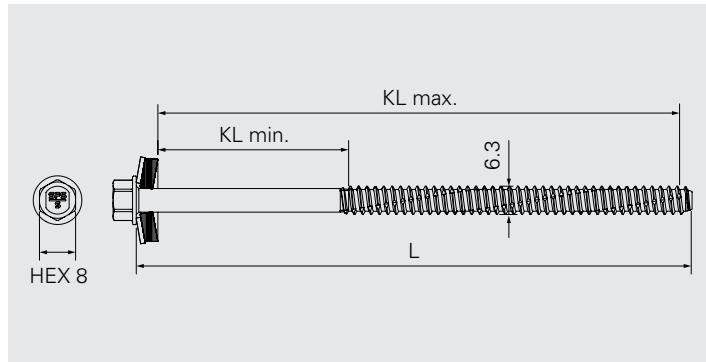
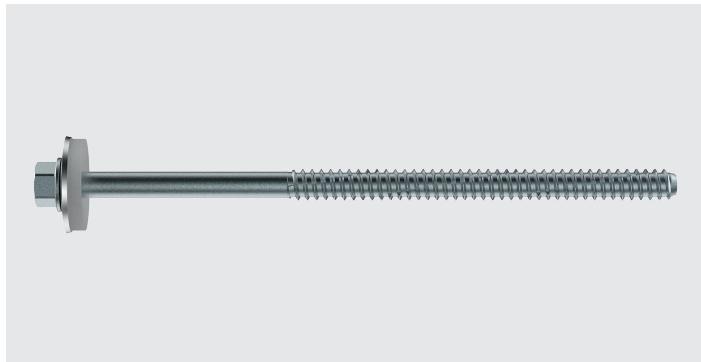
Application	Steel/Steel and Alu/Steel			Steel/Timber	Alu/Alu		
Component 2 (t_{\parallel})	S280GD – S450GD (EN10346) HX300LAD to HX460LAD (EN10346)			Timber (EN14081)	Aluminium (EN573)		
	0.63	0.75	0.88–1.25	1.50–3.0	≥ 35.0	1.0–1.50	2.0–2.50
Pre-drill Ø	3.50	4.0	4.50	5.0	4.0	4.50	5.0
							5.30



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

TDB-S-6.3



Application

Fastening of metal sheets onto metal profiles
Fastening of metal sheets onto metal beams
Fastening of sandwich panels onto metal profiles
Fastening of sandwich panels onto metal beams
Fastening of liner trays onto metal beams

Component 1 (t_i)	Component 2 (t_{ii})	$\Sigma_{\max} t_i + t_{ii}$
Steel Aluminium	≥ 0.40 0.50–1.50	≥ 1.25 ≥ 1.50
		≥ 1.65 ≥ 2.0

Fastener material

Austenitic stainless steel A2/A4
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Approvals

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ETA-10/0198

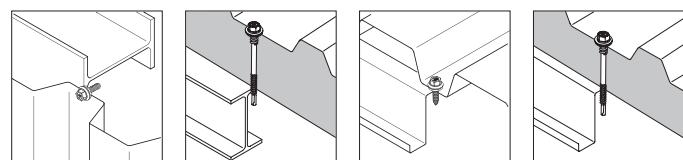
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ETA-13/0183

Features and Benefits

- Self tapping fastener suitable for installation of profile sheets and sandwich panels
- High quality EPDM sealing washer for long-term weather sealing
- Multifunctional fastener for a variety of applications

Documentation

Approval document (ETA) | Declaration of performance (DoP)



