

Roofing and Cladding

2026 UK Catalogue





Table of content

Technical introduction

4 The building envelope specialist
7 Latest products
8 Features and innovations
10 Environmental declaration
11 FM approval
13 Technical approval
14 Environmental conditions
15 Contact corrosion
16 Product overview – Roofing and Cladding
19 Product overview – Structural Connections
20 Applications of Roofing and Cladding
28 Sealing washers
30 Installation instructions
32 Clamping range and fixing thickness
36 Product codes

Products – Roofing and Cladding

38 Stainless steel fasteners
112 Carbon steel fasteners
164 Rivets
172 Tools and Accessories

Products – Structural Connections

194 Fasteners
214 Tools and Accessories

The building envelope specialist

We strive for continuous improvement and innovation – with 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 a leading specialist in this application we offer 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.

Unusual roof structure

Bene, a manufacturer of office furniture in Waidhofen an der Ybbs, Austria, had a roof refurbishment performed during ongoing operations with SXC5 fasteners from SFS. The roof is roughly 23,000 m^2 in size and features an unusual structure: The production hall is covered by something referred to as a saw-tooth roof. This type of roof has a series of several self-supporting pitched-roof-type structures set at different angles. These lean-to roofs have one surface with a flatter pitch that is covered with roofing material and a steeper glazed side that admits light. The flatter side protects against weather while the light-permeable side allows light to enter evenly in order to illuminate the large roof-covered spaces. Since the roof structure had seen better days and sustained quite a bit of damage over the years, rooftop refurbishment began in spring 2023. While this project was underway, the company also seized the opportunity to improve the roof's thermal performance and mount a photovoltaic system.

The fact that office furniture production was to continue in the hall during the refurbishment work presented a special challenge. The





glass panes on the sides of the individual lean-to elements of the saw-tooth roof's structure posed a fall hazard that needed to be taken into consideration in order to prevent injuries to employees working in the hall or damage to expensive machines and products. With that in mind, the Hörmann team erected temporary roof tents made of wood. This approach enabled a step-by-step approach to the refurbishment: The 23,000 m^2 rooftop was divided into individual segments, which were then refurbished one after another.

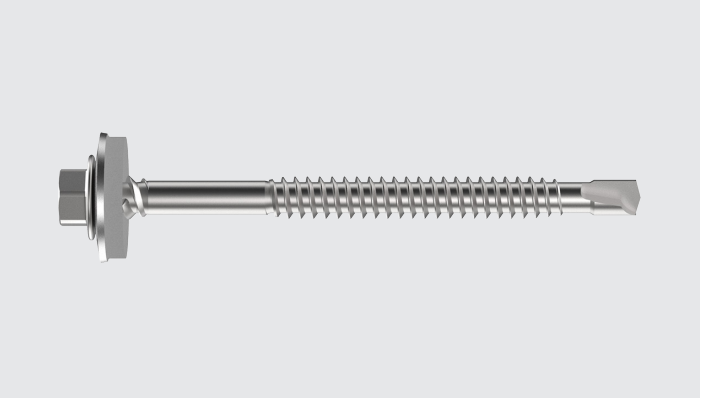
SXC5 for secure fastening

SFS delivered around 46,000 SXC5 self-drilling fasteners to the construction site for mounting the individual elements on the rooftop. These fasteners are made of A2 stainless steel and were designed specifically for fastening sandwich elements. The European Technical Assessment (ETA) attests to the high tensile strength of the SXC5. What that means: fewer fasteners are needed when performing repairs, saving valuable installation time and cutting down on the materials used on the construction site.

The benefits offered by the SXC5 fasteners let SFS put its strengths on display in Bene's saw-tooth roof project. These fasteners' technical advantages kept the repair work on schedule, even despite the tight deadline.

Added Value

- Cut-off thread-end provides support for the outer layer of the sandwich element
- High-quality EPDM sealing washer for long-term weatherproofing
- Long drill point for easy drilling through overlapping metal profiles
- High level of elasticity – the fasteners reliably absorb thermal expansion in the sandwich panels to prevent damage caused by temperature fluctuations

