

# Roofing and Cladding





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# 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.

## **Monolith made of 7,000 individual parts**

In the city center of Innsbruck, a spectacular and multifunctional residential high-rise of the new generation has been built with a panoramic view of the surrounding mountain ranges: the P2 Tower impresses with its free geometry and its aluminum and glass façade with almost invisible windows. Around 80,000 SFS SX3

fasteners were used for assembly. Despite its large 25,000m<sup>2</sup> gross floor area, the intelligent material selection and façade design remain apparent. The P2 Tower in the heart of Innsbruck creates valuable living space with student apartments and business apartments on eleven floors in the Austrian city. The monolith, designed by architects LAAC, is based on a hybrid concept with different forms of use. The city library, restaurants and a garden can be found in the base area. The modern, high-quality residential units are located in the tower.

## **First-class pull-out values for maximum durability**

The discreet attachment of the clamping rails for the glass elements to the substructure further emphasizes the elegant appearance of the glass elements of the substructure. When choosing



the fastener, the SX3 suitable for single and double-skin metal profiles – was the obvious choice. From the point of view of the metal construction company, the first-class pull-out values and the proven quality of this fastener from SFS were particularly decisive for this decision. Even in the thin-walled aluminium profiles of the P2 Tower, they guarantee durable solutions with maximum resistance to wind and weather. Company Sauritschnig processed a total of 80,000 SX3 fasteners for this purpose.

The result sets the tone in Innsbruck's cityscape and has met with a positive response. LAAC's aim of reaching the inhabitants of the Alpine city with upscale architecture and filling important areas of the city center with new life. Thanks to its high-quality finish, the P2 Tower will continue to do so for many years to come.

#### **Product Manager Lightweight Metal Construction at SFS**

"The excellent pull-out values of the SX3 fastener proved to be an invaluable advantage in this project. Due to the thin-walled aluminium profiles used in the construction of P2 Power, the fastener's performance was a crucial factor for ensuring the long service life of the connection. The ETA-approved stainless steel solution, with its outstanding product attributes, enabled a fast and efficient application, as highlighted by Harald Schwendemann.

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#### **Added Value**

- Self-drilling fastener with attractive appearance
- Excellent pull-out values for the highest loads
- Easy drilling thanks to long drill point





**Latest**

**products**

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**Designed sandwich  
fastener for timber**  
**CXCW-6.5-A2**

Offering chipless sandwich panel fasteners, engineered for minimized splitting tendency



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**New fastener for solar  
mounting systems**  
**CX-6.0-A2**

Presenting cutting-edge solar mounting fasteners, offering the highest standard in setting security and tailored application approval available.



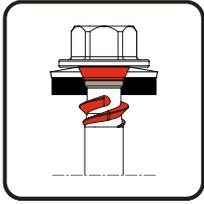
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**Technological  
Leap**  
**SDL1-4.8-A2**

Introducing SFS's groundbreaking full stainless steel fasteners, revolutionizing steel applications with sustainability and precision.

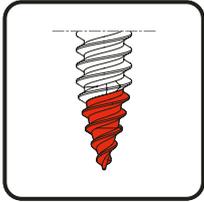


# Features and Innovations



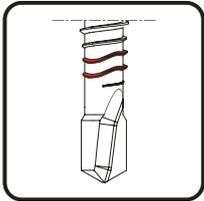
## Premium-Sealing – improved air- and watertightness

The Premium-Sealing, characterized by its free-spin zone, double-support thread with cut-off thread-end, and cone underneath the head for improved settlement, features advanced sealing capabilities for various applications.



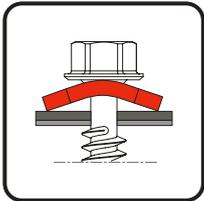
## FastTip® – for rapid, chipless insertion

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



## Wave-Thread – improved values

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.



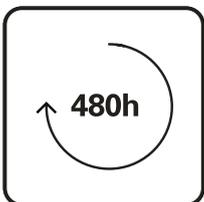
## Thick to Thin – high application area

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.



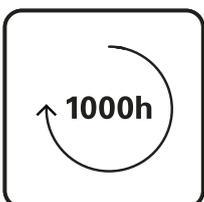
## Safe setting – resistant to unwinding and vibration

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.



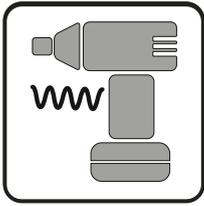
## Durocoat® 480 – high corrosion resistance

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



## Durocoat® 1000 – highest corrosion resistance

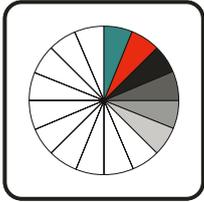
This special surface stands for a high corrosion resistance and guarantees a very long protection against corrosive environmental influences. Durocoat® 1000 corresponds to a resistance of 1000h in the salt spray test according to DIN EN ISO 9227.



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## Impact gun can be used – ergonomical installation

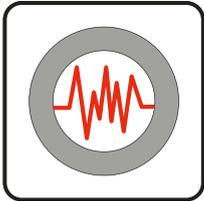
The geometry of the fastener allows the use of an impact gun machine. These machines are ergonomic to use as there is no torque on the wrist. Also the machines are usually smaller than regular drills and can therefore be used in hard-to-reach places.



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## 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.



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## Seismic approved – high physical life

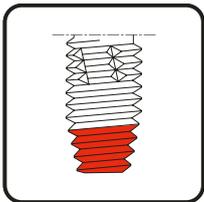
Seismic approved products have been developed for category C1 and/or C2 according to Eurocode EN 1992-4 and ensure high durability and service life.



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## 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.



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## Centering point – easy installation

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



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## Full stainless fastener

Presenting SFS's groundbreaking full stainless steel fasteners, revolutionizing steel applications with sustainability and precision.

# Transparency leads buildings



**EPD stands for Environmental Product Declarations. We are proud to announce EPD for our Roofing and Cladding range. It is a standardized and verified document in accordance with international standard (ISO 14025 and EN15804+2) and verified by independent third-party organizations such as British Research Establishment (BRE) in UK.**

The declaration covers aspects such as energy use, greenhouse gas emissions, air and water pollution, waste generation and more. The goal is to offer transparent and dependable information, assisting architects, engineers, building owners, and others in making informed decisions regarding product and material sustainability.

The verified Life Cycle Assessment (LCA) acknowledges our dedication to sustainability and environmental responsibility across

all facets of our business. The EPD provides detailed information on the environmental impact of our fasteners, focusing on manufacturing process, called cradle to gate, end-of-life stage (module C) and the benefits and loads beyond the system boundary (module D) following the latest standard.



# Global safety certification



**FM Approvals is a product testing and certification program of the industrial insurance company FM Global. The FM Approvals standards are available worldwide. FM APPROVED certification is recognized by leading companies around the world.**

FM Approvals, issued by FM Global, signifies products meeting high standards. Insuring with FM Global requires FM Approved materials for top quality and reduced risk, benefiting both owners and insurers. FM Approved products undergo rigorous testing for safety, fire, wind load, etc., making them favorable for construction.

To obtain FM approval our fastener undergoes inspection test exclusively conducted by FM Approvals in Boston, United States. Upon successfully passing the FM Approvals test, the product earns the FM approved designation visible on our packaging label. While obtaining the FM quality mark and the certificate of

compliance is an initial achievement, maintaining it is equally crucial, facilitated through regular audits. FM approval conducts bi-annual audits of our product range. Fulfilling these requirements ensures permission to use their quality mark and signifies a commitment to ongoing quality assurances. 3 main reasons to choose FM approved fasteners:

1. Quality assurance proof of one of the highest possible qualities in roofing & cladding
2. Growing trend in the European market
3. Attracting major tenants from the United States to their European properties





# Technical approvals

## ETA – European Technical Assessment

ETAs represent evidence of the technical suitability of a construction product in line with the Construction Products Regulation (CPR) 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 Assessments

ETA-10/0198	Fasteners for metal members and sheeting (stainless steel)	
ETA-13/0183	Fasteners for sandwich panels (stainless steel)	
ETA-13/0255	Blind rivets	
ETA-15/0784	Fasteners for use in cracked and uncracked concrete	
ETA-20/0115	Concrete fasteners of fastening sandwich panels	
ETA-21/0784	Fasteners for sandwich panels (carbon steel)	
ETA-22/0605	Fasteners for metal members and sheeting (carbon steel)	
ETA-23/1026	Fasteners for metal members and sheeting (solar)	

## 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-14.4-890	Concrete fasteners for fastening of sandwich panels	
Z-14.4-776	Fasteners for connection of steel structural members in steel and high bay warehouse structures	
Z-14.4-872	Fasteners of connecting wood panels with steel profiles	

# Metal corrosion and fastener material

**Metal corrosion and the resulting rust formation is basing on a chemical process by oxidation of the metal with oxygen in the presence of water or moisture.**

The local environment of the metal has a significant influence on favoring the corrosion process such as:

- High humidity and frequent condensation
- High air pollution by e.g. sulfur dioxide
- High salinity in the air
- Special environments like e.g. indoor swimming pool atmospheres

The superimposed environmental influences are categorized in EN ISO 9223 what needs to be taken into account when selecting the fastener material. Particular attention should be paid to

coastal areas as a high salinity in the air leads to a strong acceleration of the corrosion process. Air pollution from sulfur dioxide has decreased significantly since the 1980s and is therefore no longer as relevant as it used to be.

In addition the combination between fastener and component material needs to be taken into account for prevention of contact corrosion. The contact between two different metals in the presence of water or moisture leads to an electrochemical reaction. This may result in corrosion effects depending on the electrochemical potential difference and the area ratio of the metals.

## Contact corrosion

Fastener material	Construction component material		
	Galvanised steel	Aluminium	Stainless steel
Stainless steel			
Galvanised steel			

	Suitable material combination
	Non suitable combination

# Corrosivity categories and fastener material

## Corrosion at atmospheric environments

Corrosivity category	C1 ery low	C2 Low	C3 Medium	C4 <sup>1)</sup> High	C5 Very high	CX Very high
Typical outdoor atmospheric environments for corrosion according to EN ISO 9223	Dry or cold climate zones, atmospheres with minimal pollution and brief moisture	Atmospheres with low air pollution	Atmospheres with moderate air pollution, or with minimal chloride influence.	Atmospheres with high air pollution or significant chloride influence, industrial zones, coastal regions	Atmospheres with very high air pollution, and/or significant chloride influence, e.g., industrial zones, coastal areas, protected coastal sites	Atmospheres with very high air pollution from SO <sub>2</sub> , incl. accompanying and production-related pollutants and/or heavily influenced by chlorides

## Fastener material

Stainless steel A4	 
Stainless steel A2	  
Carbon steel Durocoat®	  
Carbon steel galvanised	  

	The material is suitable and can be utilized. The expected working life is at least 25 years based on ETA. <sup>2)</sup>
	The material can be utilized in specific circumstances. Professional expertise is required for guidance.
	The material is not suitable.

<sup>1)</sup> For swimming pool hall atmospheres, special approval is required.

<sup>2)</sup> This value 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.

# Product Overview

## Roofing and Cladding

Product	Page	Self-drilling fastener		Self-tapping fastener	Substructure Sheet	Profile	Beam	Timber	Concrete
		Drill point	FastTip®						
									

### Stainless steel fasteners

CX-6.0-A2	43		•		•				
CXCW-6.5-A2	45		•					•	
CXLW-4.8-A2/A4	48		•		•			•	
MMS-plus-A4	50			•					•
MXC-7.5-A4	53			•					•
SCFW-S-6.5-A2	56	•						•	
SD1-D7-4.8-A2	58	•			•				
SDL1-4.8-A2	60	•			•				
SLG-S-6.5-A2	62		•		•				
SX2-D7-4.8-A2	64	•			•				
SX3-6.0-A2/A4	66	•			•	•			
SX5-5.5-A2/A4	68	•				•			
SX5-6.3-A4	70	•				•		•	
SX14-5.5-A2/A4	72	•					•		
SX16-5.8-A4	74	•					•		
SXC5-6.3-A2/A4	76	•				•		•	
SXC16-5.8-A2/A4	79	•					•		
SXD3-5.5-A2	82	•			•				
SXK2-6.0-A2	84	•			•			•	
SXK3-6.0-A2	86	•				•			
SXL2-6.3-A2/A4	88	•			•				
SXL3-6.0-A2/A4	90	•			•				
SXW-6.5-A2	92	•						•	
TDA-S-6.5-A2	94			•		•		•	
TDB-S-6.3-A2/A4	97			•		•	•		
TDC-S-7.1-A2	100			•		•			

# Product Overview

## Roofing and Cladding

Product	Page	Self-drilling fastener			fastener	Substructure Sheet	Profile	Beam	Timber	Concrete
		Drill point	FastTip®							
										

### Carbon steel fasteners

CDL-4.8	104		•			•				
CDM-4.8	106		•			•				
DD2-4.8	108	•				•				
DD4-4.8	110	•					•			
DD5-5.5	112	•					•			
DD12-5.5	114	•						•		
DDC5-5.5	116	•					•		•	
DDC12-5.5	118	•						•		
MDC-7.5	120			•						•
MDW-6.3	123			•			•		•	•
MMS-plus	126			•						•
SCF3-6.3	129	•					•			
SCF12-6.3	131	•						•		
SCFW-6.5	133	•							•	
SD3-5.5	135	•				•				
SD6-5.5	137	•					•			
SD6-H15-E11-5.5	139	•					•			
SD14-5.5	141	•						•		
SD14-H15-E11-5.5	143	•						•		
SD20-5.5	145	•						•		
SD20-H15-E11-5.5	147	•						•		
SDC5-6.3	149	•					•		•	
SDC14-5.5	152	•						•		
SDRT2-5.5	155	•				•				
SDTW-6.5	157	•							•	
SL2-4.8	159	•				•				
SL2-T-4.8	161	•				•				
SL2-H15-6.3	163	•				•				
SL3-H15-6.3	165	•				•				
SDP3-D10-TC19-5.5	167	•					•			
SDP14-D10-TC19-5.5	169	•						•		
SW-T-4.8	171	•							•	
SW3-T-6.5	173	•							•	
SW3-H15-6.5	175	•							•	

### Rivets

BULB-TITE®	177					•				
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# Product Overview

## Roofing and Cladding

### Tools and Accessories

Page	Product
179	Bits and sockets
182	SOK-IT®-Torque socket
184	HSS drill bits
186	SDS drill bits
187	Flashing Combo
190	Sealing tape LDL
192	Sealing tape LS
194	Sealing tape PE
196	Decoupling tape EB
198	Butyl tape BB

# Product Overview

## Structural connections

### Fasteners

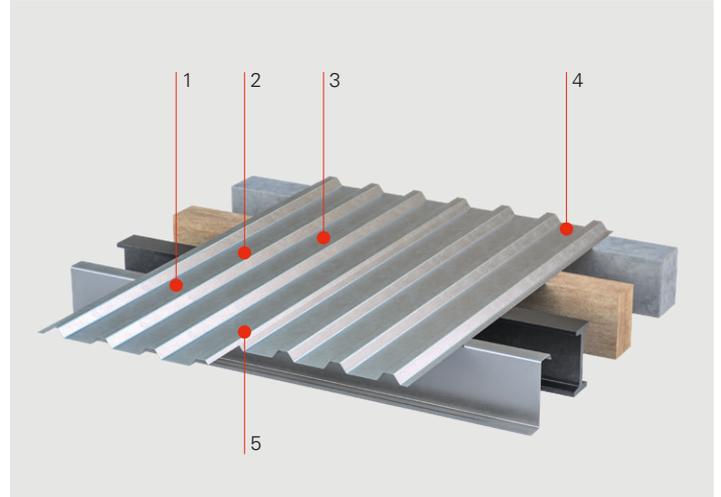
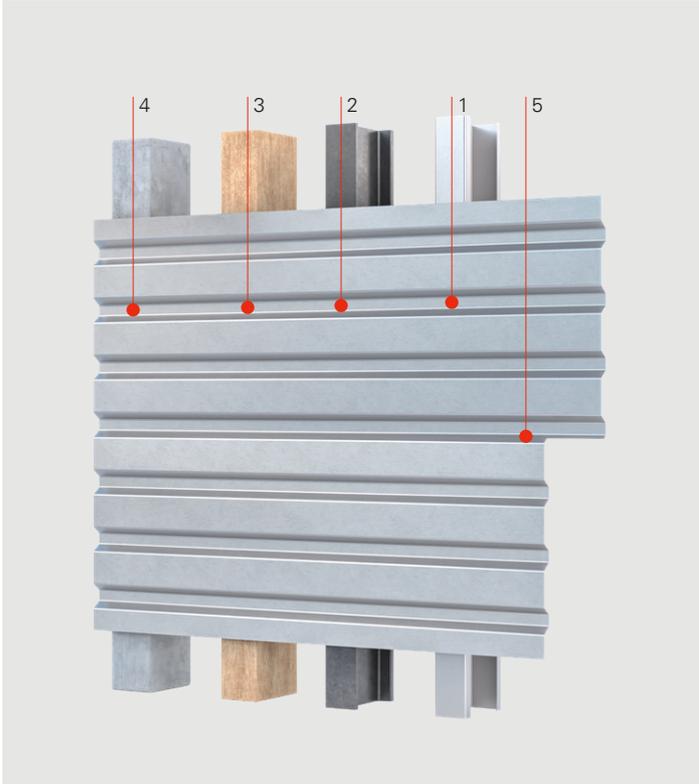
Page	Product
200	nonut® TDBL 8.6
203	nonut® TDBL 10.6
205	nonut® TDBL 13.4
207	SC5-5.5
209	SC6-6.3
211	SDL3-F-4.2
213	SDL3-F-4.8

### Tools and accessories

Page	Product
217	CF250, CF250-PL-Setting tools
215	Bits and sockets

# Metal sheet

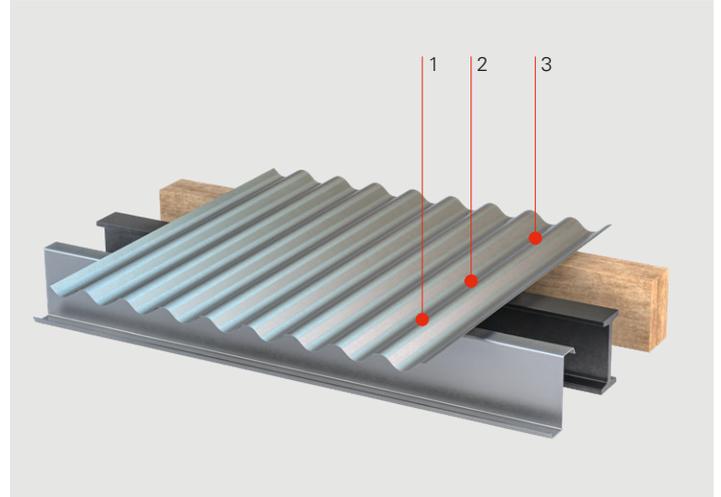
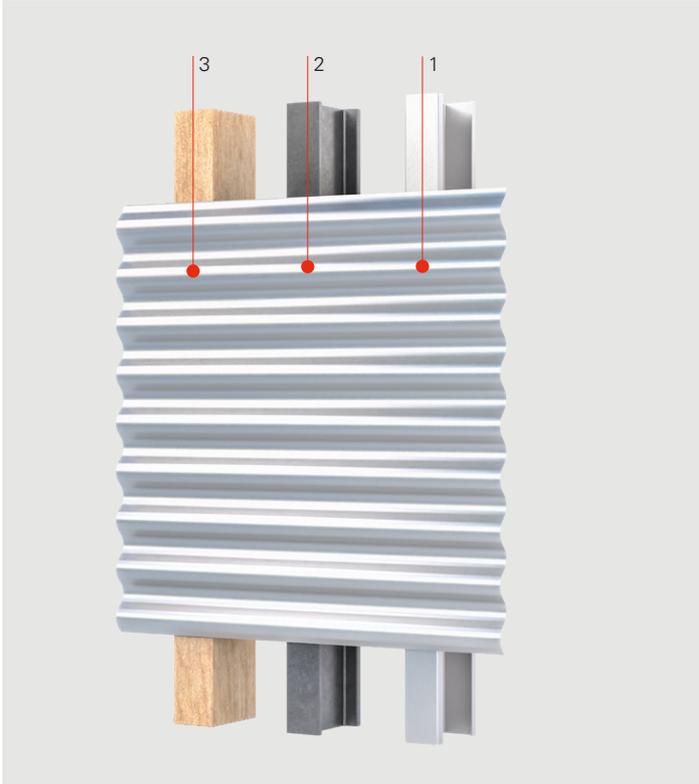
## Single-skin roof and wall



1	Profile sheet to metal profile
2	Profile sheet to steel beam
3	Profile sheet to timber
4	Profile sheet to concrete
5	Overlap of profile sheet

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5
		Drill point	FastTip®						
<b>Stainless steel fasteners</b>									
CXLW-4.8-A2/A4	48		•				•		•
SDL1-4.8-A2	60	•							•
SX3-6.0-A2/A4	66	•			•				
SX5-5.5-A2/A4	68	•			•				
SX14-5.5-A2/A4	72	•				•			
SXL2-6.3-A2/A4	88	•							•
SXW-6.5-A2	92	•					•		
TDA-S-6.5-A2	94			•	•		•		
TDB-S-6.3-A2/A4	97			•	•	•			
TDC-S-7.1-A2	100			•	•				
<b>Carbon steel fasteners</b>									
CDL-4.8	104		•						•
DD2-4.8	108	•							•
DD4-5.5	110	•			•				
DD5-5.5	112	•			•				
DD12-5.5	114	•				•			
MDW-6.3	123			•	•		•	•	
SD3-5.5	135	•			•				
SD6-5.5	137	•			•				
SD14-5.5	141	•				•			
SD20-5.5	145	•				•			
SL2-T-4.8	161	•							•
SW-T-4.8	171	•					•		
SW3-T-6.5	173	•					•		

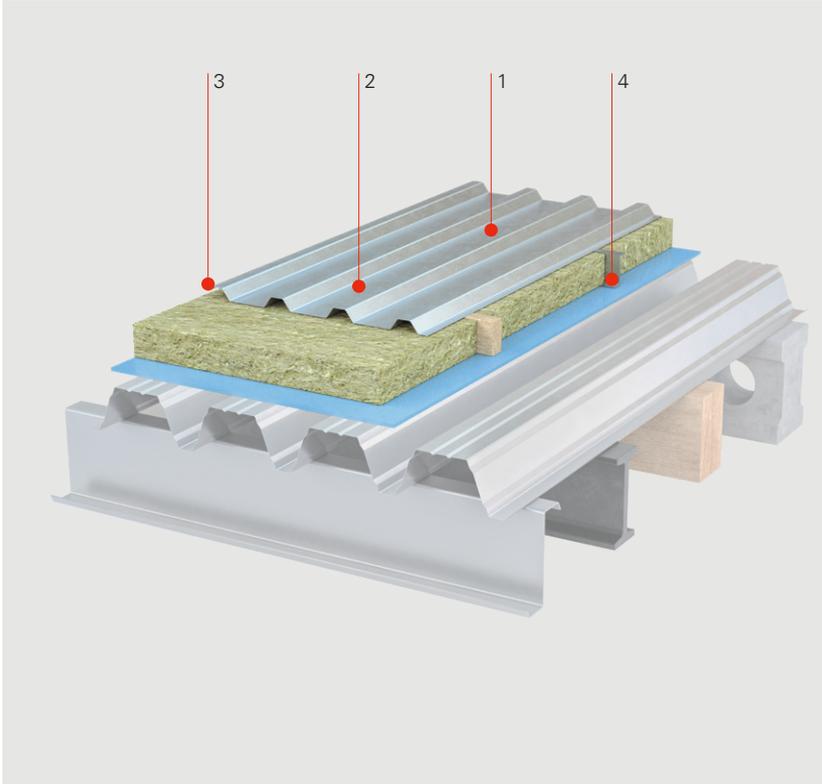
# Fibre cement Single-skin roof and wall



1	Fibre cement board to metal profile
2	Fibre cement board to steel beam
3	Fibre cement board to timber

Product	Page	Self-drilling		Self-tapping	1	2	3
		Drill point	FastTip®				
<b>Stainless steel fasteners</b>							
SCFW-S-6.5-A2	133	•					•
<b>Carbon steel fasteners</b>							
SCF3-6.3	129	•			•		
SCF12-6.3	131	•				•	
SCFW-6.5	133	•					•

# Build-up Twin-skin roof construction

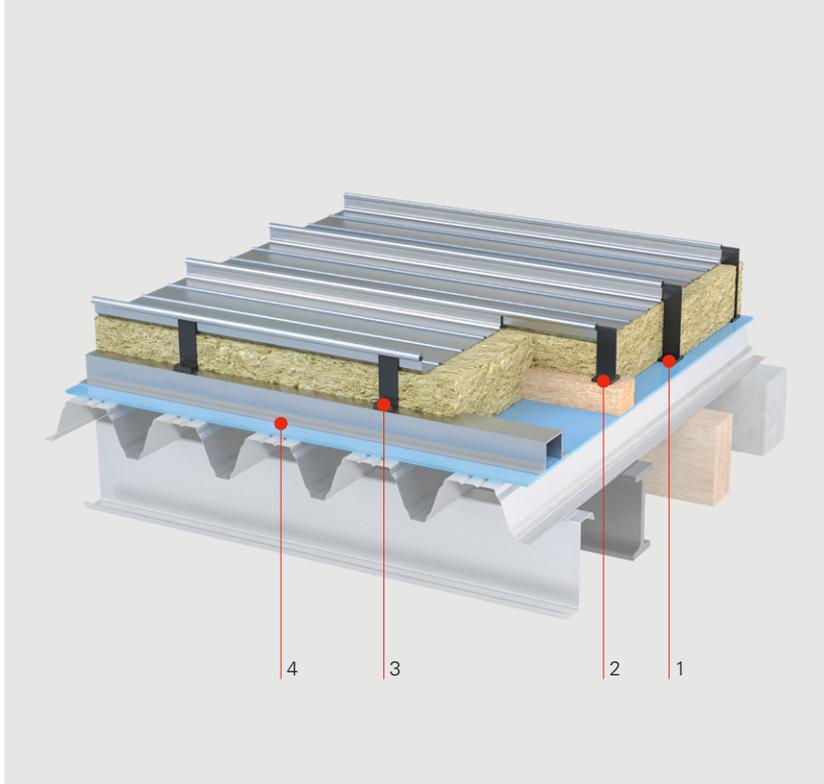


1	Profile sheet to metal profile
2	Profile sheet to timber
3	Overlap of profile sheet
4	Metal profile to metal deck

Fastening of metal deck refer to page "Interior decking and lining"

Product	Page	Self-drilling		Self-tapping	1	2	3	4
		Drill point	FastTip®					
<b>Stainless steel fasteners</b>								
CXLW-4.8-A2/A4	48		•			•	•	
SDL1-4.8-A2	60	•					•	
SLG-S-6.5-A2	62		•					•
SX3-6.0-A2/A4	66	•			•			
SX5-5.5-A2/A4	68	•			•			
SXL2-6.3-A2/A4	88	•					•	
SXL3-6.0-A2/A4	90	•						•
SXW-6.5-A2	92	•				•		
TDA-S-6.5-A2	94	•			•	•		
TDB-S-6.3-A2/A4	97				•			
TDC-S-7.1-A2	100				•			
<b>Carbon steel fasteners</b>								
CDL-4.8	104		•				•	
DD2-4.8	108	•					•	
DD4-5.5	110	•			•			
DD5-5.5	112	•			•			
MDW-6.3	123			•	•	•		
SD3-5.5	135	•			•			
SD6-5.5	137	•			•			
SL2-T-4.8	161	•					•	
SL3-H15-6.3	163	•						•
SW-T-4.8	171	•				•		
SW3-T-6.5	173	•				•		
<b>Rivets</b>								
BULB-TITE®	177							•

# Standing Seam Twin-skin roof construction



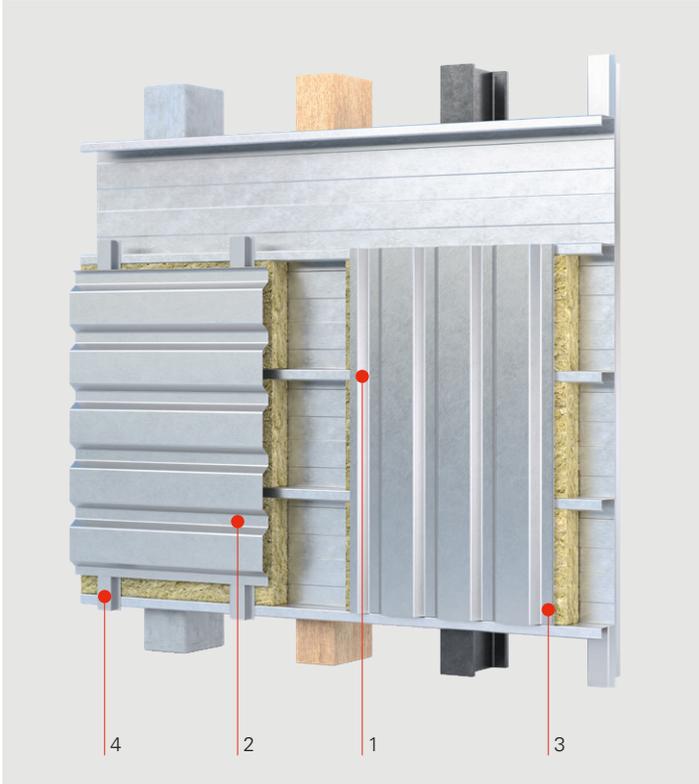
- |   |                             |
|---|-----------------------------|
| 1 | Clip to metal deck          |
| 2 | Clip to metal timber        |
| 3 | Clip to metal profile       |
| 4 | Metal profile to metal deck |

Fastening of metal deck refer to page "Interior decking and lining"

Product	Page	Self-drilling		Self-tapping	1	2	3	4
		Drill point	FastTip®					
<b>Stainless steel fasteners</b>								
SLG-S-6.5-A2	62		•					•
SX3-6.0-A2/A4	66	•			•		•	
SXL3-6.0-A2/A4	90	•						•
SXK2-6.0-A2	84	•			•	•		
SXK3-6.0-A2	86	•					•	
<b>Carbon steel fasteners</b>								
SL3-H15-6.3	165	•						•
<b>Rivets</b>								
BULB-TITE®	177						•	•

# Liner Tray

## Twin-skin wall construction



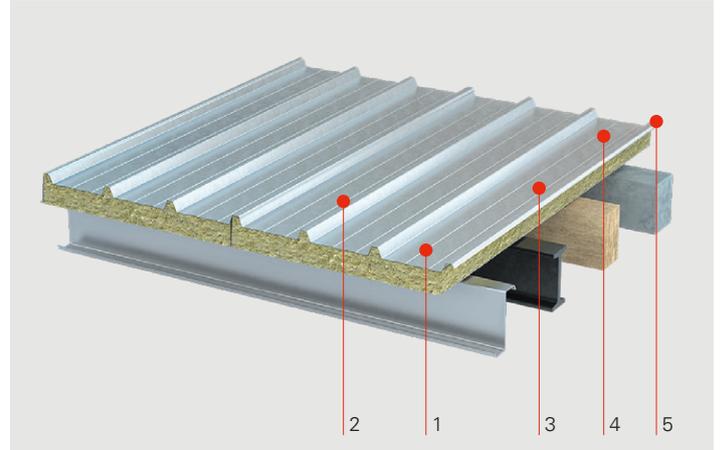
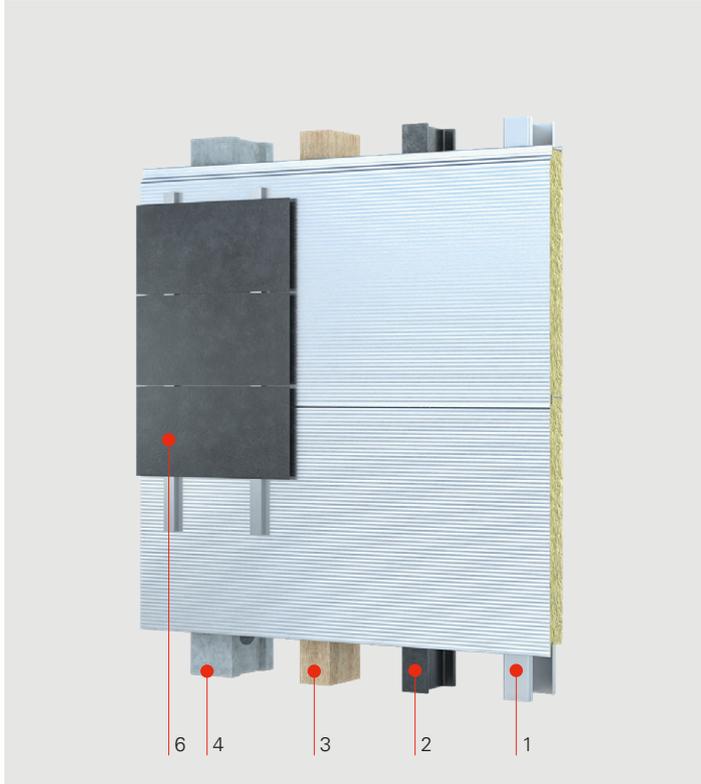
1	Profile sheet to liner tray
2	Profile sheet to metal profile
3	Overlap of profile sheet
4	Metal profile to liner tray

Fastening of liner tray to substructure refer to page "Interior decking and lining"

Product	Page	Self-drilling		Self-tapping	1	2	3	4
		Drill point	FastTip®					
<b>Stainless steel fasteners</b>								
CXLW-4.8-A2/A4	48		•				•	
SDL1-4.8-A2	60	•					•	
SLG-S-6.5-A2	62		•					•
SX3-6.0-A2/A4	66	•			•			
SX5-5.5-A2/A4	68	•				•		
SXD3-5.5-A2	82	•			•			
SXL2-6.3-A2/A4	88	•					•	
TDA-S-6.5-A2	94			•	•	•		
TDB-S-6.3-A2/A4	97			•		•		
TDC-S-7.1-A2	100			•	•	•		
<b>Carbon steel fasteners</b>								
CDL-4.8	104		•				•	
DD2-4.8	108	•					•	
DD4-5.5	110	•			•			
DD5-5.5	112	•				•		
MDW-6.3	123			•	•	•		
SD3-5.5	135	•			•			
SD6-5.5	137	•			•			
SDRT2-5.5	155	•			•			
SL2-T-4.8	159	•					•	
SL3-H15-6.3	165	•						•

# Sandwich panels

## Roof and wall construction



1	Sandwich panel to metal profile
2	Sandwich panel to steel beam
3	Sandwich panel to timber
4	Sandwich panel to concrete
5	Overlap of sandwich panel
6	Carrier profile to sandwich panel

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5	6
		Drill point	FastTip®							
<b>Stainless steel fasteners</b>										
CXCW-6.5-A2	45		•				•			
CXLW-4.8-A2/A4	48		•						•	
MXC-4.5-A4	53			•				•		
SDL1-4.8-A2	60	•							•	
SLG-S-6.5-A2	62		•							•
SX5-6.3-A4	68	•			•		•			
SXL2-6.3-A2/A4	88	•							•	
SX16-5.8-A4	74	•				•				
SXC5-6.3-A2/A4	76	•			•		•			
SXC16-5.8-A2/A4	79	•				•				
TDA-S-6.5-A2	94			•	•		•			
TDB-S-6.3-A2/A4	97			•	•	•				
<b>Carbon steel fasteners</b>										
CDL-4.8	104		•						•	
DD2-4.8	108	•							•	
DDC5-5.5	116	•			•		•			
DDC12-5.5	118	•				•				
MDW-6.3	123			•	•		•	•		
MDC-7.5	120			•				•		
SDC5-6.3	149	•			•		•			
SDC14-5.5	152	•				•				
SL2-T-4.8	161	•							•	
SDTW-6.5	157	•					•			

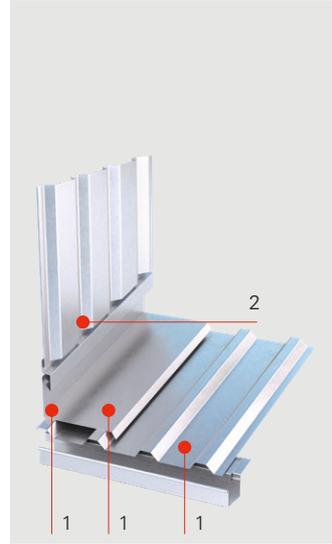
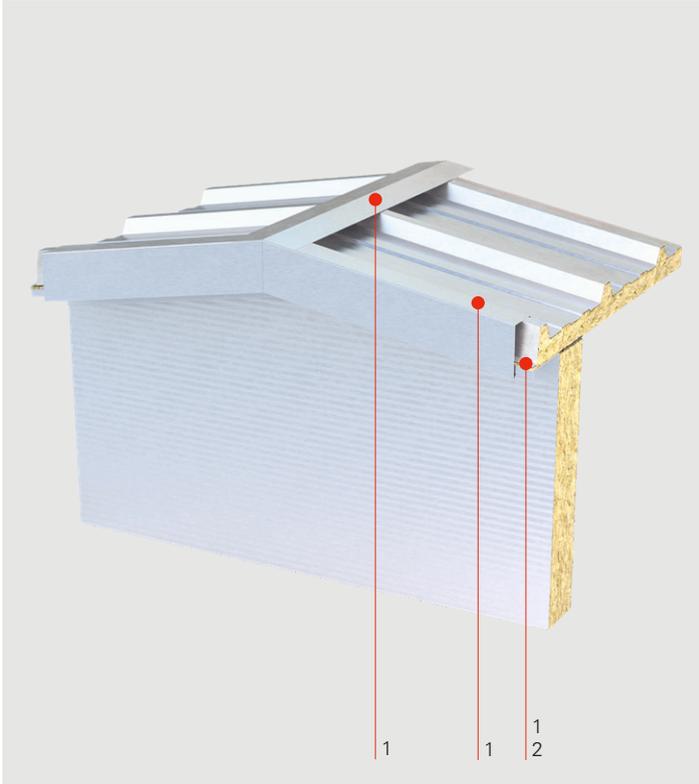
# Single-ply Panel Roof construction



- 1 | Single-ply panel to metal profile
- 2 | Single-ply panel to steel beam
- 3 | Overlap of single-ply panel

Product	Page	Self-drilling		Self-tapping	1	2	3
		Drill point	FastTip®				
<b>Carbon steel fasteners</b>							
SDP3-D10-TC19-5.5	167	•			•		•
SDP14-D10-TC19-5.5	169	•				•	

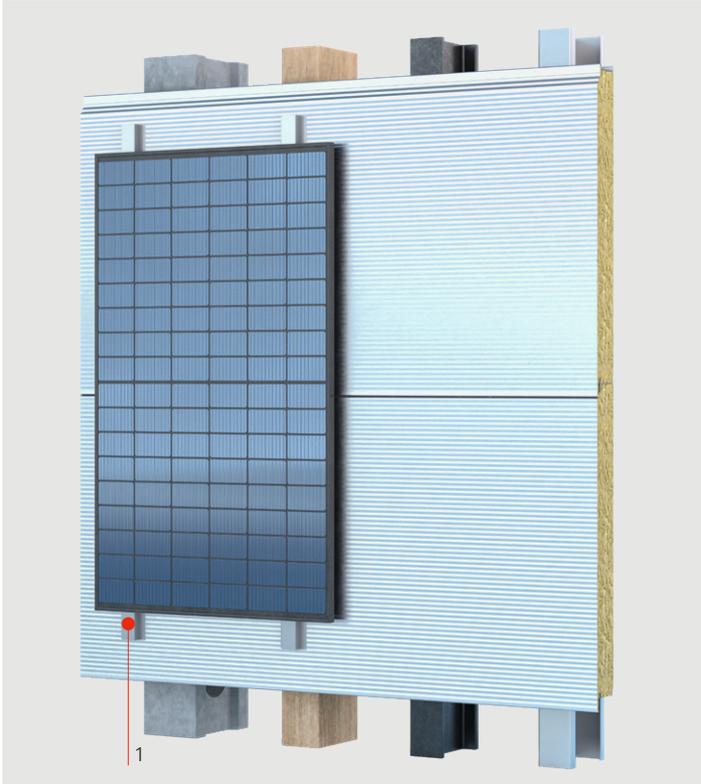
# Flashing Roof and wall



- |   |  |
|---|--|
| 1 | Flashings to profile sheet or sandwich panel on the roof |
| 2 | Flashings to profile sheet or sandwich panel at the wall |

Product	Page	Self-drilling		Self-tapping	1	2
		Drill point	FastTip®			
<b>Stainless steel fasteners</b>						
CXLW-4.8-A2/A4	48		•		•	•
CXLW-D10-4.8-A2/A4	48		•			•
SDL1-4.8-A2	60	•			•	•
SDL1-D10-4.8-A2	60	•				•
SD1-D7-4.8-A2	58	•				•
SX2-D7-4.8-A2	64	•				•
SXL2-6.3-A2/A4	88	•			•	•
<b>Carbon steel fasteners</b>						
CDL-4.8	104		•		•	•
DD2-4.8	108	•			•	•
SL2-T-4.8	161	•			•	•
<b>Rivets</b>						
BULB-TITE®	177					•

# Solar Roof and wall

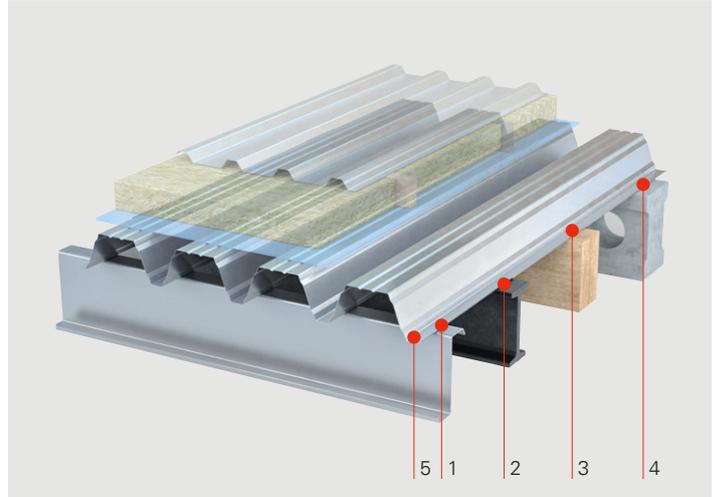
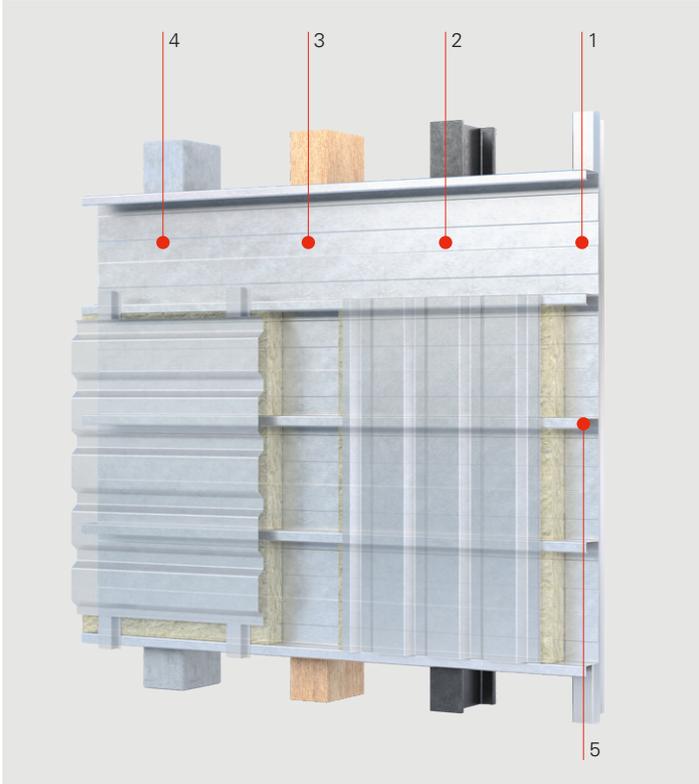


- |   |  |
|---|--|
| 1 | Carrier profile to profile sheet or sandwich panel at the wall |
| 2 | Carrier profile to profile sheet or sandwich panel on the roof |

Product	Page	Self-drilling		Self-tapping	1	2
		Drill point	FastTip®			
<b>Stainless steel fasteners</b>						
CX-6.0-A2	43		•		•	•
SLG-S-6.5-A2	62		•		•	•
<b>Rivets</b>						
BULB-TITE®	177				•	

# Interior decking and lining

## Roof and wall



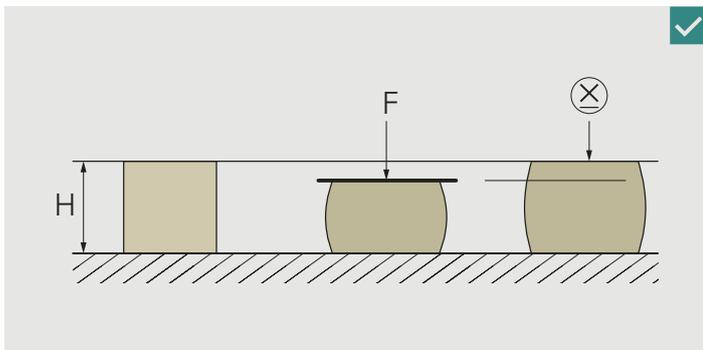
1	Metal deck/liner tray to metal profile
2	Metal deck/liner tray to steel beam
3	Metal deck/liner tray to timber
4	Metal deck/liner tray to concrete
5	Overlap of metal deck/liner tray

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5
		Drill point	FastTip®						
<b>Stainless steel fasteners</b>									
MMS-plus-A4	50			•				•	
<b>Carbon steel fasteners</b>									
CDM-4.8	106		•						•
MMS-plus	126			•				•	
SD6-H15-E11-5.5	139	•			•				
SD14-H15-E11-5.5	143	•				•			
SD20-H15-E11-5.5	147	•				•			
SL2-4.8	159	•							•
SL2-H15-6.3	163	•							•
SL3-H15-6.3	165	•			•				•
SW3-H15-6.5	175	•					•		

# Fasteners with sealing washers

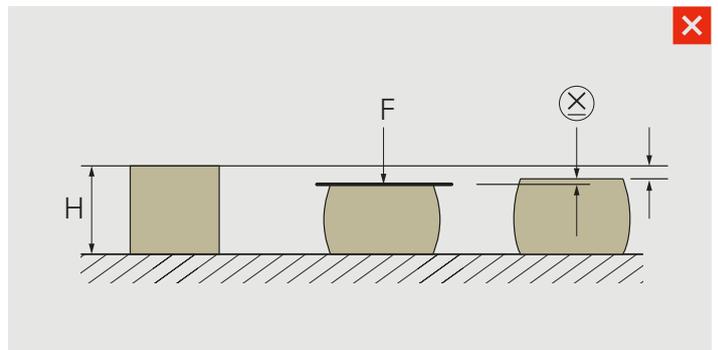
Our EPDM sealing washers are guaranteed to provide a long-term seal. The non-conductive EPDM rubber is reinforced with fillers and has high weather and ozone resistance with long-term durability. Further characteristics are high chemical and temperature resistance.