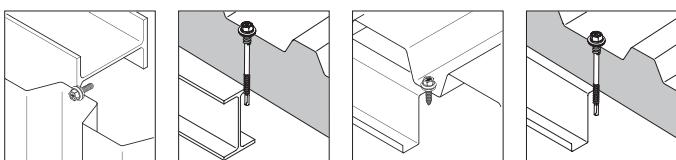
Fastener in A2 onto steel and aluminium

Product code	PU	L	KL	D _{Steel}	S16	S19	S22
TDB-S-S16-6,3x20	500	20	0–12	0–7	1526350	1526400	1526792
TDB-S-S16-6,3x25	500	25	0–17	0–12	1021650	1021647	1063057
TDB-S-S16-6,3x32	500	32	0–24	0–19	1021659	1063816	1045402
TDB-S-S16-6,3x40	250	40	0–32	0–27	1526352	1526401	1526781
TDB-S-S16-6,3x50	250	50	0–42	0–37	1022745	1022746	1045407
TDB-S-S16-6,3x60	250	60	0–52	0–47	1526353	1526402	1526783
TDB-S-S16-6,3x80	250	80	5–70	5–65	1526354	1526403	1526785
TDB-S-S16-6,3x100	100	100	25–90	25–85	1022759	1022758	1051692
TDB-S-S16-6,3x120	100	120	45–110	45–105	1526355	1526405	1526786
TDB-S-S16-6,3x140	100	140	65–130	65–125	1526356	1526406	1526787
TDB-S-S16-6,3x160	100	160	85–150	85–145	1526357	1526407	1526788
TDB-S-S16-6,3x180	100	180	105–170	105–165	1526359	1526408	1526789
TDB-S-S16-6,3x200	100	200	125–190	125–185	1270144	1191450	1284314
TDB-S-S16-6,3x220	100	220	145–210	145–205	1191440	1194640	1226649
TDB-S-S16-6,3x260	100	260	185–250	185–245	1526371	1526410	1526791

D_{Steel} Calculated with load bearing clamping length in steel ≥ 1 mm, sealing tape ≤ 2 mm

Pre-drill diameter

Application	Steel/Steel and Alu/Steel					Alu/Alu			
Component 2 (t _{II})	S235 - S355 (EN10025) S280GD - S450GD (EN10346) HX300LAD - HX460LAD (EN10346)					Aluminium (EN573)			
	1.25–1.50	1.60–4.00	4.10–6.0	6.10–10.0	>10.0	1.50	2.0–3.0	4.0	>6.0
Pre-drill Ø	5.0	5.3	5.50	5.70	5.80	4.50	5.0	5.30	5.50



Fastener in A4 onto steel and aluminium

Product code	PU	L	KL	D _{Steel}	S16	S19	S22
TDB-S-S16-6,3x25-A4	500	25	1–12	0–12		1479523	1596647
TDB-S-S16-6,3x40-A4	250	40	1–32	0–27		1614055	1614052

D_{Steel} Calculated with load bearing clamping length in steel ≥1 mm, sealing tape ≤2 mm

Pre-drill diameter

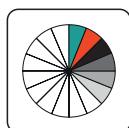
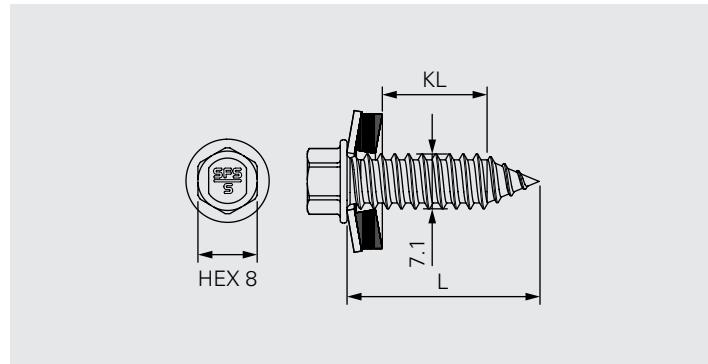
Application	Steel/Steel and Alu/Steel					Alu/Alu			
Component 2 (t _{II})	S235 - S355 (EN10025) S280GD - S450GD (EN10346) HX300LAD - HX460LAD (EN10346)					Aluminium (EN573)			
	1.25–1.50	1.60–4.00	4.10–6.0	6.10–10.0	>10.0	1.50	2.0–3.0	4.0	>6.0
Pre-drill Ø	5.0	5.3	5.50	5.70	5.80	4.50	5.0	5.30	5.50