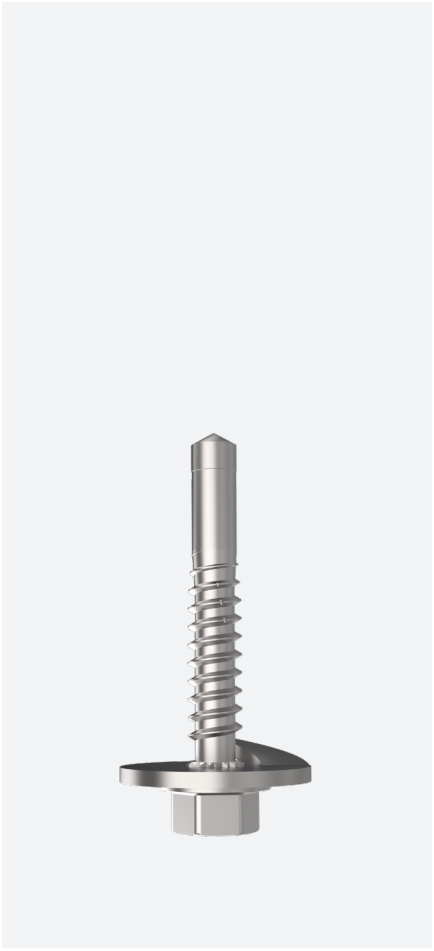



SFS

Latest products

Designed for Single Ply Insulated Sandwich Panels
SXP Range

Three variants for main fix to light and heavy section, new to the range a stitching fastener. Now with a dual drive & optimised for each application.



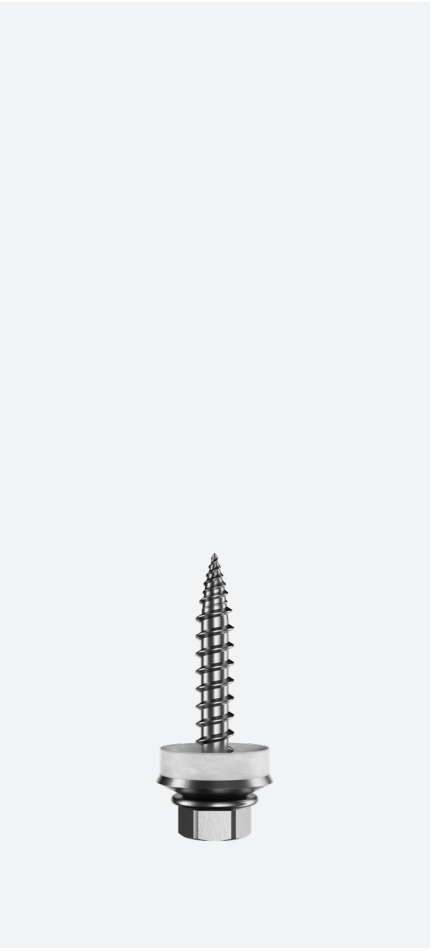
New Fastener for Solar Mounting Systems
CX-6.0-A2

Presenting the new SFS solar mounting fastener, offering a high standard in setting security and tailored application approval available.

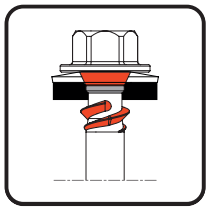


FastTip® Clamping Fastener
CXLW-4.8-A2/A4

Latest solution for sidelaps with AV washer technology, providing improved values, reduced swarf and faster installation compared to a standard drill point.

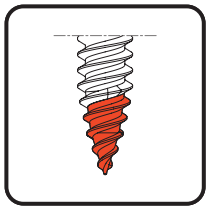


Features and innovations



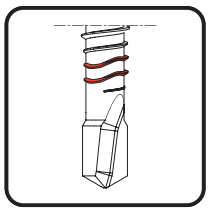
Premium-Sealing – improved air- and watertightness

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.



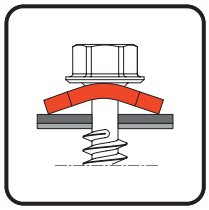
FastTip® – for quick, chipless insertion

The FastTip® allows ergonomic, low-force insertion, while simultaneously providing 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.



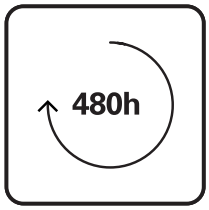
Thick to Thin – high application area

Products featuring "Thick to Thin" offer an extremely variable clamping range coupled with 100% setting security. This solution satisfies this requirement when it comes to non-seal-tight connections between thick components and thin substructures.



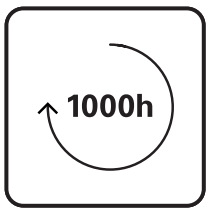
Safe setting – resistant to unwinding and vibration

The cut-off thread-end and defined free-spin zone join forces to offer a secured fastener, safe against over-torqueing. The result is a vibration and unwinding resistant connection.



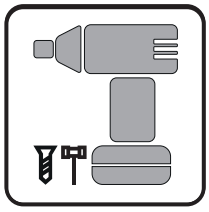
Durocoat® 480 – corrosion resistance

This 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.