## Our solution

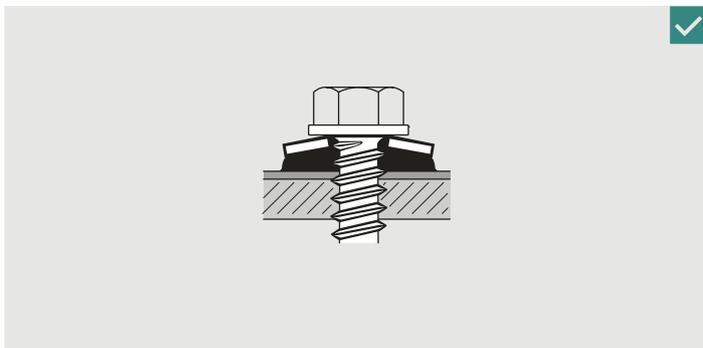


**Increased water tightness** by high elasticity of the EPDM-seal

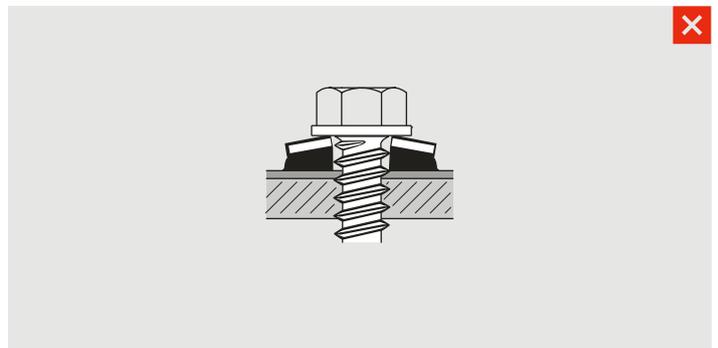
## Standard solution



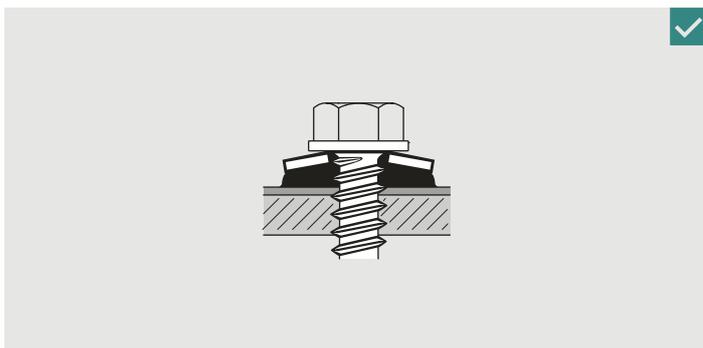
**Reduced water tightness** due to low elasticity of the seal



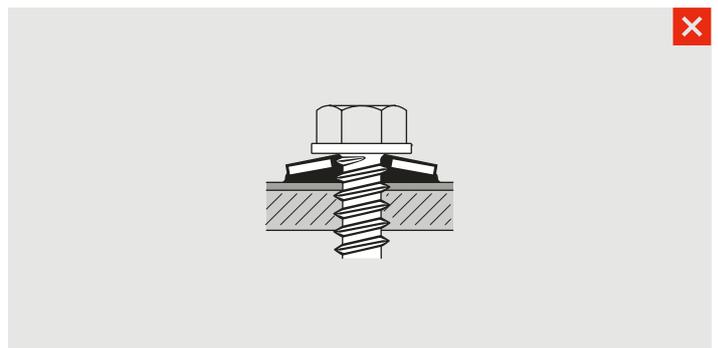
**Increased water tightness** as inner diameter of the seal fits to the fastener geometry



**Reduced water tightness** as inner diameter of the seal is not adapted to fastener geometry



**Reduced risk of washer inversion** by thick and soft seal



**Increased risk of washer inversion** due to hard and thin seal

# Installation instruction for fasteners

## Fastening onto metal and timber:

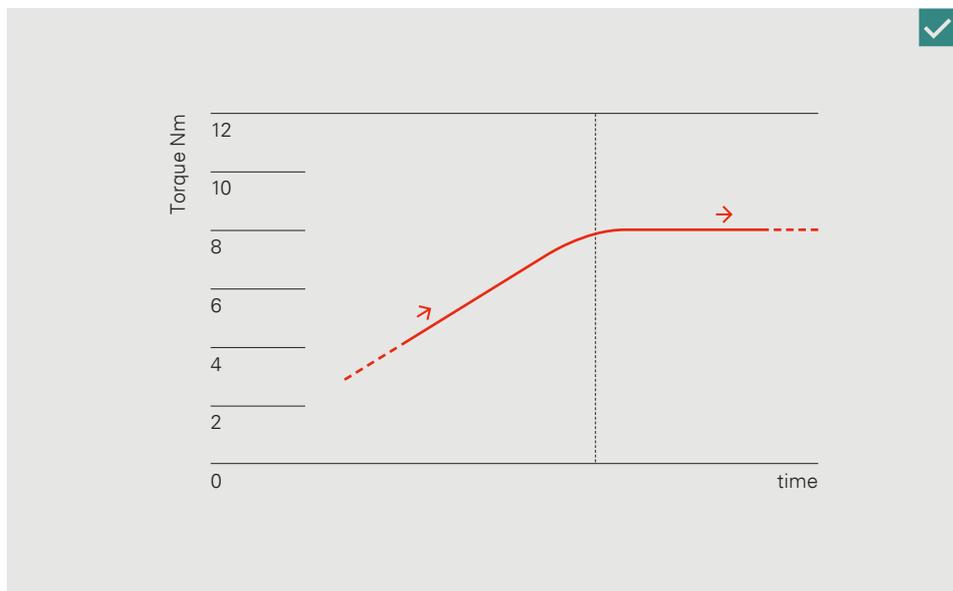
- Installation with screw gun
- Rotation speed 1'200-2'000 rpm
- Drilling pressure 200-300N

For fasteners without sealing washer the use of torque socket SOK-IT® is highly recommended (see tools and accessories)

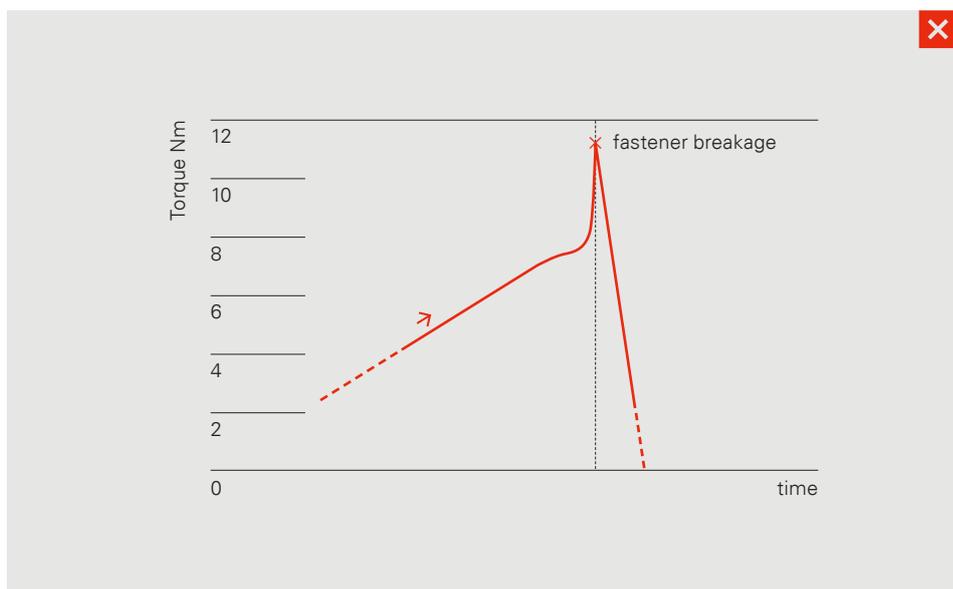
## Fastening onto concrete:

- Installation with impact gun  
(exception MDW-6.3 with screw gun)
- Torque force according to product sheets

### SOK-IT®-Torque socket



### Standard socket



# Installation instruction for fasteners

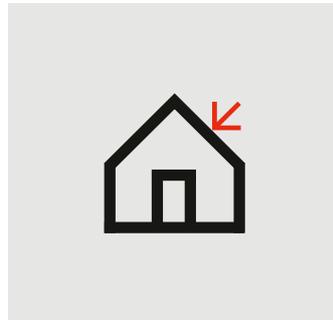
## Sealing washer size



**Wall**  
 Primary fixing  $\geq 16$  mm  
 Secondary fixing  $\geq 14$  mm



**Roof**  
 Primary fixing  $\geq 19$  mm  
 Secondary fixing  $\geq 14$  mm



**Rooflight**  
 Primary fixing 29 mm

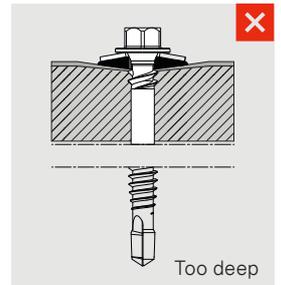
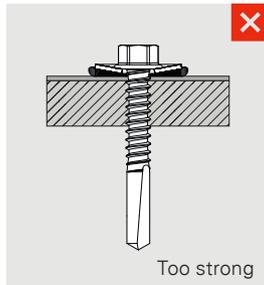
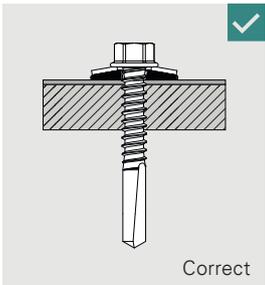
### Primary fixing

Profil sheets and sandwich panels to substructure

### Secondary fixing

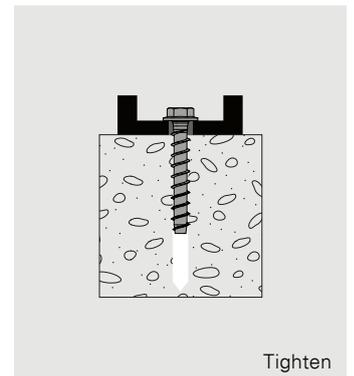
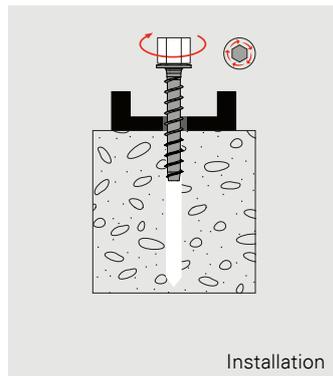
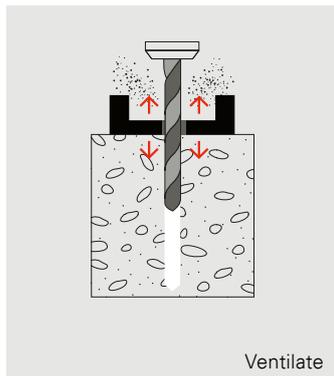
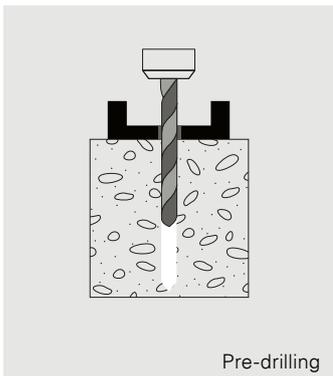
Overlap of profile sheets and sandwich panels.

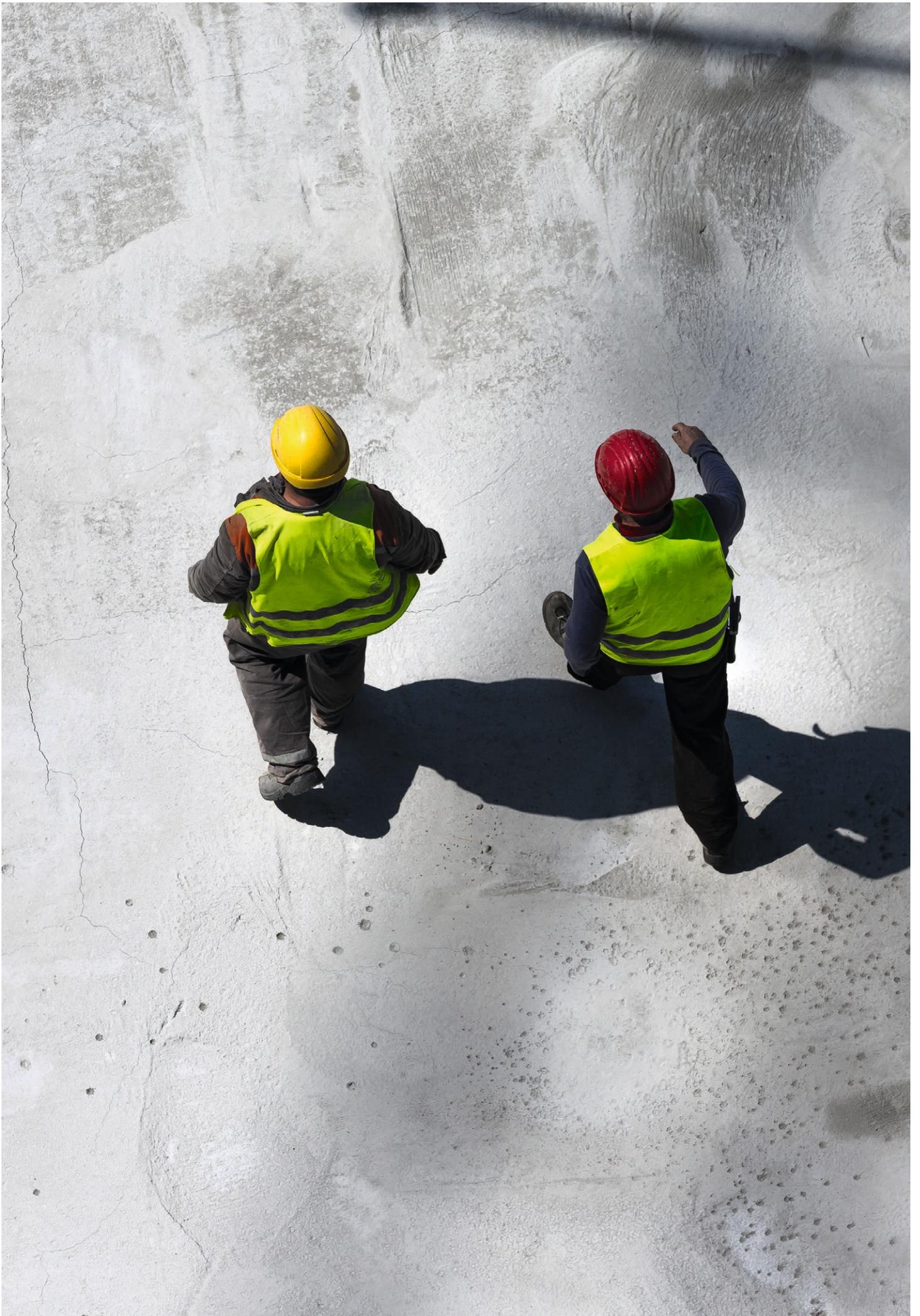
## Installation of sealing washers



Recommendation: Installation tool with depth locator

## Installation of concrete fasteners

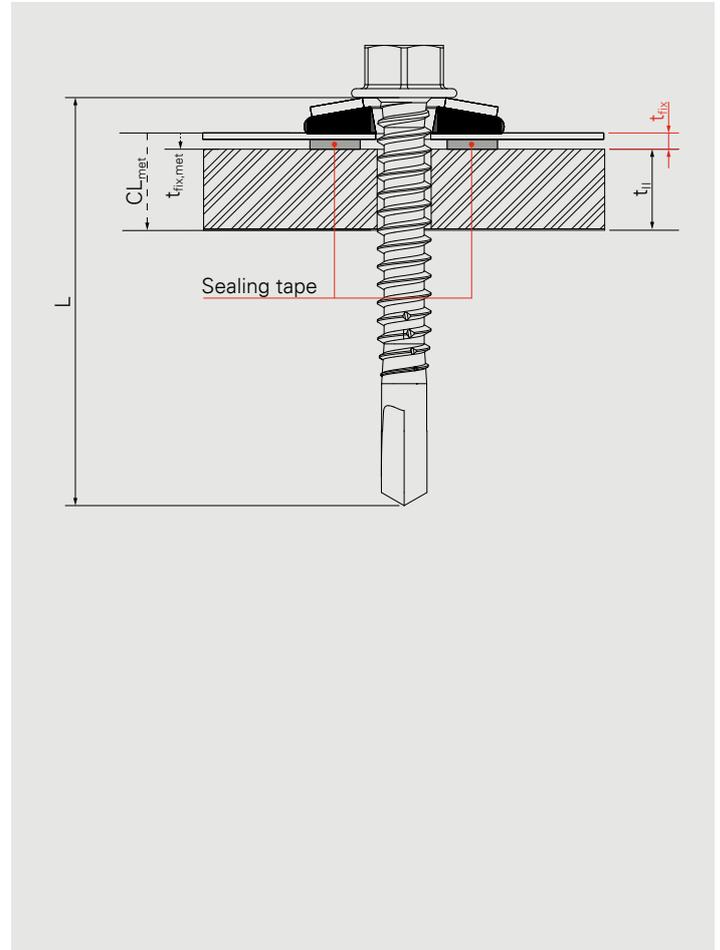
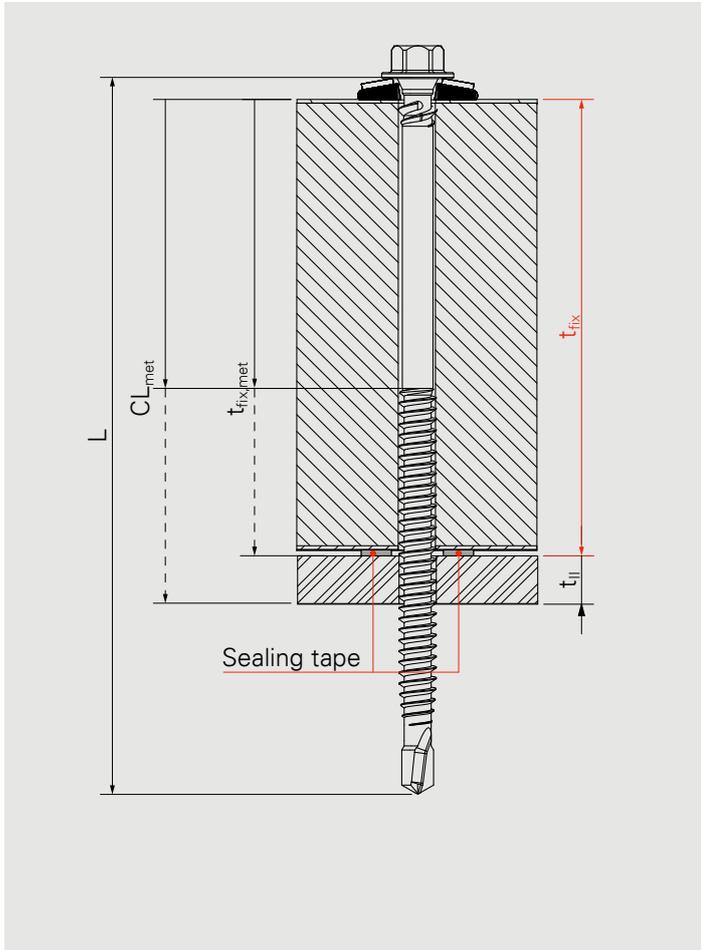




# Fastening onto metal

## Clamping range $CL_{met}$

## Fixing thickness $t_{fix,met}$



### Fastener selection

The following conditions have to be met:

$t_{fix} > \min. CL_{met}$  and  $t_{fix} + t_{II} < \max. CL_{met}$

Alternative method if in addition  $t_{fix,met}$  is indicated:

The following condition has to be met:

$t_{fix}$  within  $t_{fix,met}$

### Abbreviations

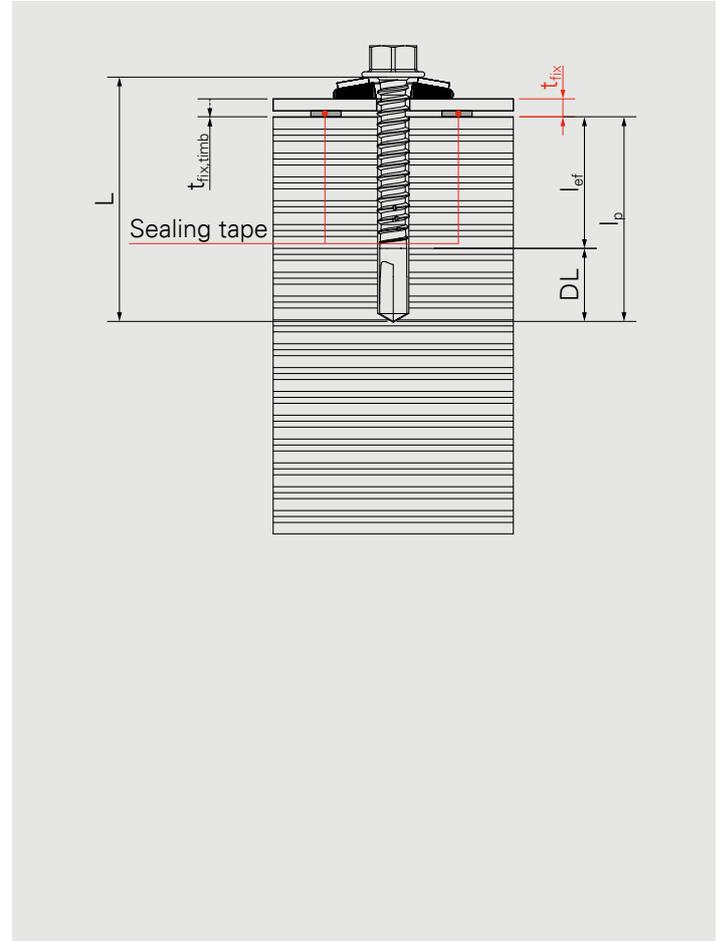
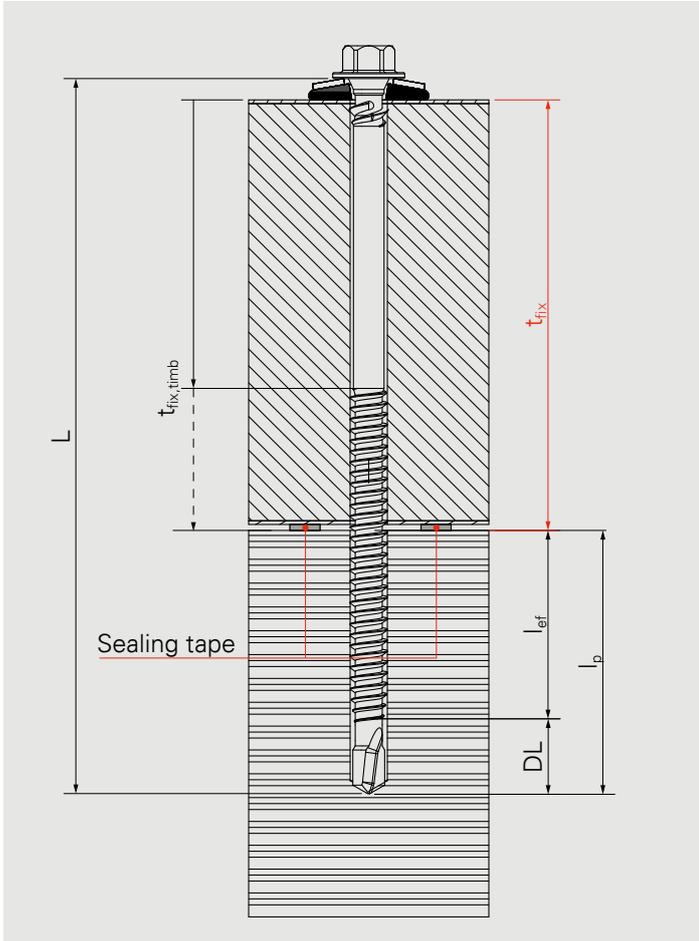
$t_{fix}$	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, ...)
$t_I$	Thickness of component I
$t_{II}$	Thickness of component II
$CL_{met}$	Clamping range of the fastener in which component II has to be located
$t_{fix,met}$	Total thicknesses that can be fixed onto metal by the fastener
$L$	Length of the fastener

### Notes

- $t_{fix,met}$  is given by the minimum required and maximum possible screw-in depth of the fastener
- $CL_{met}$  is given by the maximum load-bearing length and maximum possible screw-in depth of the fastener
- For  $t_{II} \leq 6$  mm, the entire component has to be penetrated by the load-bearing length of the fastener (see EN 1090-4)
- For  $t_{II} > 6$  mm, at least 6 mm of the load-bearing length of the fastener has to be located in component II (see EN 1090-4), in this case, the load-bearing length located in component II can be equated to  $t_{II}$  with regards of the length selection of the fastener
- Component tolerances have to be taken into account

# Fastening onto timber

## Fixing thickness $t_{\text{fix,timb}}$



### Fastener selection

The following condition has to be met:

$t_{\text{fix}}$  within  $t_{\text{fix,timb}}$

### Abbreviations

$t_{\text{fix}}$	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, ...)
$t_i$	Thickness of component I
$l_p$	Screw-in depth in timber
$l_{\text{ef}}$	Screw-in depth in timber without drill point
$t_{\text{fix,timb}}$	Total thicknesses that can be fixed onto timber by the fastener
<b>DL</b>	Length of the drill point
<b>L</b>	Length of the fastener

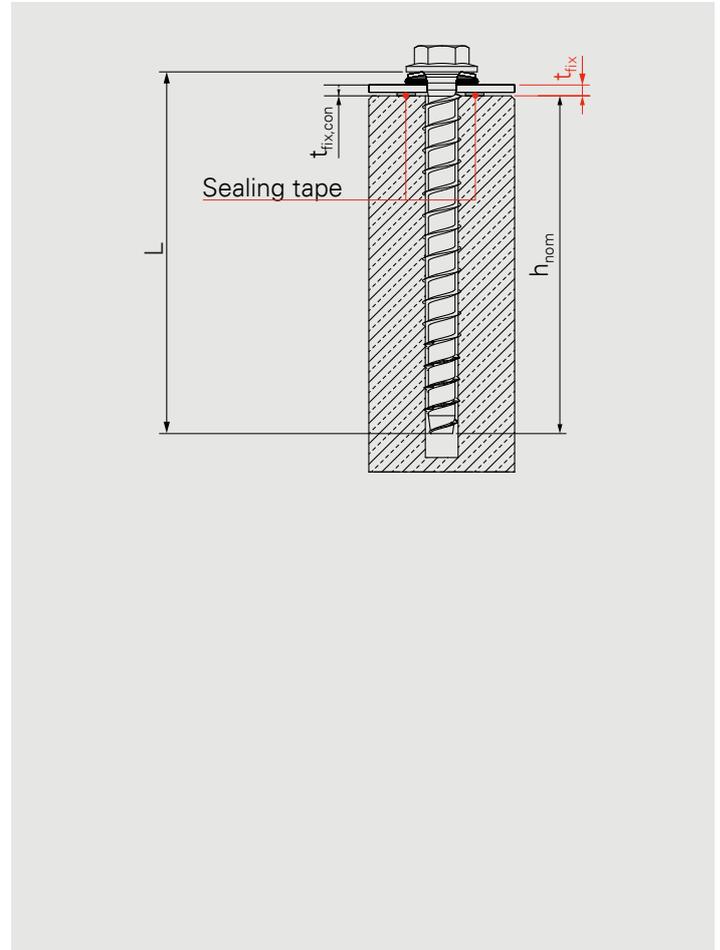
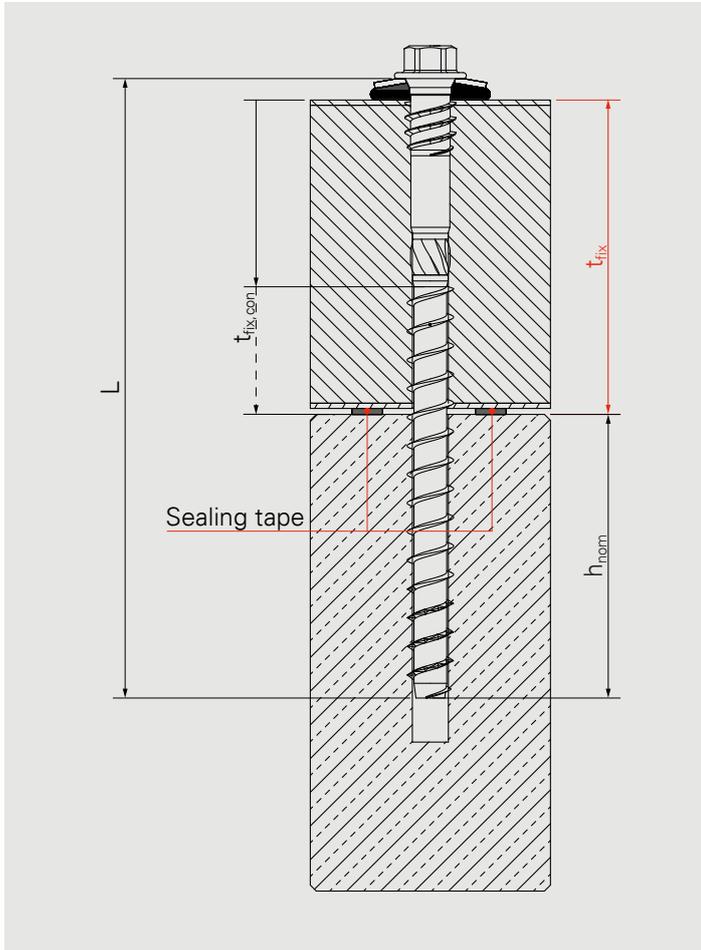
### Notes

- $t_{\text{fix,timb}}$  is given by the minimum required and maximum provided screw-in depth of the fastener
- The screw-in depth can be calculated as follows:  $l_p = L - 3^{1)} - t_{\text{fix}}$  resp.  $l_{\text{ef}} = L - 3^{1)} - t_{\text{fix}} - DL$
- For higher requirements on minimum embedment depth the suitable fastener length can be determined as follows:  $L \geq 3^{1)} + t_{\text{fix}} + l_p$  resp.  $L \geq 3^{1)} + t_{\text{fix}} + l_{\text{ef}} + DL$
- Component tolerances have to be taken into account

<sup>1)</sup> Approximate thickness of the sealing washer, to be considered only if the fastener has a sealing washer

# Fastening onto concrete

## Fixing thickness $t_{\text{fix,con}}$



### Fastener selection

The following condition has to be met:

$t_{\text{fix}}$  within  $t_{\text{fix,con}}$

### Abbreviations

$t_{\text{fix}}$	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, ...)
$t_i$	Thickness of component I
$h_{\text{nom}}$	Embedment depth in concrete
$t_{\text{fix,con}}$	Total thicknesses that can be fixed onto concrete by the fastener
$L$	Length of the fastener

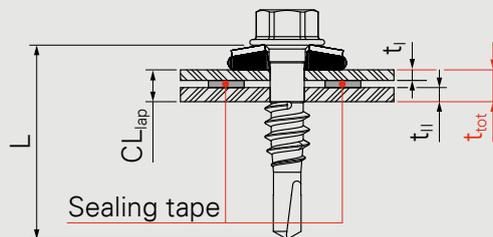
### Notes

- $t_{\text{fix,con}}$  is given by the minimum required and maximum possible embedment depth of the fastener
- $t_{\text{fix,con}}$  indicates partly more than one range what results from more than one specified minimum embedment depth (e.g.  $t_{\text{fix,con}} = 20-40/60$  means 20–40 in case of higher embedment depth resp. 20–60 in case of lower embedment depth)
- The embedment depth can be calculated as follows:  $h_{\text{nom}} = L - 3^{1)} - t_{\text{fix}}$
- For higher requirements on minimum embedment depth the suitable fastener length can be determined as follows:  
 $L \geq 3^{1)} + t_{\text{fix}} + h_{\text{nom}}$
- Component tolerances have to be taken into account

<sup>1)</sup> Approximate thickness of the sealing washer, to be considered only if the fastener has a sealing washer

# Clamp fastening

## Clamping range $CL_{lap}$



### Fastener selection

The following condition has to be met:

$t_{tot}$  within  $CL_{lap}$

### Abbreviations

$t_{tot}$  Total clamping thickness (incl. sealing tape)

$t_i$  Thickness of component I

$t_{II}$  Thickness of component II

$CL_{lap}$  Clamping range of the fastener

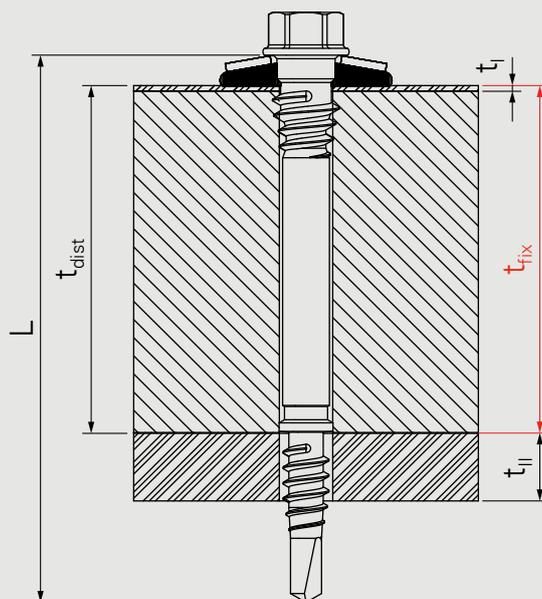
$L$  Length of the fastener

### Notes

- $CL_{lap}$  is given by the free-spin zone of the fastener
- Component tolerances have to be taken into account

# Distance fastening

## Installation distance $t_{\text{dist}}$



### Fastener selection

The following condition has to be met:

$$t_{\text{fix}} = t_{\text{dist}}$$

### Abbreviations

$t_{\text{fix}}$	Installation distance
$t_{\text{I}}$	Thickness of component I
$t_{\text{II}}$	Thickness of component II
$t_{\text{dist}}$	Installation distance given by the fastener
$L$	Length of the fastener

### Notes

- $t_{\text{dist}}$  is given by the distance element of the fastener
- Component tolerances have to be taken into account



# Product codes of fasteners

## SXC5-L12-S19-6.3x140-A4



### 1 Fastener Type – Self-drilling fastener

	Special features	Code
Full stainless steel fastener with drill point	–	SD
	Free-spin zone, cut-off thread-end	SDL
	Shank wings, timber thread	SCFW-S
Stainless steel fastener (bimet) with FastTip®	–	CX
	Free-spin zone, cut-off thread-end	SLG-S
	Support thread, timber thread	CXCW
Stainless steel fastener (bimet) with drill point	–	SX
	Support thread	SXC
	Shank collar, support thread	SXD
	Head cone	SXK
	Free-spin zone, cut-off thread-end	SXL
	Timber thread	SXW
Carbon steel fastener with FastTip®	Free-spin zone, cut-off thread-end	CDL
	Free-spin zone	CDM
Carbon steel fastener with drill point	–	SD
	Free-spin zone, cut-off thread-end	SL, SL..-T
	Timber thread	SW, SW..-T
	Support thread	SDC
	Shank knurl, support thread	SDRT
	Shank wings	SCF
	Shank wings, timber thread	SCFW
	Support thread, timber thread	SDTW
	Knurl for cutting disc	SDP
	Dekpax®	DD
	Support thread, Dekpax®	DDC