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

TDC-S-7.1



Application

Fastening of profile sheets onto metal profiles

Component 1 (t_1)	Component 2 (t_{II})	$\Sigma_{max} t_1 + t_{II}$
Steel 0.50–1.50	Steel 0.63–3.0	4.50

Fastener material

Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

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Features and Benefits

- Self tapping fastener suitable as replacement of over driven fasteners
- Applicable on metal profile sheets and sandwich panels



Fastener in A2 onto steel

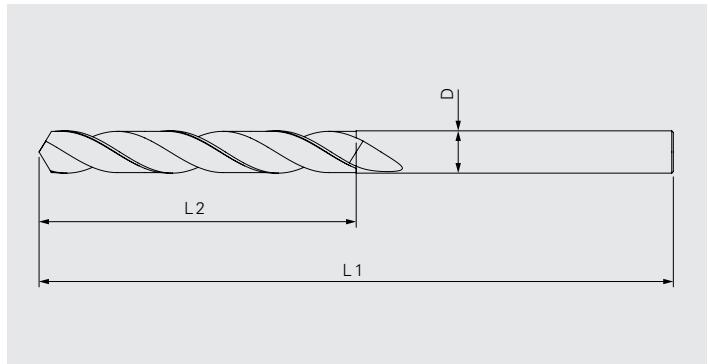
Product code	PU	L	KL	Pre-drill Ø	S19
TDC-S-S19-7,1x25	500	25	1–14	6.50	1066788



Accessories/Ancillaries

Product code	PU		
Socket E480	10		688056

HSS drill bits



Application

Drilling in construction steel and timber

Approvals

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Fastener material

HSS high speed steel

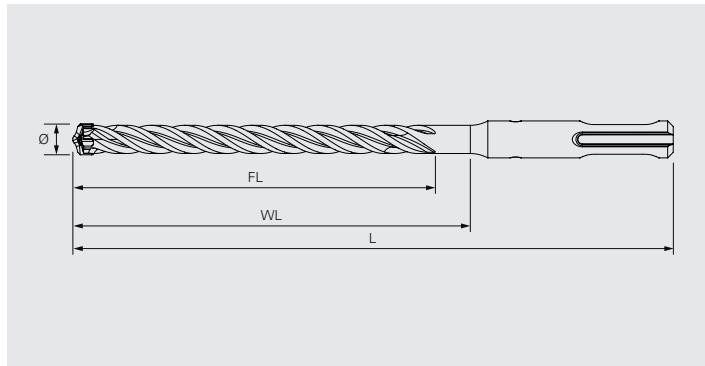
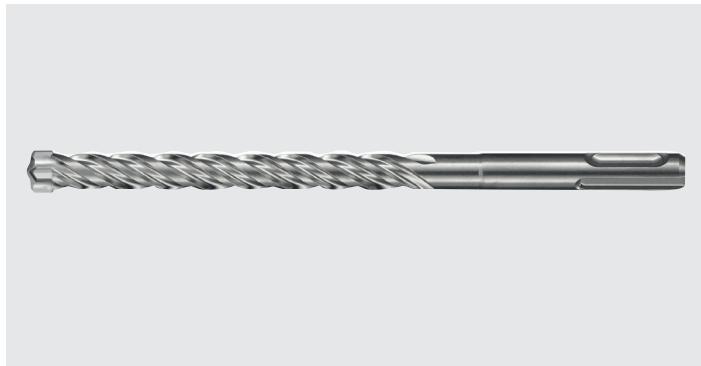
Features and Benefits

- For construction steel and timber
- Short spiral groove for better stability
- Insert ends: smooth shank