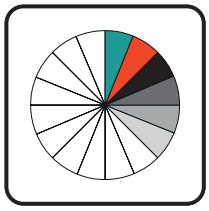
Durocoat® 1000 – corrosion resistance

This surface stands for a high corrosion resistance and offers 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.



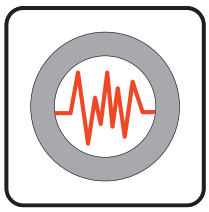
Impact gun can be used – ergonomical installation

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



Paintable fasteners – all variants available

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



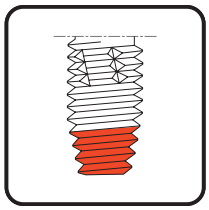
Seismic approved – high physical life

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



Fire approved – reliable and secure

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



Centering point – easy installation

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

Environmental declaration

BRE Global Verified EPD

More information: Please visit uk.sfs.com

EPD stands for Environmental Product Declaration. We are proud to announce EPD for our roofing and cladding products. It is a standardized and verified document in accordance with international standard EN ISO 14025 and EN 15804+A2 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 aim to be a more sustainable and environmentally responsible 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.



FM approval

More information: Please visit uk.sfs.com

FM approval is a product certification, provided by FM Approvals, a member of the industrial insurance company FM Global and recognized by leading companies around the world. We offer an extended range of FM approved products in the area of roofing and cladding.

Insuring with FM Global requires FM approved products 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.

The FM approval testing is conducted exclusively by FM Approvals in Boston, United States. Upon successfully passing the test, the product earns the FM APPROVED mark 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, ensured through regular audits by FM Approvals. Fulfilling these requirements ensures permission to use their quality mark and signifies a commitment to ongoing quality assurances.

Three main reasons to choose FM approved fasteners:
1. One of the highest possible quality assurance proof in the area of roofing and cladding
2. Growing trend in the European market
3. Attracting major tenants from the United States to their European properties





Technical approval

A European Technical Assessment (ETA) provides recognized evidence of the performance of a construction product and enables CE marking, allowing products to be marketed throughout all European member states. Almost all of our roofing and cladding products are covered by an ETA.

The European Construction Products Regulation (CPR) establishes harmonized rules for construction products that are intended to be permanently incorporated into construction works and whose performance affects the performance of the construction works concerning basic requirements. The CPR's main objectives are to facilitate the placing of construction products on the *European single market based on harmonized technical standards, ensure their free movement and eliminate technical barriers. Harmonized technical standards are harmonized standards (hEN) and European Assessment Documents (EAD) which regulate the essential performance characteristics to be evaluated and the Assessment and Verification of Constancy of Performance (AVCP). The standardised testing and assessment methods ensure a consistent performance evaluation of construction products.

Under the CPR, any construction product covered by harmonized standards (hEN) must have a CE marking and a Declaration of Performance (DoP) that details the performance of the product. For construction products covered by European Assessment Documents (EAD), the CE marking is voluntary.

Most of our roofing and cladding products fall under the CPR and are covered by EADs. The performance of these products are declared in European Technical Assessments (ETA) issued by an official Technical Assessment Body (TAB), such as the German Institute for Building Technology (DIBt) or the Polish Institute for Building Technology (ITB). The AVCP is ensured through specified Factory Production Control (FPC) and regular audits by a Notified Body (NB) such as the Karlsruhe Institute of Technology (KIT) in Germany.

Overview of European Technical Assessments

ETA-10/0198	Fasteners for metal members and sheeting (stainless steel)
ETA-11/0191	Self-tapping fasteners for structural connections
ETA-13/0183	Fasteners for sandwich panels (stainless steel)
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)

For construction products that are subject to the CPR but not covered by harmonized technical standards, national technical approvals may be obtained. In Germany, these approvals are called general building authority approvals (abZ) issued by the DIBt. An abZ includes the relevant performance characteristics, regulates product marking and confirmation of conformity along with other aspects such as the usability of the product.

Overview of National Technical Approvals

Z-14.4-890	Concrete fasteners for fastening of sandwich panels
Z-14.4-872	Fasteners of connecting wood panels with steel profiles

*UKCA Marketing - as per statement UIN HCWS62 from the Ministry of Housing, Communities and Local Government on 2nd September 2024. CE marking will continue to be recognised for demonstrating a products compliance with the UK Construction Product Regulation. SFS will monitor any changes in the Government's future position, however as of this date will not be implementing UKCA for Roofing and Cladding porducts

Environmental conditions

The local, internal and external environmental conditions must be taken into account when selecting the fastener material. Atmospheric corrosion can be largely prevented by the correct choice of fastener material.