### 1 Fastener Type – Self-tapping fastener

	Special features	Code
Full stainless steel fastener	–	TDB-S
	Thread tip	TDC-S
	Timber thread, thread tip	TDA-S
Stainless steel fastener (bimet)	Concrete thread, support thread	MXC
	Concrete thread, Mulit Monti®	MMS-plus
Carbon steel fastener	Concrete thread, support thread	MDC
	Concrete thread, Mulit Monti®	MMS-plus
	High low thread, thread tip, Dekpax®	MDW

# Product codes of fasteners

## SXC5-L12-S19-6.3×140-A4



### 2 Drilling capacity

	Special features	Code
Drilling capacity into steel		[mm]

### 3 Fastener drive

Hexagon head	-	-
	Wide flange, Ø 15 mm	H15
irius® head	irius® drive, Ø 12 mm	L12
Pan head	T-drive, Ø in mm	D[mm]

### 4 Pre-assembled washer

Damping ring	EPDM-seal, Ø 11 mm	E11
Sealing washer	Stainless steel A2 with EPDM-seal, Ø in mm	S[mm]
	Stainless steel A4 with EPDM-seal, Ø in mm	S[mm]/A4
	Carbon steel galvanised with EPDM-seal, Ø in mm	T[mm]
	Aluminium with EPDM-seal, Ø in mm	A[mm]
	Aluminium with EPDM-seal special, Ø in mm	AV[mm]
Cutting disc	Carbon steel galvanised, Ø 19 mm	TC19
Curved disc	Stainless steel A2, Ø 16 mm	SV16
	Stainless steel A4, Ø 16 mm	SV16/A4
Sealing element	Stainless steel A2 with EPDM-seal	BAZ

### 5 Fastener dimension

Diameter × Length	[mm]×[mm]
-------------------	-----------

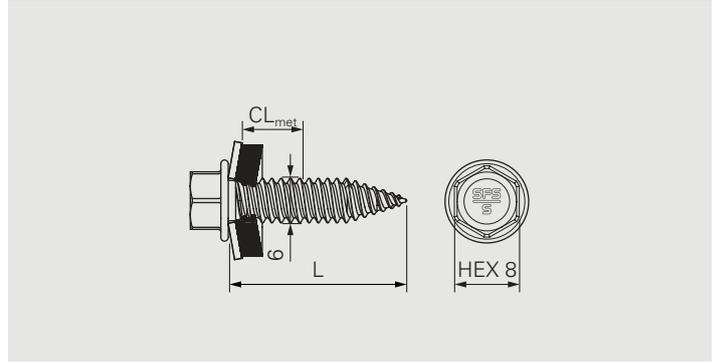
### 6 Fastener material

Stainless steel A2	A2
Stainless steel A4	A4
Carbon steel with anticorrosion coating	-



# Stainless steel fasteners

# CX-6.0-A2



## Description

Self-drilling fastener made of stainless steel with FastTip® and sealing washer

## Application

- Fastening of solar mounting systems onto profile sheets
- Fastening of solar mounting systems onto sandwich panels
- Fastening of carrier profiles onto profile sheets
- Fastening of carrier profiles onto sandwich panels

## Component 1 (t<sub>i</sub>)

Steel	0.4–1.0
Aluminium	0.5–2.0
Steel <sup>1)</sup>	≥1.0
Aluminium <sup>1)</sup>	≥1.0
–	

## Component 2 (t<sub>ii</sub>)

Steel	0.4–1.0
Aluminium	0.5–1.5
Steel	0.4–1.5
Steel	2×0.4–1.0
Aluminium	0.5–1.5

<sup>1)</sup>Clearance hole Ø 5.0–6.5

## Fastener material

Austenitic stainless steel A2, hardened tip  
Sealing washer: Austenitic stainless steel A2, EPDM seal

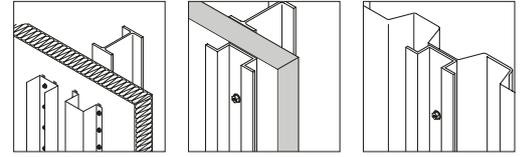
## Features and Benefits

- Fastener design for high technical values in the application
- Fast and chip-free installation without necessary post-cleaning
- High quality EPDM-seal with long durability
- ETA approval especially for solar applications

## Approvals



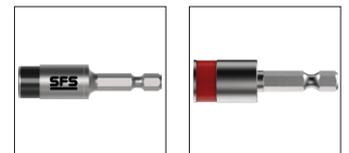
All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	S16
CX-S16-6.0×25-A2	100	25	0-8	1829788
CX-S16-6.0×25-A2	250			1801601
CX-S16-6.0×38-A2	100	38	0-20	1830832
CX-S16-6.0×38-A2	250			1808619

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



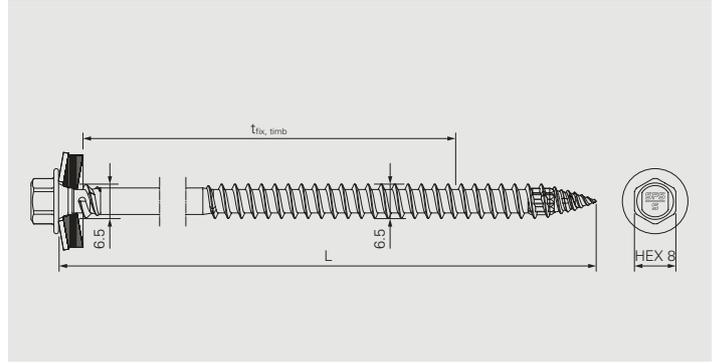
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# CXCW-6.5-A2



## Description

Self-drilling fastener made of stainless steel with FastTip<sup>®</sup>, milling ribs, support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto timber  
 Fastening of profile sheets onto timber

## Component 1 (t<sub>I</sub>)

Steel<sup>1)</sup> 0.4–0.75  
 Steel<sup>1)</sup> 2×0.4–0.75

## Component 2 (t<sub>II</sub>)

Timber |<sub>ef</sub> ≥25  
 –

<sup>1)</sup>Cover sheet in case of sandwich panel

## Fastener material

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

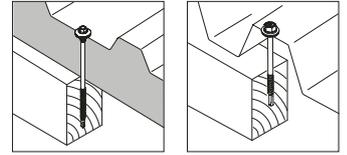
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Fast and chip-free installation without necessary post-cleaning
- Perfect support function by double support thread
- Reduced splitting tendency in timber by milling ribs
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability

All measures in mm



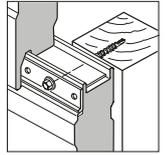
## Fastener in A2 onto timber

Product code	PU	L	t <sub>fix, timb</sub>	S16	S19	S22	S29
CXCW-S19-6,5×80-A2	100	80	0–46	1754728	1754730	1754731	1757059
CXCW-S19-6,5×90-A2		90	0–56	1573461	1573716	1574055	1757061
CXCW-S19-6,5×110-A2		110	18–76	1573490	1573720	1574056	1757062
CXCW-S19-6,5×130-A2		130	38–96	1573491	1573721	1574071	1757063
CXCW-S19-6,5×150-A2		150	58–116	1573513	1573723	1574072	1757064
CXCW-S19-6,5×170-A2		170	78–136	1573514	1573724	1574077	1757066
CXCW-S19-6,5×200-A2		200	108–166	1573515	1573726	1574085	1757068
CXCW-S19-6,5×230-A2		230	138–196	1573516	1573727	1574087	1757069
CXCW-S19-6,5×260-A2		260	168–226	1573517	1573729	1574089	1757070
CXCW-S19-6,5×300-A2		300	208–266	1573518	1573730	1574093	1757071

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.

### All measures in mm

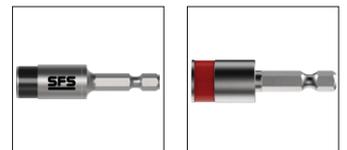
All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.



## Fastener in A2 onto timber

Product code	PU	L	t <sub>fix, timb</sub>	no washer
CXCW-6,5×80-A2	100	80	1–49	1754710
CXCW-6,5×90-A2		90	1–59	1616119
CXCW-6,5×110-A2		110	21–79	1616122
CXCW-6,5×130-A2		130	41–99	1616129
CXCW-6,5×150-A2		150	61–119	1616144
CXCW-6,5×170-A2		170	81–139	1616151
CXCW-6,5×200-A2		200	111–169	1616152
CXCW-6,5×230-A2		230	141–199	1616155
CXCW-6,5×260-A2		260	171–229	1616300
CXCW-6,5×300-A2		300	211–269	1616315

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.

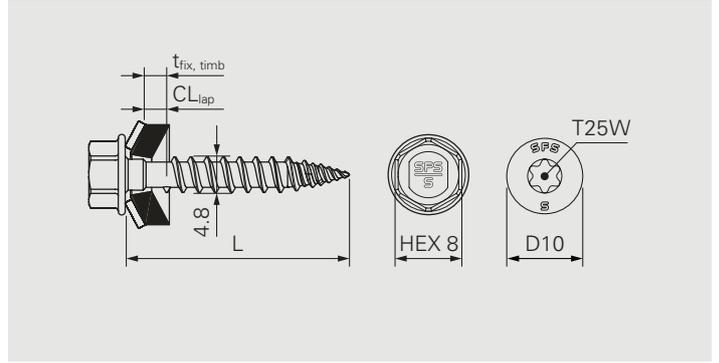
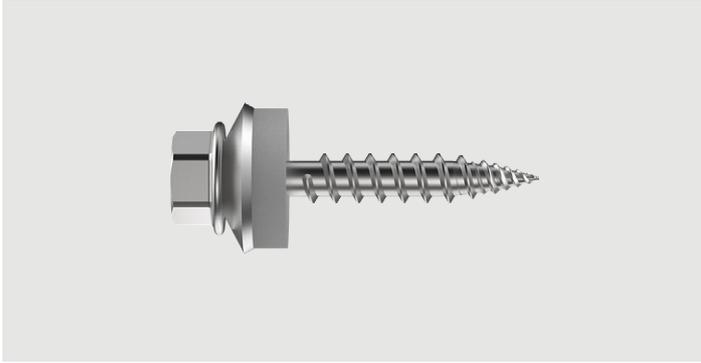


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

All measures in mm

# CXLW-4.8-A2/A4



## Description

Self-drilling fastener made of stainless steel with FastTip<sup>®</sup>, free-spin zone and sealing washer

## Application

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

## Component 1 (t<sub>1</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5

## Component 2 (t<sub>11</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5
Timber	$l_p \geq 23$

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

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

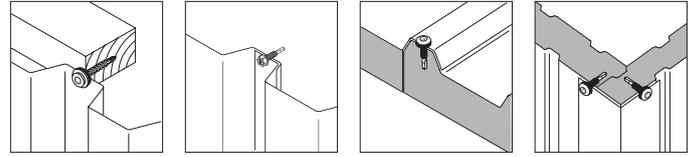
## Features and Benefits

- Fast and chip-free installation without necessary post-cleaning
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- Special AV-shaped sealing washer for high clamping range
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel, aluminium and timber

Product code	PU	L	CL <sub>lap</sub>	t <sub>fix, timb</sub>	A11	AV14	AV16
CXLW-AV14-4,8×28-A2	100	28	0.8–3.5	0–2	–	1747623	1749183
CXLW-AV14-4,8×28-A2	500				–	1659057	1749230
CXLW-D10-A11-4,8×28-A2	100	28	0.8–2.5		1748193	–	–
CXLW-D10-A11-4,8×28-A2	500				1747805	–	–

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub> and t<sub>fix, timb</sub>.

## Fastener in A4 onto steel, aluminium and timber

Product code	PU	L	CL <sub>lap</sub>	t <sub>fix, timb</sub>	A11	AV14	AV16
CXLW-AV14-4,8×28-A4	100	28	0.8–3.5	0–2	–	1747812	1748204
CXLW-AV14-4,8×28-A4	500				–	1747773	1748209
CXLW-D10-A11-4,8×28-A4	100	28	0.8–2.5		1748220	–	–
CXLW-D10-A11-4,8×28-A4	500				1748223	–	–

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub> and t<sub>fix, timb</sub>.



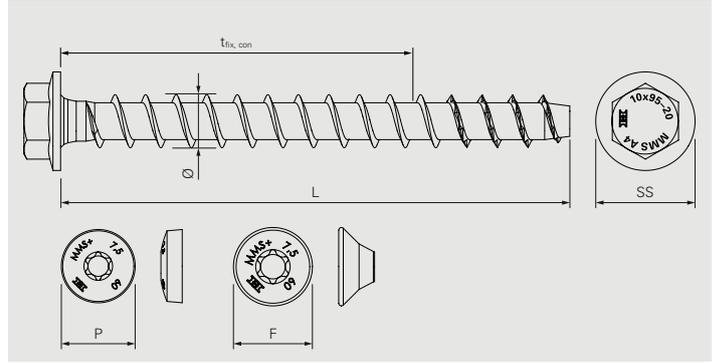
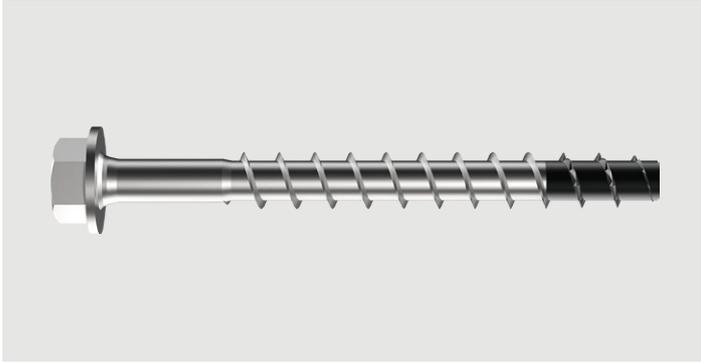
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Bit T25W-25-HEX¼"			T25W	25	7662
Bit holder ZA¼" -58			HEX¼"	58	1162306

### All measures in mm

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# MMS-plus-A4



## Description

Self-tapping fastener made of stainless steel

## Application

Fastening of metal decks onto concrete  
Fastening of liner trays onto concrete

Fastener Ø	7.5	10.0	12.0
Pre-drill Ø	6.0	8.0	10.0
Embedment depth $h_{nom}$	≥40/55/75	≥70/85	≥100/115

## Fastener material

Austenitic stainless steel A4, hardened tip

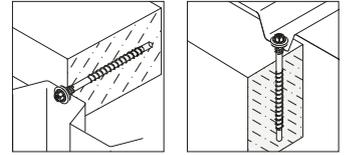
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Easy and comfortable installation with impact gun
- Toothed functional tip for smooth screwing in and decreased thread abrasion
- Small fastener and edge distances as there is no spreading effect
- More than one specified embedment depth for different requirements
- Fire approved F120/R120

All measures in mm

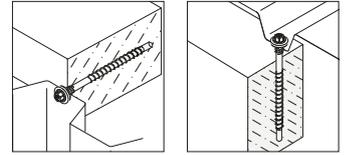


## Fastener in A4 onto concrete

Product code	PU	L	t <sub>fix, con</sub>	Ø F/P/SS	Fastener drive	
MMS-plus-F-C14-7,5x40-A4	50	40	–	14	T30	1205150
MMS-plus-F-C14-7,5x45-A4		45	0–5			1205107
MMS-plus-F-C14-7,5x55-A4		55	0–15			1205151
MMS-plus-F-C14-7,5x65-A4		65	0–10/25			1205152
MMS-plus-F-C14-7,5x75-A4		75	0–20/35			1205108
MMS-plus-F-C14-7,5x85-A4		85	0–10/30/45			1205109
MMS-plus-F-C14-7,5x95-A4		95	0–20/40/55			1205121
MMS-plus-F-C14-7,5x105-A4		105	0–30/50/65			1205110
MMS-plus-F-C14-7,5x125-A4		125	0–50/70/85			1205111
MMS-plus-F-C17-10,0x65-A4	25	65	–	17	T40	1205153
MMS-plus-F-C17-10,0x80-A4		80	0–10			1205154
MMS-plus-F-C17-10,0x90-A4		90	0–5/20			1205155
MMS-plus-F-C17-10,0x100-A4		100	0–15/30			1205156
MMS-plus-F-C21-12,0x95-A4	25	95	–	21	T50	1205157
MMS-plus-F-C21-12,0x105-A4		105	0–5			1205158
MMS-plus-F-C21-12,0x120-A4		120	0-5/20			1205159
MMS-plus-F-C21-12,0x130-A4		130	0–15/30			1205160
MMS-plus-P-D14-7,5x40-A4	50	40	–	14	T30	1205122
MMS-plus-P-D14-7,5x45-A4		45	0–5			1205118
MMS-plus-P-D14-7,5x55-A4		55	0–15			1205119
MMS-plus-P-D14-7,5x65-A4		65	0–10/25			1205120
MMS-plus-P-D14-7,5x75-A4		75	0–20/35			1205104
MMS-plus-P-D14-7,5x85-A4		85	0–10/30/45			1205105
MMS-plus-P-D14-7,5x95-A4		95	0–20/40/55			1205106
MMS-plus-P-D14-7,5x115-A4		115	0–40/60/75			1205161
MMS-plus-SS-7,5x40-A4		50	40			–
MMS-plus-SS-7,5x45-A4	45		0–5	1205117		
MMS-plus-SS-7,5x55-A4	55		0–15	1205142		
MMS-plus-SS-7,5x65-A4	65		0–10/25	1205143		
MMS-plus-SS-7,5x75-A4	75		0–20/35	1205112		
MMS-plus-SS-7,5x85-A4	85		0–10/30/45	1205113		
MMS-plus-SS-7,5x105-A4	105		0–30/50/65	1205114		
MMS-plus-SS-10,0x65-A4	25		65	–	20	HEX13
MMS-plus-SS-10,0x75-A4		75	0–5	1205145		
MMS-plus-SS-10,0x85-A4		85	0-15	1205146		

### All measures in mm

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## Fastener in A4 onto concrete

Product code	PU	L	t <sub>fix, con</sub>	Ø F/P/SS	Fastener drive	
MMS-plus-SS-10,0×95-A4	25	95	0–10/25	20	HEX13	1205147
MMS-plus-SS-10,0×105-A4		105	0–20/35			1205148
MMS-plus-SS-12,0×95-A4	25	95	–	23	HEX15	1205149
MMS-plus-SS-12,0×105-A4		105	0–5			1205115
MMS-plus-SS-12,0×120-A4		120	0–5/20			1205116
MMS-plus-SS-12,0×135-A4		135	0–20/35			1205102

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, con</sub>.

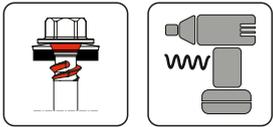
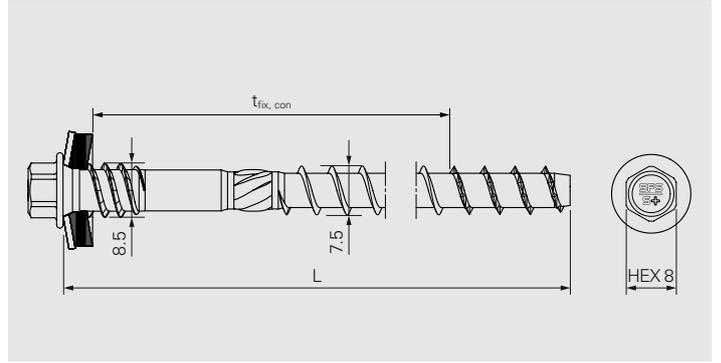
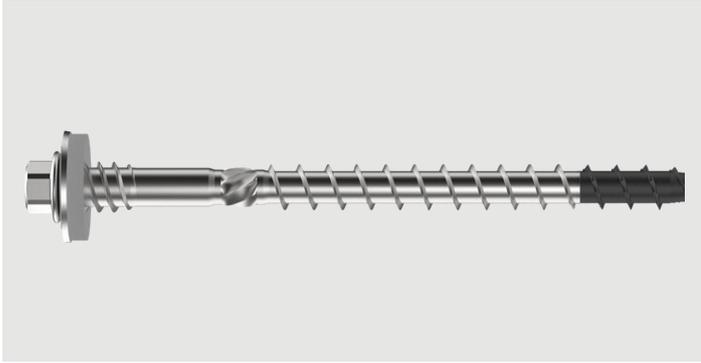


## Accessories

Product description	PU	D	L	
SDS-6×215/150-4C	1	6	215	1487583
SDS-8×215/150-4C		8		1487585
SDS-10×215/150-4C		10		1487586

All measures in mm

# MXC-7.5-A4



## Description

Self-tapping fastener made of stainless steel with support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto concrete  
 Fastening of profile sheets onto concrete

## Component 1 (t<sub>1</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>2</sub>)

Concrete

$h_{nom} \geq 65$

Pre-drill  $\varnothing$  6.0

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

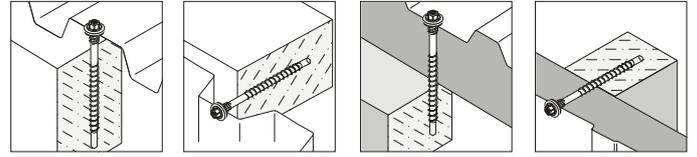
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Easy and comfortable installation with impact gun
- Perfect support function by double support thread
- Toothed functional tip for smooth screwing in and decreased thread abrasion
- Small fastener and edge distances as there is no spreading effect
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability

All measures in mm



## Fastener in A4 onto concrete

Product code	PU	L	t <sub>fix, con</sub>	S16/A4	S19/A4	S22/A4
MXC-S19/A4-7,5×95-A4	100	95	20–27	1596755	1596762	1596768
MXC-S19/A4-7,5×115-A4		115	37–47	1596786	1596788	1596790
MXC-S19/A4-7,5×135-A4		135	57–67	1596802	1596806	1596807
Recommended torque force 200-300 Nm						
MXC-S19/A4-7,5×155-A4	100	155	77–87	1596812	1596813	1596818
MXC-S19/A4-7,5×175-A4		175	97–107	1596862	1596866	1596868
MXC-S19/A4-7,5×195-A4		195	117–127	1596947	1596953	1596956
MXC-S19/A4-7,5×215-A4		215	137–147	1597023	1597024	1597025
Recommended torque force 250-400 Nm						
MXC-S19/A4-7,5×235-A4	100	235	157–167	1597028	1598660	1598674
MXC-S19/A4-7,5×255-A4		255	177–187	1598678	1598686	1598715
MXC-S19/A4-7,5×275-A4		275	197–207	1598722	1598726	1598727
MXC-S19/A4-7,5×295-A4		295	217–227	1598733	1598735	1598791
MXC-S19/A4-7,5×315-A4		315	237–247	1598798	1598813	1598814
Recommended torque force 350-600 Nm						
MXC-S19/A4-7,5×335-A4	100	335	257–267	1598917	1598932	1598970
MXC-S19/A4-7,5×355-A4		355	277–287	1598993	1599213	1599214
MXC-S19/A4-7,5×375-A4		375	297–307	1599216	1599217	1599218

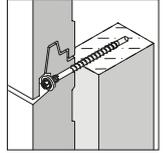
Recommended torque force 600-800 Nm

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, con</sub>.

### All measures in mm

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Without approval

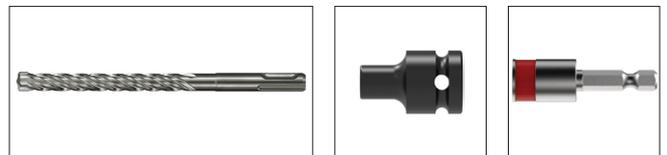


## Fastener in A4 onto concrete

Product code	PU	L	t <sub>fix, con</sub>	no washer
MXC-7,5x95-A4	100	95	23-30	1596782
MXC-7,5x115-A4		115	40-50	1596801
MXC-7,5x135-A4		135	60-70	1596811
Recommended torque force 200-300 Nm				
MXC-7,5x155-A4	100	155	80-90	1596820
MXC-7,5x175-A4		175	100-110	1596891
MXC-7,5x195-A4		195	120-130	1596957
MXC-7,5x215-A4		215	140-150	1597026
Recommended torque force 250-400 Nm				
MXC-7,5x235-A4	100	235	160-170	1598675
MXC-7,5x255-A4		255	180-190	1598720
MXC-7,5x275-A4		275	200-210	1598728
MXC-7,5x295-A4		295	220-230	1598795
MXC-7,5x315-A4		315	240-250	1598816
Recommended torque force 350-600 Nm				
MXC-7,5x335-A4	100	335	260-270	1598972
MXC-7,5x355-A4		355	280-290	1599215
MXC-7,5x375-A4		375	300-310	1599219

Recommended torque force 600-800 Nm

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, con</sub>.

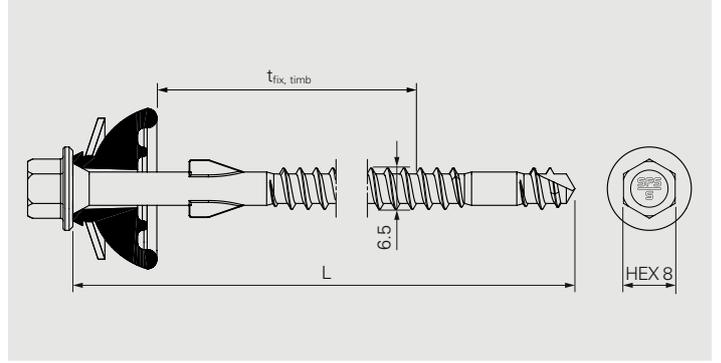
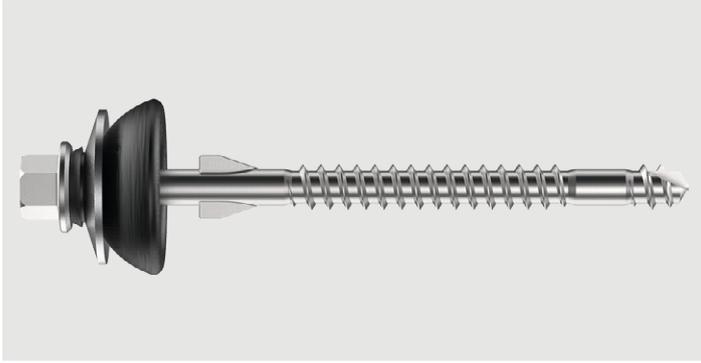


## Accessories

Product description	Insert drive	Recess	PU	D	L	
SDS-6x215/150-4C	-	-	1	6	215	1487583
SDS-6x315/250-4C					315	1487584
SDS-6x515/455-4C					515	1608141
Socket E308-¼"-50	HEX¼"	HEX8	1	-	50	1646160
Socket E508-½"-40	HEX½"				40	1648380

All measures in mm

# SCFW-S-6.5-A2



## Description

Self-drilling fastener made of stainless steel with shank wings and BAZ sealing element

## Application

Fastening of corrugated fibre cement boards onto timber

## Component 1 (t<sub>I</sub>)

Fibre cement	6.5
Fibre cement	2x6.5

## Component 2 (t<sub>II</sub>)

Timber	$l_p \geq 50$
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## Fastener material

Austenitic stainless steel A2

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

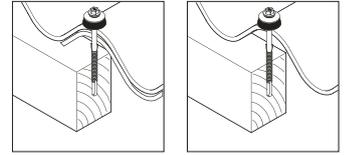
## Approvals



## Features and Benefits

- Threaded drill point for fast and smooth installation
- Easy drilling through overlapped fibre cement boards
- No stresses at fibre cement board by widening of the through hole
- Reduced splitting tendency in timber
- High quality EPDM-seal with long durability

All measures in mm



## Fastener in A2 onto timber

Product code	PU	L	t <sub>fix, timb</sub>	
SCFW-S-BAZ-6,5x130-A2	100	130	0-70	1627280

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



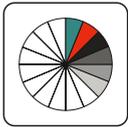
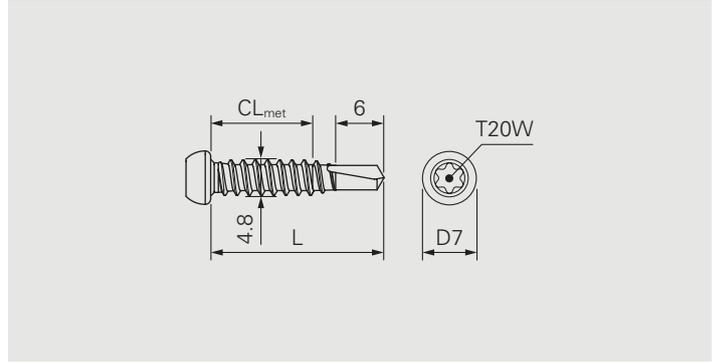
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD1-D7-4.8-A2



## Description

Self-drilling fastener made of stainless steel with small head shape

## Application

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

## Component 1 (t<sub>i</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5

## Fastener material

Austenitic stainless steel A2

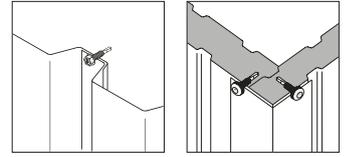
## Features and Benefits

- Full stainless Self-drilling fastener for steel applications
- Aesthetic small head shape in rivet look
- Reduced CO2 footprint and easy recyclability

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	
SD1-D7-4,8x22-A2	500	22	0-9	1680829
SD1-D7-4,8x22-A2	250			1818379
SD1-D7-4,8x22-A2-RAL7016	500			1672416
SD1-D7-4,8x22-A2-RAL7024				1714701
SD1-D7-4,8x22-A2-RAL9006				1672399
SD1-D7-4,8x22-A2-RAL9007				1680586
SD1-D7-4,8x22-A2-RAL9010				1672397
SD1-D7-4,8x22-A2-RAL9011				1672446

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

Bit T20W-50-HEX $\frac{1}{4}$ " included in each package



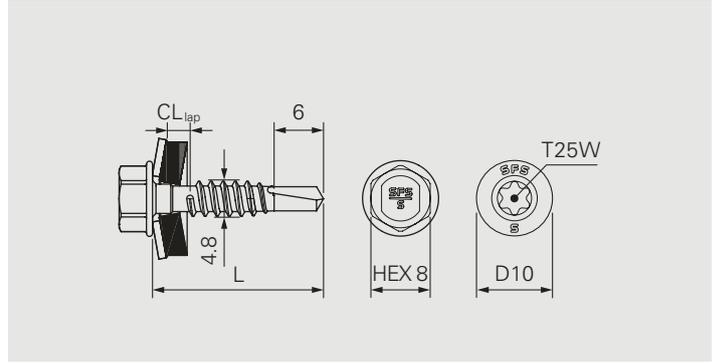
## Accessories

Product code	PU	Insert drive	Recess	L	
Bit holder ZA $\frac{1}{4}$ " -58	1	HEX $\frac{1}{4}$ "	HEX $\frac{1}{4}$ "	58	1162306

### All measures in mm

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# SDL1-4.8-A2



## Description

Self-drilling fastener made of stainless steel with free-spin zone and sealing washer

## Application

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

## Component 1 (t<sub>1</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5

## Component 2 (t<sub>2</sub>)

Steel	0.4–1.0
Steel	2×0.4–0.75
Aluminium	0.5–1.5

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

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

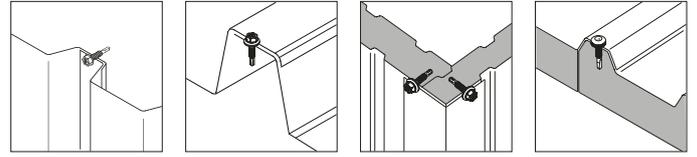
## Features and Benefits

- Full stainless self-drilling fastener for steel applications
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- Special AV-shaped sealing washer for high clamping range
- High quality EPDM-seal with long durability
- Reduced CO<sub>2</sub> footprint and easy recyclability

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>lap</sub>	A11	AV14	AV16
SDL1-AV14-4,8x22-A2	500	22	0.8-3.5	-	1683907	1744798
SDL1-AV14-4,8x22-A2	250				1795399	1795400
SDL1-AV14-4,8x22-A2-RAL7016	500				1684021	
SDL1-AV14-4,8x22-A2-RAL7024					1714702	
SDL1-AV14-4,8x22-A2-RAL9006					1683997	
SDL1-AV14-4,8x22-A2-RAL9007					1683982	
SDL1-AV14-4,8x22-A2-RAL9010					1683981	
SDL1-AV14-4,8x22-A2-RAL9011					1683955	
SDL1-D10-A11-4,8x22-A2	500	22	0.8-2.5	1714704	-	-
SDL1-D10-A11-4,8x22-A2-RAL7016				1714705		
SDL1-D10-A11-4,8x22-A2-RAL7024				1714706		
SDL1-D10-A11-4,8x22-A2-RAL9006				1714709		
SDL1-D10-A11-4,8x22-A2-RAL9007				1714710		
SDL1-D10-A11-4,8x22-A2-RAL9010				1714711		
SDL1-D10-A11-4,8x22-A2-RAL9011				1714712		

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>. Bit T25W-50-HEX $\frac{1}{4}$ " included in each package of SDL1-D10.



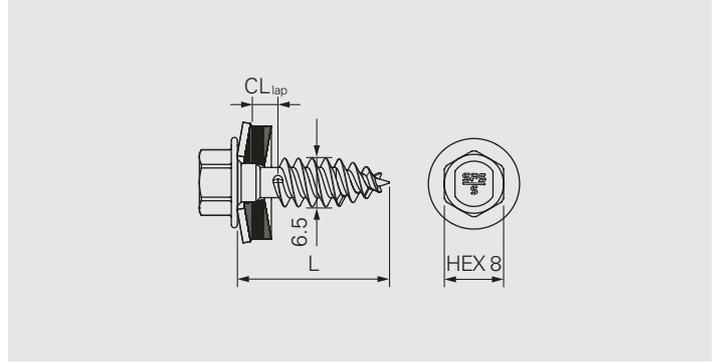
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT- $\frac{1}{4}$ "-57-6Nm	1	HEX $\frac{1}{4}$ "	HEX8	57	1667323
Socket E308- $\frac{1}{4}$ "-50				50	1646160
Bit T25W-25-HEX $\frac{1}{4}$ "			T25W	25	7662
Bit holder ZA $\frac{1}{4}$ " -58			HEX $\frac{1}{4}$ "	58	1162306

### All measures in mm

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# SLG-S-6.5-A2



## Description

Self-drilling fastener made of stainless steel with FastTip<sup>®</sup>, free-spin zone and sealing washer

## Application

- Fastening of solar mounting systems onto profile sheets
- Fastening of solar mounting systems onto sandwich panels
- Fastening of carrier profiles onto profile sheets
- Fastening of carrier profiles onto sandwich panels
- Fastening of metal profiles onto metal deck

## Component 1 (t<sub>1</sub>)

Steel <sup>1)</sup>	≥1.5
Aluminium <sup>1)</sup>	≥1.5

## Component 2 (t<sub>2</sub>)

Steel	0.4–1.5
Steel	2×0.4–1.0
Aluminium	0.5–1.5

Condition: Total thickness within CL<sub>lap</sub>, <sup>1)</sup>Clearance hole Ø 6.5–7.0

## Fastener material

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

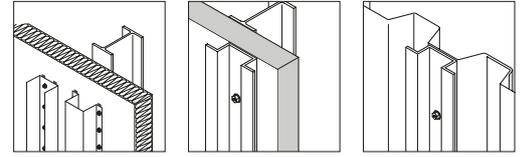
## Features and Benefits

- Fastener design for high technical values in the application
- Fast and chip-free installation without necessary post-cleaning
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High quality EPDM-seal with long durability

## Approvals



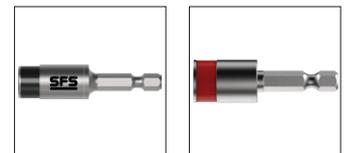
All measures in mm



## Fastener in A2 onto steel

Product code	PU	L	CL <sub>lap</sub>	no washer	S14	S16
SLG/0-2-S-S14-6,5x20	250	20	0-2	-	1492629	-
SLG/4-6-S-S16-6,5x24	1000	24	4-6	-	-	1618935
SLG/2-5-S-6,5x20	250	20	2-5	1468117	-	-

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



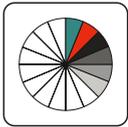
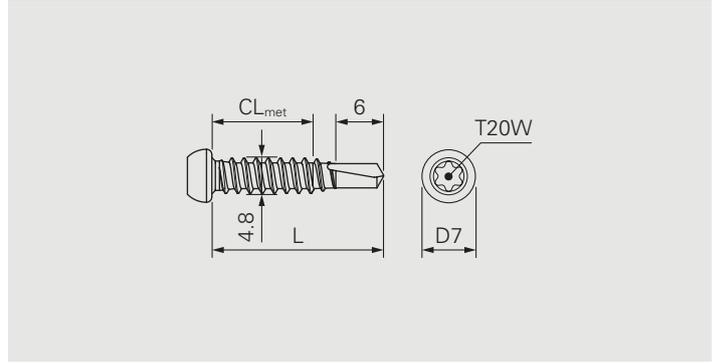
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SX2-D7-4.8-A2



## Description

Self-drilling fastener made of stainless steel with aesthetic small head shape

## Application

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

## Component 1 (t<sub>i</sub>)

Steel	0.4–1.5
Steel	2×0.4–0.88
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	0.4–1.5
Steel	2×0.4–0.88
Aluminium	0.5–1.5

## Fastener material

Austenitic stainless steel A2, hardened tip

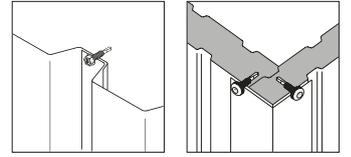
## Features and Benefits

- Aesthetic small head shape in rivet look

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	
SX2-D7-4,8x22-A2	500	22	0-9	1747715
SX2-D7-4,8x22-A2	100			1747691

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



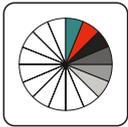
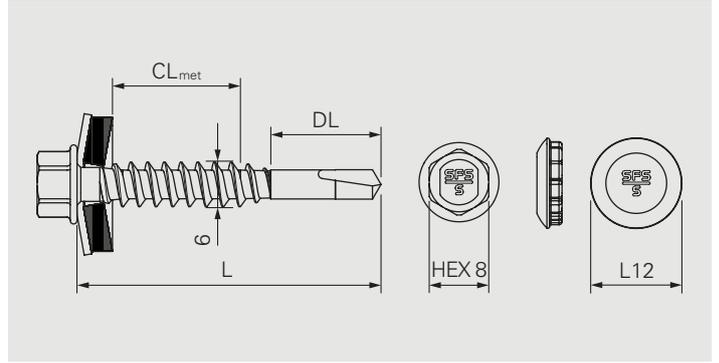
## Accessories

Product description	PU	Insert drive	Recess	L	
Bit T20W-25-HEX $\frac{1}{4}$ "	1	HEX $\frac{1}{4}$ "	T20W	25	895280
Bit holder ZA $\frac{1}{4}$ "-58			HEX $\frac{1}{4}$ "	58	1162306

### All measures in mm

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# SX3-6.0-A2/A4



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto liner trays
- Fastening of standing seam clips onto metal decks
- Fastening of standing seam clips onto metal profiles

## Fastener material

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

## Approvals



## Component 1 (t<sub>i</sub>)

Steel	0.5–1.5
Aluminium	0.5–1.5
Clip <sup>1)</sup>	≥5.0
–	

## Component 2 (t<sub>ii</sub>)

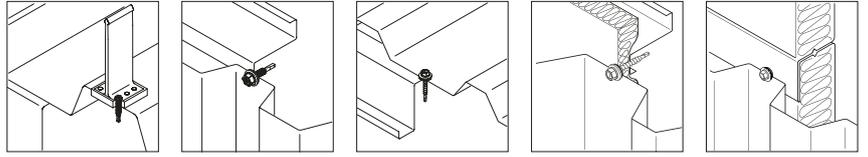
Steel	0.63–2.0
Steel	2×0.63–1.5
Aluminium	1.0–2.5
Steel	0.75–2.5
Aluminium	1.0–3.0

<sup>1)</sup>Clearance hole Ø 6.1

## Features and Benefits

- Fastener design for high technical values in the application
- Long drill point suitable for applications with thermal decoupling tape
- High quality EPDM-seal with long durability

All measures in mm



## Fastener in A2 onto steel and aluminium

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

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

## Fastener in A4 onto steel and aluminium

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

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



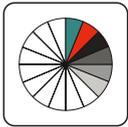
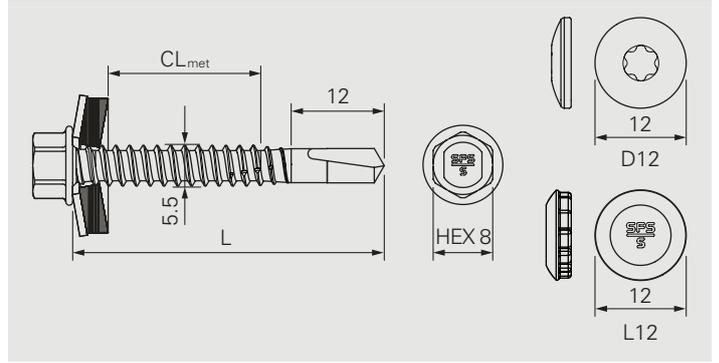
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Socket E420-¼"-74		irius® L12	74	973316	