HSS drill bits

Product code	PU	D	L1	L2	
HSS-4,9×62/26	10	4.90	62	26	69585
HSS-5,0×60/31	10	5.0	60	31	1046721
HSS-5,0×90/31	10	5.0	90	31	1046723
HSS-5,0×125/31	10	5.0	125	31	1046724
HSS-5,0×175/31	5	5.0	175	31	1206462
HSS-5,0×220/31	5	5.0	220	31	1046726
HSS-5,0×250/31	5	5.0	250	31	1206458
HSS-5,3×60/31	10	5.30	60	31	1046734
HSS-5,3×95/31	10	5.30	95	31	1046735
HSS-5,3×125/31	10	5.30	125	31	1206451
HSS-5,3×175/31	10	5.30	175	31	1046738
HSS-5,3×220/31	5	5.30	220	31	1206450
HSS-5,3×250/31	5	5.30	250	31	1046740
HSS-5,3×290/31	5	5.30	290	31	1046751
HSS-5,5×60/31	10	5.50	60	31	1046752
HSS-5,5×95/31	10	5.50	95	31	1046753
HSS-5,5×125/31	10	5.50	125	31	1046754
HSS-5,5×175/31	10	5.50	175	31	1046755
HSS-5,5×220/31	5	5.50	220	31	1046756
HSS-5,5×250/31	10	5.50	250	31	1046757
HSS-5,5×290/31	5	5.50	290	31	1046758
HSS-5,7×60/31	10	5.70	60	31	1046760
HSS-5,7×95/31	10	5.70	95	31	1046772
HSS-5,7×125/31	10	5.70	125	31	1046773
HSS-5,7×175/31	10	5.70	175	31	1206429
HSS-5,7×220/31	5	5.70	220	31	1206428
HSS-5,7×250/31	5	5.70	250	31	1046777
HSS-5,7×290/31	5	5.70	290	31	1206427
HSS-5,8×60/31	10	5.80	60	31	7870
HSS-5,8×100/31	10	5.80	100	31	7872
HSS-5,8×125/31	10	5.80	125	31	7891
HSS-5,8×200/31	10	5.80	200	31	7894
HSS-5,8×260/31	10	5.80	260	31	7896
HSS-5,8×300/31	10	5.80	300	31	1238831

SDS drill bits



Application

Pre-drill of reinforced concrete or natural stone

Approvals

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Fastener material

4x carbide cutting edge, steel shank

Features and Benefits

- Four symmetrical cutting edges for exact drilling diameters
- No slipping on the surface due to the centering tip
- Optimal removing of drilling dust due to the cupping flute geometry
- Optimum drilling performance and no seizure when hitting reinforcing steel thanks to the patented reinforcement chamfer
- 50% longer service life due to special geometry

SDS drill bits

Product code	PU	D	L	WL	FL	
SDS-6x210/150-4C	1	6	210	150	150	1487583
SDS-6x310/250-4C	1	6	310	250	250	1487584
SDS-6x515/200-4C	1	6	515	455	200	1608141
SDS-8x210/150-4C	1	8	210	150	150	1487585
SDS-10x210/150-4C	1	10	210	150	150	1487586

Butyl tape BB



Technical characteristics

DIN 4102	B2 (flame retardant)
Chemical basis of the sealing compound	Butyl rubber
Diffusion resistance factor	μ =approx. 800.000
Temperature resistance	-40°C up to +80°C

Application

Between overlaps of fastener connections in facade and roof construction

Approvals



Product description

Volume-resistant, solvent-free butyl rubber sealing tape

Double sided self-adhesive

Flame retardant

Features and Benefits

- Water repellent
- Does not corrode
- Solvent free
- Bitumen-free and bitumen-compatible
- Aging, weathering and UV resistant
- Volume resistant
- Immediately functional
- Permanent adhesive
- Simple processing
- Conforms to the requirements of IVD leaflet No. 5

Documentation

Approval document (ETA) | Declaration of performance (DoP)

Butyl tape BB

Product code	PU	Wide tape (mm)	Wide joint (mm)	Roll length (m)	
BB-10x1,5	22	10	1.5	25	1163572
BB-20x1,5	14	20	1.5	25	772275