The international standard ISO 9223 standard divides the corrosiveness of the atmospheric environment into different corrosion categories. The subdivision is made into 6 corrosivity categories from very low to extreme exposure to corrosion.

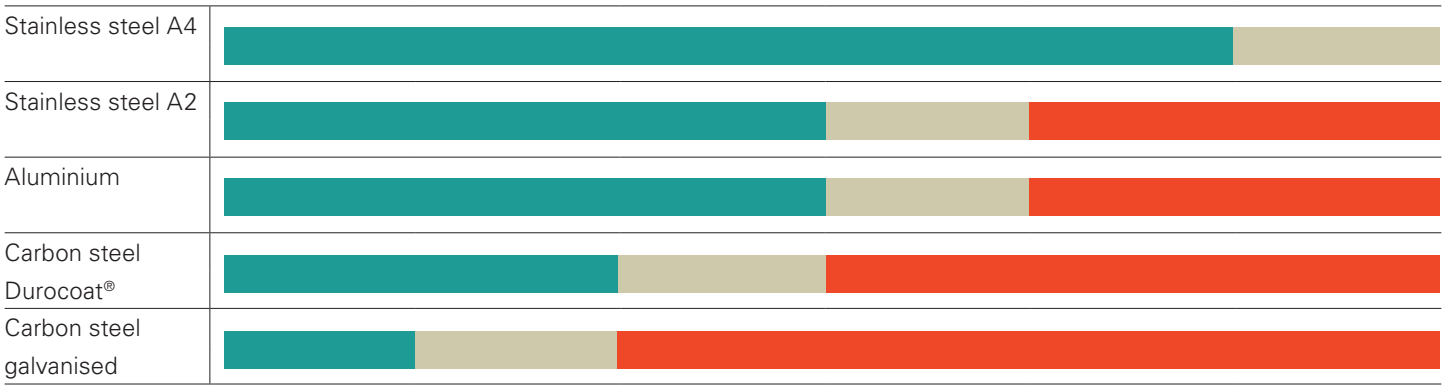
The corrosivity categories take into account the superimposed environmental factors such as climate zone, air pollution or coastal areas. The fastener material should be suitable for a particular corrosivity category to prevent the occurence of atmospheric corrosion.

Corrosivity categories according to ISO 9223

Corrosivity category	**C1** Very low	**C2** Low	**C3** Medium	**C4**[1] High	**C5** Very high	**CX** Extreme
Temperate climate zone	(Dry climate)	With low air pollution (rural)	With moderate air pollution (industrial)	With high air pollution (industrial)	–	–
Costal areas		–	With slightly salty air	With moderate salty air	With very salty air	(Offshore)

Typical outdoor environmental conditions, interpreted by SFS from ISO 9223.

Fastener material



Recommendation based on experience of SFS. The final decision must be made by the customer. SFS accepts no responsibility.

Legend

	Suitable fastener material, expected working life for typical applications at least 25 years[2]
	Suitable fastener material in specific circumstances, professional expertise is required
	Unsuitable fastener material

[1] For swimming pool hall atmospheres, special fastener material is required.
[2] This value is based on an average working life for typical applications and complies with the specifications in our ETAs.

Contact corrosion

Contact corrosion can occur when 2 metals of differing electrical potential come into contact with each other in a humid environment. The correct choice of the fastener material largely prevents the occurrence of contact (galvanic) corrosion.

The occurence of contact corrosion depends on the electrochemical potential difference and the surface ratio of the metals. The less noble metal is preferentially affected by contact corrosion. Stainless steel and aluminum are noble metals, while carbon steel is a less noble metal. Stainless steel and aluminum form protective oxide layers on their surface and behave therefore more noble than the electrochemical series indicates.

The surface ratio of the metals essentially determines the strength of the corrosion. As long as the surface of the more noble metal is small in relation to the less noble metal, no significant corrosion is expected. A fastener is generally seen as small surface compared to the construction component that's why the fastener material should always be more noble or equal compared to the material of the construction component.

Larger Surface Area

Typical materials	Carbon steel	Aluminium	Stainless steel

Smaller Surface Area

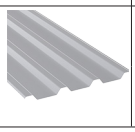
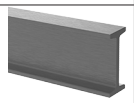
Stainless steel	
Aluminium	
Carbon steel	

Recommendation based on experience of SFS. The final decision must be made by the customer. SFS accepts no responsibility.