### All measures in mm

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# SX5-5.5-A2/A4



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

Fastening of profile sheets onto metal profiles

## Component 1 (t<sub>i</sub>)

Steel	0.5–1.5
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	1.25–4.0
Steel	2×1.25–2.5
Aluminium	1.5–5.0

## Fastener material

Austenitic stainless steel A2/A4, hardened tip

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

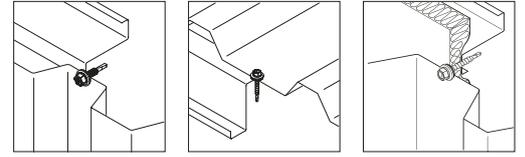
## Features and Benefits

- Long drill point for easy drilling through overlapped metal profiles
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	S16	S19
SX5-S16-5,5×31-A2	500	31	0-8	1122767	1134299
SX5-S16-5,5×35-A2		35	0-12	1123168	1123167
SX5-S16-5,5×41-A2		41	0-18	1134477	1134476
SX5-S16-5,5×53-A2	250	53	20-30	1133684	1155085
SX5-S16-5,5×61-A2		61	0-38	1168765	1168767
SX5-S16-5,5×78-A2		78	8-55	1133330	1133331
SX5-L12-S16-5,5×31-A2	500	31	0-8	1134340	-
SX5-L12-S16-5,5×35-A2		35	0-12	1134352	
SX5-L12-S16-5,5×41-A2		41	0-18	1135439	

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

## Fastener in A4 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	S16/A4	S19/A4
SX5-S16/A4-5,5×31-A4	500	31	0-8	1614135	1588949
SX5-S16/A4-5,5×35-A4		35	0-12	1585655	1614137
SX5-S16/A4-5,5×61-A4	250	61	0-38	1585656	1614138

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



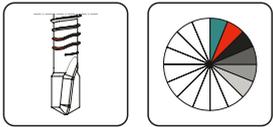
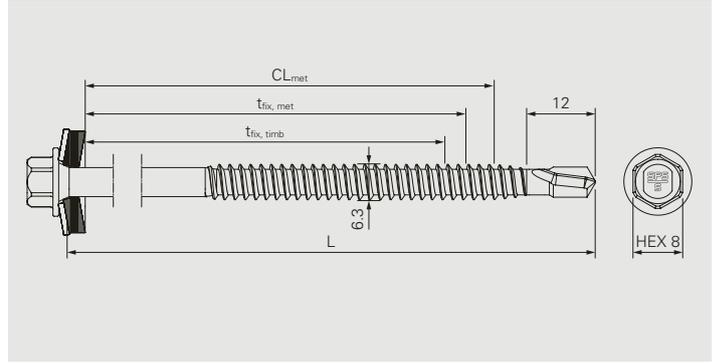
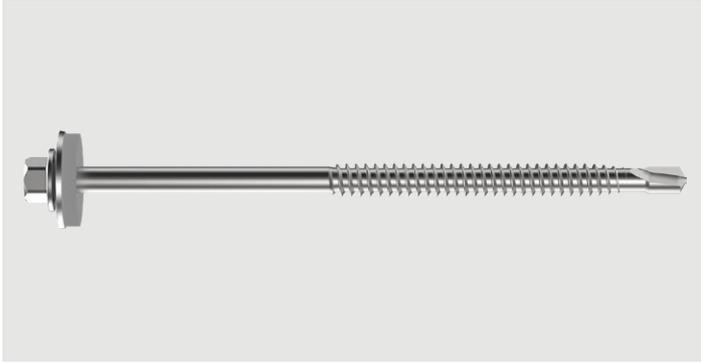
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Socket E420-¼"-74			74	973316	

### All measures in mm

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# SX5-6.3-A4



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber
- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup> 0.4–1.5

## Component 2 (t<sub>ii</sub>)

Steel	1.0–4.0
Steel	2×0.75–2.5
Timber	l <sub>ef</sub> ≥ 25

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

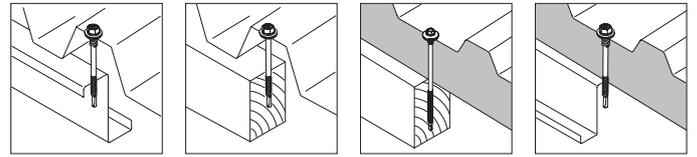
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Long drill point for easy drilling through overlapped metal profiles
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability
- Especially suitable for fastening with load distribution plates and saddle washers

All measures in mm

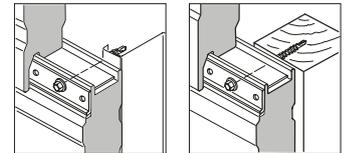


## Fastener in A4 onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	S16	S19
SX5-S19/A4-6,3×80-A4	100	80	30–55	30–55-t <sub>II</sub>	15–40	1649399	1649421
SX5-S19/A4-6,3×100-A4		100	40–75	40–75-t <sub>II</sub>	25–60	1649401	1649423
SX5-S19/A4-6,3×120-A4		120	50–95	50–95-t <sub>II</sub>	35–80	1649402	1649424
SX5-S19/A4-6,3×140-A4		140	70–115	70–115-t <sub>II</sub>	55–100	1649403	1649426
SX5-S19/A4-6,3×160-A4		160	90–135	90–135-t <sub>II</sub>	75–120	1649404	1649428
SX5-S19/A4-6,3×190-A4		190	110–165	110–165-t <sub>II</sub>	95–150	1649405	1649430
SX5-S19/A4-6,3×220-A4		220	140–195	140–195-t <sub>II</sub>	125–180	1649406	1649432
SX5-S19/A4-6,3×250-A4		250	170–225	170–225-t <sub>II</sub>	155–210	1649408	1649434

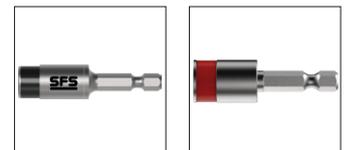
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub>, t<sub>fix, timb</sub>.

## Fastener in A4 onto steel and timber



Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	no washer
SX5-6,3×80-A4	100	80	33–58	33–58-t <sub>II</sub>	18–43	1649390
SX5-6,3×100-A4		100	43–78	43–78-t <sub>II</sub>	28–63	1649391
SX5-6,3×120-A4		120	53–98	53–98-t <sub>II</sub>	38–83	1649392
SX5-6,3×140-A4		140	73–118	73–118-t <sub>II</sub>	58–103	1649393
SX5-6,3×160-A4		160	93–138	93–138-t <sub>II</sub>	78–123	1649395
SX5-6,3×190-A4		190	113–168	113–168-t <sub>II</sub>	98–153	1649396
SX5-6,3×220-A4		220	143–198	143–198-t <sub>II</sub>	128–183	1649397
SX5-6,3×250-A4		250	173–228	173–228-t <sub>II</sub>	158–213	1649398

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub>, t<sub>fix, timb</sub>.



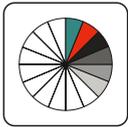
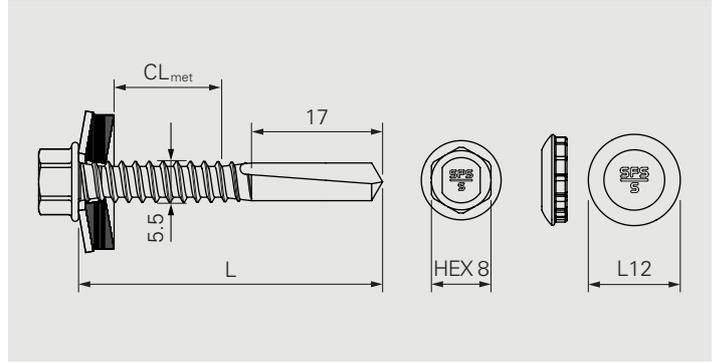
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SX14-5.5-A2/A4



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

Fastening of profile sheets onto steel beams

## Component 1 (t<sub>i</sub>)

Steel	0.5–1.5
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	3.0–12.0
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## Fastener material

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

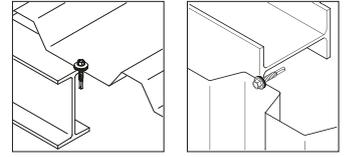
## Features and Benefits

- High drilling performance for heavy steel beams
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel

Product code	PU	L	CL <sub>met</sub>	S16	S19
SX14-S16-5,5x40-A2	500	40	0-12	770785	770796
SX14-S16-5,5x48-A2		48	0-20	773625	773626
SX14-S16-5,5x66-A2	250	66	0-38	770805	770807
SX14-S16-5,5x86-A2		86	0-58	523277	519419
SX14-L12-S16-5,5x40-A2	500	40	0-12	776328	776334

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

## Fastener in A4 onto steel

Product code	PU	L	CL <sub>met</sub>	S16	S19
SX14-S16/A4-5,5x40-A4	500	40	0-12	1585191	1585192
SX14-S16/A4-5,5x55-A4	250	55	0-27	1585194	1614143

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



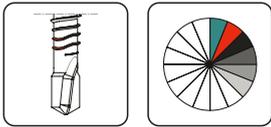
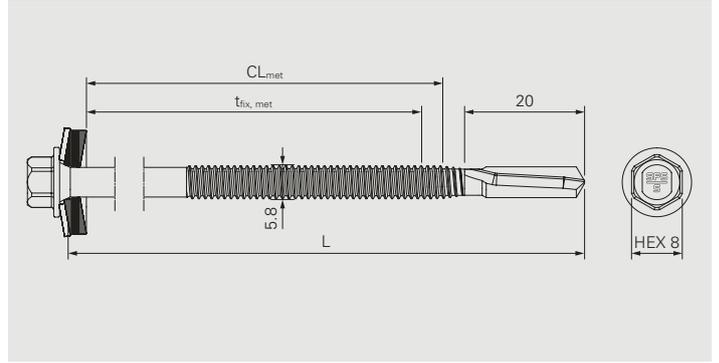
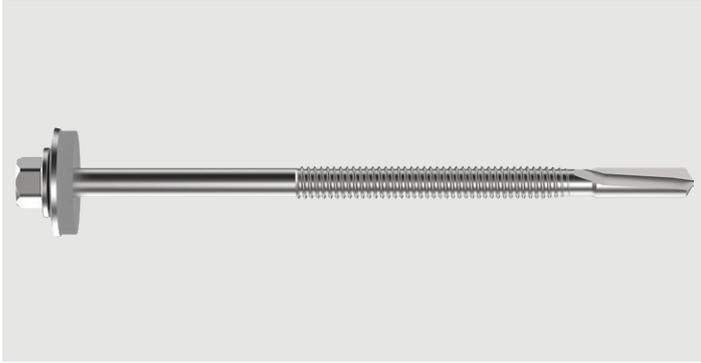
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Socket E420-¼"-74			74	973316	

### All measures in mm

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# SX16-5.8-A4



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

Fastening of sandwich panels onto steel beams  
Fastening of profile sheets onto steel beams

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>ii</sub>)

Steel

3.0–14.0

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

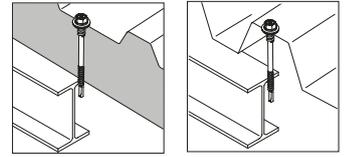
## Approvals



## Features and Benefits

- High drilling performance for heavy steel beams
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability
- Especially suitable for fastening with load distribution plates and saddle washers

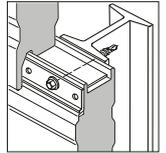
All measures in mm



## Fastener in A4 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	S16	S19
SX16-S19-5,8×90-A4	100	90	32-58	32-58-t <sub>II</sub>	1649696	1649711
SX16-S19-5,8×110-A4		110	42-78	42-78-t <sub>II</sub>	1649697	1649712
SX16-S19-5,8×130-A4		130	52-98	52-98-t <sub>II</sub>	1649698	1649713
SX16-S19-5,8×150-A4		150	72-118	72-118-t <sub>II</sub>	1649700	1679714
SX16-S19-5,8×170-A4		170	92-138	92-138-t <sub>II</sub>	1649703	1649715
SX16-S19-5,8×200-A4		200	112-168	112-168-t <sub>II</sub>	1649704	1649716
SX16-S19-5,8×230-A4		230	142-198	142-198-t <sub>II</sub>	1649705	1649717
SX16-S19-5,8×260-A4		260	172-228	172-228-t <sub>II</sub>	1649709	1649718

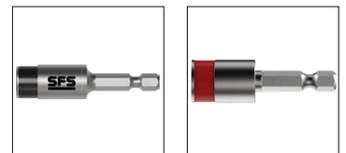
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.



## Fastener in A4 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	no washer
SX16-5,8×90-A4	100	90	35-61	35-61-t <sub>II</sub>	1649686
SX16-5,8×110-A4		110	45-81	45-81-t <sub>II</sub>	1649687
SX16-5,8×130-A4		130	55-101	55-101-t <sub>II</sub>	1649688
SX16-5,8×150-A4		150	75-121	75-121-t <sub>II</sub>	1649690
SX16-5,8×170-A4		170	95-141	95-141-t <sub>II</sub>	1649691
SX16-5,8×200-A4		200	115-171	115-171-t <sub>II</sub>	1649692
SX16-5,8×230-A4		230	145-201	145-201-t <sub>II</sub>	1649694
SX16-5,8×260-A4		260	175-231	175-231-t <sub>II</sub>	1649695

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.



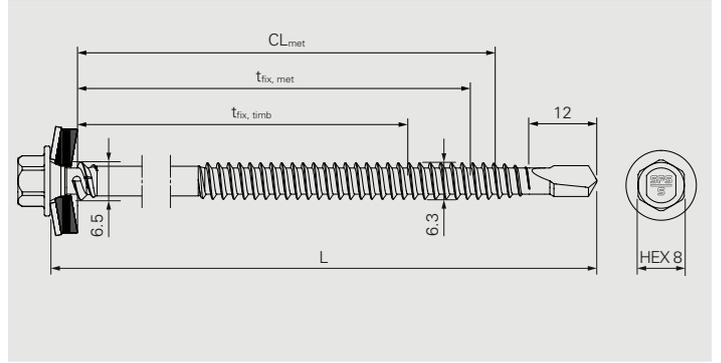
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SXC5-6.3-A2/A4



## Description

Self-drilling fastener made of stainless steel with support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber
- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup> 0.4–1.5

## Component 2 (t<sub>ii</sub>)

Steel	1.0–4.0
Steel	2×0.75–2.5
Timber	l <sub>ef</sub> ≥ 25

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

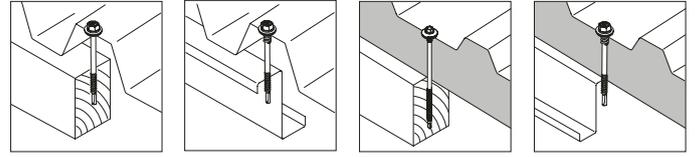
## Features and Benefits

- Fastener design for high technical values in the application
- Perfect support function by double support thread
- Long drill point for easy drilling through overlapped metal profiles
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	S16	S19	S22
SXC5-S19-6,3×65-A2	100	65	15–40	15–40-t <sub>fl</sub>	0–25	1683967	1684006	1684007
SXC5-S19-6,3×80-A2		80	30–55	30–55-t <sub>fl</sub>	15–40	1573397	1573583	1573732
SXC5-S19-6,3×100-A2		100	40–75	40–75-t <sub>fl</sub>	25–60	1573398	1573584	1573734
SXC5-S19-6,3×120-A2		120	50–95	50–95-t <sub>fl</sub>	35–80	1573400	1573585	1573736
SXC5-S19-6,3×140-A2		140	70–115	70–115-t <sub>fl</sub>	55–100	1573411	1573586	1573738
SXC5-S19-6,3×160-A2		160	90–135	90–135-t <sub>fl</sub>	75–120	1573414	1573587	1573740
SXC5-S19-6,3×190-A2		190	110–165	110–165-t <sub>fl</sub>	95–150	1573415	1573588	1573751
SXC5-S19-6,3×220-A2		220	140–195	140–195-t <sub>fl</sub>	125–180	1573416	1573590	1573762
SXC5-S19-6,3×250-A2		250	170–225	170–225-t <sub>fl</sub>	155–210	1573417	1573591	1573768
SXC5-S19-6,3×290-A2		290	210–265	210–265-t <sub>fl</sub>	195–250	1573418	1573592	1573773

Please refer to the “Definition of clamping range and fixing thickness” in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

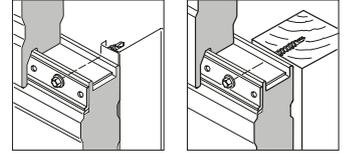
## Fastener in A4 onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	S16	S19	S22
SXC5-S19/A4-6,3×80-A4	100	80	30–55	30–55-t <sub>fl</sub>	15–45	1599990	1600001	1600003
SXC5-S19/A4-6,3×100-A4		100	40–75	40–75-t <sub>fl</sub>	25–60	1600005	1600007	1600009
SXC5-S19/A4-6,3×120-A4		120	50–95	50–95-t <sub>fl</sub>	35–80	1600022	1600023	1600024
SXC5-S19/A4-6,3×140-A4		140	70–115	70–115-t <sub>fl</sub>	55–100	1600026	1600027	1600028
SXC5-S19/A4-6,3×160-A4		160	90–135	90–135-t <sub>fl</sub>	75–120	1600042	1600043	1600044
SXC5-S19/A4-6,3×190-A4		190	110–165	110–165-t <sub>fl</sub>	95–150	1600047	1600049	1600051
SXC5-S19/A4-6,3×220-A4		220	140–195	140–195-t <sub>fl</sub>	125–180	1600055	1600056	1600057
SXC5-S19/A4-6,3×250-A4		250	170–225	170–225-t <sub>fl</sub>	155–210	1600059	1600064	1600071
SXC5-S19/A4-6,3×290-A4		290	210–265	210–265-t <sub>fl</sub>	195–250	1600078	1600080	1600134
SXC5-S19/A4-6,3×345-A4		345	265–320	265–320-t <sub>fl</sub>	250–305	1600140	1600161	1600166

Please refer to the “Definition of clamping range and fixing thickness” in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

### All measures in mm

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## Fastener in A2 onto steel and timber

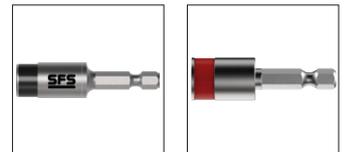
Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	no washer
SXC5-6,3×65-A2	100	65	18-43	18-43-t <sub>II</sub>	3-28	1661978
SXC5-6,3×80-A2		80	33-58	33-58-t <sub>II</sub>	18-43	1599843
SXC5-6,3×100-A2		100	43-78	43-78-t <sub>II</sub>	28-63	1599844
SXC5-6,3×120-A2		120	53-98	53-98-t <sub>II</sub>	38-83	1599847
SXC5-6,3×140-A2		140	73-118	73-118-t <sub>II</sub>	58-103	1599848
SXC5-6,3×160-A2		160	93-138	93-138-t <sub>II</sub>	78-123	1599851
SXC5-6,3×190-A2		190	113-168	113-168-t <sub>II</sub>	98-153	1599857
SXC5-6,3×220-A2		220	143-198	143-198-t <sub>II</sub>	128-183	1599859
SXC5-6,3×250-A2		250	173-228	173-228-t <sub>II</sub>	158-213	1599860
SXC5-6,3×290-A2		290	213-268	213-268-t <sub>II</sub>	198-253	1599871

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

## Fastener in A4 onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	no washer
SXC5-6,3×80-A4	100	80	33-58	33-58-t <sub>II</sub>	18-43	1600004
SXC5-6,3×100-A4		100	43-78	43-78-t <sub>II</sub>	28-63	1600010
SXC5-6,3×120-A4		120	53-98	53-98-t <sub>II</sub>	38-83	1600025
SXC5-6,3×140-A4		140	73-118	73-118-t <sub>II</sub>	58-103	1600029
SXC5-6,3×160-A4		160	93-138	93-138-t <sub>II</sub>	78-123	1600045
SXC5-6,3×190-A4		190	113-168	113-168-t <sub>II</sub>	98-153	1600052
SXC5-6,3×220-A4		220	143-198	143-198-t <sub>II</sub>	123-183	1600058
SXC5-6,3×250-A4		250	173-228	173-228-t <sub>II</sub>	158-213	1600073
SXC5-6,3×290-A4		290	213-268	213-268-t <sub>II</sub>	198-253	1600137
SXC5-6,3×345-A4		345	268-323	268-323-t <sub>II</sub>	253-308	1600185

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

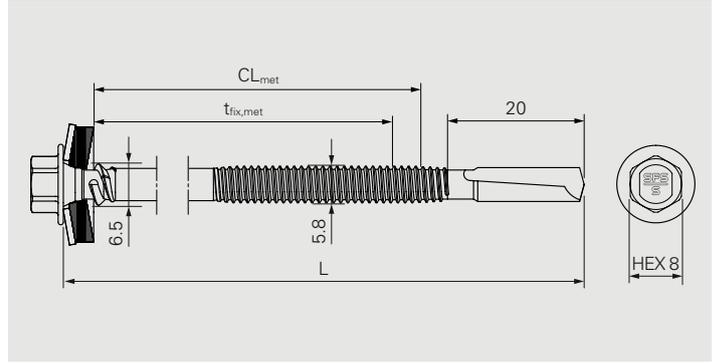
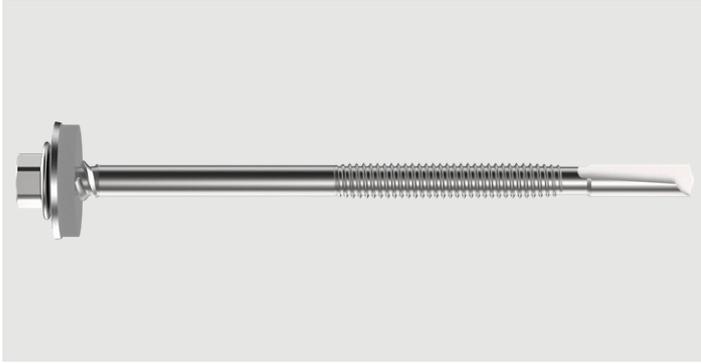


## Accessories

Product description	PU	Insert drive	Recess	L	no washer
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

All measures in mm

# SXC16-5.8-A2/A4



## Description

Self-drilling fastener made of stainless steel with support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto steel beams  
 Fastening of profile sheets onto steel beams

## Component 1 (t<sub>I</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>II</sub>)

Steel

3.0–14.0

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

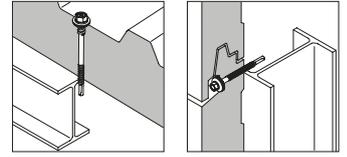
## Features and Benefits

- High drilling performance for heavy steel beams
- Perfect support function by double support thread
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	S16	S19	S22
SXC16-S19-5,8×90-A2	100	90	32–58	32–58-t <sub>II</sub>	1573419	1573595	1573774
SXC16-S19-5,8×110-A2		110	42–78	42–78-t <sub>II</sub>	1573420	1573596	1573783
SXC16-S19-5,8×130-A2		130	52–98	52–98-t <sub>II</sub>	1573441	1573597	1573789
SXC16-S19-5,8×150-A2		150	72–118	72–118-t <sub>II</sub>	1573443	1573707	1573790
SXC16-S19-5,8×170-A2		170	92–138	92–138-t <sub>II</sub>	1573445	1573709	1573859
SXC16-S19-5,8×200-A2		200	112–168	112–168-t <sub>II</sub>	1573446	1573710	1573875
SXC16-S19-5,8×230-A2		230	142–198	142–198-t <sub>II</sub>	1573447	1573712	1574011
SXC16-S19-5,8×260-A2		260	172–228	172–228-t <sub>II</sub>	1573448	1573714	1574051
SXC16-S19-5,8×300-A2		300	212–268	212–268-t <sub>II</sub>	1573450	1573715	1574054

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub>.

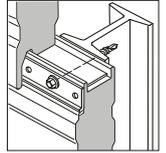
## Fastener in A4 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	S16	S19	S22
SXC16-S19/A4-5,8×90-A4	100	90	32–58	32–58-t <sub>II</sub>	1613574	1613558	1613576
SXC16-S19/A4-5,8×110-A4		110	42–78	42–78-t <sub>II</sub>	1613594	1613595	1613596
SXC16-S19/A4-5,8×130-A4		130	52–98	52–98-t <sub>II</sub>	1613602	1613603	1613604
SXC16-S19/A4-5,8×150-A4		150	72–118	72–118-t <sub>II</sub>	1613606	1613607	1613608
SXC16-S19/A4-5,8×170-A4		170	92–138	92–138-t <sub>II</sub>	1613622	1613623	1613626
SXC16-S19/A4-5,8×200-A4		200	112–168	112–168-t <sub>II</sub>	1613693	1613694	1613695
SXC16-S19/A4-5,8×230-A4		230	142–198	142–198-t <sub>II</sub>	1613699	1613707	1613708
SXC16-S19/A4-5,8×260-A4		260	172–228	172–228-t <sub>II</sub>	1613711	1613712	1613713
SXC16-S19/A4-5,8×300-A4		300	212–268	212–268-t <sub>II</sub>	1613720	1614801	1614803
SXC16-S19/A4-5,8×355-A4		355	267–323	267–323-t <sub>II</sub>	1614805	1606472	1606474

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub>.

### All measures in mm

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## Fastener in A2 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	no washer
SXC16-5,8×90-A2	100	90	35-61	35-61-t <sub>II</sub>	1615954
SXC16-5,8×110-A2		110	45-81	45-81-t <sub>II</sub>	1615960
SXC16-5,8×130-A2		130	55-101	55-101-t <sub>II</sub>	1615963
SXC16-5,8×150-A2		150	75-121	75-121-t <sub>II</sub>	1615978
SXC16-5,8×170-A2		170	95-141	75-141-t <sub>II</sub>	1616036
SXC16-5,8×200-A2		200	115-171	115-171-t <sub>II</sub>	1616046
SXC16-5,8×230-A2		230	145-201	145-201-t <sub>II</sub>	1616051
SXC16-5,8×260-A2		260	175-231	175-231-t <sub>II</sub>	1616090
SXC16-5,8×300-A2		300	215-271	215-271-t <sub>II</sub>	1616112

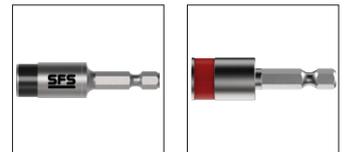
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.

## Fastener in A4 onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	no washer
SXC16-5,8×90-A4	100	90	35-61	35-61-t <sub>II</sub>	1613577
SXC16-5,8×110-A4		110	45-81	45-81-t <sub>II</sub>	1613600
SXC16-5,8×130-A4		130	55-101	55-101-t <sub>II</sub>	1613605
SXC16-5,8×150-A4		150	75-121	75-121-t <sub>II</sub>	1613609
SXC16-5,8×170-A4		170	95-141	75-141-t <sub>II</sub>	1613630
SXC16-5,8×200-A4		200	115-171	115-171-t <sub>II</sub>	1613697
SXC16-5,8×230-A4		230	145-201	145-201-t <sub>II</sub>	1613709
SXC16-5,8×260-A4		260	175-231	175-231-t <sub>II</sub>	1613717
SXC16-5,8×300-A4		300	215-271	215-271-t <sub>II</sub>	1614804
SXC16-5,8×355-A4		355	270-326	270-326-t <sub>II</sub>	1606471

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.

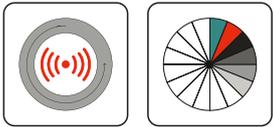
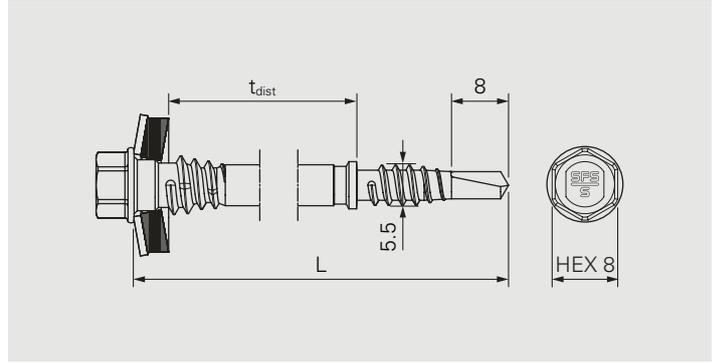
## Accessories



Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

All measures in mm

# SXD3-5.5-A2



## Description

Self-drilling fastener made of stainless steel with support thread, shank flange, free-spin zone and sealing washer  
Wide support thread with free-spin zone and cut-off thread-end

## Application

Distance fastening of profile sheets onto liner trays

## Component 1 (t<sub>i</sub>)

Steel <sup>1)</sup>	0.5–1.5
Aluminium <sup>1)</sup>	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	0.63–1.5
Steel	2×0.63–1.5

<sup>1)</sup> Pre-drill Ø 6.5

## Fastener material

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

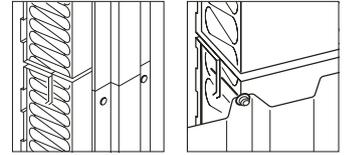
## Approvals



## Features and Benefits

- Precisely fastening distance by shank flange as distance element
- Perfect support function by wide support thread
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High quality EPDM-seal with long durability

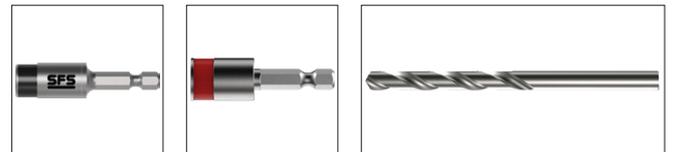
All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	t <sub>dist</sub>	S16
SXD3-S-S16-5,5×64-A2	100	64	40	1526645
SXD3-S-S16-5,5×104-A2	250	104	80	1541205

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>dist</sub>.



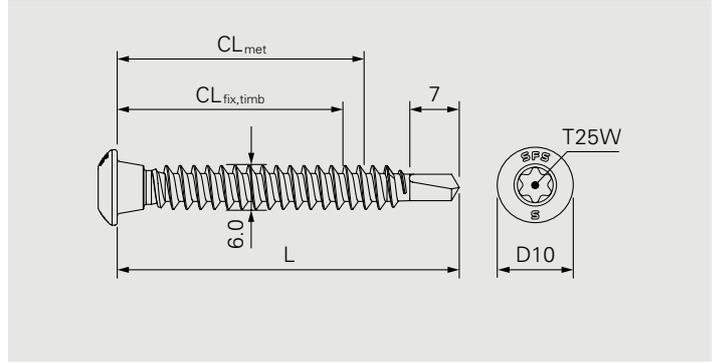
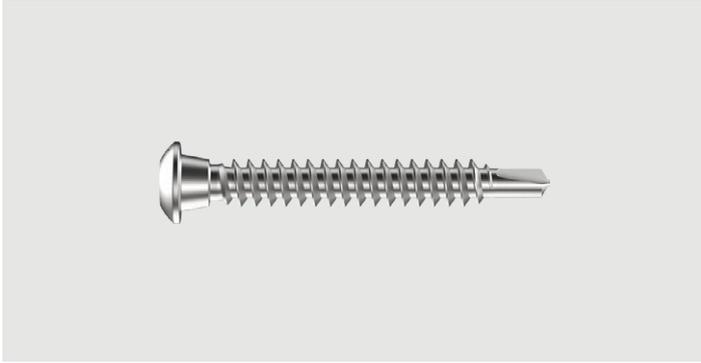
## Accessories

Product description	PU	Insert Drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
HSS-6,5×101/63		-	-	101/63	893457

### All measures in mm

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# SXK2-6.0-A2



## Description

Self-drilling fastener made of stainless steel with clamping cone

## Application

Fastening of standing seam clips onto metal decks  
Fastening of standing seam clips onto timber

## Component 1 (t<sub>1</sub>)

Clip<sup>1)</sup>

≥5.0

## Component 2 (t<sub>11</sub>)

Steel

0.75–1.25

Aluminium

1.0–2.0

Timber

$l_{ef} \geq 18$

<sup>1)</sup>Clearance hole  $\varnothing$  6.1

## Fastener material

Austenitic stainless steel A2, hardened tip

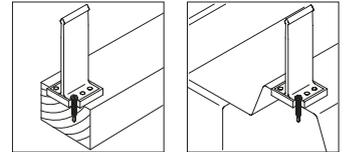
## Features and Benefits

- Fastener design for high technical values in the application
- No risk of overwinding by the clamping cone with torque stop function
- High security against self-loosening by the high tightening torque

## Approvals



All measures in mm



## Fastener in A2 onto steel, aluminium and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, timb</sub>	
SXK2-D10-6,0x35-A2	250	35	5-21	-	1615850
SXK2-D10-6,0x45-A2		45	5-31	5-20	1615848
SXK2-D10-6,0x60-A2		60	5-46	5-35	1705525

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, timb</sub>.  
Bit T25W-25-HEX¼" included in each package



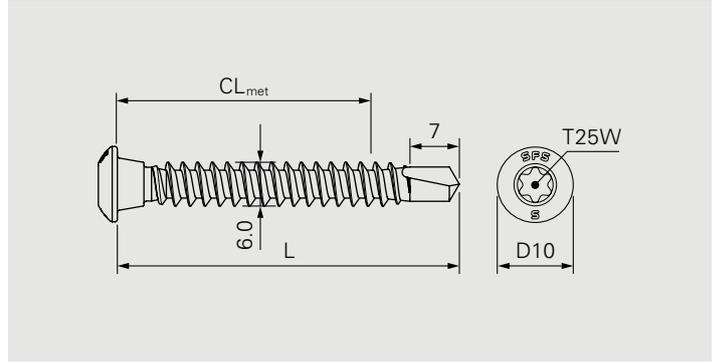
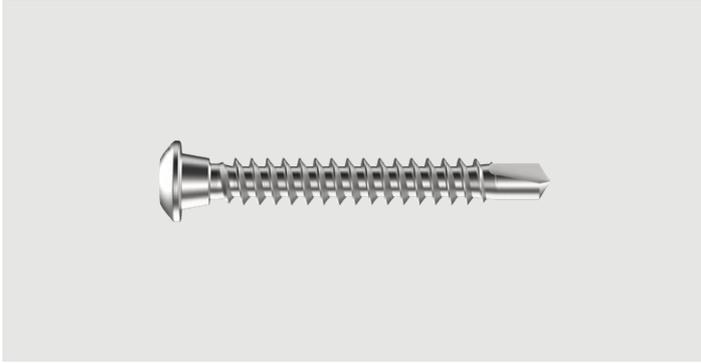
## Accessories

Product description	PU	Insert drive	Recess	L		
Bit holder ZA¼"-58	1	HEX¼"	HEX¼"	58	1162306	
Bit holder ZA¼"-300				300	1741261	
Bit T25W-25-HEX¼"		T25W		25	included in each package	7662
Bit T25W-175-HEX¼"				175	727979	

### All measures in mm

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# SXK3-6.0-A2



## Description

Self-drilling fastener made of stainless steel with clamping cone

## Application

Fastening of standing seam clips onto metal profiles

## Component 1 (t<sub>1</sub>)

Clip<sup>1)</sup>

≥5.0

## Component 2 (t<sub>11</sub>)

Steel

1.25–2.5

Aluminium

2.0–3.0

<sup>1)</sup>Clearance hole Ø 6.1

## Fastener material

Austenitic stainless steel A2, hardened tip

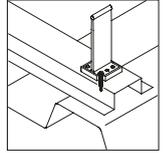
## Features and Benefits

- Fastener design for high technical values in the application
- No risk of overwinding by the clamping cone with torque stop function
- High security against self-loosening by the high tightening torque

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	
SXK3-D10-6,0x30-A2	250	30	5-16	1615844
SXK3-D10-6,0x45-A2		45	5-31	1615846

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.  
 Bit T25W-25-HEX $\frac{1}{4}$ " included in each package



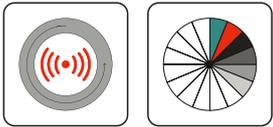
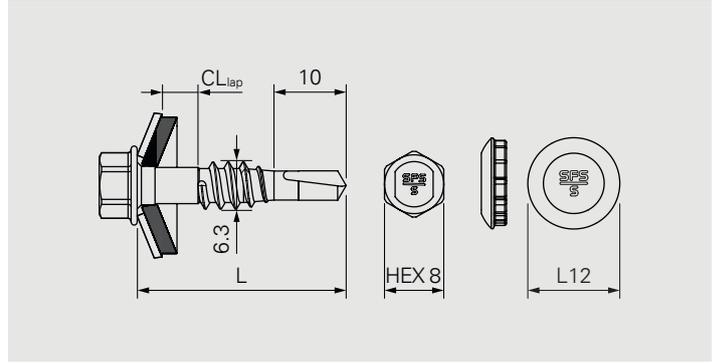
## Accessories

Product description	PU	Insert drive	Recess	L	
Bit holder ZA $\frac{1}{4}$ "-58	1	HEX $\frac{1}{4}$ "	HEX $\frac{1}{4}$ "	58	1162306
Bit holder ZA $\frac{1}{4}$ "-300				300	1741261
Bit T25W-25-HEX $\frac{1}{4}$ "			T25W	25	included in each package 7662
Bit T25W-175-HEX $\frac{1}{4}$ "				175	727979

### All measures in mm

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# SXL2-6.3-A2/A4



## Description

Self-drilling fastener made of stainless steel with free-spin zone and sealing washer

## 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<sub>1</sub>)

Steel	0.4–1.5
Steel	2×0.4–0.88
Aluminium	0.5–1.5

## Component 2 (t<sub>11</sub>)

Steel	0.4–1.5
Steel	2×0.4–0.88
Aluminium	0.5–1.5

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

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

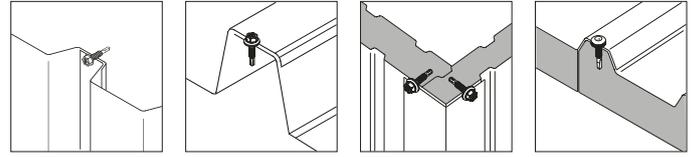
## Features and Benefits

- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- Special AV-shaped sealing washer for high clamping range
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel and Aluminium

Product code	PU	L	CL <sub>lap</sub>	AV14	AV16	AV19
SXL2-AV14-6,3×26-A2	100	26	0.8–3.5	1748183	1748186	–
SXL2-AV14-6,3×26-A2	500			1748188	1748189	–
SXL2-AV19-6,3×28-A2	100	28	3.0–6.5	–	–	1747702
SXL2-AV19-6,3×28-A2	500			–	–	1747732

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.

## Fastener in A4 onto steel and Aluminium

Product code	PU	L	CL <sub>lap</sub>	AV14	AV16	AV19
SXL2-AV14-6,3×26-A4	100	26	0.8–3.5	1748185	1748191	–
SXL2-AV14-6,3×26-A4	500			1748192	1748205	–
SXL2-L12-AV14-6.3×26-A4	100	26	0.8–3.5	1749182	–	–
SXL2-L12-AV14-6.3×26-A4	500			1749170	–	–
SXL2-AV19-6.3×28-A4	100	28	3.0–6.5	–	–	1747703
SXL2-AV19-6.3×28-A4	500			–	–	1747733

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



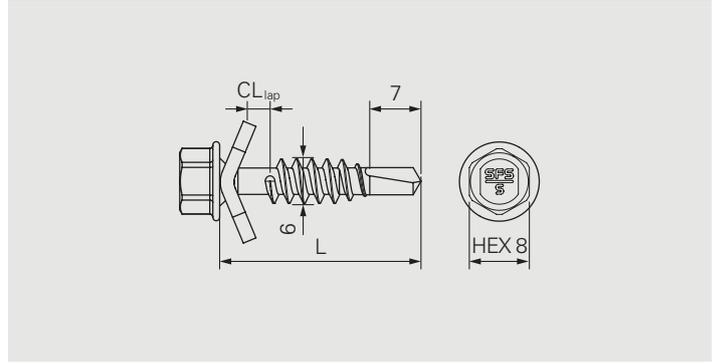
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Socket E420-¼"-74			74	973316	

### All measures in mm

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# SXL3-6.0-A2/A4



## Description

Self-drilling fastener made of stainless steel with free-spin zone and curved spring disc

## Application

Fastening of metal profiles onto metal decks

## Component 1 (t<sub>1</sub>)

Steel	1.0–2.0
Aluminium	1.0–3.0

## Component 2 (t<sub>II</sub>)

Steel	0.63–1.5
Steel	2×0.63–0.88

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Austenitic stainless steel A2/A4, hardened tip  
Curved disc: Austenitic stainless steel A2/A4

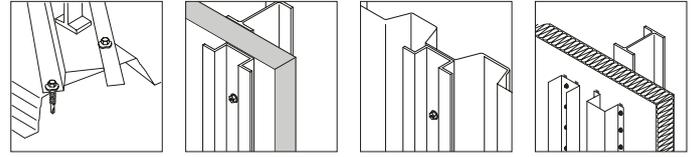
## Features and Benefits

- Fastener design for high technical values in the application
- Special SV-shaped disc for high clamping range with application-independent clamping force
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel

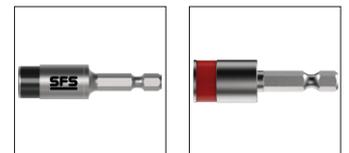
Product code	PU	L	CL <sub>lap</sub>	SV16
SXL3-SV16-6,0x27-A2	500	27	1.9-4.8	1794614

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.