Sealing tape EB



Technical characteristics

Density: DIN EN ISO 845	100±10 kg/m ³
Tensile strength: DIN EN ISO 1926	1.8±20% N/mm ²
Elongation at break: DIN EN ISO 1926	40±20%
Compression load deflectio 25%: DIN EN ISO 3386-1	>150 kPa
Flammability: DIN EN 13501-1	Class E
Thermal conductivity: DIN 52612	<0.055 W/m*k
Temperature resistance	-30°C up to +80°C

Application

Between sandwich panels and steal beams
Between metal profiles onto liner trays

Approvals

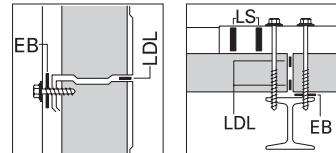


Product description

Polypropylen foam with selfadhhsive singleside and foil liner impregnated
Decoupling tape for thermal breaks

Features and Benefits

- Complies with the requirements of the current energy-saving regulation (EnEV)
- High compression resistance
- Closed-cell with smooth surface
- Water-resistant
- Optimises thermal bridges
- High ageing resistance
- Environmentally friendly – chemically neutral
- Permanent adhesive
- Simple processing
- Conforms to the requirements of the new IFBS-guidline for joint tightness and lightweight steel constructions



Sealing tape EB

Product code	PU	wide tape (mm)	wide joint (mm)	roll length (m)	
EB-15x3-SK	48	15	3	30	1211739
EB-30x3-SK	24	30	3	30	1163565
EB-40x3-SK	18	40	3	30	1163566
EB-50x3-SK	14	50	3	30	1163567
EB-60x3-SK	12	60	3	30	1163568
EB-80x3-SK	9	80	3	30	1163570
EB-90x3-SK	8	90	3	30	1385482

Sealing tape LDL



Technical characteristics

Building material class: DIN 4102	B1 (flame retardant)
Stress group: DIN 18542	BG1
Driving rain resistance: EN 1027	≥ 600 Pa
Thermal conductivity: DIN EN 12667	$\lambda = 0.0468$ W/m*k
Compatibility with construction materials: DIN 18542	passed
Air tightness: DIN 18542	$a \leq 0.1$ m ³ /(h*m*[daPa]2/3)
Weather resistant	passed
Vapour diffusion resistance factor: DIN EN ISO 12572	$\mu \leq 100$
Temperature resistance	-30°C up to +90°C
Noise protection: EN ISO 717-0	RS, w up to 52dB

Application

Between sandwich panels or overlaps of sandwich panels
Between sandwich panels and inside flashings
Between sandwich panels and wall construction
Between liner trays
Between liner trays and concrete

Approvals



Product description

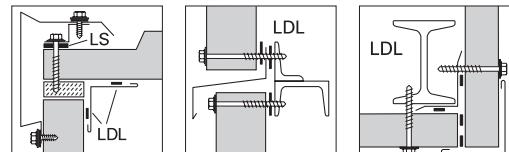
Open-cell polyurethane soft foam, impregnated with flame retardant synthetic resin
One-sided self-adhesive
Halogen-free, solvent-free without HFCKW/FCKW/CKW

Features and Benefits

- Seals against wind, dust and splashwater
- Continually expands and contracts to accommodate movement whilst still sealing the joints
- Breathable – for vapour diffusion
- High adhesive strength during fitting
- Acoustic and thermal insulation properties
- 10 years natural weathering monitored by external institutes
- Constant quality, conforms to DIN standards and is regularly tested by external institutes (can be represented by icons)
- External monitoring by ift Rosenheim GmbH: Resistance to driving rain and joint air permeability coefficient (a-value)