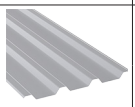
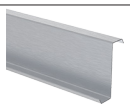
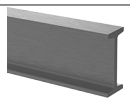
Legend

	Suitable fastener material
	Unsuitable fastener material

Product overview
Roofing and Cladding

Product	Page	Self-drilling		Self-tapping	Substructure				
		Drill point	FastTip®		Sheet	Profile	Beam	Timber	Concrete
									
Stainless steel fasteners									
CX-6.0-A2	42		•		•				
CXLW-4.8-A2/A4	44		•		•				
LL-S-A2/A4	46			•	•				
MMS-plus-A4	48			•					•
MXC-7.5-A4	52			•					•
SD2-S-6.0	56	•			•	•			
SL2-S-5.5-A2/A4	58	•			•				
SLG-S-6,5-A2	60		•		•				
SX2-D9-4,8	62	•			•				
SX3-6.0-A2/A4	64	•				•			
SX5-5.5-A2/A4	66	•				•			
SX5-6.3-A4	68	•				•			
SX14-5.5-A2/A4	70	•					•		
SX16-5.8-A4	72	•					•		
SXC5-6.3-A2/A4	74	•				•			
SXC16-5.8-A2/A4	78	•					•		
SXK2-6.0-A2	82	•			•				
SXK3-6.0-A2	84	•				•			
SXL2-6.3-A2/A4	86	•			•				
SXL3-6.0-A2/A4	88	•			•				
SXP2-5.5-A2	90	•			•				
SXP5-5.5-A2	92	•			•	•			
SXP14-5.5-A2	94	•					•		
SXW-6.5-A2	96	•						•	
TDA-S-6.5-A2/A4/R5	98			•		•		•	
TDB-S-6.3-A2/A4/R5	102			•		•	•		
TDC-S-6.3-A2	106			•		•			
TDC-S-7.1-A2	108			•		•			
TI-S-S16-6.3-A2	110			•					•

Product overview
Roofing and Cladding

Product	Page	Self-drilling		Self-tapping	Substructure				
		Drill point	FastTip®		Sheet	Profile	Beam	Timber	Concrete
									
Carbon steel fasteners									
CD-D12-6,3	114		•		•				
CDL-4.8	116	•			•				
CDM-4.8	118		•		•				
MDC-7.5	120			•					•
MMS-plus	124			•					•
SD3-5.5	128	•				•			
SD5-LH-5,5	130	•				•			
SD6-5.5	132	•				•			
SD6-H15-E11-5.5	134	•				•			
SD14-5.5	136	•					•		
SD14-H15-E11-5.5	138	•					•		
SD14-LH-5,5	140	•					•		
SD20-5.5	142	•					•		
SD20-H15-E11-5.5	144	•					•		
SDC5-6.3	146	•				•			
SDC14-5.5	150	•					•		
SDP3-D10-TC19-5.5	154	•			•	•			
SDP14-D10-TC19-5.5	156	•					•		
SL2-T-4,8	158	•			•				
SL3-H15-6.3	160	•			•	•			
SW3-T-6.5	162	•						•	
Rivets									
BULB-TITE®	164				•	•			
PG-C	166				•	•			