## Fastener in A4 onto steel

Product code	PU	L	CL <sub>lap</sub>	SV16/A4
SXL3-SV16/A4-6,0x27-A4	500	27	1.9-4.8	1794620

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



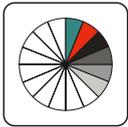
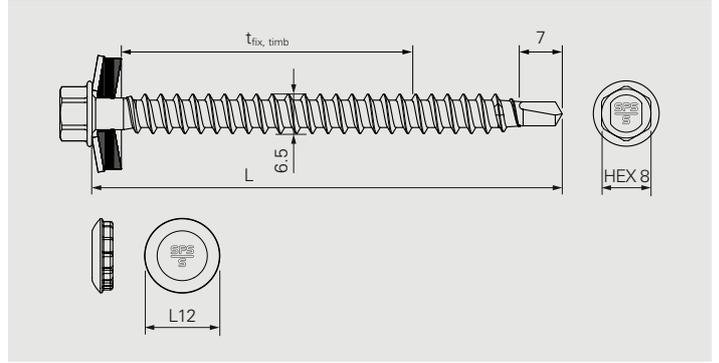
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SXW-6.5-A2



## Description

Self-drilling fastener made of stainless steel with sealing washer

## Application

Fastening of profile sheets onto timber

## Component 1 (t<sub>i</sub>)

Steel	0.5–1.5
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Timber	$l_{ef} \geq 35$
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## Fastener material

Austenitic stainless steel A2, hardened tip

Sealing washer: Austenitic stainless steel A2, EPDM-seal

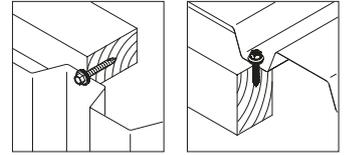
## Features and Benefits

- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto timber

Product code	PU	L	t <sub>fix, timb</sub>	S16	S19
SXW-S16-6,5x52-A2	250	52	0-7	1123138	1123139
SXW-S16-6,5x75-A2		75	0-30	1069319	1107866
SXW-S16-6,5x99-A2		99	4-54	1110537	1098610
SXW-L12-S16-6,5x52-A2	250	52	0-7	-	1133037

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.

## Accessories

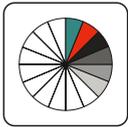
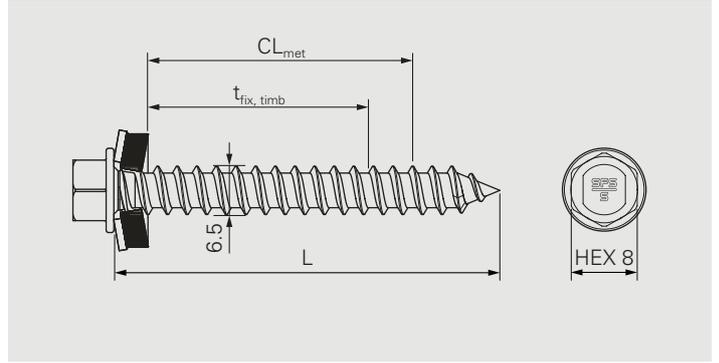


Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX ¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160
Socket E420-¼"-74			74	irius® L12	973316

### All measures in mm

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# TDA-S-6.5-A2



## Description

Self-tapping fastener made of stainless steel with sealing washer

## Application

- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber
- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber

## Component 1 (t<sub>i</sub>)

Steel <sup>1)</sup>	0.4–1.5
Aluminium	0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel	0.63–3.0
Steel	2×0.75–1.5
Aluminium	1.0–3.0
Timber	$l_p \geq 35$

Pre-drill Ø see table

<sup>1)</sup>Cover sheet in case of sandwich panel

## Fastener material

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

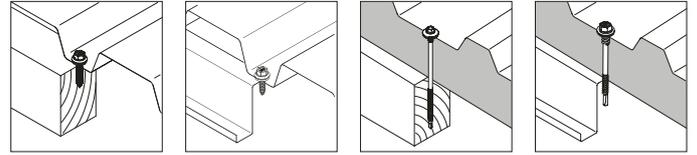
## Features and Benefits

- Multifunctional fastener for a variety of applications
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel, timber and aluminium

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, timb</sub>	S16	S19	S22
TDA-S-S16-6,5×20-A2	500	20	0–10	–	1526324	1526378	1526739
TDA-S-S16-6,5×25-A2		25	0–15		6760	6680	6713
TDA-S-S16-6,5×32-A2		32	0–22		6761	6681	6714
TDA-S-S16-6,5×40-A2	250	40	0–30	0–5	1526325	1526379	1526751
TDA-S-S16-6,5×50-A2		50	0–40		6764	6684	6717
TDA-S-S16-6,5×60-A2		60	0–50		1526326	1526391	1526752
TDA-S-S16-6,5×80-A2		80	3–70		1526328	1526392	1526753
TDA-S-S16-6,5×100-A2	100	100	23–90	8–55	6768	6688	6721
TDA-S-S16-6,5×120-A2		120	43–110	28–75	1526330	1526393	1526754
TDA-S-S16-6,5×140-A2		140	63–130	48–95	1526342	1526394	1526756
TDA-S-S16-6,5×160-A2		160	83–150	68–115	1526344	1526395	1526758
TDA-S-S16-6,5×180-A2		180	103–170	88–135	1526346	1526396	1526771
TDA-S-S16-6,5×200-A2		200	123–190	108–155	1526347	1526397	1526774
TDA-S-S16-6,5×220-A2		220	143–210	128–175	1526348	1526398	1526776
TDA-S-S16-6,5×260-A2		260	183–250	168–215	1526349	1526399	1526779

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, timb</sub>.

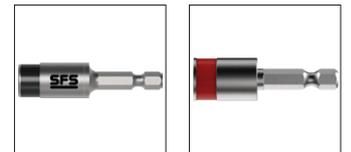
### All measures in mm

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## Pre-drill diameter

Component 1 (t <sub>i</sub> )		Component 2 (t <sub>II</sub> )		Pre-drill Ø
Steel	0.4–1.5	Steel	0.63	3.5
Aluminium	0.5–1.5	Steel	0.75	4.0
		Steel	0.88-1.25	4.5
		Steel	1.5–3.0	5.0
		Steel	2×0.75–1.0	4.0
		Steel	2×1.25–1.5	4.5
Steel	0.4–1.5	Timber	l <sub>p</sub> > 35	4.0
Aluminium	0.5–1.5	Aluminium	1.0–1.5	4.5
		Aluminium	2.0–2.5	5.0
		Aluminium	3.0	5.3

For information regarding the material quality of the components, please refer to the ETA approval.

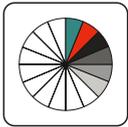
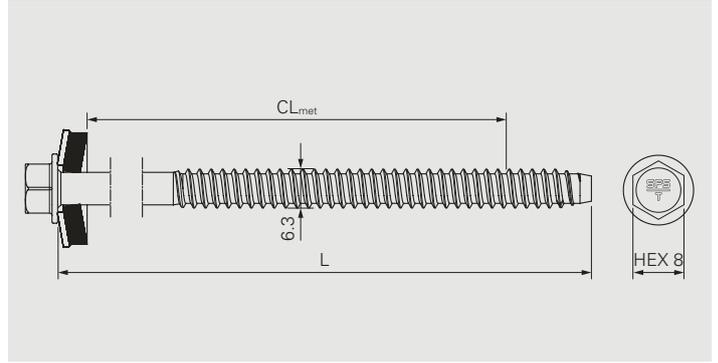
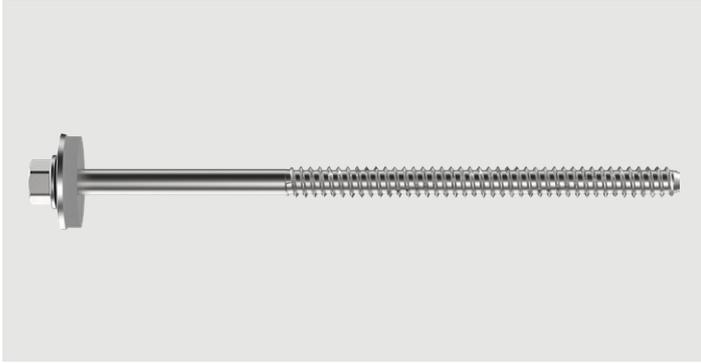


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

All measures in mm

# TDB-S-6.3-A2/A4



## Description

Self-tapping fastener made of stainless steel with sealing washer

## Application

- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto steel beams
- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto steel beams

Component 1 (t <sub>i</sub> )		Component 2 (t <sub>ii</sub> )	
Steel <sup>1)</sup>	0.4–1.5	Steel	≥1.25
Aluminium	0.5–1.5	Aluminium	≥1.5

Pre-drill Ø see table

<sup>1)</sup>Cover sheet in case of sandwich panel

## Fastener material

Austenitic stainless steel A2/A4

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

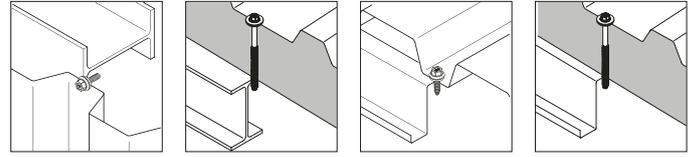
## Features and Benefits

- Multifunctional fastener for a variety of applications
- High quality EPDM-seal with long durability

## Approvals



All measures in mm



## Fastener in A2 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	S16	S19	S22
TDB-S-S16-6,3×20-A2	500	20	0–12	1526350	1526400	1526792
TDB-S-S16-6,3×25-A2		25	0–17	1021650	1021647	1063057
TDB-S-S16-6,3×32-A2		32	0–24	1021659	1063816	1045402
TDB-S-S16-6,3×40-A2	250	40	0–32	1526352	1526401	1526781
TDB-S-S16-6,3×50-A2		50	0–42	1022745	1022746	1045407
TDB-S-S16-6,3×60-A2		60	0–52	1526353	1526402	1526783
TDB-S-S16-6,3×80-A2		80	2–72	1526354	1526403	1526785
TDB-S-S16-6,3×100-A2	100	100	22–92	1022759	1022758	1051692
TDB-S-S16-6,3×120-A2		120	42–112	1526355	1526405	1526786
TDB-S-S16-6,3×140-A2		140	62–132	1526356	1526406	1526787
TDB-S-S16-6,3×160-A2		160	82–152	1526357	1526407	1526788
TDB-S-S16-6,3×180-A2		180	102–172	1526359	1526408	1526789
TDB-S-S16-6,3×200-A2		200	122–192	1270144	1191450	1284314
TDB-S-S16-6,3×220-A2		220	142–212	1191440	1194640	1226694
TDB-S-S16-6,3×260-A2		260	182–252	1526371	1526410	1526791

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

## Fastener in A4 onto steel and aluminium

Product code	PU	L	CL <sub>met</sub>	S16	S19
TDB-S16/A4-6,3×20-A4	500	20	0–12	1489455	1676198
TDB-S16/A4-6,3×25-A4		25	0–17	1479523	1596647
TDB-S16/A4-6,3×40-A4	250	40	0–32	1614055	1614052

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

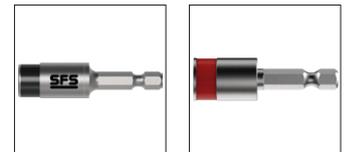
### All measures in mm

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## Pre-drill diameter

Component 1 (t <sub>i</sub> )		Component 2 (t <sub>II</sub> )		Pre-drill Ø
Steel	0.4–1.5	Steel	1.25–1.5	5.0
Aluminium	0.5–1.5	Steel	2.0–4.5	5.3
		Steel	5.0–6.5	5.5
		Steel	7.0–10.0	5.7
		Steel	>10.0	5.8
Aluminium	0.5–1.5	Aluminium	1.5	4.5
		Aluminium	2.0–3.0	5.0
		Aluminium	3.5–5.0	5.3
		Aluminium	>5.0	5.5

For information regarding the material quality of the components, please refer to the ETA approval.

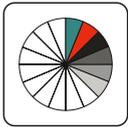
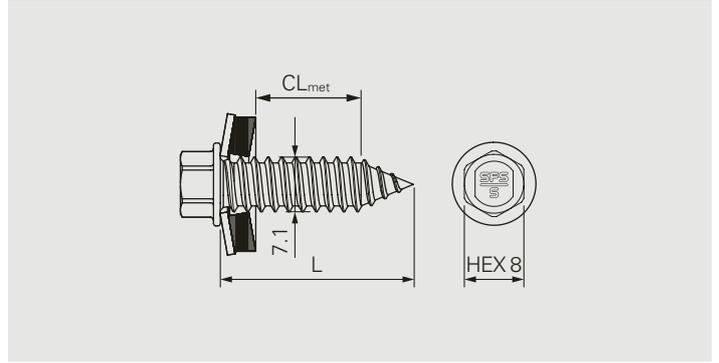
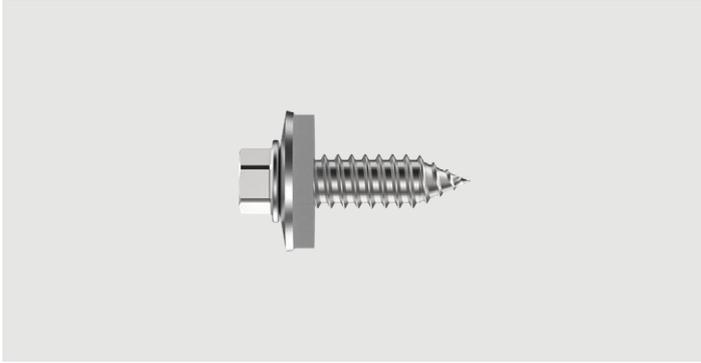


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

All measures in mm

# TDC-S-7.1-A2



## Description

Self-tapping fastener made of stainless steel with sealing washer

## Application

Replacement of overwinded fasteners  
Fastening of profile sheets onto metal profiles

## Component 1 (t<sub>i</sub>)

Steel	0.5–1.5
Aluminium	0.5–1.5
Pre-drill Ø 6.5	

## Component 2 (t<sub>ii</sub>)

Steel	0.63–3.0
Aluminium	1.0–3.0

## Fastener material

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

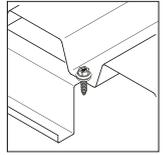
## Features and Benefits

- High quality EPDM-seal with long durability

## Approvals



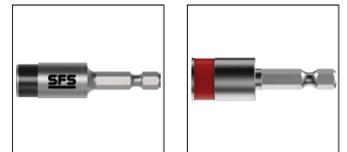
All measures in mm



## Fastener in A2 onto steel

Product code	PU	L	CL <sub>met</sub>	S19
TDC-S19-7,1x25-A2	500	25	0-14	1066788

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



## Accessories

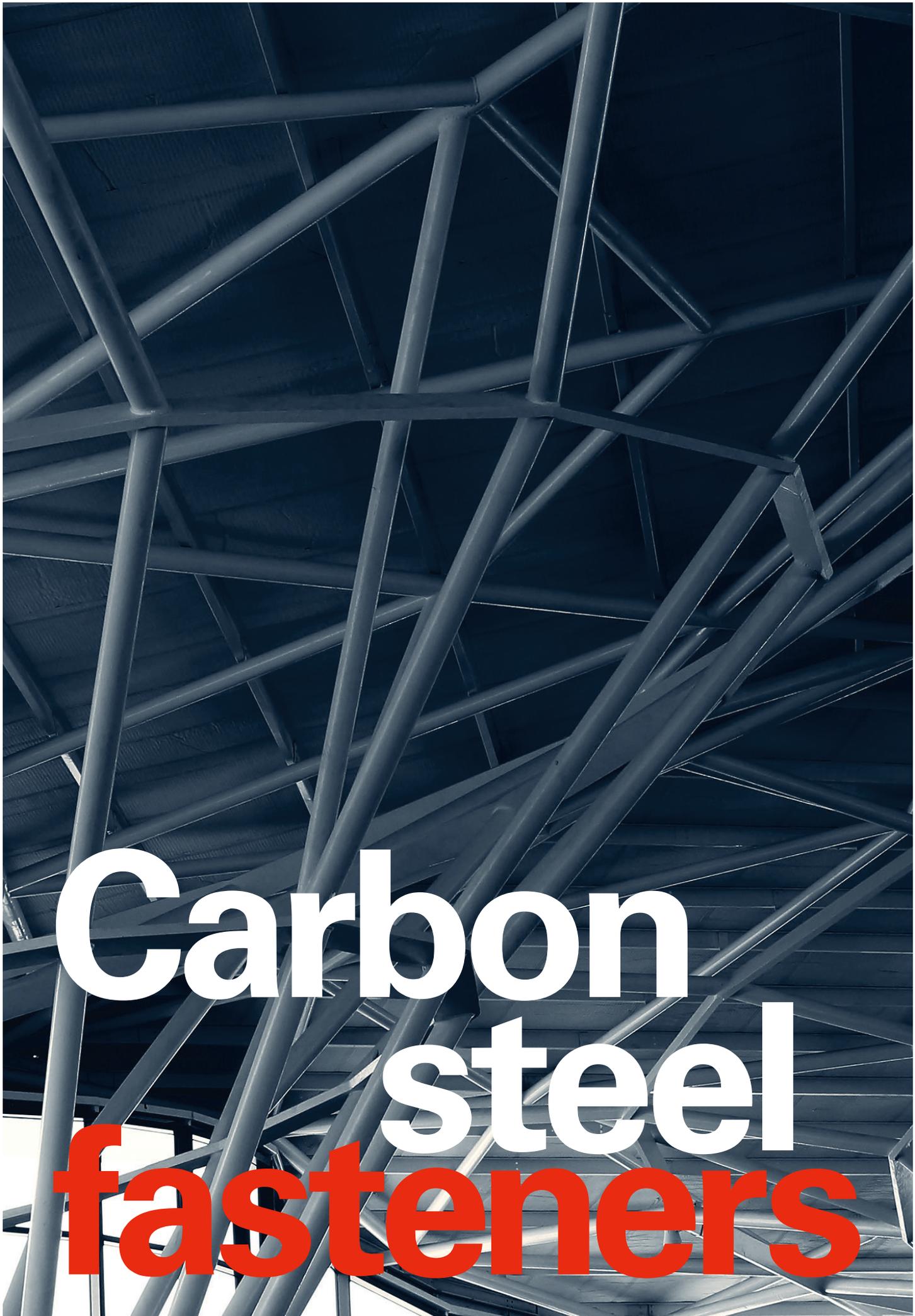
Product description	PU	Insert drive	Head drive	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
Socket E308-¼"-50				50	1646160

### All measures in mm

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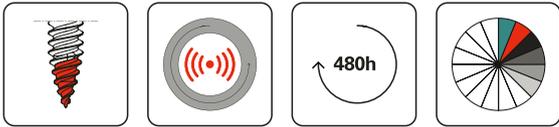
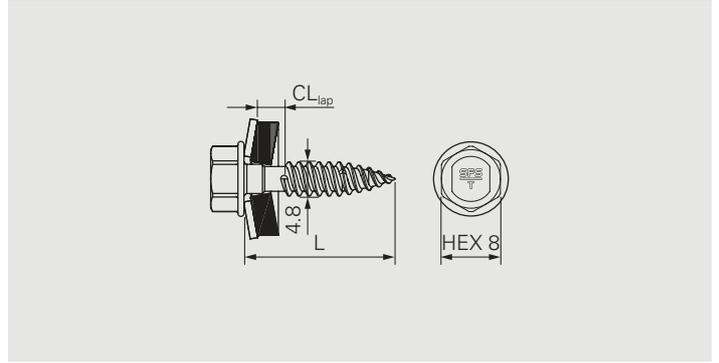
**All measures in mm**

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# Carbon steel fasteners

# CDL-4.8



## Description

Self-drilling fastener made of carbon steel with FastTip®, free-spin zone and sealing washer

## Application

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

## Component 1 (t<sub>I</sub>)

Steel

0.4–1.0

## Component 2 (t<sub>II</sub>)

Steel

0.4–1.0

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480  
 Sealing washer: Aluminium or carbon steel galvanized  
 EPDM-seal

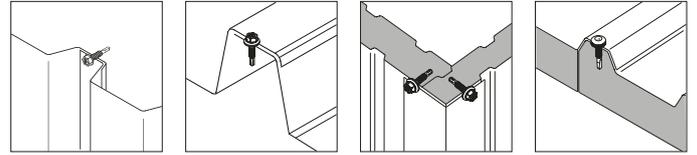
## Features and Benefits

- Fast and chip-free installation without necessary post-cleaning
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by free-spin zone with cut-off thread-end
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



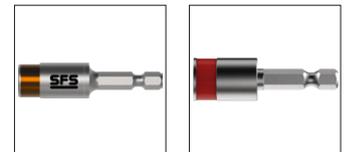
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	T14	A14
CDL-A14-4,8×20	250	20	0.8-2.0	-	1793725
CDL-T14-4,8×20	250	20	0.8-2.0	1793726	-

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



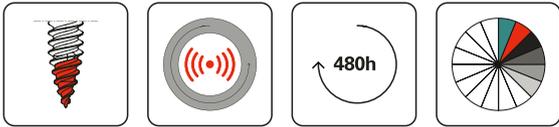
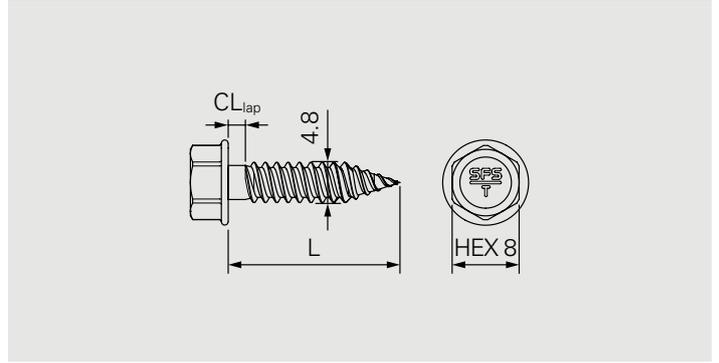
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# CDM-4.8



## Description

Self-drilling fastener made of carbon steel with FastTip® and free-spin zone

## Application

Fastening of overlaps of metal decks  
Fastening of overlaps of liner trays

## Component 1 (t<sub>i</sub>)

Steel 0.63–1.0

## Component 2 (t<sub>ii</sub>)

Steel 0.63–1.0

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

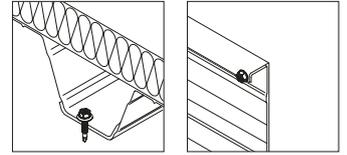
## Approvals



## Features and Benefits

- Fast and chip-free installation without necessary post-cleaning
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- Increased security against unwinding by the free-spin zone
- Head undercut for a gap-free sit of the fastener head
- High corrosion durability by special galvanic coating

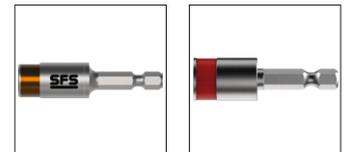
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
CDM-4,8x20	1000	20	1.2-2.0	1687513

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



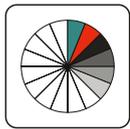
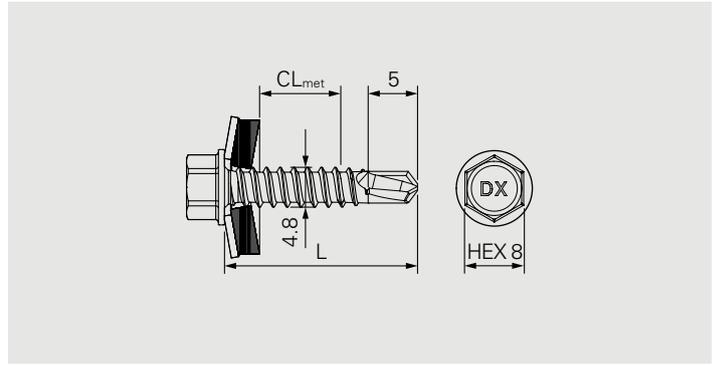
## Accessories

Product description	PU	Insert drive	Head drive	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DD2-4.8



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

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

## Component 1 (t<sub>i</sub>)

Steel 0.4–1.25

## Component 2 (t<sub>ii</sub>)

Steel 0.4–1.25

## Fastener material

Carbon steel, hardened, galvanized  
Sealing washer: Carbon steel galvanized, EPDM-seal

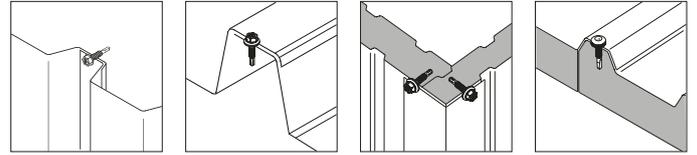
## Features and Benefits

- EPDM-seal with long durability

## Approvals



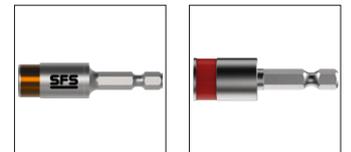
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T14
DD2-T14-4,8×20	250	20	0-8	1696441
DD2-T14-4,8×20	5000			1695916

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



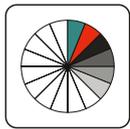
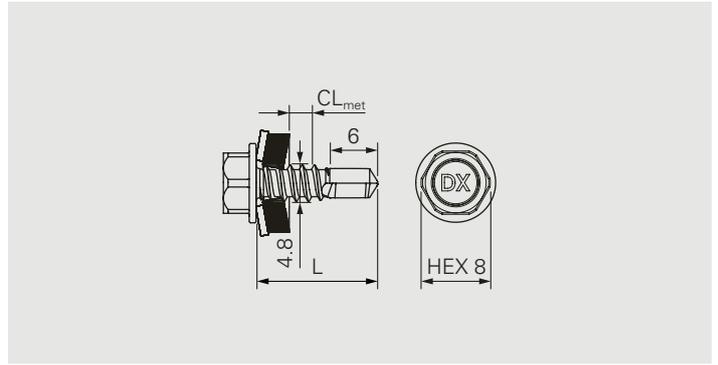
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DD4-4.8



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto metal profiles

## Component 1 (t<sub>i</sub>)

Steel 0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel 1.0–3.0

## Fastener material

Carbon steel, hardened, galvanized

Sealing washer: Carbon steel galvanized, EPDM-seal

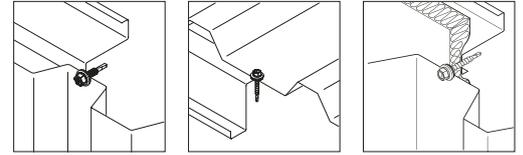
## Features and Benefits

- EPDM-seal with long durability

## Approvals



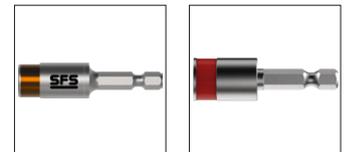
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
DD4-T16-4,8×16	5000	16	0-3	1695919
DD4-T16-4,8×16	250			1696442
DD4-T16-4,8×19	5000	19	0-6	1695923
DD4-T16-4,8×19	250			1696443
DD4-T16-4,8×25	4000	25	0-12	1695925
DD4-T16-4,8×25	250			1696444
DD4-T16-4,8×38	3000	38	0-25	1712832
DD4-T16-4,8×38	250			1712833

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



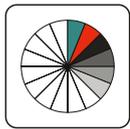
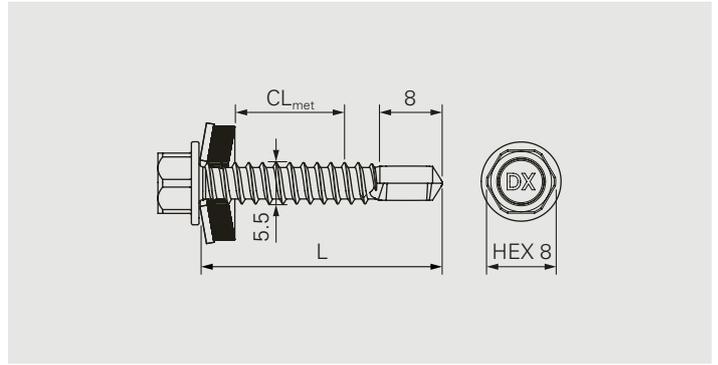
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DD5-5.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto metal profiles

## Component 1 (t<sub>1</sub>)

Steel

0.5–1.5

## Component 2 (t<sub>II</sub>)

Steel

1.25–4.0

## Fastener material

Carbon steel, hardened, galvanized

Sealing washer: Carbon steel galvanized, EPDM-seal

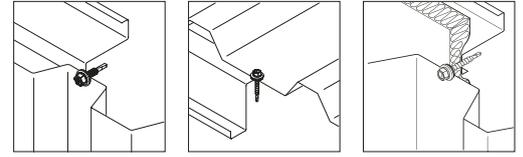
## Features and Benefits

- EPDM-seal with long durability

## Approvals



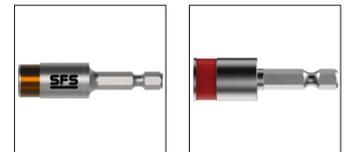
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
DD5-T16-5,5×25	3000	25	0-9	1695927
DD5-T16-5,5×25	250			1696445
DD5-T16-5,5×32	2500	32	0-16	1695928
DD5-T16-5,5×32	250			1696446
DD5-T16-5,5×38	2500	38	0-22	1695929
DD5-T16-5,5×38	250			1696447
DD5-T16-5,5×50	2000	50	0-34	1695930
DD5-T16-5,5×50	250			1696448
DD5-T16-5,5×60	1500	60	0-44	1695941
DD5-T16-5,5×60	250			1696449

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



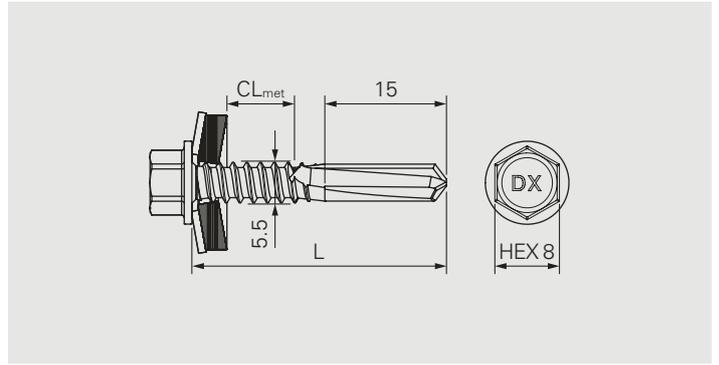
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DD12-5.5



**Description**

Self-drilling fastener made of carbon steel with sealing washer

**Application**

Fastening of profile sheets onto steel beams

**Component 1 (t<sub>i</sub>)**

Steel 0.5–1.5

**Component 2 (t<sub>ii</sub>)**

Steel 3.0–10.0

**Fastener material**

Carbon steel, hardened, galvanized

Sealing washer: Carbon steel galvanized, EPDM-seal

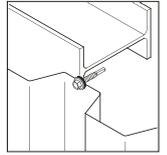
**Features and Benefits**

- High drilling performance for steel beams
- EPDM-seal with long durability

**Approvals**



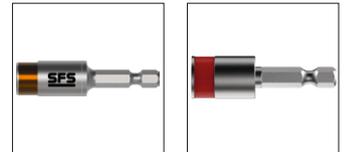
**All measures in mm**



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
DD12-T16-5,5×32	2500	32	0-9	1695942
DD12-T16-5,5×32	250			1696787
DD12-T16-5,5×38	2500	38	0-15	1695944
DD12-T16-5,5×38	250			1696788
DD12-T16-5,5×50	2000	50	0-27	1695945
DD12-T16-5,5×50	250			1696821
DD12-T16-5,5×60	1500	60	0-37	1695949
DD12-T16-5,5×60	250			1696823

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



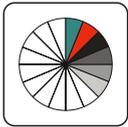
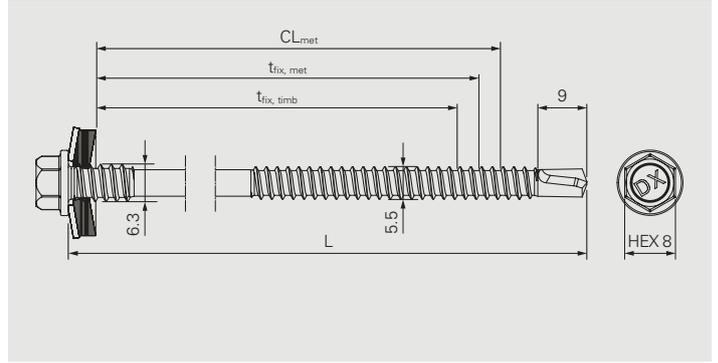
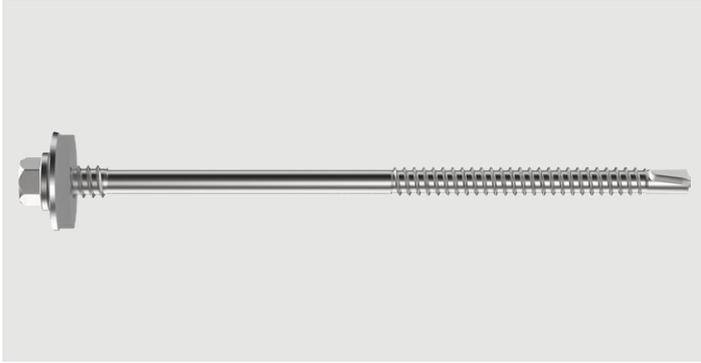
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DDC5-5.5



## Description

Self-drilling fastener made of carbon steel with support thread and sealing washer

## Application

- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber
- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup> 0.4–1.5

## Component 2 (t<sub>ii</sub>)

Steel 1.25–4.0  
Timber  $l_{ef} \geq 25$

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

Carbon steel, hardened, galvanized  
Sealing washer: Carbon steel galvanized, EPDM-seal

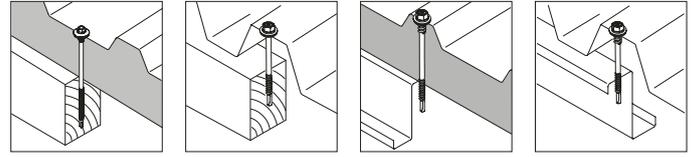
## Features and Benefits

- Increased support function by support thread
- EPDM-seal with long durability

## Approvals



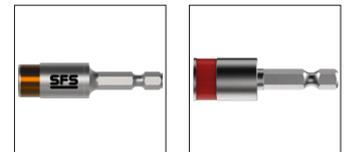
All measures in mm



## Fastener in carbon steel onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	T19
DDC5-T19-5,5×75	100	75	36-59	36-59-t <sub>II</sub>	21-38	1685753
DDC5-T19-5,5×75	1000					1685652
DDC5-T19-5,5×105	100	105	46-89	46-89-t <sub>II</sub>	31-68	1685754
DDC5-T19-5,5×105	600					1685653
DDC5-T19-5,5×120	100	120	61-104	61-104-t <sub>II</sub>	46-83	1685755
DDC5-T19-5,5×120	600					1685654
DDC5-T19-5,5×155	100	155	96-139	96-139-t <sub>II</sub>	81-118	1685756
DDC5-T19-5,5×155	500					1685657
DDC5-T19-5,5×175	100	175	106-159	106-159-t <sub>II</sub>	91-138	1685757
DDC5-T19-5,5×175	400					1685659
DDC5-T19-5,5×200	100	200	131-184	131-184-t <sub>II</sub>	116-163	1685758
DDC5-T19-5,5×200	400					1685672
DDC5-T19-5,5×245	100	245	176-229	176-229-t <sub>II</sub>	161-208	1743037
DDC5-T19-5,5×285		285	216-269	216-269-t <sub>II</sub>	201-248	1743038

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub>, and t<sub>fix, timb</sub>.



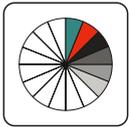
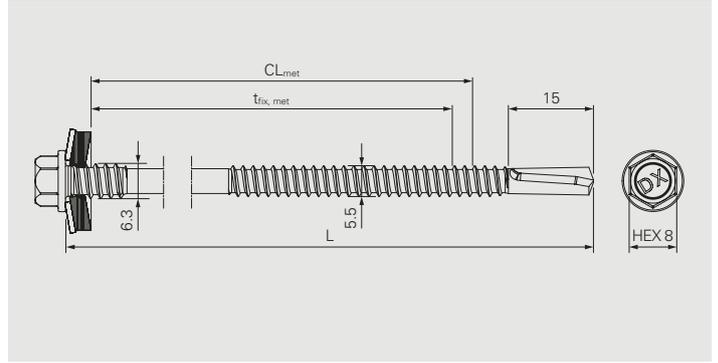
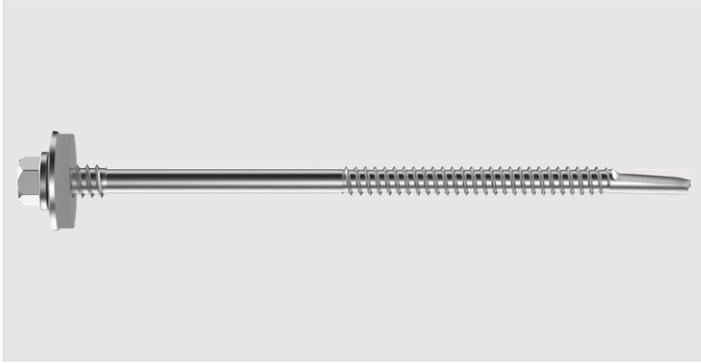
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# DDC12-5.5



## Description

Self-drilling fastener made of carbon steel with support thread and sealing washer

## Application

Fastening of sandwich panels onto steel beams  
Fastening of profile sheets onto steel beams

## Component 1 (t<sub>I</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>II</sub>)

Steel

3.0–10.0

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

Carbon steel, hardened, galvanized  
Sealing washer: Carbon steel galvanized, EPDM-seal

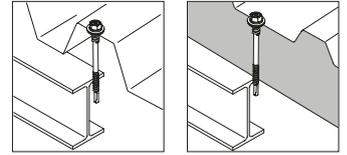
## Features and Benefits

- High drilling performance for steel beams
- Increased support function by support thread
- EPDM-seal with long durability

## Approvals



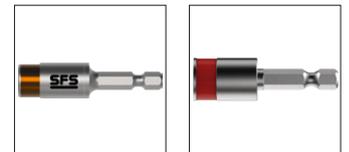
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	T19
DDC12-T19-5,5×75	100	75	27-52	27-52-t <sub>II</sub>	1685759
DDC12-T19-5,5×75	1000				1685676
DDC12-T19-5,5×105	100	105	47-82	47-82-t <sub>II</sub>	1685760
DDC12-T19-5,5×105	600				1685680
DDC12-T19-5,5×120	100	120	52-97	52-97-t <sub>II</sub>	1685761
DDC12-T19-5,5×120	600				1685684
DDC12-T19-5,5×155	100	155	87-132	87-132-t <sub>II</sub>	1685762
DDC12-T19-5,5×155	500				1685685
DDC12-T19-5,5×175	100	175	107-152	107-152-t <sub>II</sub>	1685763
DDC12-T19-5,5×175	400				1685686
DDC12-T19-5,5×200	100	200	122-177	122-177-t <sub>II</sub>	1685764
DDC12-T19-5,5×200	400				1685688
DDC12-T19-5,5×245	100	245	167-222	162-217-t <sub>II</sub>	1743039
DDC12-T19-5,5×285		285	207-262	202-257-t <sub>II</sub>	1743040

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.