Documentation

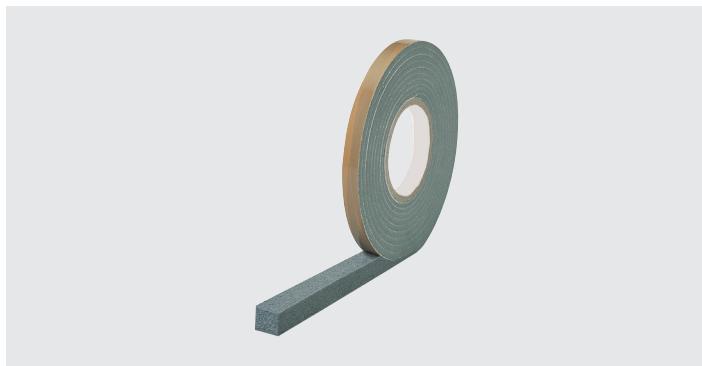
Approval document (ETA) | Declaration of performance (DoP)



Sealing tape LDL

Product code	PU	wide tape (mm)	wide joint (mm)	roll length (m)	
LDL-10/2-4	8	10	2–4	22	1467478
LDL-14/2-4	11	14	2–4	22	1467490
LDL-14/2-6	11	14	2–6	18	1467491
LDL-14/3-9	11	14	3–9	12	1467492
LDL-19/7-15	8	19	7–15	6	1524572
LDL-30/7-15	5	30	7–15	6	1525296

Sealing tape LS



Technical characteristics

Building material class: DIN 4102	B1 (flame retardant)
Stress group: DIN 18542	BG2
Driving rain resistance: EN 1027	≥ 300 Pa
Thermal conductivity: DIN EN 12667	$\lambda = 0.045$ W/m*k
Compatibility with construction materials: DIN 18542	passed
Air tightness: DIN 18542	$a \leq 0.1$ m ³ /(h*m*[daPa]2/3)
Weather resistant	passed
Water vapour diffusion Sd-factor: DIN EN ISO 12572	<0.5 m
Temperature resistance	-30°C up to +90°C

Application

Between overlaps of sandwich panels
Between sandwich panels and outside flashings

Approvals



Product description

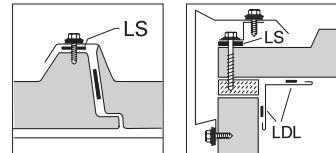
Open-cell polyurethane soft foam, impregnated with flame retardant synthetic resin
One-sided self-adhesive
Halogen-free, solvent-free without HFCKW/FCKW/CKW

Features and Benefits

- Seals against wind, dust and splashwater
- Continually expands and contracts to accommodate movement whilst still sealing the joints
- Breathable – for vapour diffusion
- High adhesive strength of the self-adhesive on standard building substrates
- Acoustic and thermal insulation properties
- Solvent free
- Constant quality control to DIN EN ISO 9001 and DIN standards

Documentation

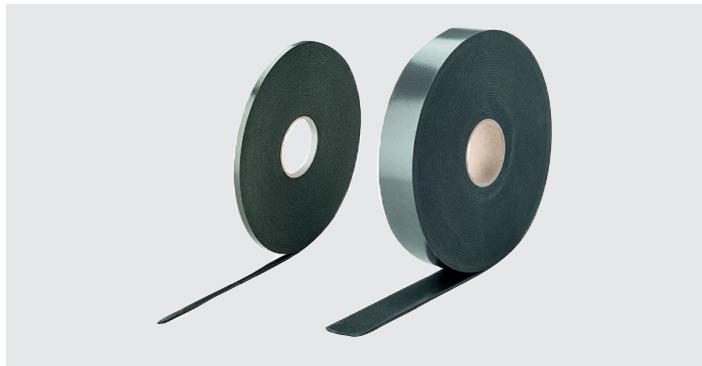
Approval document (ETA) | Declaration of performance (DoP)