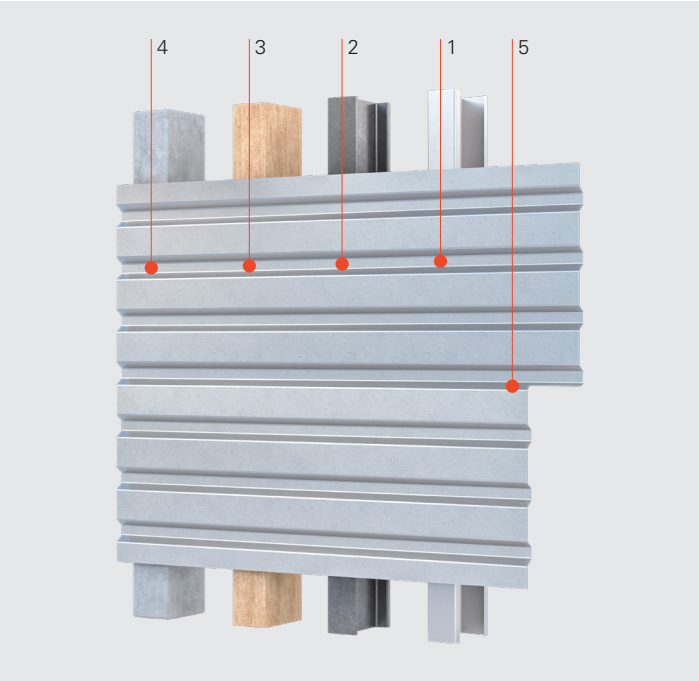
Product overview
Roofing and Cladding

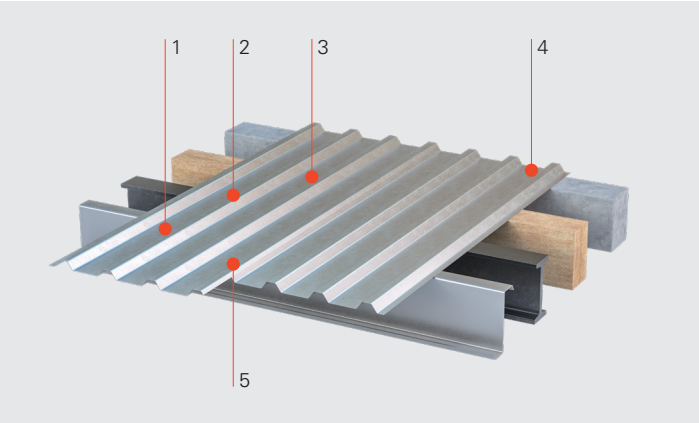
Product	Page
Tools and Accessories	
Bits, sockets and drive bars	170
Butyl Tape A+	174
Flashing Combo	176
HSS drill bits	180
Plate 40mm - 9/8.0mm	182
Polyband A/A+	184
Saddle Washer - CA	186
SDS - 4C drill bits	188
SOK-IT® - Torque socket	190
TCW Washer	192

Product overview
Structural Connections

Product	Page
Fasteners	
nonut® TDBL 8.6	196
nonut® TDBL 10.6	198
nonut® TDBL 13.4	200
SC3-4.8	202
SC5-5.5	204
SC6-6.3	206
SCS3-4.8-A2	208
SCS5-5.5-A2	210
SDL4-F-4.8	212
Tools and Accessories	
Accessories for Structural Connections	216
CF250	218

Single-skin roof and wall
Profile sheet

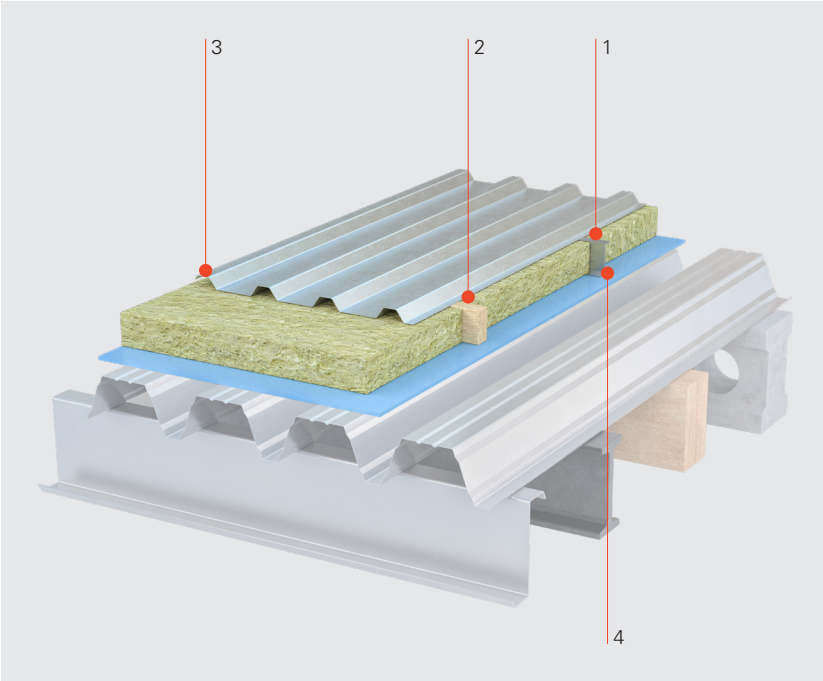




Fixing point	
1	Profile sheet to metal profile
2	Profile sheet to steel beam
3	Profile sheet to timber
4	Profile sheet to concrete
5	Overlap of profile sheet

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5
		Drill point	FastTip®						
Stainless steel fasteners									
CXLW-4.8-A2/A4	44		•				•		•
SL2-S-5,5-A2/A4	58	•							•
SX3-6.0-A2/A4	64	•			•				
SX5-5.5-A2/A4	66	•			•				
SX14-5.5-A2/A4	70	•				•			
SXL2-6.3-A2/A4	86	•							•
SXW-6.5-A2	96	•					•		
TDA-S-6,5-A2/A4/R5	98			•	•		•		
TDB-S-6,3-A2/A4/R5	102			•	•	•			
TDC-S-7.1-A2	108			•	•				
TI-S-S16-6.3-A2	110			•				•	
Carbon steel fasteners									
CDL-4.8	116		•						•
SD3-5.5	128	•			•				
SD6-5.5	132	•			•				
SD14-5.5	136	•				•			
SD20-5.5	142	•				•			
SL2-T-4.8	158	•							•
SW3-T-6,5	162	•					•		