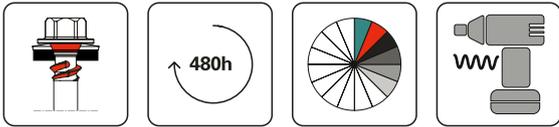
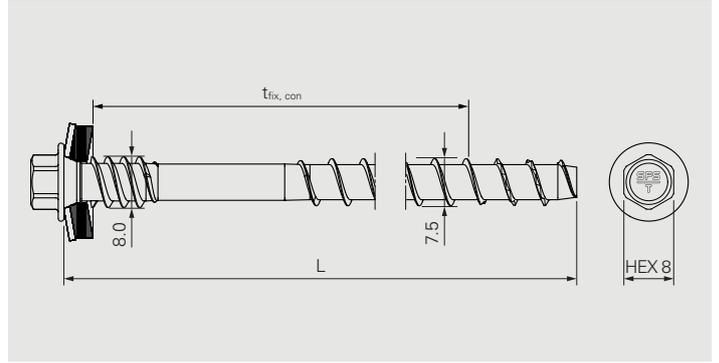
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# MDC-7.5



## Description

Self-tapping fastener made of carbon steel with support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto concrete  
 Fastening of profile sheets onto concrete

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>ii</sub>)

Concrete

$h_{nom} \geq 35/55$

Pre-drill Ø see table

<sup>1)</sup>Cover sheet in case of sandwich panel

## Fastener material

Carbon steel, hardened, Durocoat® 480  
 Sealing washer: Austenitic stainless steel A2, EPDM-seal

## Approvals

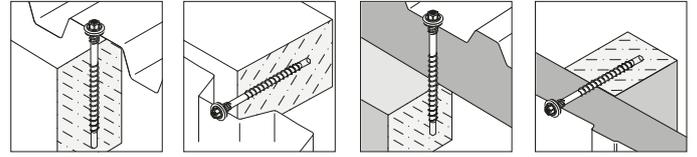


ETA-20/0115

## Features and Benefits

- Fastener design for high technical values in the application
- Easy and comfortable installation with impact gun
- Perfect support function by double support thread
- Toothed thread at the tip for smooth screwing in
- Small fastener and edge distances as there is no spreading effect
- More than one specified embedment depth for different requirements
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

All measures in mm



## Fastener in carbon steel onto concrete

Product code	PU	L	CL <sub>con</sub>	t <sub>fix, con</sub>	S16	S19	S22
MDC-S19-7,5×85	100	85	12–82	12–27/47	1574300	1562034	1562305
MDC-S19-7,5×105		105	32–102	32–47/67	1574321	1562228	1562331
MDC-S19-7,5×125		125	52–122	52–67/87	1574324	1562227	1562329
MDC-S19-7,5×145		145	72–142	72–87/107	1574326	1562225	1562328
Recommended torque force 200-300 Nm							
MDC-S19-7,5×165	100	165	92–162	92–107/127	1574328	1562229	1562332
MDC-S19-7,5×185		185	112–182	112–127/147	1574329	1562224	1562327
MDC-S19-7,5×205		205	132–202	132–147/167	1574332	1562223	1562326
Recommended torque force 250-400 Nm							
MDC-S19-7,5×225	100	225	152–222	152–167/187	1574334	1562222	1562325
MDC-S19-7,5×245		245	172–242	172–187/207	1574335	1562221	1562324
MDC-S19-7,5×265		265	192–262	192–207/227	1574340	1562210	1562323
MDC-S19-7,5×285		285	212–282	212–227/247	1574353	1562209	1562322
MDC-S19-7,5×305		305	232–302	232–247/267	1574355	1562208	1562309
MDC-S19-7,5×325		325	252–322	252–267/287	1574413	1562207	1562308
Recommended torque force 350-600 Nm							
MDC-S19-7,5×345	100	345	272–342	272–287/307	1574416	1562206	1562307
MDC-S19-7,5×365		365	292–362	292–307/327	1574418	1562205	1562306

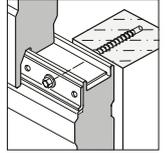
Recommended torque force 600-800 Nm

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>con</sub> and t<sub>fix, con</sub>.

### All measures in mm

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Without approval

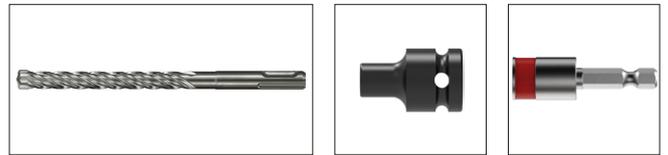


## Fastener in carbon steel onto concrete

Product code	PU	L	CL <sub>con</sub>	t <sub>fix, con</sub>	no washer
MDC-7,5×85	100	85	15–85	15–30/50	1580854
MDC-7,5×105		105	35–105	35–50/70	1580856
MDC-7,5×125		125	55–125	55–70/90	1580857
MDC-7,5×145		145	75–145	75–90/110	1580862
Recommended torque force 200-300 Nm					
MDC-7,5×165	100	165	95–165	95–110/130	1580864
MDC-7,5×185		185	115–185	115–130/150	1580870
MDC-7,5×205		205	135–205	135–150/170	1580874
Recommended torque force 250-400 Nm					
MDC-7,5×225	100	225	155–225	155–170/190	1580912
MDC-7,5×245		245	175–245	175–190/210	1580913
MDC-7,5×265		265	195–265	195–210/230	1580919
MDC-7,5×285		285	215–285	215–230/250	1580931
MDC-7,5×305		305	235–305	235–250/270	1580933
MDC-7,5×325		325	255–325	255–270/290	1580951
Recommended torque force 350-600 Nm					
MDC-7,5×345	100	345	275–345	275–290/310	1580953
MDC-7,5×365		365	295–365	295–310/330	1590960

Recommended torque force 600-800 Nm

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>con</sub> and t<sub>fix, con</sub>.

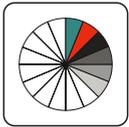
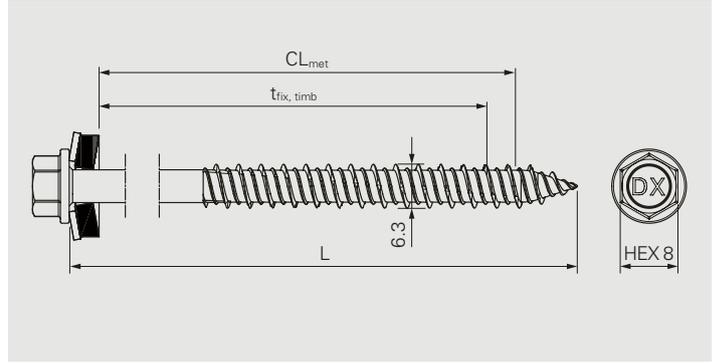


## Accessories

Product description	Insert drive	Recess	PU	D	L	
SDS-6x215/150-4C	-	-	1	6	215	1487583
SDS-6x315/250-4C					315	1487584
SDS-6x515/455-4C					515	1608141
Socket E308-¼"-50	HEX¼"	HEX8	1	-	50	1646160
Socket E508-½"-40	HEX½"				40	1648380

All measures in mm

# MDW-6.3



## Description

Self-tapping fastener made of carbon steel with sealing washer

## Application

- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber
- Fastening of profile sheets onto concrete
- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber
- Fastening of sandwich panels onto concrete

## Fastener material

Carbon steel, hardened, galvanized  
Sealing washer: Carbon steel galvanized, EPDM-seal

## Approvals



Component 1 (t <sub>i</sub> )		Component 2 (t <sub>ii</sub> )	
Steel <sup>1)</sup>	0.4–1.5	Steel	1.0–3.0
		Timber	$l_p \geq 25$
		Concrete	$h_{nom} \geq 30$

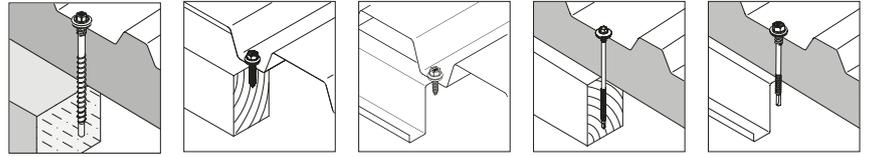
Pre-drill  $\varnothing$  see table

<sup>1)</sup>Cover sheet in case of sandwich panel

## Features and Benefits

- Multifunctional fastener for a variety of applications
- EPDM-seal with long durability

All measures in mm



## Fastener in carbon steel onto steel, timber and concrete

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, timb</sub>	t <sub>fix, con</sub>	T19
MDW-T19-6,3×35	250	35	0–25	0–7	0–2	1696830
MDW-T19-6,3×35	2500					1695956
MDW-T19-6,3×45	250	45	0–35	0–17	0–12	1696841
MDW-T19-6,3×45	2000					1695957
MDW-T19-6,3×60	250	60	3–50	0–32	0–27	1696843
MDW-T19-6,3×60	1500					1695960
MDW-T19-6,3×75	250	75	18–65	3–47	5–42	1696845
MDW-T19-6,3×75	1000					1695962
MDW-T19-6,3×95	250	95	38–85	23–67	25–62	1696847
MDW-T19-6,3×95	600					1695964
MDW-T19-6,3×105	100	105	48–95	33–77	35–72	1696849
MDW-T19-6,3×105	600					1695965
MDW-T19-6,3×125	100	125	68–115	53–97	55–92	1696851
MDW-T19-6,3×125	500					1695966
MDW-T19-6,3×145	100	145	88–135	73–117	75–112	1696853
MDW-T19-6,3×145	500					1695967
MDW-T19-6,3×175	100	175	118–165	103–147	105–142	1696854
MDW-T19-6,3×175	400					1695968
MDW-T19-6,3×200	100	200	143–190	128–172	130–167	1696855
MDW-T19-6,3×200	400					1695969
MDW-T19-6,3×245	100	245	188–235	173–217	180–212	1696856
MDW-T19-6,3×245	400					1695970

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, timb</sub> and t<sub>fix, con</sub>.

### All measures in mm

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## Pre-drill diameter

Component 1 (t <sub>i</sub> )		Component 2 (t <sub>II</sub> )	Pre-drill Ø
Steel	0.4–1.5	Steel 0.63	3.5
		Steel 0.75	4.0
		Steel 0.88–1.25	4.5
		Steel 1.5–3.0	5.0
		Timber $l_p \geq 25$	4.0
		Concrete $h_{nom} \geq 30$	5.5

For information regarding the material quality of the components, please refer to the ETA approval.

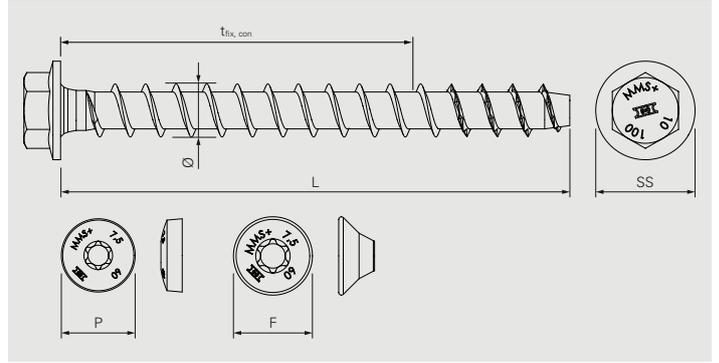
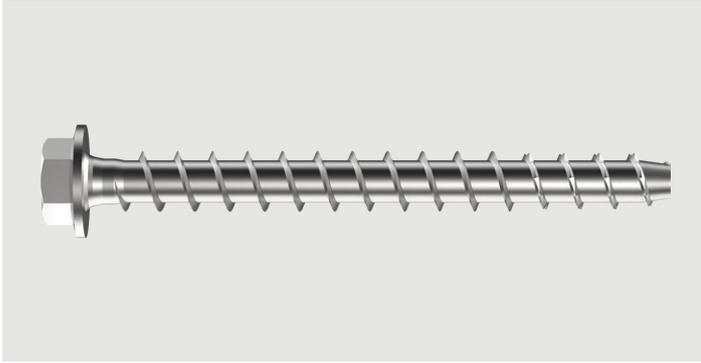


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

All measures in mm

# MMS-plus



## Description

Self-tapping fastener made of carbon steel

## Application

Fastening of metal decks onto concrete  
Fastening of liner trays onto concrete

Fastener Ø	7.5	10.0	12.0
Pre-drill Ø	6.0	8.0	10.0
Embedment depth $h_{nom}$	≥35/55	≥50/65	≥75/90

## Fastener material

Carbon steel, hardened, galvanized

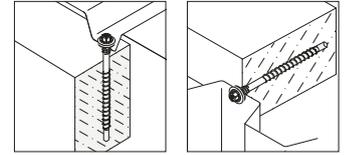
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Easy and comfortable installation with impact gun
- Toothed thread at the tip for smooth screwing in
- Small fastener and edge distances as there is no spreading effect
- More than one specified embedment depth for different requirements
- Multiple use in temporary fixations from fastener Ø10 mm
- Fire approved F120/R120
- Seismic approved C1 from fastener Ø10 mm

All measures in mm

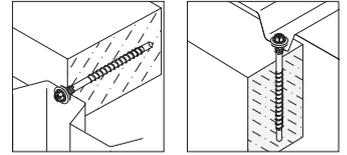


## Fastener in carbon steel onto concrete

Product code	PU	L	t <sub>fix, con</sub>	Ø F/P/SS	Fastener drive	
MMS-plus-F-C16-7,5x50	100	50	0-15	16	T40	1205043
MMS-plus-F-C16-7,5x60	50	60	0-5/25	16	T40	1205044
MMS-plus-F-C16-7,5x70		70	0-15/35			1205045
MMS-plus-F-C16-7,5x80		80	0-25/45			1205046
MMS-plus-F-C16-7,5x100		100	0-45/65			1205047
MMS-plus-F-C16-7,5x120		120	0-65/85			1205048
MMS-plus-F-C16-7,5x140		140	0-85/105			1205049
MMS-plus-F-C16-7,5x160		160	0-105/125			1205050
MMS-plus-F-C20-10x60		25	60			0-10
MMS-plus-F-C20-10x70	25	70	0-5/20	20	T45	1205052
MMS-plus-F-C20-10x80		80	0-15/30			1205053
MMS-plus-F-C24-12x90		90	0-1/15			24
MMS-plus-F-C24-12x100	25	100	0-10/25	24	T50	1205055
MMS-plus-F-C24-12x120		120	0-30/45			1205056
MMS-plus-P-D15-7,5x40	100	40	0-5	15	T30	1205033
MMS-plus-P-D15-7,5x50	50	50	0-15	15		1205034
MMS-plus-P-D15-7,5x60		60	0-5/25			1205035
MMS-plus-SS-7,5x40	100	40	0-5	14	HEX10	1204988
MMS-plus-SS-7,5x50	50	50	0-15			1204989
MMS-plus-SS-7,5x60		60	0-5/25			1204990
MMS-plus-SS-7,5x70		70	0-15/35			1204991
MMS-plus-SS-7,5x80		80	0-25/45			1204992
MMS-plus-SS-7,5x100		100	0-45/65			1205083
MMS-plus-SS-7,5x120		120	0-65/85			1205084
MMS-plus-SS-7,5x140		140	0-85/105			1205085
MMS-plus-SS-10x60		25	60			0-10
MMS-plus-SS-10x70	70		0-5/20	1204994		
MMS-plus-SS-10x80	80		0-15/30	1204995		
MMS-plus-SS-10x90	90		0-25/40	1204996		
MMS-plus-SS-10x100	100		0-35/50	1205020		
MMS-plus-SS-10x120	120		0-55/70	1205021		
MMS-plus-SS-10x140	140		0-75/90	1205022		
MMS-plus-SS-10x160	160		0-95/110	1205023		

### All measures in mm

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## Fastener in carbon steel onto concrete

Product code	PU	L	t <sub>fix, con</sub>	Ø F/P/SS	Fastener drive	
MMS-plus-SS-12×60	25	60	0-5	22	HEX15	1205137
MMS-plus-SS-12×80		80	0-5			1204997
MMS-plus-SS-12×90		90	0-1/15			1204998
MMS-plus-SS-12×100		100	0-10/25			1204999
MMS-plus-SS-12×120		120	0-30/45			1205000
MMS-plus-SS-12×140		140	0-50/65			1205001
MMS-plus-SS-12×160		160	0-70/85			1205024

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, con</sub>.

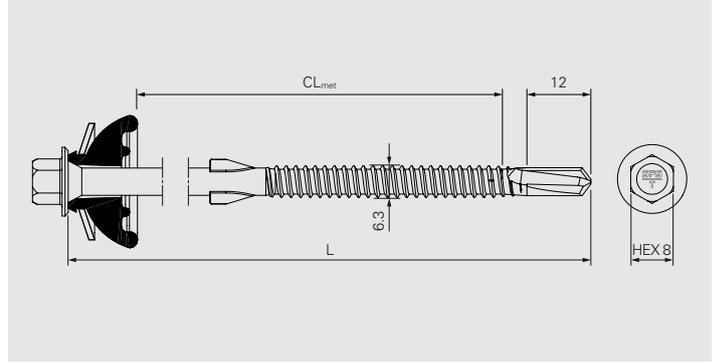
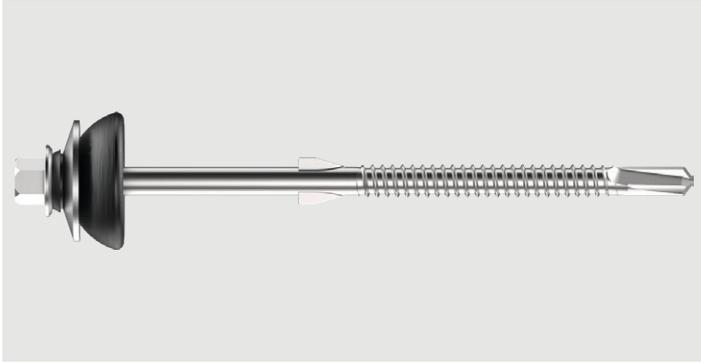


## Accessories

Product description	PU	D	L	
SDS-6×215/150-4C	1	6	215	1487583
SDS-8×215/150-4C		8		1487585
SDS-10×215/150-4C		10		1487586

All measures in mm

# SCF3-6.3-A2



## Description

Self-drilling fastener made of carbon steel with shank wings and BAZ sealing element

## Application

Fastening of corrugated fibre cement boards onto metal profiles

## Component 1 (t<sub>i</sub>)

Fibre cement	6.5
Fibre cement	2x6.5

## Component 2 (t<sub>ii</sub>)

Steel	1.5–3.0
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## Fastener material

Carbon steel, hardened, Durocoat® 12 cycles kester nich test  
BAZ sealing element: Austenitic stainless steel A2, EPDM-seal

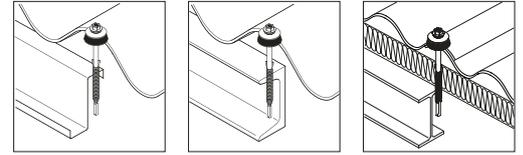
## Features and Benefits

- No stresses at fibre cement board by widening of the through hole
- Long drill point for easy drilling through overlapped fibre cement boards
- High corrosion durability by special zinc flake coating
- High quality EPDM-seal with long durability

## Approvals



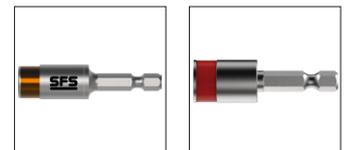
All measures in mm



## Fastener in carbon steel onto steel

	PU	L	CL <sub>met</sub>	
SCF3-BAZ-6,3x115	100	115	57-88	1664091

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



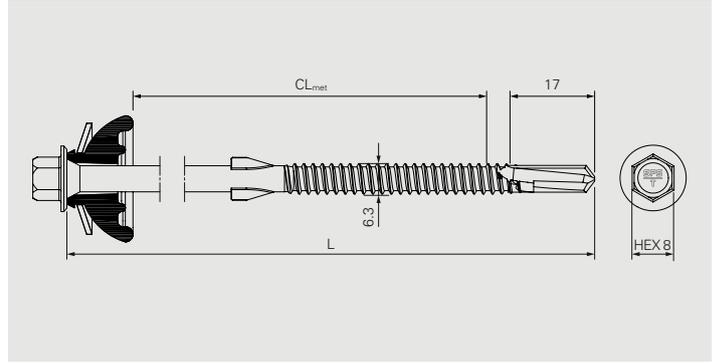
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-1/4"-57-8Nm	1	HEX1/4"	HEX8	57	1667322
Socket E308-1/4"-50				50	1646160

### All measures in mm

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# SCF12-6.3-A2



## Description

Self-drilling fastener made of carbon steel with shank wings and BAZ sealing element

## Application

Fastening of corrugated fibre cement boards onto steel beams

## Component 1 (t<sub>i</sub>)

Fibre cement	6.5
Fibre cement	2x6.5

## Component 2 (t<sub>ii</sub>)

Steel	3.5–12.0
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## Fastener material

Carbon steel, hardened, Durocoat® 12 cycles kester nich test  
BAZ sealing element: Austenitic stainless steel A2, EPDM-seal

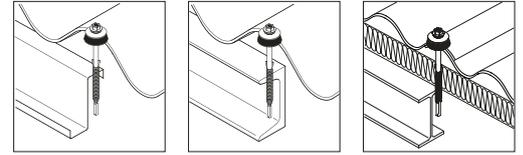
## Features and Benefits

- High drilling performance for steel beams
- No stresses at fibre cement board by widening of the through hole
- Long drill point for easy drilling through overlapped fibre cement boards
- High corrosion durability by special zinc flake coating
- High quality EPDM-seal with long durability

## Approvals



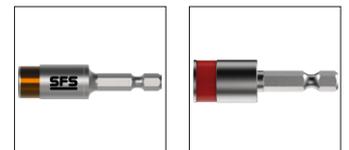
All measures in mm



## Fastener in carbon steel onto steel

	PU	L	CL <sub>met</sub>	
SCF12-BAZ-6,3x120		120	57-88	1664093

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



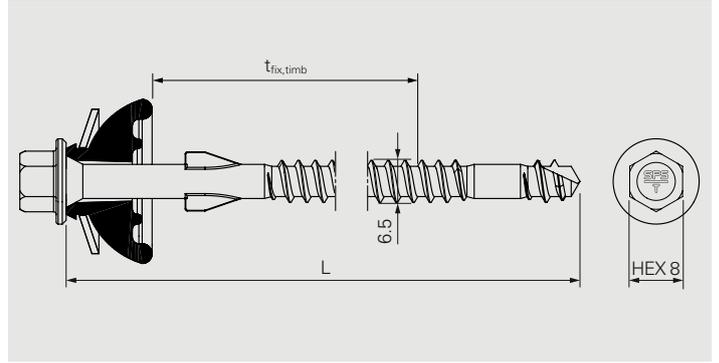
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SCFW-6.5



## Description

Selfdrilling fastener made of carbon steel with shank wings and BAZ sealing element

## Application

Fastening of corrugated fibre cement boards onto timber

## Component 1 (t<sub>i</sub>)

Fibre cement	6.5
Fibre cement	2x6.5

## Component 2 (t<sub>ii</sub>)

Steel	$l_p \geq 50$
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## Fastener material

Carbon steel, hardened, Durocoat® 12 Cycles Kesternich  
BAZ sealing element: Austenitic stainless steel A2, EPDM-seal

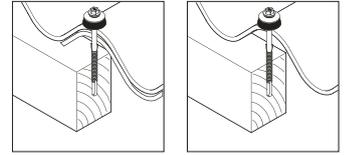
## Approvals



## Features and Benefits

- Threaded drill point for fast and smooth installation
- Easy drilling through overlaped fibre cement boards
- No stresses at fibre cement board by widening of the through hole
- Reduced splitting tendency in timber
- High corrosion durability by hot-dip galvanic coating
- High quality EPDM-seal with long durability

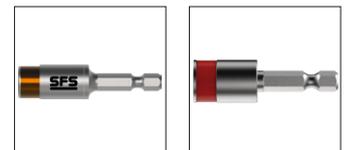
All measures in mm



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	
SCFW-BAZ-6,5x95	100	95	0-35	1664073
SCFW-BAZ-6,5x130		130	0-70	1506552

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



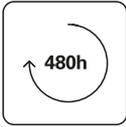
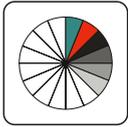
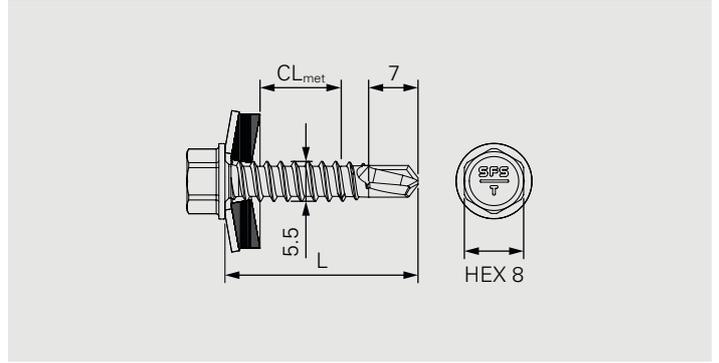
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD3-5.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto metal profiles  
Fastening of profile sheets onto liner trays

## Component 1 (t<sub>i</sub>)

Steel 0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel 1.25–3.0  
Steel 2×0.75–1.5

## Fastener material

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

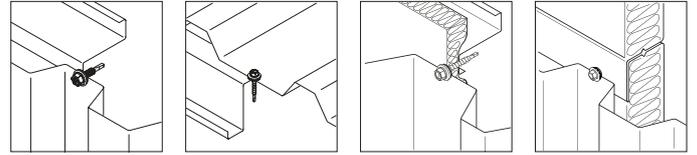
## Features and Benefits

- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



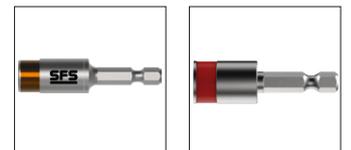
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
SD3-T16-5,5×25	500	25	0-11	1506612
SD3-T16-5,5×45		45	0-31	1506617

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



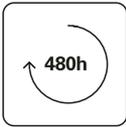
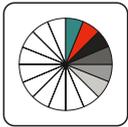
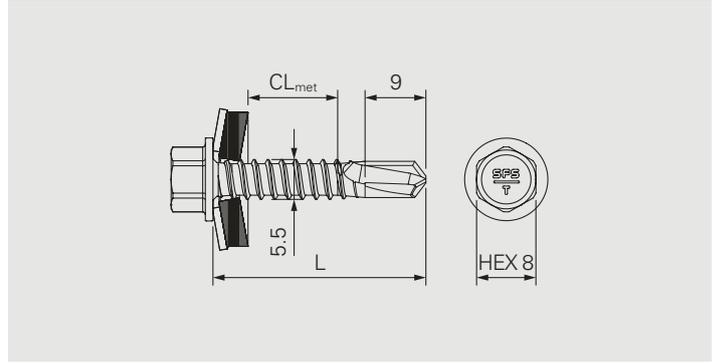
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD6-5.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto metal profiles

## Component 1 (t<sub>I</sub>)

Steel

0.5–1.5

## Component 2 (t<sub>II</sub>)

Steel

1.5–5.0

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

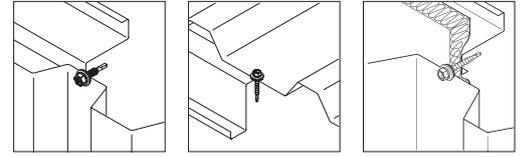
## Features and Benefits

- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



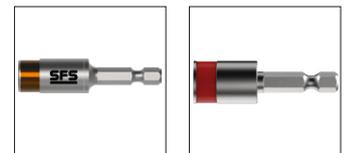
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
SD6-T16-5,5×28	100	28	0-12	1423085
SD6-T16-5,5×28	500			1423084
SD6-T16-5,5×38		38	0-22	1423700

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



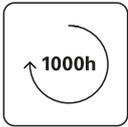
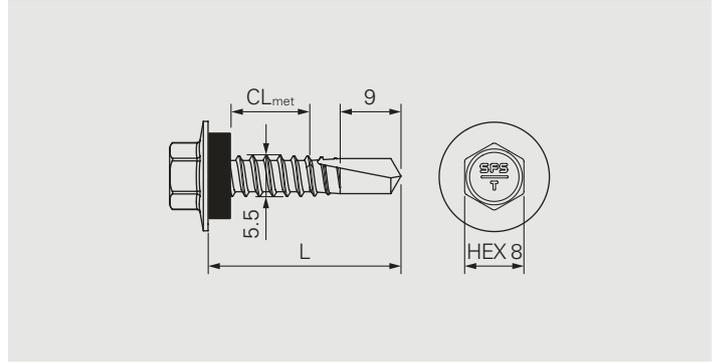
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD6-H15-E11-5.5



## Description

Self-drilling fastener made of carbon steel with wide flange and damping ring

## Application

Fastening of metal decks onto metal profiles  
Fastening of liner trays onto metal profiles

## Component 1 (t<sub>i</sub>)

Steel 0.63–1.5

## Component 2 (t<sub>ii</sub>)

Steel 1.5–5.0

## Fastener material

Carbon steel, hardened, Durocoat® 1000 hours salt spray test  
Damping ring: EPDM-seal

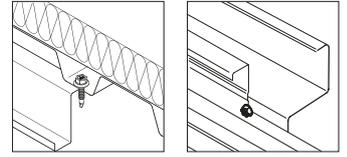
## Features and Benefits

- Wide flange for high technical values in the application
- Elastic damping ring for low risk of overwinding, overtightening and screw breakages
- Increased security against unwinding
- High corrosion durability by duplex coating

## Approvals



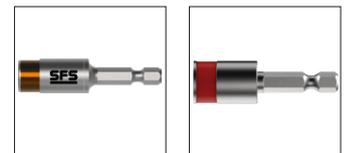
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SD6-H15-E11-5,5x22	500	22	0-8	1769390

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



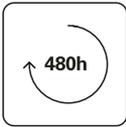
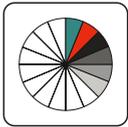
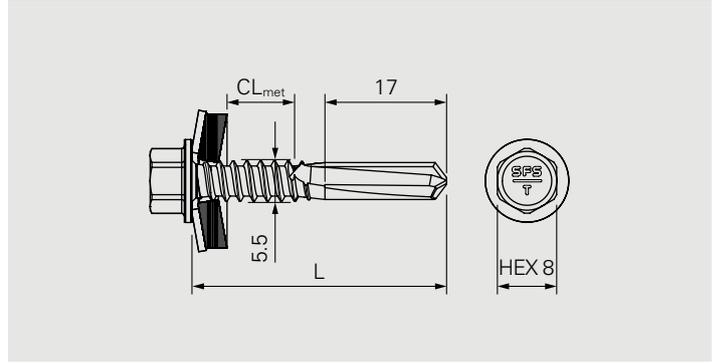
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD14-5.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto steel beams

## Component 1 (t<sub>i</sub>)

Steel

0.5–1.5

## Component 2 (t<sub>ii</sub>)

Steel

3.0–12.0

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

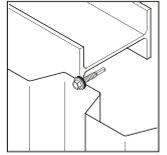
## Features and Benefits

- High drilling performance for heavy steel beams
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



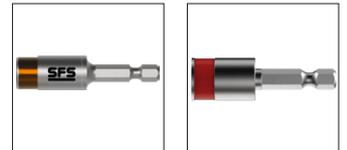
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
SD14-T16-5,5x34	500	25	0-10	1423111
SD14-T16-5,5x48		48	0-24	1423120
SD14-T16-5,5x58	250	58	0-34	1423121

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



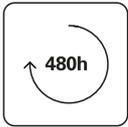
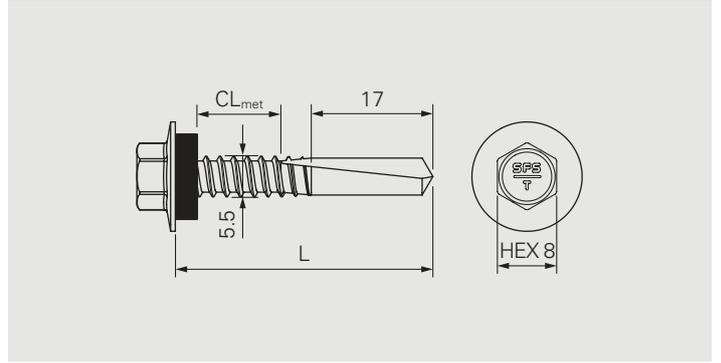
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD14-H15-E11-5.5



## Description

Self-drilling fastener made of carbon steel with wide flange and damping ring

## Application

Fastening of metal decks onto steel beams  
Fastening of liner trays onto steel beams

## Component 1 (t<sub>i</sub>)

Steel 0.63–1.5

## Component 2 (t<sub>ii</sub>)

Steel 3.0–12.0

## Fastener material

Carbon steel, hardened, Durocoat® 480  
Damping ring: EPDM-seal

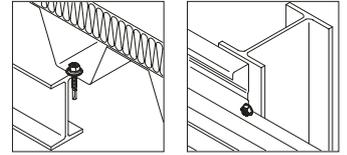
## Features and Benefits

- High drilling performance for heavy steel beams
- Wide flange for high technical values in the application
- Elastic damping ring for low risk of overwinding, overtightening and screw breakages
- Increased security against unwinding
- High corrosion durability by duplex coating

## Approvals



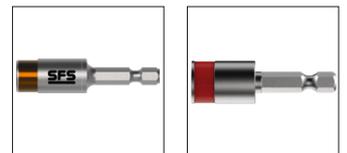
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SD14-H15-E11-5,5x34	500	34	0-22	1769406

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



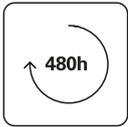
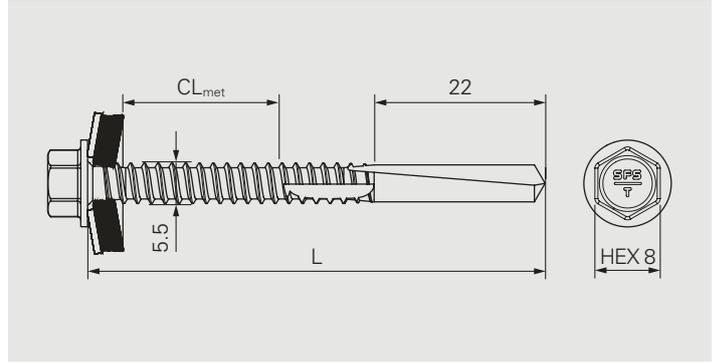
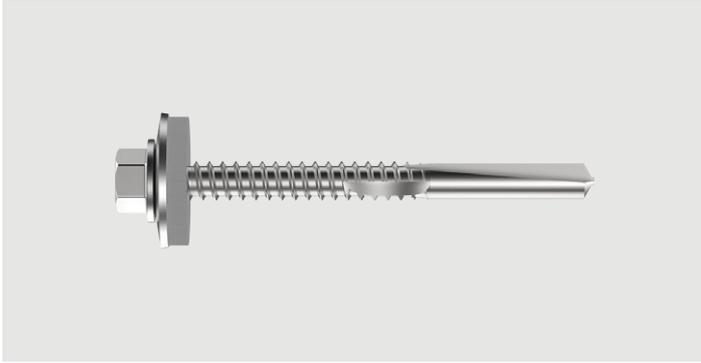
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD20-5.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto steel beams

## Component 1 (t<sub>I</sub>)

Steel 0.5–1.5

## Component 2 (t<sub>II</sub>)

Steel 3.0–18.0

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

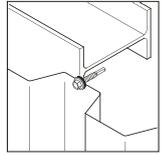
## Features and Benefits

- High drilling performance for heavy steel beams
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



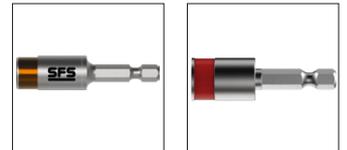
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	T16
SD20-T16-5,5x50	500	50	0-18	1673795

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



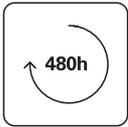
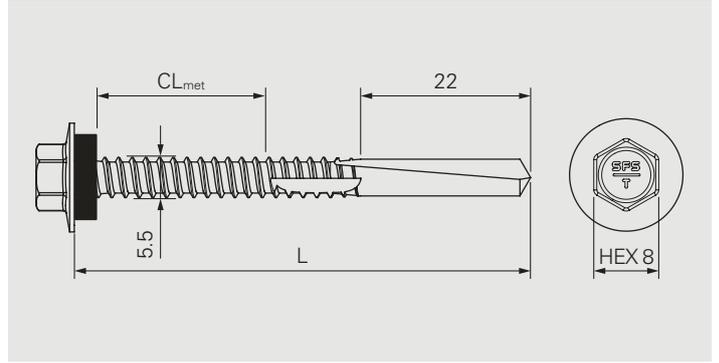
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SD20-H15-E11-5.5



## Description

Self-drilling fastener made of carbon steel with damping ring

## Application

Fastening of metal decks onto steel beams  
Fastening of liner trays onto steel beams

## Component 1 (t<sub>i</sub>)

Steel 0.63–1.5

## Component 2 (t<sub>ii</sub>)

Steel 3.0–18.0

## Fastener material

Carbon steel, hardened, Durocoat® 480  
Damping ring: EPDM-seal

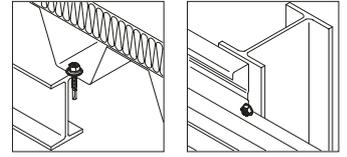
## Features and Benefits

- High drilling performance for heavy steel beams
- Wide flange for high technical values in the application
- Elastic damping ring for low risk of overwinding, overtightening and screw breakages
- Increased security against unwinding
- High corrosion durability by special galvanic coating

## Approvals



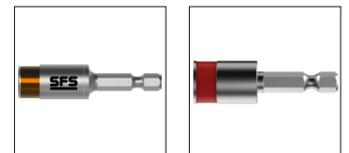
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SD20-H15-E11-5,5x50	500	50	0-20	1769338

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



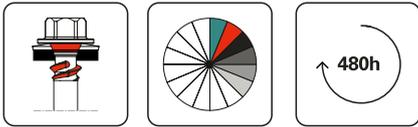
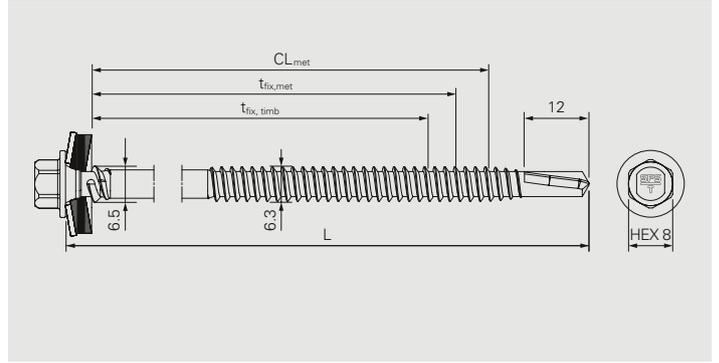
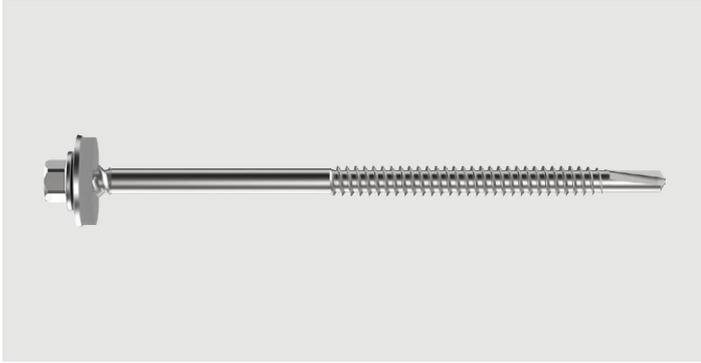
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SDC5-6.3



## Description

Self-drilling fastener made of carbon steel with support thread and sealing washer  
 Double support thread with free-spin zone and cut-off thread-end

## Application

- Fastening of sandwich panels onto metal profiles
- Fastening of sandwich panels onto timber
- Fastening of profile sheets onto metal profiles
- Fastening of profile sheets onto timber

## Component 1 (t<sub>i</sub>)

Steel <sup>1)</sup> 0.4–1.5

## Component 2 (t<sub>ii</sub>)

Steel	1.0–4.0
Steel	2×0.75–2.5
Timber	l <sub>ef</sub> ≥ 25

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

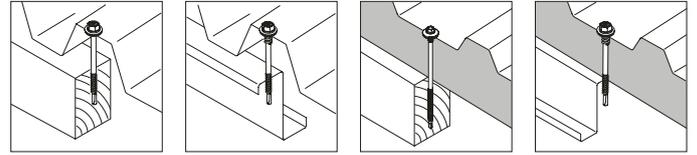
## Approvals



## Features and Benefits

- Fastener design for high technical values in the application
- Perfect support function by double support thread
- Long drill point for easy drilling through overlapped metal profiles
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

All measures in mm



## Fastener in carbon steel onto steel and timber

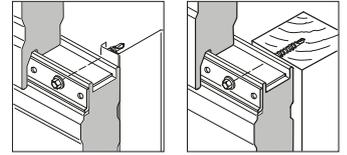
Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	T16	T19
SDC5-T19-6,3×60	100	60	15–37	15–37-t <sub>II</sub>	0–20	1685056	1685077
SDC5-T19-6,3×70		70	20–47	20–47-t <sub>II</sub>	5–30	1685057	1685078
SDC5-T19-6,3×80		80	30–57	30–57-t <sub>II</sub>	15–40	1685058	1685079
SDC5-T19-6,3×100		100	40–77	40–77-t <sub>II</sub>	25–60	1685020	1685076
SDC5-T19-6,3×120		120	50–97	50–97-t <sub>II</sub>	35–80	1685059	1685080
SDC5-T19-6,3×140		140	70–117	70–117-t <sub>II</sub>	55–100	1685060	1685081
SDC5-T19-6,3×160		160	90–137	90–137-t <sub>II</sub>	75–120	1685071	1685082
SDC5-T19-6,3×190		190	110–167	110–167-t <sub>II</sub>	95–150	1685072	1685083
SDC5-T19-6,3×220		220	140–197	140–197-t <sub>II</sub>	125–180	1685073	1685084
SDC5-T19-6,3×250		250	170–227	170–227-t <sub>II</sub>	155–210	1685074	1685085
SDC5-T19-6,3×290		290	210–267	210–267-t <sub>II</sub>	195–250	1685075	1685086

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to

CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

### All measures in mm

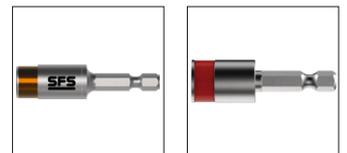
All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.