Sealing tape LS

Product code	PU	wide tape (mm)	wide joint (mm)	roll length (m)	
LS-10/1,5-2	11	10	1.50–2.0	25	1163529
LS-10/3-5,5	11	10	3.0–5.50	13	1163530
LS-15/1,5-2	7	15	1.50–2.0	25	1163532
LS-15/3-4	7	15	3.0–4.0	18	1163535
LS-15/3-5,5	7	15	3.0–5.50	13	1163537
LS-20/1,5-2	5	20	1.50–2.0	25	1224049
LS-20/3-4	5	20	3.0–4.0	18	1224066
LS-20/3-5,5	5	20	3.0–5.50	13	740213
LS-20/5-8	5	20	5.0–8.0	7	1163539
LS-20/8-12	5	20	8.0–12.0	5	1224068
LS-30/1,5-2	3	30	1.50–2.0	25	1163540
LS-30/3-5,5	3	30	3.0–5.50	13	1163551

Sealing tape PE



Technical characteristics

Density: DIN EN ISO 845	25-30 kg/m ³
Tensil strength: DIN EN ISO 1926	325 kPa
Elongation at break: DIN EN ISO 1626	125%
Thermal conductivity: DIN 52612	<0.04 W/m*K
Temperature resistance	-30°C up to +80°C

Application

Between sandwich panels and steel beams

Between metal profiles onto liner trays

Approvals



Product description

Polypropylene foam

Softener-free, elastic and self-adhesive on one side

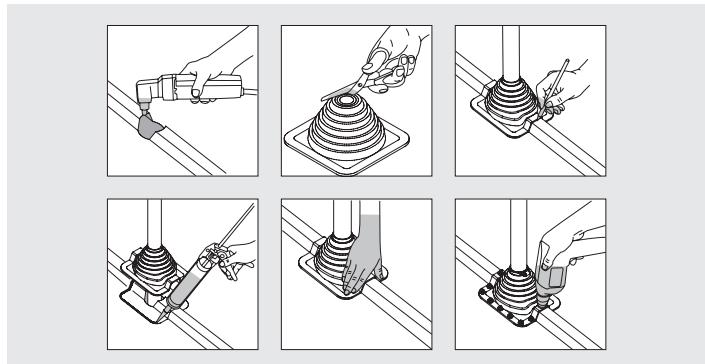
Features and Benefits

- Very good adhesive strength
- Easy and quick to apply
- Suitable as nail sealing tape
- For airtight sealing of tolerance-free and uniform wide joints
- High ageing resistance
- Environmentally friendly – chemically neutral

Sealing tape PE

Product code	PU	Wide tape (mm)	Wide joint (mm)	Roll length (m)	
PE-10x2	30	10	2	20	1163553
PE-15x2	60	15	2	30	1163556
PE-15x3	60	15	3	30	1163558
PE-25x2	38	25	2	30	1163559
PE-30x3	10	30	3	20	1163560
PE-40x4	24	40	4	20	1163561
PE-50x3	6	50	3	20	1163564
PE-60x3	24	60	3	2	1509296
PE-60x5	5	60	5	20	1324731
PE-SB-50/6	1	50	6	50	1507257
PE-SB-90/6	1	90	6	50	1187232
PE-SB-115/6	1	115	6	50	1187233
PE-SB-140/6	1	140	6	50	1187234
PE-SB-165/6	1	165	6	50	1187236
PE-SB-190/6	1	190	6	50	1187237
PE-SB-220/6	1	220	6	50	1214554

Multi Flash MF



Application

Adaptable pipe flashing for all sheet metal roof profiles
To provide a permanently leakproof, vibration-proof
Heatproof and weatherproof pipe penetration
The specifications of DIN 18807 «Openings in roofs» must be
complied with when using the pipe sleeves

Approvals

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Material

EPDM black (-50°C up to +115°C/intermittently up to +150°C)
Silicone red (-50°C up to +200°C/intermittently up to +250°C)

Features and Benefits

- Perfect sealing of pipe outlets on walls and facades
- The soft aluminium base conforms easily to most metal roof profiles
- Sleeve flexibility accommodates vibration and pipe movement caused by expansion/contraction
- 20 years warranty