Twin-skin roof and wall
Traditional build-up



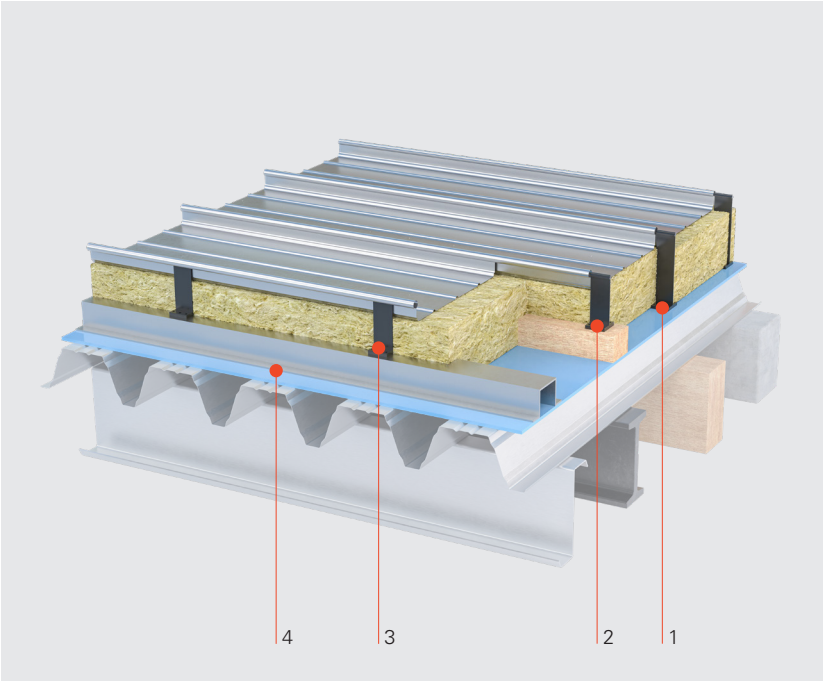
Fixing point

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 cladding”

Product	Page	Self-drilling		Self-tapping	1	2	3	4
		Drill point	FastTip®					
Stainless steel fasteners								
CXLW-4.8-A2/A4	44		•			•	•	
SLG-S-6.5-A2	60		•					•
SL2-S-5,5-A2/A4	58	•					•	
SX3-6.0-A2/A4	64	•			•			
SX5-5.5-A2/A4	66	•			•			
SXL2-6.3-A2/A4	86	•					•	•
SXL3-6.0-A2/A4	88	•						•
SXW-6.5-A2/A4	96	•				•		
TDA-S-6,5-A2/A4/R5	98	•			•	•		
TDB-S-6,3-A2/A4/R5	102			•	•			
TDC-S-7.1-A2	108			•	•			
Carbon steel fasteners								
CDL-4.8	116		•				•	
SD3-5.5	128	•			•			
SD6-5.5	132	•			•			
SL2-T-4.8	158	•					•	
SL3-H15-6.3	160	•						•
SW3-T-6.5	162	•				•		
Rivets								
BULB-TITE®	164							•