## Fastener in carbon steel onto steel and timber

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	t <sub>fix, timb</sub>	no washer
SDC5-6,3×60	100	60	18-40	18-40-t <sub>II</sub>	3-23	1685087
SDC5-6,3×70		70	23-50	23-50-t <sub>II</sub>	8-33	1679504
SDC5-6,3×80		80	33-60	33-60-t <sub>II</sub>	18-43	1685088
SDC5-6,3×100		100	43-80	43-80-t <sub>II</sub>	28-63	1685089
SDC5-6,3×120		120	53-100	53-100-t <sub>II</sub>	38-83	1685090
SDC5-6,3×140		140	73-120	73-120-t <sub>II</sub>	58-103	1685091
SDC5-6,3×160		160	93-140	93-140-t <sub>II</sub>	78-123	1685092
SDC5-6,3×190		190	113-170	113-170-t <sub>II</sub>	98-153	1685093
SDC5-6,3×220		220	143-200	143-200-t <sub>II</sub>	128-183	1685094
SDC5-6,3×250		250	173-230	173-230-t <sub>II</sub>	158-213	1685095
SDC5-6,3×290		290	213-270	213-270-t <sub>II</sub>	198-253	1685096

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>, t<sub>fix, met</sub> and t<sub>fix, timb</sub>.

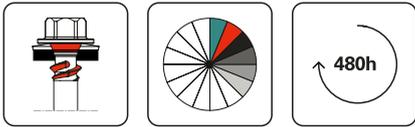
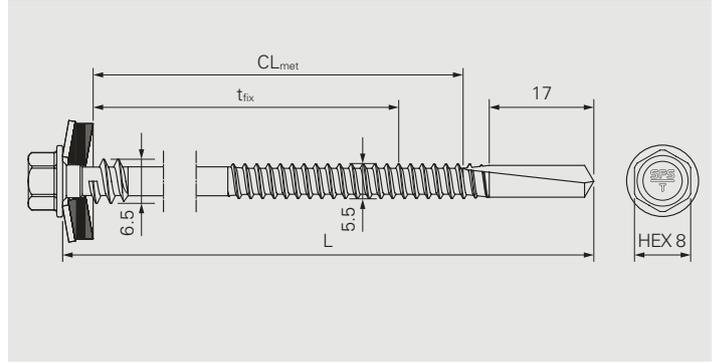


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

All measures in mm

# SDC14-5.5



## Description

Self-drilling fastener made of carbon steel with support thread and sealing washer  
Support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto steel beams  
Fastening of profile sheets onto steel beams

## Component 1 (t<sub>I</sub>)

Steel <sup>1)</sup> 0.4–1.5

## Component 2 (t<sub>II</sub>)

Steel 3.0–12.0

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

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

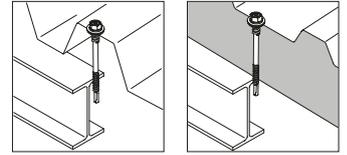
## Features and Benefits

- High drilling performance for heavy steel beams
- Perfect support function by double support thread
- High corrosion durability by special galvanic or duplex coating
- High quality EPDM-seal with long durability
- Paintable up to fastener length 158 mm

## Approvals



All measures in mm



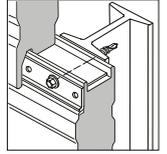
## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	T16	T19
SDC14-T16-5,5x78	100	78	30-53	30-53-t <sub>II</sub>	1779364	1773403
SDC14-T16-5,5x98		98	40-73	40-73-t <sub>II</sub>	1779367	1773404
SDC14-T16-5,5x118		118	50-93	50-93-t <sub>II</sub>	1779368	1766093
SDC14-T16-5,5x138		138	70-113	70-113-t <sub>II</sub>	1779370	1770928
SDC14-T16-5,5x158		158	90-133	90-133-t <sub>II</sub>	1779384	1779422
SDC14-T16-5,5x188		188	110-163	110-163-t <sub>II</sub>	1779386	1779425
SDC14-T16-5,5x218		218	140-193	140-193-t <sub>II</sub>	1779389	1779427
SDC14-T16-5,5x248		248	170-223	170-223-t <sub>II</sub>	1779390	1779428
SDC14-T16-5,5x288		288	210-263	210-263-t <sub>II</sub>	1779391	1779429

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.

### All measures in mm

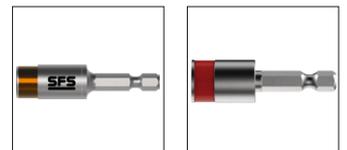
All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	t <sub>fix, met</sub>	no washer
SDC14-5,5x78	100	78	33-56	33-56-t <sub>II</sub>	1779325
SDC14-5,5x98		98	43-76	43-76-t <sub>II</sub>	1779348
SDC14-5,5x118		118	53-96	53-96-t <sub>II</sub>	1779349
SDC14-5,5x138		138	73-116	73-116-t <sub>II</sub>	1779351
SDC14-5,5x158		158	93-136	93-136-t <sub>II</sub>	1779352
SDC14-5,5x188		188	113-166	113-166-t <sub>II</sub>	1779662
SDC14-5,5x218		218	143-196	143-196-t <sub>II</sub>	1779356
SDC14-5,5x248		248	173-226	173-226-t <sub>II</sub>	1779357
SDC14-5,5x288		288	213-266	213-266-t <sub>II</sub>	1779358

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub> and t<sub>fix, met</sub>.

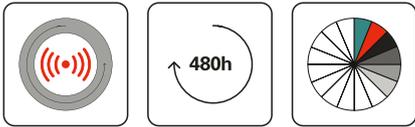
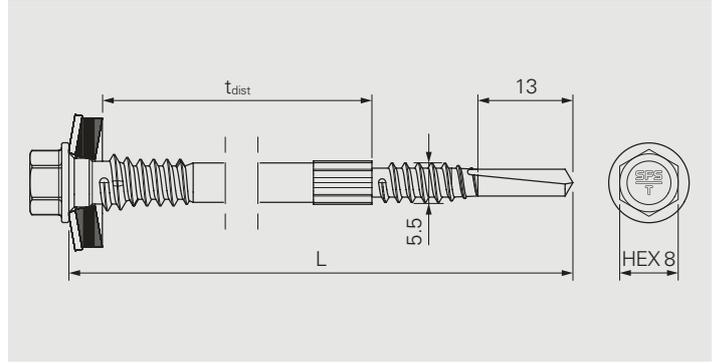


## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

All measures in mm

# SDRT2-5.5



## Description

Self-drilling fastener made of stainless steel with support thread, shank knurl, free-spin zone and sealing washer  
Wide support thread with free-spin zone and cut-off thread-end

## Application

Distance fastening of profile sheets onto liner trays

## Component 1 (t<sub>I</sub>)

Steel 0.5–1.5

## Component 2 (t<sub>II</sub>)

Steel 0.75–1.5  
Steel 2×0.75–1.25

## Fastener material

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

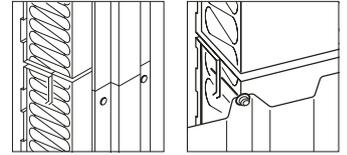
## Approvals



## Features and Benefits

- Precisely fastening distance by shank knurl as distance element
- Perfect support function by wide support thread
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

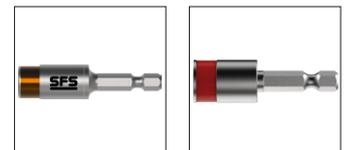
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	t <sub>dist</sub>	T16
SDRT2-T16-5,5×69	250	69	40	1580868
SDRT2-T16-5,5×89	100	89	60	1576185
SDRT2-T16-5,5×109		109	80	1524405

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>dist</sub>.



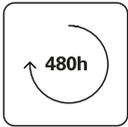
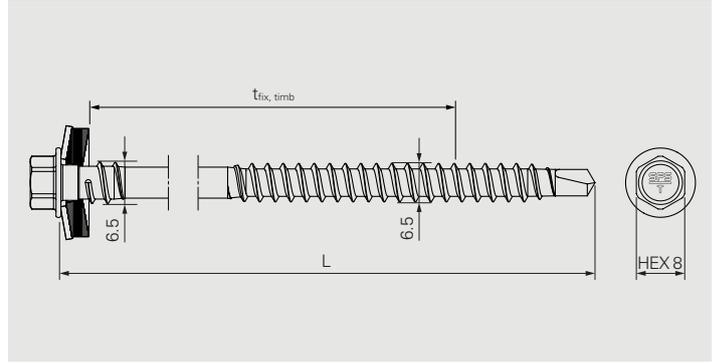
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-1/4"-57-8Nm	1	HEX 1/4"	HEX8	57	1667322
Socket E308-1/4"-50				50	1646160

### All measures in mm

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# SDTW-6.5



## Description

Self-drilling fastener made of carbon steel with support thread and sealing washer  
Support thread with free-spin zone and cut-off thread-end

## Application

Fastening of sandwich panels onto timber  
Fastening of profile sheets onto timber

## Component 1 (t<sub>I</sub>)

Steel<sup>1)</sup>

0.4–1.5

## Component 2 (t<sub>II</sub>)

Timber

l<sub>ef</sub> ≥ 35

<sup>1)</sup> Cover sheet in case of sandwich panel

## Fastener material

Carbon steel, hardened, Durocoat® 480  
Sealing washer: Austenitic stainless steel A2, EPDM-seal

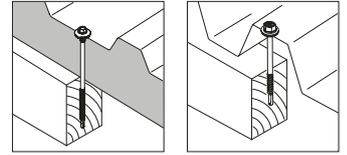
## Features and Benefits

- High support function by support thread
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



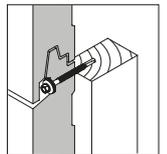
All measures in mm



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	S19
SDTW-S19-6,5x75	100	75	2-30	937840
SDTW-S19-6,5x115		115	27-70	1211471
SDTW-S19-6,5x125		125	37-80	1211538
SDTW-S19-6,5x135		135	47-90	1211560
SDTW-S19-6,5x150		150	62-105	1222803
SDTW-S19-6,5x175		175	88-130	1193886

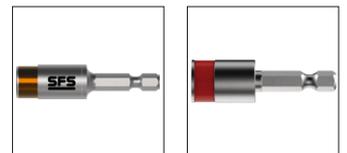
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	no washer
SDTW-6,5x75	100	75	5-33	743764
SDTW-6,5x115		115	30-73	1047815
SDTW-6,5x125		125	40-83	1346440
SDTW-6,5x135		135	50-93	701545
SDTW-6,5x150		150	65-108	1237209
SDTW-6,5x175		175	91-133	1237210

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



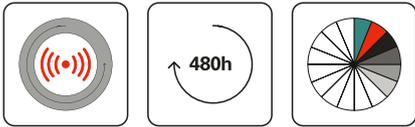
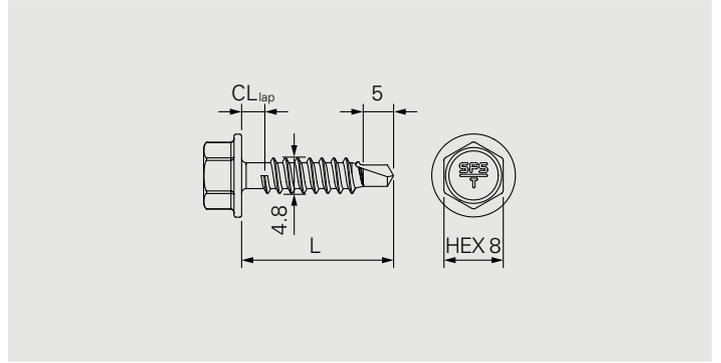
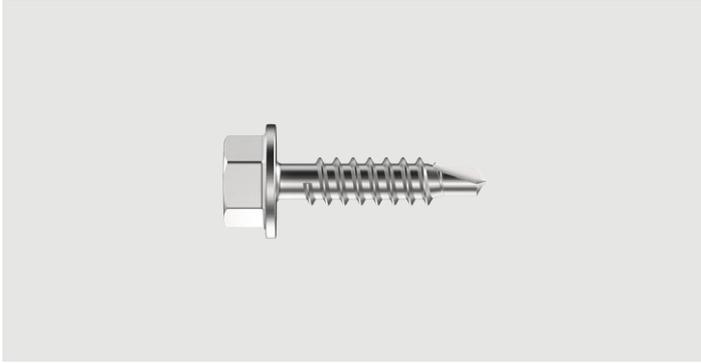
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SL2-4.8



## Description

Self-drilling fastener made of carbon steel with free-spin zone

## Application

Fastening of overlaps of metal decks  
Fastening of overlaps of liner trays

## Component 1 (t<sub>I</sub>)

Steel 0.63–1.25

## Component 2 (t<sub>II</sub>)

Steel 0.63–1.25

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

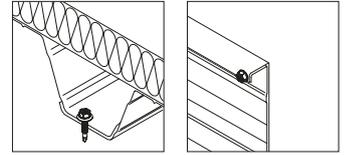
## Features and Benefits

- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating

## Approvals



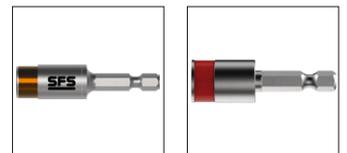
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
SL2-4,8x20	1000	20	1.2-2.5	1742757

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



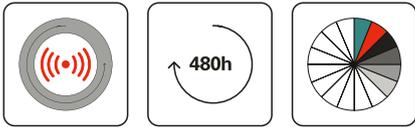
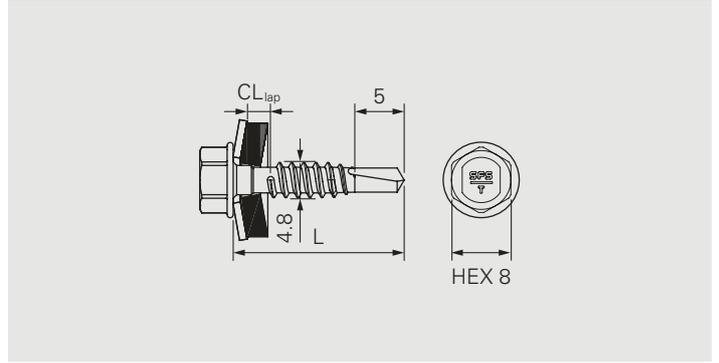
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SL2-T-4.8



## Description

Self-drilling fastener made of carbon steel with free-spin zone and sealing washer

## Application

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

## Component 1 (t<sub>1</sub>)

Steel

0.4–1.5

## Component 2 (t<sub>II</sub>)

Steel

0.4–1.5

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Aluminium, carbon steel galvanised, EPDM-seal

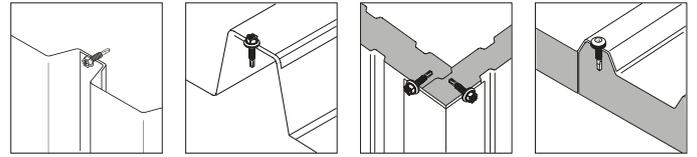
## Features and Benefits

- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating

## Approvals



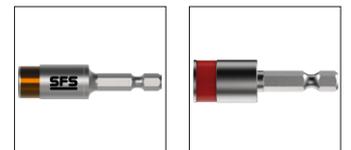
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	T14	A14
SL2-T-A14-4,8×20	250	20	0.8-2.5	-	3041
SL2-T-T14-4,8×20				1783650	-

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



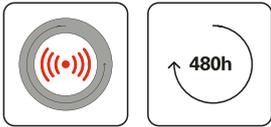
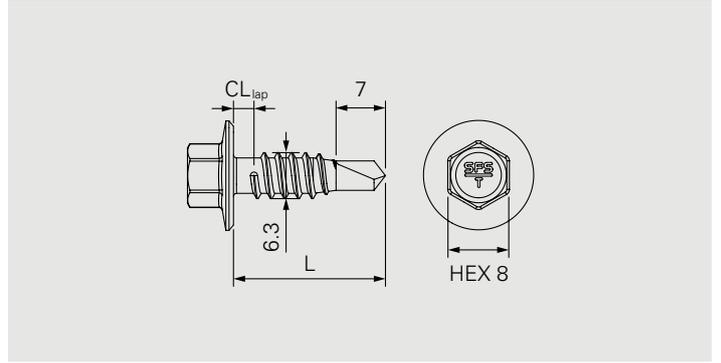
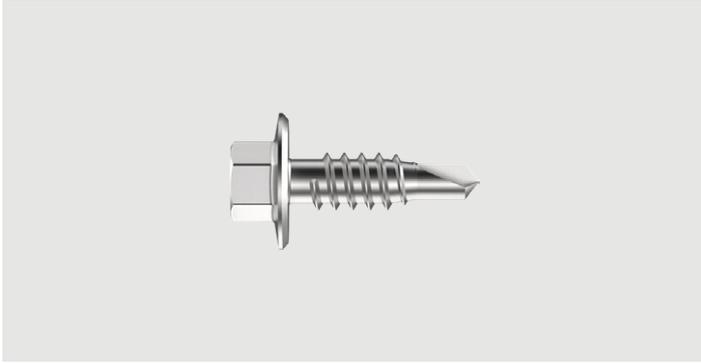
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SL2-H15-6.3



## Description

Self-drilling fastener made of carbon steel with wide flange and free-spin zone

## Application

Fastening of overlaps of metal decks  
Fastening of overlaps of liner trays

## Component 1 (t<sub>1</sub>)

Steel 0.63–1.25

## Component 2 (t<sub>2</sub>)

Steel 0.63–1.25

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

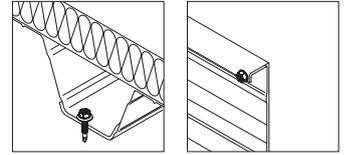
## Approvals



## Features and Benefits

- Wide flange for high technical values in the application
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating

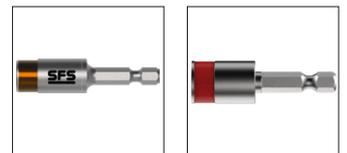
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
SL2-H15-6,3×20	500	20	1.2-2.5	1742734

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



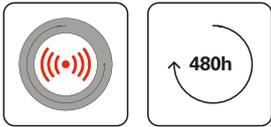
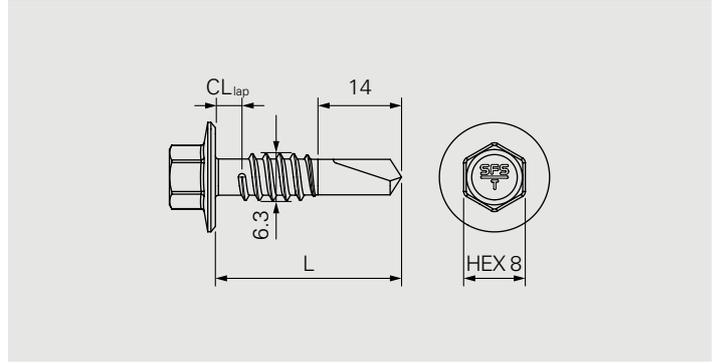
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SL3-H15-6.3



## Description

Self-drilling fastener made of carbon steel with wide flange and free-spin zone

## Application

- Fastening of metal profiles onto metal decks
- Fastening of metal decks onto metal profiles
- Fastening of overlaps of metal decks
- Fastening of overlaps of liner trays

## Component 1 (t<sub>1</sub>)

Steel 0.63–1.5

## Component 2 (t<sub>2</sub>)

Steel 0.63–2.0

Condition: Total thickness within CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

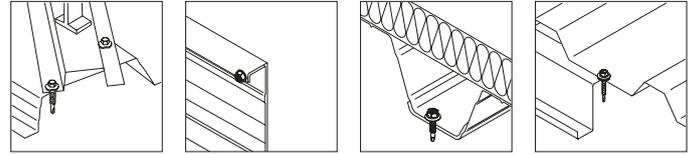
## Features and Benefits

- Wide flange for high technical values in the application
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating

## Approvals



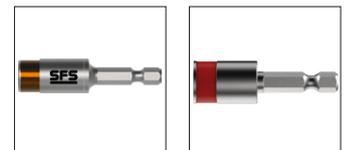
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
SL3-H15-6,3×32	500	32	2.0-3.5	1742735

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



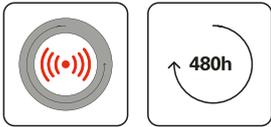
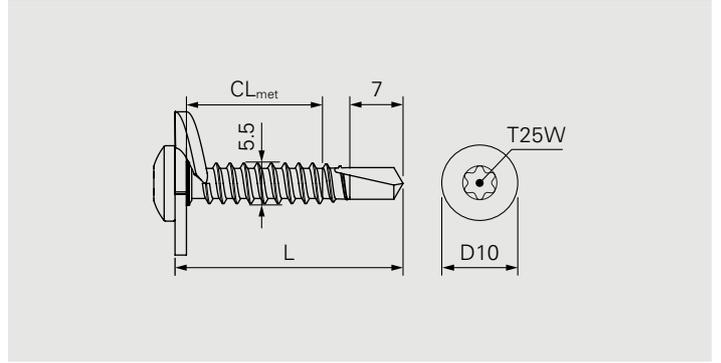
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SDP3-D10-TC19-5.5



## Description

Self-drilling fastener made of carbon steel with self-coring cutting disc

## Application

Fastening of single-ply panels onto metal profiles  
Fastening of overlaps of single-ply panels

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup> 0.5–1.0

## Component 2 (t<sub>ii</sub>)

Steel	1.25–3.0
Steel	0.5–1.0

<sup>1)</sup> Inner cover sheet

## Fastener material

Carbon steel, hardened, Durocoat® 480  
Cutting disc: Carbon steel galvanized

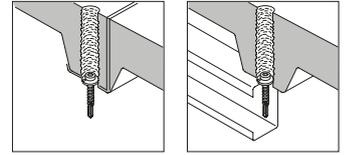
## Features and Benefits

- Fast and smooth penetration of membrane and insulation by self-coring cutting disc
- Small core hole with minimal disturbance of the insulation
- High corrosion durability by special galvanic coating

## Approvals



All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SDP3-D10-TC19-5,5x30	500	30	0-16	1645611

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



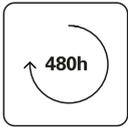
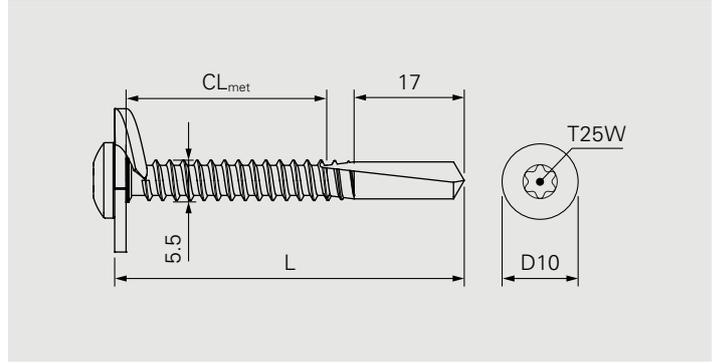
## Accessories

Product description	PU	Insert drive	Recess	L	
Bit T25W-175-HEX¼"	5	HEX¼"	T25W	175	727979

### All measures in mm

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# SDP14-D10-TC19-5.5



## Description

Self-drilling fastener made of carbon steel with self-coring cutting disc

## Application

Fastening of single-ply panels onto steel beams

## Component 1 (t<sub>i</sub>)

Steel<sup>1)</sup>

0.5–1.0

## Component 2 (t<sub>ii</sub>)

Steel

3.0–12.0

<sup>1)</sup> Inner cover sheet

## Fastener material

Carbon steel, hardened, Durocoat® 480

Cutting disc: Carbon steel galvanized

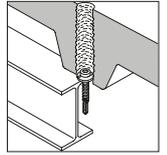
## Features and Benefits

- High drilling performance for heavy steel beams
- Fast and smooth penetration of membrane and insulation by self-coring cutting disc
- Small core hole with minimal disturbance of the insulation
- High corrosion durability by special galvanic coating

## Approvals



All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SDP14-D10-TC19-5,5x46	250	46	0-22	1645606

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



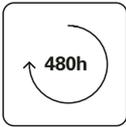
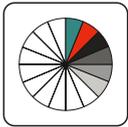
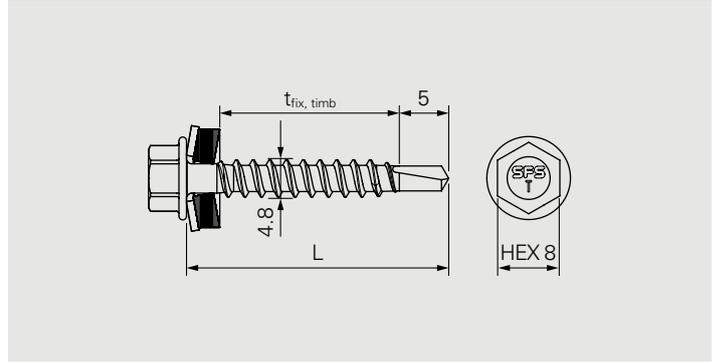
## Accessories

Product description	PU	Insert drive	Recess	L	
Bit T25W-175-HEX¼"	5	HEX¼"	T25W	175	727979

### All measures in mm

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# SW-T-4.8



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto timber

## Component 1 (t<sub>I</sub>)

Steel

0.5–1.5

## Component 2 (t<sub>II</sub>)

Timber

$l_{ef} \geq 25$

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Aluminium, EPDM-seal

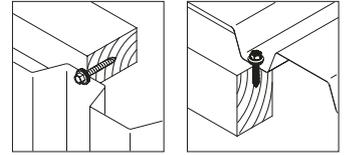
## Features and Benefits

- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



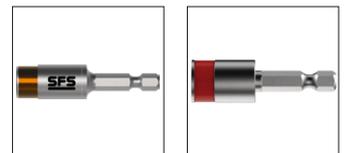
All measures in mm



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	A14
SW-T-A14-4,8×35	250	35	0-2	856490
SW-T-A14-4,8×51		51	0-18	16576

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



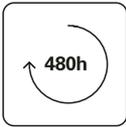
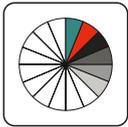
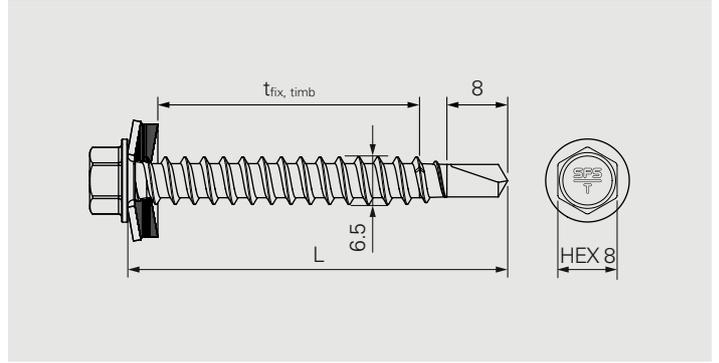
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SW3-T-6.5



## Description

Self-drilling fastener made of carbon steel with sealing washer

## Application

Fastening of profile sheets onto timber

## Component 1 (t<sub>I</sub>)

Steel

0.5–1.5

## Component 2 (t<sub>II</sub>)

Timber

$l_{ef} \geq 35$

## Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

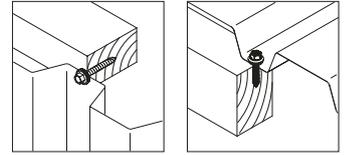
## Features and Benefits

- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

## Approvals



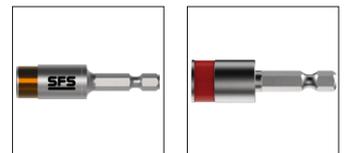
All measures in mm



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	T16
SW3-T-T16-6,5x50	250	50	0-4	71056

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



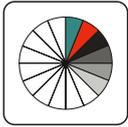
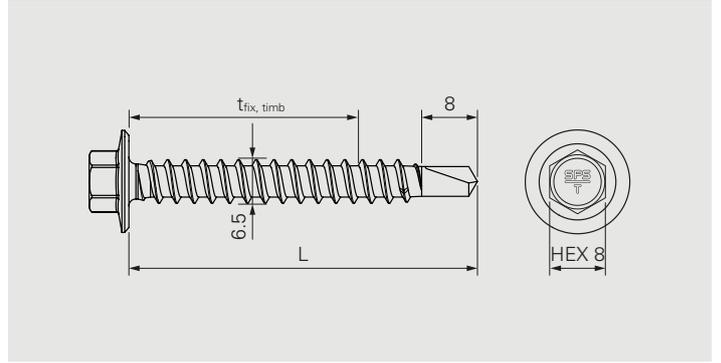
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# SW3-H15-6.5



## Description

Self-drilling fastener made of carbon steel with wide flange

## Application

Fastening of metal decks onto timber  
Fastening of liner trays onto timber

## Component 1 (t<sub>I</sub>)

Steel

0.63-1.5

## Component 2 (t<sub>II</sub>)

Timber

$l_{ef} \geq 35$

## Fastener material

Carbon steel, hardened, Durocoat® 480

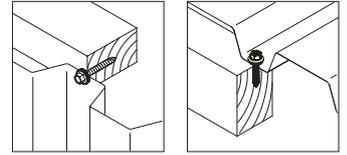
## Features and Benefits

- Wide flange for high technical values in the application
- High corrosion durability by special galvanic coating

## Approvals

**CE**<sub>23</sub>  
ETA-22/0605

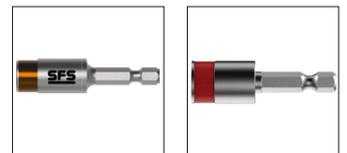
All measures in mm



## Fastener in carbon steel onto timber

Product code	PU	L	t <sub>fix, timb</sub>	
SW3-T-H15-6.5×50	250	50	0-8	1069981
SW3-T-H15-6.5×65	250	65	0-23	1420323

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t<sub>fix, timb</sub>.



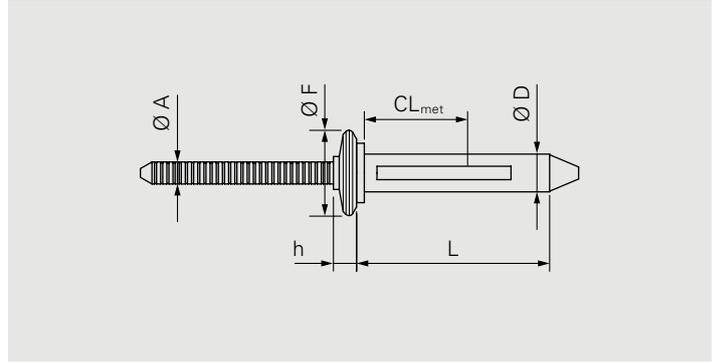
## Accessories

Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

### All measures in mm

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# BULB-TITE®



## Description

Triple claw blind rivet made of aluminium with sealing ring

## Application

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

## Fastener material

Aluminium 5056 (EN573)  
Sealing ring: Neoprene

## Approvals

ETA-13/0255



## Component 1 (t<sub>i</sub>)

Steel	≥0.4
Aluminium	≥0.5

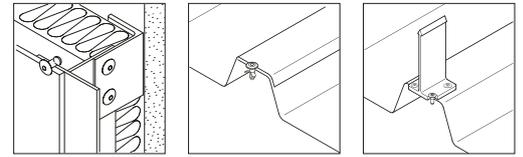
## Component 2 (t<sub>ii</sub>)

Steel	≥0.4
Aluminium	≥0.5

## Features and Benefits

- Rivet design for high technical values in the application
- Multifunctional use for a variety of applications
- Non-detachable and vibration-resistant
- Neoprene sealing ring for watertight connection

All measures in mm



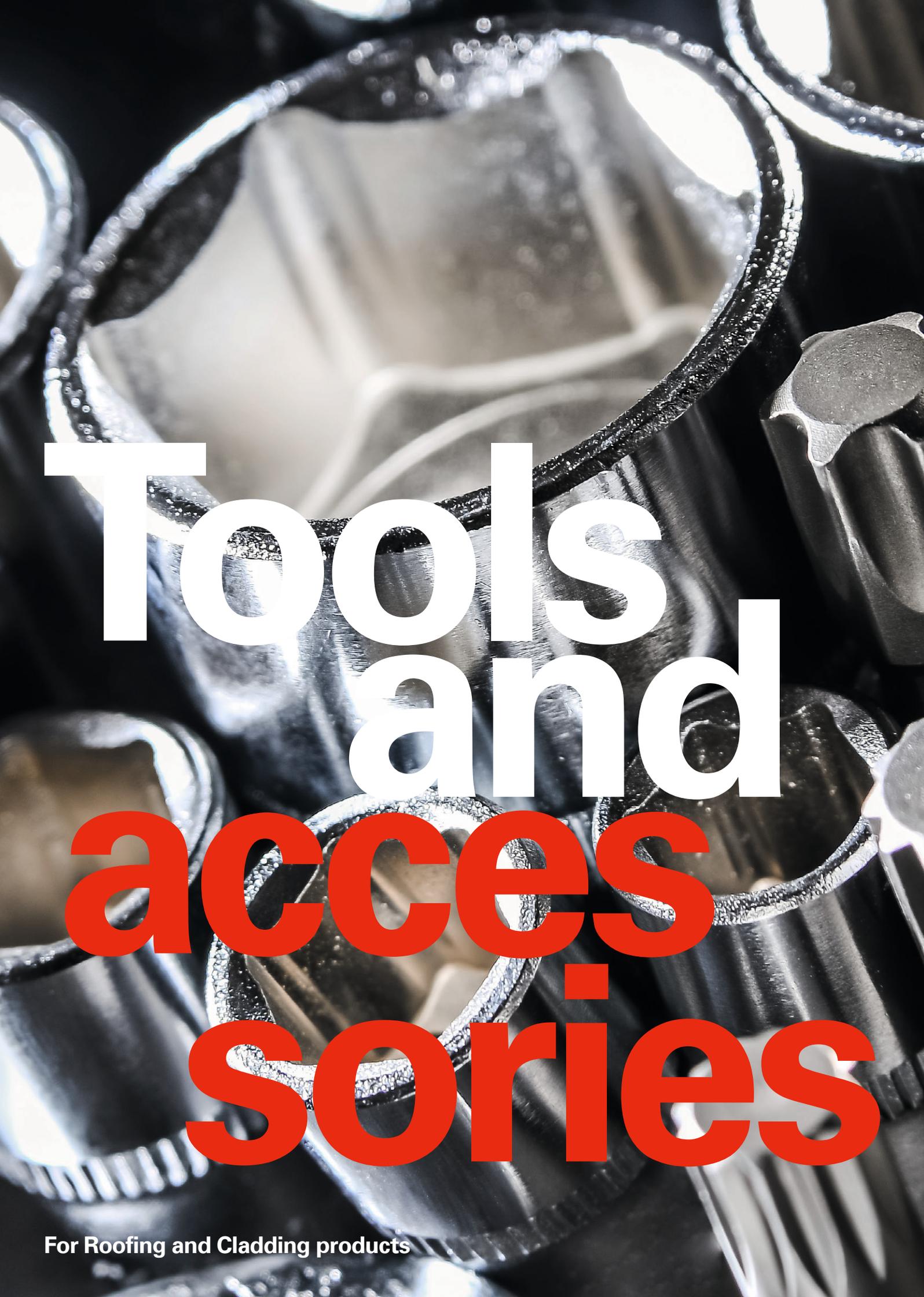
## Rivets in aluminium onto steel and aluminium

Product code	PU	Ø	L	CL <sub>met</sub>	Pre-drill Ø	Ø A	Ø F	h	
RV6604/6/3W-BULB-TITE	1000	5.2	17.5	1.3–4.8	5.3–5.5	2.9	11.6	3.4	1570655
RV6604/6/4W-BULB-TITE			19.1	1.6–6.4					1570656
RV6604/6/6W-BULB-TITE			22.2	4.7–9.5					1570658
RV6604/6/8W-BULB-TITE			25.4	7.9–12.7					1570659
RV6604/6/10W-BULB-TITE			28.6	11.1–15.9					1570629
RV6604/6/12W-BULB-TITE			31.8	14.3–19.1					1570652
RV6603/9/6W-BULB-TITE		7.7	28.0	0.8–9.5	7.8–8.2	4.5	15.9	4.8	1570647
RV6605/9/6W-BULB-TITE			28.0	1.1–9.5			19.4	5.3	1570660
RV6603/9/10W-BULB-TITE			34.0	6.4–15.9			15.9	4.8	1570649

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.