Multi Flash standard EPDM black

Product code	PU	Ø min.	Ø max.	Base	Required fixing kit	
MF-1-6-70-EPDM-BLACK	15	6	70	114	Set N°1	473303
MF-2-22-101-EPDM-BLACK	15	22	101	152	Set N°2	473405
MF-3-6-146-EPDM-BLACK	15	6	146	203	Set N°2	473408
MF-4-70-177-EPDM-BLACK	10	70	177	254	Set N°2	473410
MF-5-101-209-EPDM-BLACK	10	101	209	280	Set N°2	473412
MF-6-121-254-EPDM-BLACK	10	121	254	305	Set N°2	473414
MF-7-140-292-EPDM-BLACK	10	140	292	356	Set N°3	473416
MF-8-171-343-EPDM-BLACK	5	171	343	432	Set N°3	473418
MF-9-203-520-EPDM-BLACK	5	203	520	635	Set N°4	473420
MF-M-305-724-EPDM-BLACK	5	304	724	864	Set N°5	473422



Multi Flash standard Silicone red

Product code	PU	Ø min.	Ø max.	Base	Required fixing kit	
MF-1-6-70-SILICONE-RED	15	6	70	114	Set N°1	473308
MF-2-22-101-SILICONE-RED	15	22	101	152	Set N°2	473406
MF-3-6-146-SILICONE-RED	15	6	146	203	Set N°2	473409
MF-4-70-177-SILICONE-RED	10	70	177	254	Set N°2	473411
MF-5-101-209-SILICONE-RED	10	101	209	280	Set N°2	473413
MF-6-121-254-SILICONE-RED	10	121	254	305	Set N°2	473415
MF-7-140-292-SILICONE-RED	5	140	292	356	Set N°3	473417
MF-8-171-343-SILICONE-RED	5	171	343	432	Set N°3	473419
MF-9-203-520-SILICONE-RED	5	203	520	635	Set N°4	473421



Multi Flash EPDM black

Product code	PU	Standard		Ø min.	Ø max.	Ø min.	Ø max.	Base	Required fixing kit	Required clip
MULTI-FLASH 3 EPDM BLACK	1	6	146	50	114	203	Set N°2	1237407	1237402	
MULTI-FLASH 4 EPDM BLACK	1	70	177	57	165	254	Set N°2	1237390	1237326	
MULTI-FLASH 5 EPDM BLACK	1	102	209	90	171	279	Set N°2	1237389	1237327	
MULTI-FLASH 8 EPDM BLACK	1	171	343	165	304	431	Set N°3	1237408	1237404	
MULTI-FLASH 9 EPDM BLACK	1	241	520	228	508	635	Set N°4	1237409	1237405	
MULTI-FLASH MAXI EPDM BLACK	1	304	724	330	685	863	Set N°5	1237411	1237410	

Multi Flash Silicone red

Product code	PU	Standard		Ø min.	Ø max.	Ø min.	Ø max.	Base	Required fixing kit	Required clip
MULTI-FLASH 3 RED SILICONE	1	6	146	50	114	203	Set N°2	1237407	1239007	
MULTI-FLASH 5 RED SILICONE	1	102	209	90	171	279	Set N°2	1237389	1239055	
MULTI-FLASH 8 RED SILICONE	1	171	343	165	304	431	Set N°3	1237408	1239056	
MULTI-FLASH MAXI RED SILICONE	1	304	724	330	685	863	Set N°5	1237411	1239057	

Multi Flash fixing kit onto metal sheets

Product code	PU	Silicone transparent	Fastener SX3/9-A12-6,0x29	
MF-SET-1-SX3	1	1 pcs.	12 pcs.	1019634
MF-SET-2-SX3	1	1 pcs.	24 pcs.	1019635
MF-SET-3-SX3	1	1 pcs.	36 pcs.	1019637
MF-SET-4-SX3	1	1 pcs.	48 pcs.	1019638
MF-SET-5-SX3	1	1 pcs.	72 pcs.	1019639



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