### All measures in mm

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# Tools and accessories

For Roofing and Cladding products

# Bits and sockets



## Bits

Product description	PU	Insert drive	Recess	L		
Bit holder ZA $\frac{1}{4}$ "-58	1	HEX $\frac{1}{4}$ "	HEX $\frac{1}{4}$ "	58	1162306	
Bit holder ZA $\frac{1}{4}$ "-300			HEX $\frac{1}{4}$ "	300	1741261	
Bit T20-25-HEX $\frac{1}{4}$ "		T20	25	769471		
Bit T20W-25-HEX $\frac{1}{4}$ "		T20W		53075		
Bit T25-25-HEX $\frac{1}{4}$ "		T25		24008		
Bit T25W-25-HEX $\frac{1}{4}$ "		T25W		7662		
Bit T25W-175-HEX $\frac{1}{4}$ "		T25W	175	727979		

All measures in mm

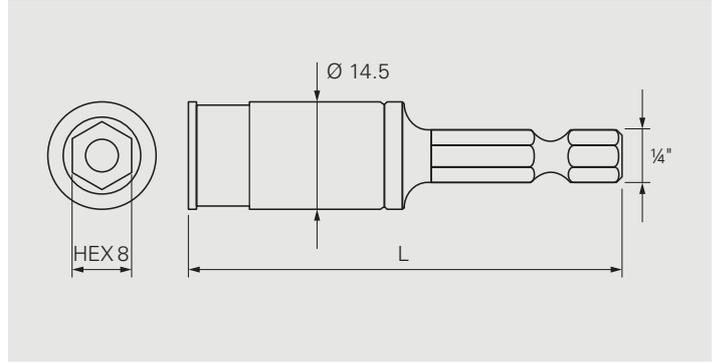
## Sockets

Product description	PU	Insert drive	Recess	L		
Socket E308-¼"-50	1	HEX¼"	HEX8	50	1646160	
Socket E420-¼"-74			irius® L12	74	973316	
Socket E508-½"-40		HEX½"	HEX8	40	1648380	
SOK-IT-¼"-57-6NM		HEX¼"		57	1667323	
SOK-IT-¼"-57-8NM				1667322		
Socket E380-⅜"-34		SQ⅜"	34	8018		
Socket holder ZA-¼"-50		HEX¼"	SQ⅜"	50	7645	

### All measures in mm

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# SOK-IT<sup>®</sup> – Torque socket



## Description

Socket with included torque limitation

Suitable for installation of fasteners without sealing washers onto construction steel, aluminium and timber

6 Nm socket for stainless steel fasteners (black)

8 Nm socket for carbon steel fasteners (gold)

## Features and Benefits

- Prevention of overwinding, overtightening and fastener breakages
- Usable with screw gun and impact gun
- Clamping ball for a good fit of the socket to the fastener head
- High life time with more than 5'000 installations

All measures in mm

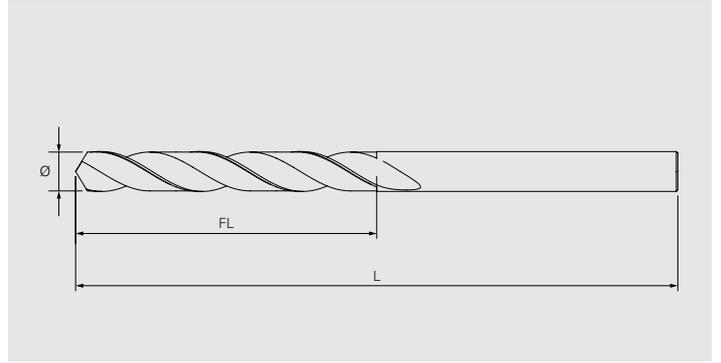
## Socket with torque limitation

Product code	PU	Insert drive	Recess	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	1667323
SOK-IT-¼"-57-8Nm				1667322

### All measures in mm

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# HSS drill bits



## Description

Drill bit made of HSS steel for pre-drilling of construction steel, aluminium and timber  
Cylindrical drill end for the use with standard drills

## Features and Benefits

- High cutting speed by temperature resistance up to 600 °C
- Optimized flute geometry for universal use in steel, aluminium and timber

All measures in mm

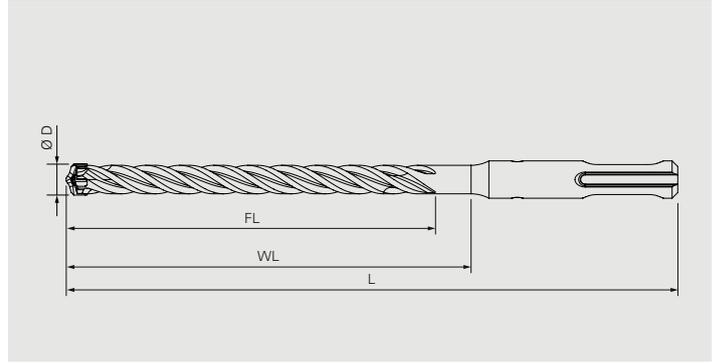
## Drill bits for construction steel, aluminium and timber

Product code	PU	D	L	FL	
HSS-4,9x62/26	1	4.9	62	26	69585
HSS-5,0x60/31	1	5.0	60	31	1046721
HSS-5,0x90/31			90		1046723
HSS-5,0x125/31			125		1046724
HSS-5,0x175/31			175		1206462
HSS-5,0x220/31			220		1046726
HSS-5,0x250/31			250		1206458
HSS-5,3x60/31			1		5.3
HSS-5,3x95/31	95	1046735			
HSS-5,3x125/31	125	1206451			
HSS-5,3x175/31	175	1046738			
HSS-5,3x220/31	220	1206450			
HSS-5,3x250/31	250	1046740			
HSS-5,3x290/31	290	1046751			
HSS-5,5x60/31	1	5.5	60	31	1046752
HSS-5,5x95/31			95		1046753
HSS-5,5x125/31			125		1046754
HSS-5,5x175/31			175		1046755
HSS-5,5x220/31			220		1046756
HSS-5,5x250/31			250		1046757
HSS-5,5x290/31			290		1046758
HSS-5,7x60/31	1	5.7	60	31	1046760
HSS-5,7x95/31			95		1046772
HSS-5,7x125/31			125		1046773
HSS-5,7x175/31			175		1206429
HSS-5,7x220/31			220		1206428
HSS-5,7x250/31			250		1046777
HSS-5,7x290/31			290		1206427
HSS-5,8x60/31	1	5.8	60	31	7870
HSS-5,8x100/31			100		7872
HSS-5,8x125/31			125		7891
HSS-5,8x200/31			200		7894
HSS-5,8x260/31			260		7896
HSS-5,8x300/31			300		1238831
HSS-6,5x101/63	1	6.5	101	63	893457

### All measures in mm

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# SDS drill bits



## Description

Drill bit with 4 carbide cutting edges for pre-drilling of reinforced concrete  
SDS drill end for the use with rotary hammers

## Features and Benefits

- High drilling speed, exact drilling diameters and high service life
- Minimum risk of hooking when hitting reinforced steel
- Optimized flute geometry for fast removing of drilling dust
- Precise positioning of the drill bit by the centering tip
- Proof of suitability in concrete with PGM certificate

All measures in mm

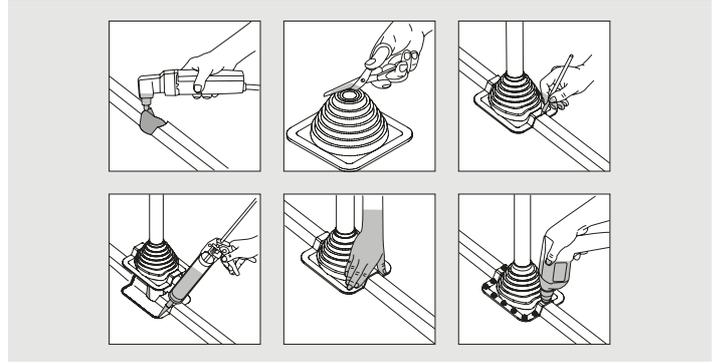
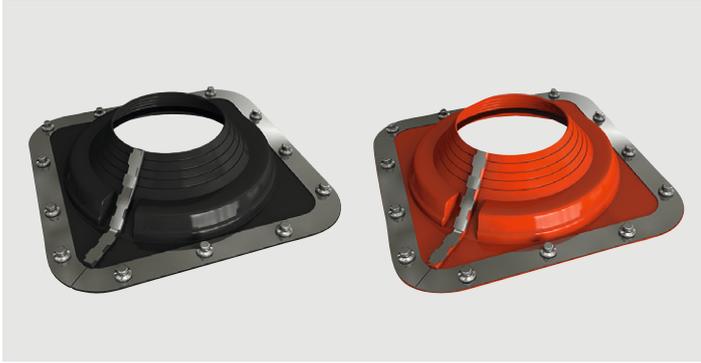
## Drill bits for reinforced concrete

Product code	PU	D	L	WL	FL	
SDS-6×215/150-4C	1	6	215	150	150	1487583
SDS-6×315/250-4C			315	250	250	1487584
SDS-6×515/455-4C			515	455	200	1608141
SDS-8×215/150-4C	1	8	215	150	150	1487585
SDS-10×215/150-4C	1	10	215	150	150	1487586

### All measures in mm

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# Flashing Combo



## Description

Adaptable pipe flashing for a wide variety of roof profile sheet shapes

Permanently sealing of a pipe penetration – leak-proof, vibration-proof, heat-proof and weather-proof

EPDM pipe flashing for temperatures up to +115 °C (black)

Silicone pipe flashing for temperatures up to +200 °C (red)

## Features and Benefits

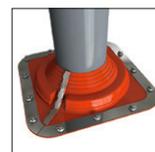
- Suitable for standard and retrofit applications
- Soft embedded aluminium frame for simple adaptation to the profile sheet
- Absorption of vibrations and pipe movements by the flexible flashing design
- Operating temperature of EPDM flashing from –50 °C up to +115 °C (intermittently up to +150 °C)
- Operating temperature of Silicone flashing from –50 °C up to +200 °C (intermittently up to +250 °C)
- 20 years warranty

All measures in mm



## Flashing Combo EPDM black

Product code	PU	Ø min.	Ø max.	Base	Required fixing kit	
Flashing Combo N°1 5-60-BLACK	1	5	60	139×139	Set N°1	1541691
Flashing Combo N°3 5-127-BLACK			127	218×218	Set N°2	1541692
Flashing Combo N°4 75-175-BLACK		75	175	285×285	Set N°2	1522467
Flashing Combo N°5 108-190-BLACK		108	190	365×365		1550019
Flashing Combo N°6 125-230-BLACK		125	230	454×454		1522473
Flashing Combo N°7 150-280-BLACK		150	280		1550021	
Flashing Combo N°8 175-330-BLACK		175	330	685×685	Set N°3	1522474
Flashing Combo N°9 240-503-BLACK		240	503		1541693	
Flashing Combo N°10 350-750-BLACK		350	760	1000×1045	Set N°4	1541694



## Flashing Combo Silicone red

Product code	PU	Ø min.	Ø max.	Base	Required fixing kit	
Flashing Combo N°1 5-60-RED	1	5	60	139×139	Set N°1	1565212
Flashing Combo N°3 5-127-RED			127	218×218	Set N°2	1565213
Flashing Combo N°4 75-175-RED		75	175	285×285	Set N°2	1565218
Flashing Combo N°5 108-190-RED		108	190	365×365		1565232
Flashing Combo N°6 125-230-RED		125	230	454×454		1565233
Flashing Combo N°7 150-280-RED		150	280		1565234	
Flashing Combo N°8 175-330-RED		175	330	685×685	Set N°3	1565235
Flashing Combo N°9 240-503-RED		240	503		1565236	

### All measures in mm

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.

## Fixing kit onto metal sheets

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

## Fixing kit onto aluminium sheets

Product code	PU	Coltogum transparent	Rivet RV6604	
MF-SET-1-RV6604	1	1 pcs.	12 pcs.	1019640
MF-SET-2-RV6604			24 pcs.	1019651
MF-SET-3-RV6604			36 pcs.	1019652

## Single components

Product code	PU		
SX3/9-A12-6x29	500		1141972
RV6604/6/4W-BULB-TITE	1000		1570656
Coltogum sealing compound	1		588087

All measures in mm

# Sealing tape LDL



## Technical characteristics

Building material class DIN 4102	B1 (flame retardant)
Vapour diffusion resistance factor	$\mu < 100$
Temperature resistance	-30 °C up to +90 °C
Air tightness DIN 18542	BGR
Joint permeability DIN 18542	BG1
Driving rain resistance DIN 18542	600 Pa
Weather resistant DIN 18542	passed
Compatibility with construction materials DIN 18542	passed
Storage temperature	+1 °C up to +20 °C
Storage time	9 months
Processing temperature	>5 °C
Color	anthracite

## Description

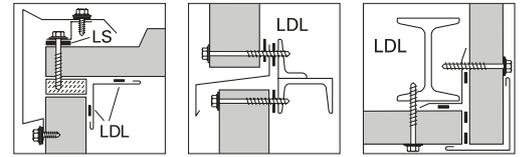
Joint sealing tape made of impregnated open-cell polyurethane soft foam (PU)  
 Pre-compressed and one-sided self-adhesive  
 Suitable for airtight sealing of joints in interior roof and wall applications (DIN 18542, BGR)  
 Suitable for sealing of joints in exterior roof and wall applications (DIN 18542, BG1)

## Application

Sealing of joints between sandwich panel connections  
 Sealing of joints between overlaps of metal decks  
 Sealing of joints between overlaps of liner trays

## Features and Benefits

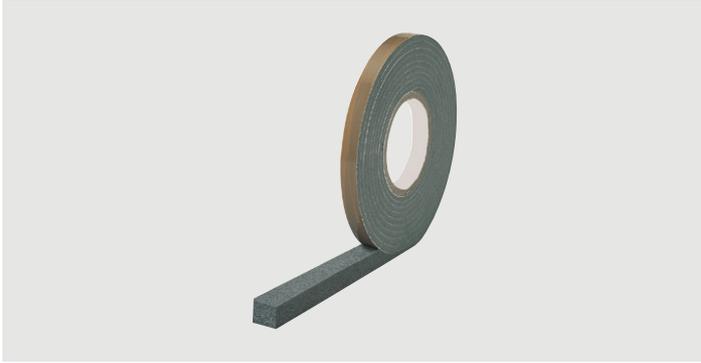
- Permanently elastic with life-long movement capacity
- Air tight, water vapour permeable
- Weathering and ageing resistant
- Accoustic and thermal insulation properties
- Halogen-free, solvent-free



## Sealing tape LDL

Product code	PU	Tape wide (mm)	Joint wide (mm)		Roll length (m)		
			BG1	BGR			
LDL-10/2-4	1	10	2-4	2-3	22	1467478	
LDL-14/2-4		14				1467490	
LDL-14/2-6				2-6	2-4	18	1467491
LDL-14/3-9				3-9	3-5	12	1467492
LDL-19/7-15			19	7-15	7-8	6	1524572
LDL-30/7-15			30				1525296

# Sealing tape LS



## Technical characteristics

Building material class DIN 4102	B2 (normal flammability)
Vapour diffusion resistance factor	$\mu < 100$
Temperature resistance	-30 °C up to +90 °C
Processing temperature	>+5 °C
Joint permeability DIN 18542	BG2
Driving rain resistance DIN 18542	300 Pa
Weather resistant DIN 18542	passed
Compatibility with construction materials DIN 18542	passed
Storage temperature	+1 °C up to +20 °C
Storage time	1 year

## Description

Joint sealing tape made of impregnated open-cell polyurethane soft foam (PU)

Pre-compressed and one-sided self-adhesive

Suitable for sealing of joints in exterior roof and wall applications not directly exposed to weathering (DIN 18542, BG2)

## Application

Sealing of joints between overlaps of sandwich panels

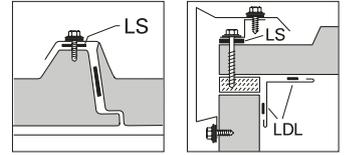
Sealing of joints between overlaps of profile sheets

Sealing of joints between flashings and sandwich panels

Sealing of joints between flashings and profile sheets

## Features and Benefits

- Permanently elastic with life-long movement capacity
- Water vapour permeable
- Weathering and ageing resistant
- Acoustic and thermal insulation properties
- Halogen-free, solvent-free



## Sealing tape LS

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

# Sealing tape PE



## Technical characteristics

Building material class DIN 4102	B2 (normal flammability)
Thermal conductivity EN ISO 12667	0,04 W/m x K
Vapour diffusion resistance factor	$\mu < 100$
Temperature resistance	-30 °C up to +80 °C
Weather resistant DIN 18542	passed
Compatibility with construction materials DIN 18542	passed
Storage temperature	+1 °C up to +20 °C
Storage time	1 year

## Description

Sealing tape made of closed-cell polyethylene foam (PE)

One-sided self-adhesive

Suitable for sealing of joints with uniform joint width

Suitable for thermal separation of construction components without high requirements on thermal bridges

## Application

Thermal separation between profile sheets and metal profiles

Thermal separation between profile sheets and liner trays

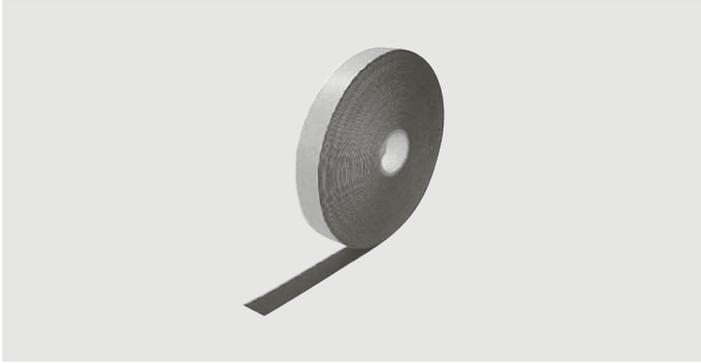
## Features and Benefits

- Dimensional stable
- Thermal insulation properties
- Ageing resistant
- Environmentally friendly–chemically neutral

## Sealing tape PE

Product code	PU	Tape wide (mm)	Joint wide (mm)	Roll length (m)	
PE-15×2	1	15	2	30	1163556
PE-15×3			3		1163558
PE-25×2		2	1163559		
PE-40×4		4	20	1163561	
PE-60×5		5		1324731	
PE-SB-50/6	1	50	6	50	1507257
PE-SB-90/6		90			1187232
PE-SB-115/6		115			1187233
PE-SB-140/6		140			1187234
PE-SB-165/6		165			1187236
PE-SB-190/6		190			1187237
PE-SB-220/6		220			1214554

# Decoupling tape EB



## Technical characteristics

Building material class DIN 4102	B2 (normal flammable)
Thermal conductivity EN ISO 12572	0.042 W/m x K
Temperature resistance	-30 °C up to +80 °C
Building material compatibility DIN 18542	passed
Storage temperature	+1 °C up to +20 °C
Storage time	1 years
Processing temperature	>5 °C

## Description

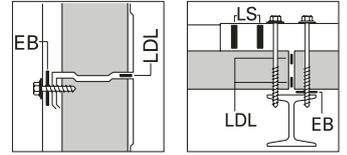
Decoupling tape made of closed-cell polypropylene foam (PP)  
 One-sided self-adhesive  
 Suitable for thermal separation of construction components

## Application

Thermal separation between profile sheets and metal profiles  
 Thermal separation between profile sheets and liner trays

## Features and Benefits

- Dimensional stable, compression resistant
- Thermal insulation properties
- Ageing resistance
- Environmentally friendly – chemically neutral



## Decoupling tape EB

Product code	PU	Tape wide (mm)	Joint wide (mm)	Roll length (m)	
EB-30×3-SK	1	30	3	30	1163565
EB-40×3-SK		40			1163566
EB-50×3-SK		50			1163567
EB-60×3-SK		60			1163568
EB-80×3-SK		80			1163570
EB-90×3-SK		90			1385482

# Butyl tape BB



## Technical characteristics

Building material class DIN 4102	B2 (normal flammable)
Temperature resistance	-40 °C up to +80 °C
Storage temperature	+10 °C up to +25 °C
Storage time	at +20 °C unlimited

## Description

Sealing tape made of butyl rubber  
 Double-sided self-adhesive  
 Suitable for watertight sealing of joints in exterior roof and wall applications

## Application

Sealing of joints between overlaps of sandwich panels  
 Sealing of joints between overlaps of profile sheets

## Features and Benefits

- Volume resistant
- High adhesion properties
- Water tight, water vapour impermeable
- Weathering, ageing and UV resistant
- Bitumen compatible
- Solvent-free, bitumen-free

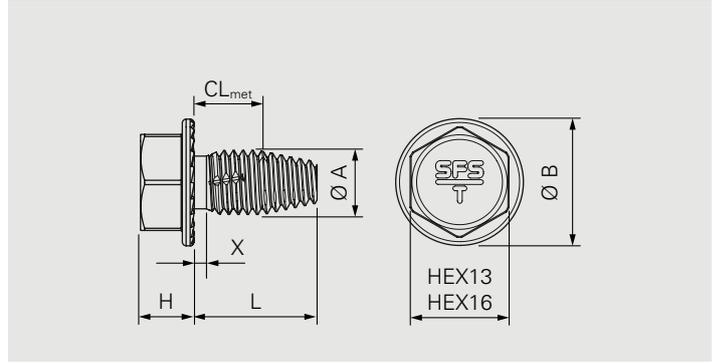
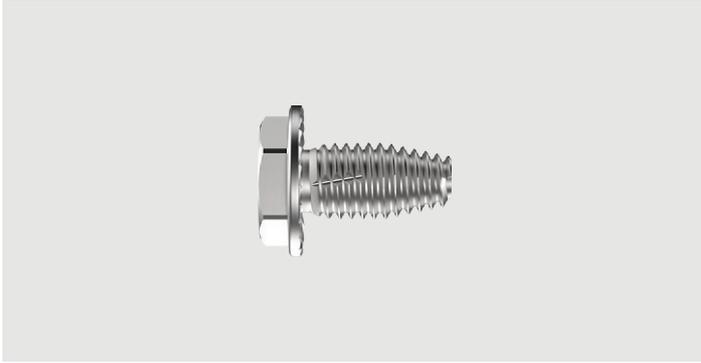
## Butyl tape BB

Product code	PU	Tape wide (mm)	Joint wide (mm)	Roll length (m)	
BB-10×1,5	1	10	1.5	25	1163572



# Structu ral Connec tions

# nonut<sup>®</sup> 8.6



## Description

Self-tapping fastener made of carbon steel with conical thread inlet

## Application

Structural connections of metal profiles

## Component 1 (t<sub>1</sub>)

Steel see ETA 11/0191

## Component 2 (t<sub>II</sub>)

Steel see ETA 11/0191

## Fastener material

Carbon steel, hardened, Durocoat<sup>®</sup> 480

## Approvals

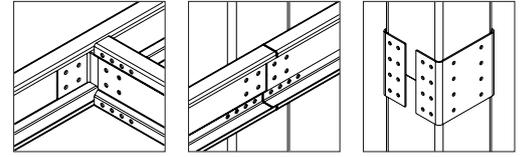


CE<sub>11</sub>  
ETA-11/0191

## Features and Benefits

- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability
- Highest safety regarding overwinding and self-loosening

All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	Head	Ø A	Ø B	x	H	
nonut®-TDBL-T-8,6×16	200	16	0-9	HEX13	8.6	16.0	2.0	7	1542214
nonut®-TDBLF-T-F-8,6×16							<1.0	4.7	1541860
nonut®-TDBL-T-8,6×50	100	50	23-43	HEX16			20.0	7	1607124

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



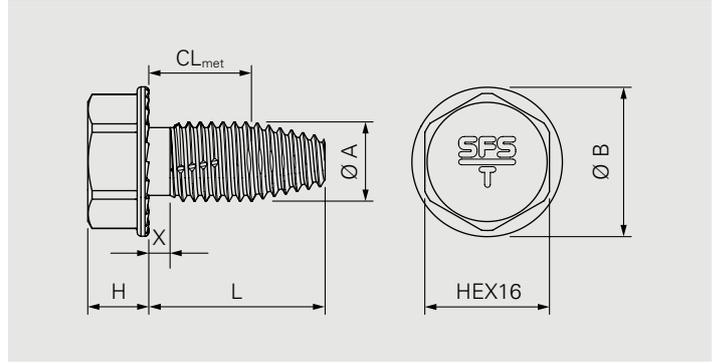
## Accessories

Product code	PU	Insert drive	Recess	L	
Socket E313-¼"-50	1	HEX¼"	HEX13	50	508029
Socket E513-½"-78		HEX½"		78	1649258
Socket E416-½"-40		HEX16		40	1389740
Socket E516-½"-78 red.				78	1649257
Socket E516-½"-78					1649256

### All measures in mm

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# nonut<sup>®</sup> 10.6



## Description

Self-tapping fastener made of carbon steel with conical thread inlet

## Application

Structural connections of metal profiles

## Component 1 (t<sub>1</sub>)

Steel see ETA 11/0191

## Component 2 (t<sub>2</sub>)

Steel see ETA 11/0191

## Fastener material

Carbon steel, hardened, Durocoat<sup>®</sup> 480

## Approvals

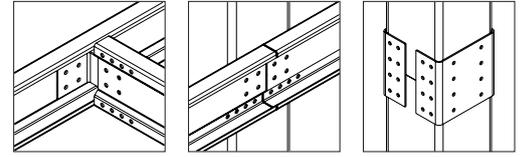


CE<sub>11</sub>  
ETA-11/0191

## Features and Benefits

- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability
- Highest safety regarding overwinding and self-loosening

All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	Head	Ø A	Ø B	x	H	
nonut®-TDBL-T-10,6x23	100	23	0-13	HEX16	10.6	20.0	3.0	8	1542223
nonut®-TDBLF-T-10,6x23							<1.50		1542229
nonut®-TDBL-T-10,6x30		3.0	1542217						
nonut®-TDBL-T-10,6x50		50	0-40				1561761		

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



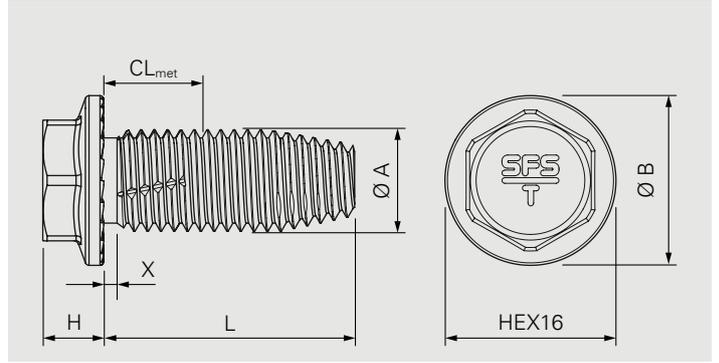
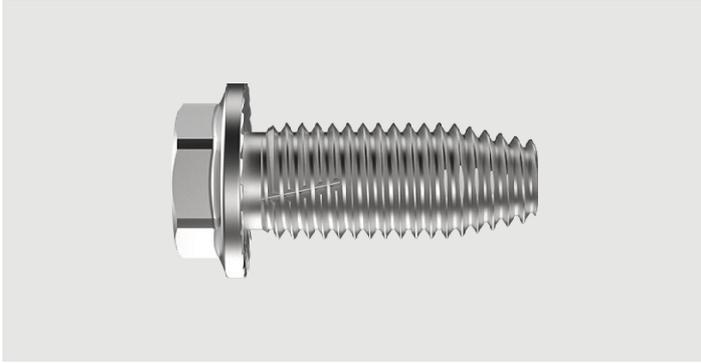
## Accessories

Product code	PU	Insert drive	Recess	L	
Socket E416-1/2"-40	1	HEX1/2"	HEX16	40	1389740
Socket E516-1/2"-78 red.				78	1649257
Socket E516-1/2"-78					1649256

### All measures in mm

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# nonut<sup>®</sup> 13.4



## Description

Self-tapping fastener made of carbon steel with conical thread inlet

## Application

Structural connections of metal profiles

## Component 1 (t<sub>1</sub>)

Steel see ETA 11/0191

## Component 2 (t<sub>2</sub>)

Steel see ETA 11/0191

## Fastener material

Carbon steel, hardened, Durocoat<sup>®</sup> 480

## Approvals

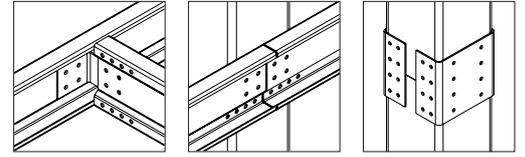


CE<sub>11</sub>  
ETA-11/0191

## Features and Benefits

- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability
- Highest safety regarding overwinding and self-loosening

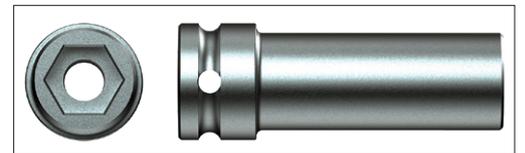
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	Head	Ø A	Ø B	x	H	
nonut®-TDBLF-T-13,4x20	100	20	0-10	HEX16	13.4	20.0	<2.0	8	1542470
nonut®-TDBL-T-13,4x30			0-20				3.0		1542212

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



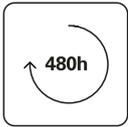
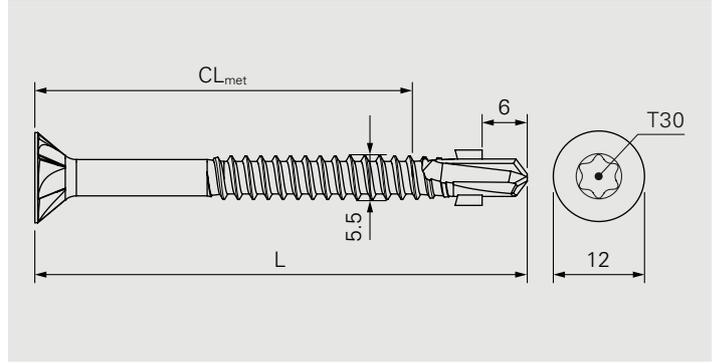
## Accessories

Product code	PU	Insert drive	Recess	L	
Socket E416-1/2"-40	1	HEX1/2"	HEX16	40	1389740
Socket E516-1/2"-78 red.				78	1649257
Socket E516-1/2"-78					1649256

### All measures in mm

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# SC5-5.5



## Description

Self-drilling fastener made of carbon steel with cutting wings and countersunk head

## Application

Fastening of timber boards onto supporting steel structures

## Component 1 (t<sub>i</sub>)

Timber OSB3	>12.0
Timber P2	>16.0
Timber P4	>38.0
Timber P6	>38.0

## Component 2 (t<sub>ii</sub>)

Steel	1.75–5.0
-------	----------

## Fastener material

Carbon steel, hardened, Durocoat® 480

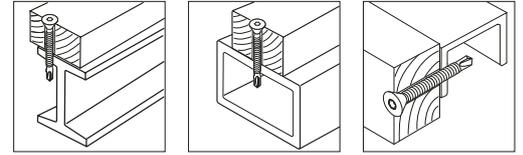
## Features and Benefits

- Fastener head with milling grooves for flush-mounted installation without damaging the timber surface
- Cutting wings for efficient drilling of the through hole in timber
- Suitable for installation with CF250 and CF250 PL setting tools

## Approvals



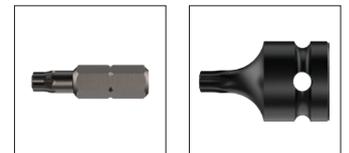
All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SC5/46-12CC-5,5x60	1000	60	25-46	1580102

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



## Accessories

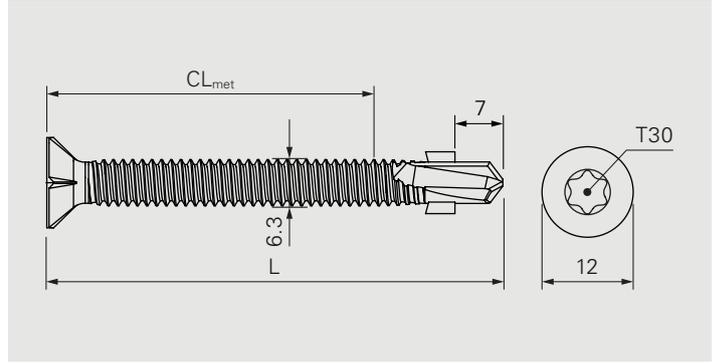
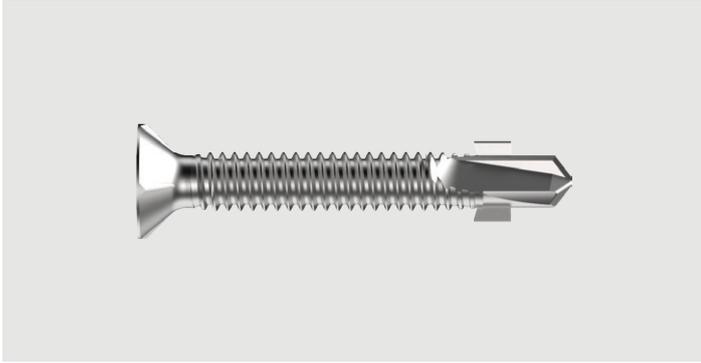
Product code	PU	Insert drive	Recess	L	
Bit T30-25-HEX 1/4"	1	HEX 1/4"	T30	25	1690315
Bit T30-35-1/2"		HEX 1/2"		35	

Product code	PU	Insert drive	Voltage V	rpm	
CF250-230V-1560 RPM-COMPL	1	1/4"	230	1560	9653444
CF250-PL-230V-COMPL					1104016

### All measures in mm

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# SC6-6.3



## Description

Self-drilling fastener made of carbon steel with cutting wings and countersunk head

## Application

Fastening of timber boards onto supporting steel structures

## Component 1 (t<sub>i</sub>)

Timber OSB3	>12.0
Timber P2	>16.0
Timber P4	>38.0
Timber P6	>38.0

## Component 2 (t<sub>ii</sub>)

Steel	2.5–6.0
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## Fastener material

Carbon steel, hardened, galvanized

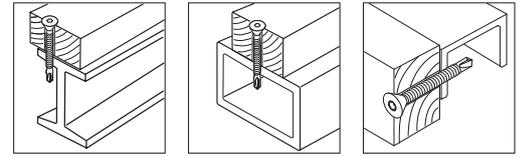
## Features and Benefits

- Fastener head with milling grooves for flush-mounted installation without damaging the timber surface
- Cutting wings for efficient drilling of the through hole in timber
- Suitable for installation with CF250 and CF250 PL setting tools

## Approvals



All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>met</sub>	
SC6/44-12-U6,3x60	1000	60	8-44	934071

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>met</sub>.



## Accessories

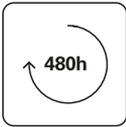
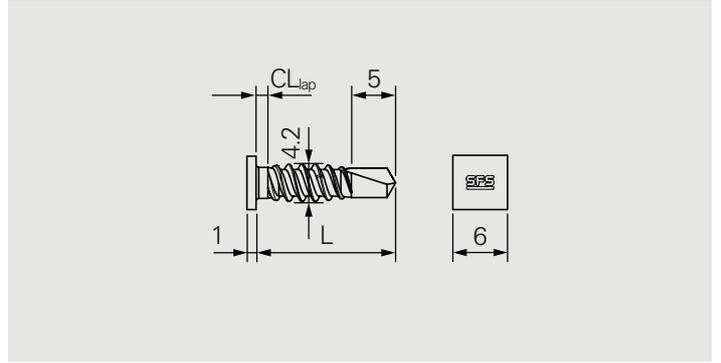
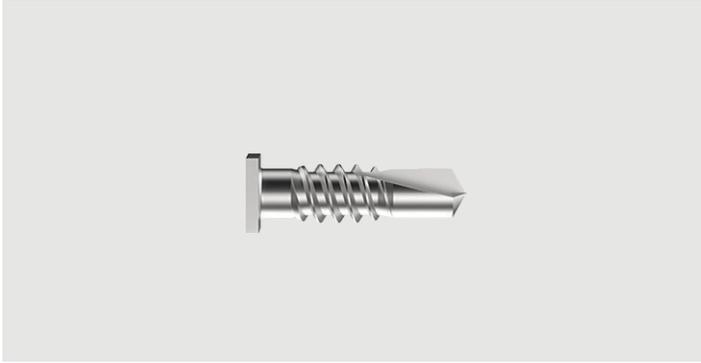
Product code	PU	Insert drive	Recess	L	
Bit T30-25-HEX 1/4"	1	HEX 1/4"	T30	25	1690315
Bit T30-35-1/2"		HEX 1/2"		35	1690314

Product code	PU	Insert drive	Voltage V	rpm	
CF250-230V-1560 RPM-COMPL	1	1/4"	230	1560	9653444
CF250-PL-230V-COMPL					1104016

### All measures in mm

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# SDL3-F-4.2



## Description

Self-drilling fastener made of carbon steel with flat square head and free-spin zone

## Application

Fastening of light gauge steel frames

## Component 1 (t<sub>1</sub>)

Steel

0.7–2.0

## Component 2 (t<sub>II</sub>)

Steel

0.7–2.0

Condition: Total thickness withing CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 480

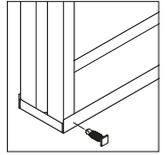
## Features and Benefits

- Flat head suitable for the application
- Double thread for fast installation
- Comfortable installation without required torque control
- Increased security against unwinding by the free-spin zone

## Approvals

–

All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
SDL3-F-4.2x15	1000	15	1.4-2.7	857296

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.



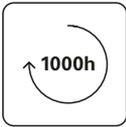
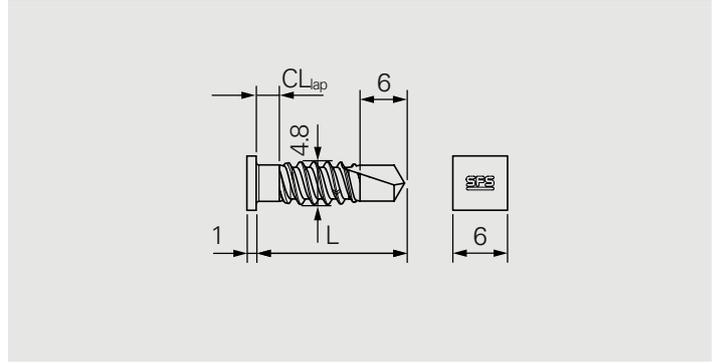
## Accessories

Product code	PU	Insert drive	Recess	L	
Socket E466-¼"-40	1	HEX¼"	SQ6	40	858496

### All measures in mm

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.

# SDL4-F-4.8



## Description

Self-drilling fastener made of carbon steel with flat square head and free-spin zone

## Application

Fastening of light gauge steel frames

## Component 1 (t<sub>1</sub>)

Steel 0.7–2.0

## Component 2 (t<sub>II</sub>)

Steel 0.7–2.0

Condition: Total thickness withing CL<sub>lap</sub>

## Fastener material

Carbon steel, hardened, Durocoat® 1000 hours salt spray test, 15 cycles kesternich test

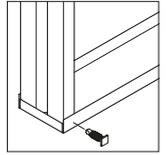
## Features and Benefits

- Flat head suitable for the application
- Double thread for fast installation
- Comfortable installation without required torque control
- Increased security against unwinding by the free-spin zone

## Approvals

–

All measures in mm



## Fastener in carbon steel onto steel

Product code	PU	L	CL <sub>lap</sub>	
SDL4-F-4.8x16-D	1000	16	2.7-4.0	1625778

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL<sub>lap</sub>.

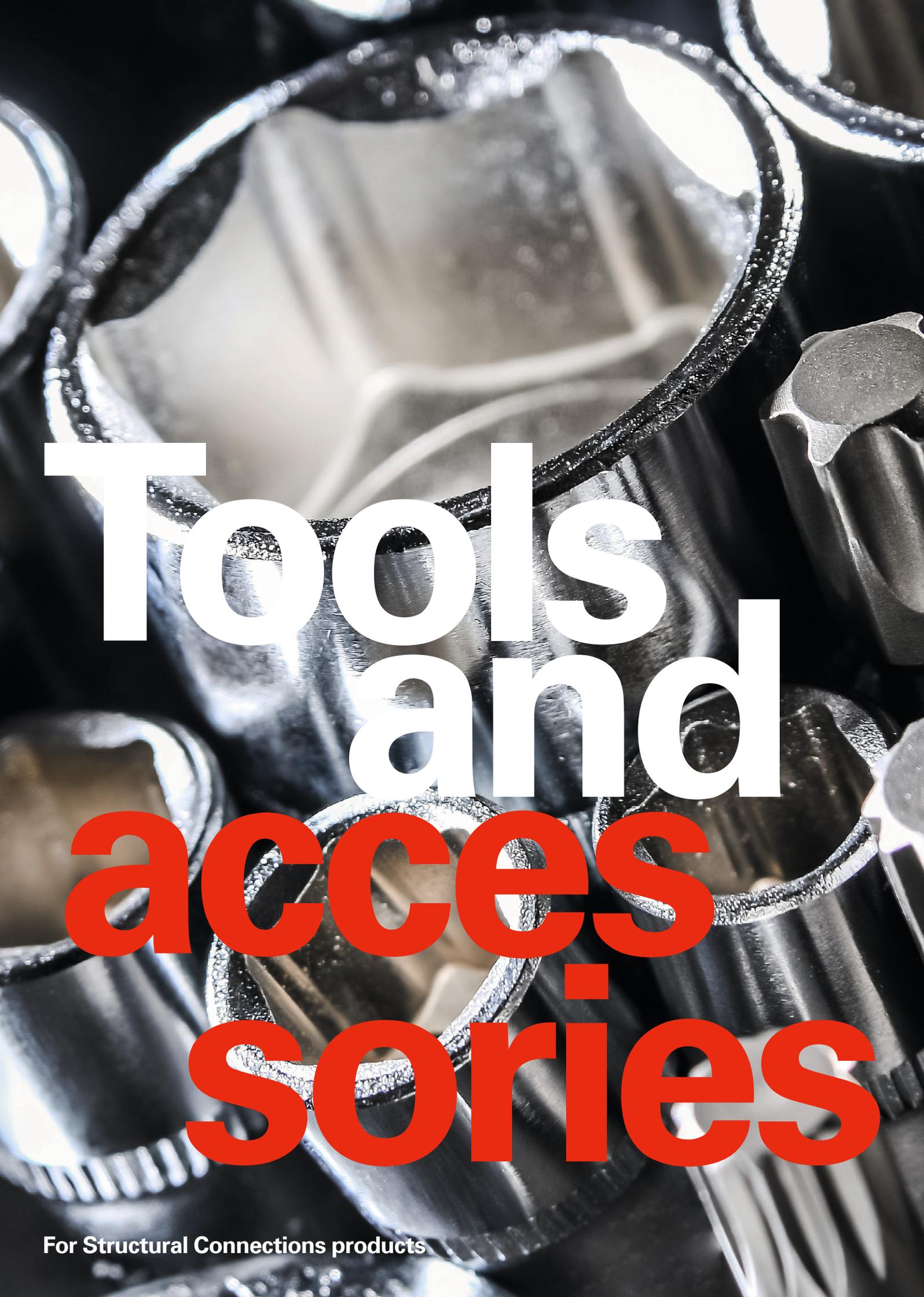


## Accessories

Product code	PU	Insert drive	Recess	L	
Socket E466-¼"-40	1	HEX¼"	SQ6	40	858496

### All measures in mm

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes.



# Tools and accessories

For Structural Connections products

# Accessories for Structural Connections

## Sockets

Product description	PU	Insert drive	Recess	L		
Socket E466-¼"-40	1	HEX¼"	SQ6	40	858496	
Socket E313-¼"-50			HEX13	50	508029	
Socket E416-½"-38		HEX½"	HEX16	38	1389740	
Socket E513-½"-78			HEX13	78	1649258	
Socket E516-½"-78			HEX16		1649256	
Socket E516-½"-78-red					1649257	
Socket ZAW-½"-75		SQ½"	SQ½"	75	1684227	
Socket ZAW-½"-150				150	1684205	

All measures in mm

# CF250, CF250-PL Setting tools



## CF250 Application

Ergonomic setting tool for processing of winged drilling fasteners for fastening of timber to steel structures. Drilling pressure is exerted by the operator.

For fasteners	SC5, SC6
For fastener length:	30–120 mm
Head Ø	12/15 mm
Bits	T30/T40

## Technical information

Power supply	230 V
Wattage	740 W
Revs. under full load	1560 rpm
Dimension	200x450x1150 mm
Weight	10.0 kg

## Features and Benefits

- Ergonomic design for fastening in an upright position
- Easy and comfortable handling and drilling even in heavy steel applications
- Efficient processing of fasteners with effortless and simple reloading. No manual force required for CF250-PL version due to pneumatical drive



## CF250-PL Application

For comfortable, semi-automatic setting in an upright posture. Drilling pressure is produced by the pneumatic unit. Recommended for high setting performance and large volumes.

For fasteners	SC5, SC6
For fastener length:	30–120 mm
Head Ø	12/15 mm
Bits	T30/T40

## Technical information

Power supply	230 V
Wattage	740 W
Revs. under full load	1560 rpm
Dimension	500x450x1150 mm
Weight	24.0 kg
Required air pressure	6 bar

## Product Range

Product code	PU	
CF250-230V-1560 RPM-COMPL	1	9653444
CF250-PL-230V-COMPL		1104016