Twin-skin roof
Standing seam

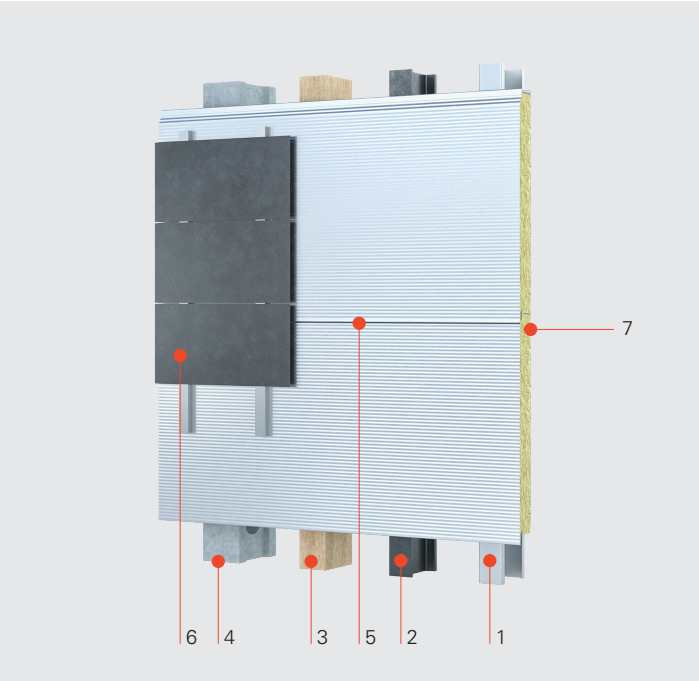


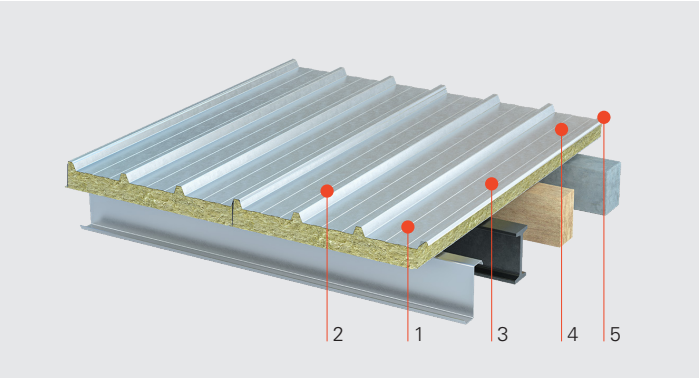
Fixing point	
1	Clip to metal deck
2	Clip to metal timber
3	Clip to metal profile
4	Metal profile to metal deck

Fastening of metal deck refer to page “Interior cladding”

Product	Page	Self-drilling		Self-tapping	1	2	3	4
		Drill point	FastTip®					
Stainless steel fasteners								
SLG-S-6.5-A2	60		•					•
SX3-6.0-A2/A4	64	•			•		•	
SXL2-6,3-A2/A4	86	•						•
SXL3-6.0-A2/A4	88	•						•
SXK2-6.0-A2	82	•			•	•		
SXK3-6.0-A2	84	•					•	
Rivets								
BULB-TITE®	166						•	•

Roof and wall
Sandwich panel

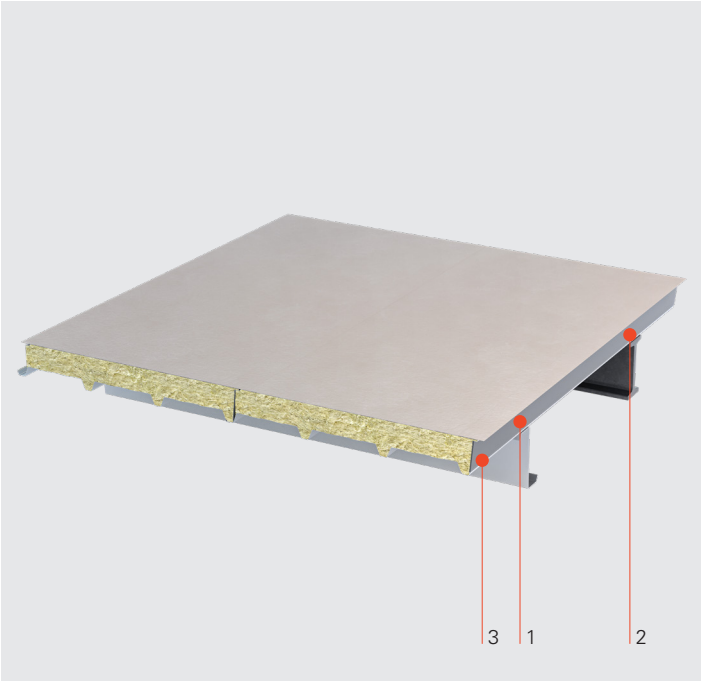




Fixing point	
1	Sandwich panel to metal profile
2	Sandwich panel to steel beam
3	Sandwich panel to timber
4	Sandwich panel to concrete
5	Overlap of sandwich panel
6	Carrier profile to sandwich panel
7	Stitching composite panel joints

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5	6	7
		Drill point	FastTip®								
Stainless steel fasteners											
CXLW-4.8-A2/A4	44		•						•		
MXC-7.5-A4	52			•				•			
SL2-S-5,5-A2/A4	58	•							•		
SLG-S-6.5-A2	60		•							•	
SX5-6.3-A4	68	•			•		•				
SXL2-6,3-A2/A4	86	•							•		
SXL3-6,0-A2/A4	88	•								•	
SX16-5.8-A4	72	•				•					
SXC5-6.3-A2/A4	74	•			•		•				
SXC16-5,8-A2/A4	78	•				•					
TDA-S-6,5-A2/A4/R5	98			•	•		•				
TDB-S-6,3-A2/A4/R5	102			•	•	•					
Carbon steel fasteners											
CDL-4.8	116		•						•		
MDC-7.5	120			•				•			
SDC5-6.3	146	•			•		•				
SDC14-5.5	150	•				•					
SL2-T-4.8	158	•							•		
CD-D12-6,3	114		•								•
Rivets											
BULB-TITE®	164								•	•	

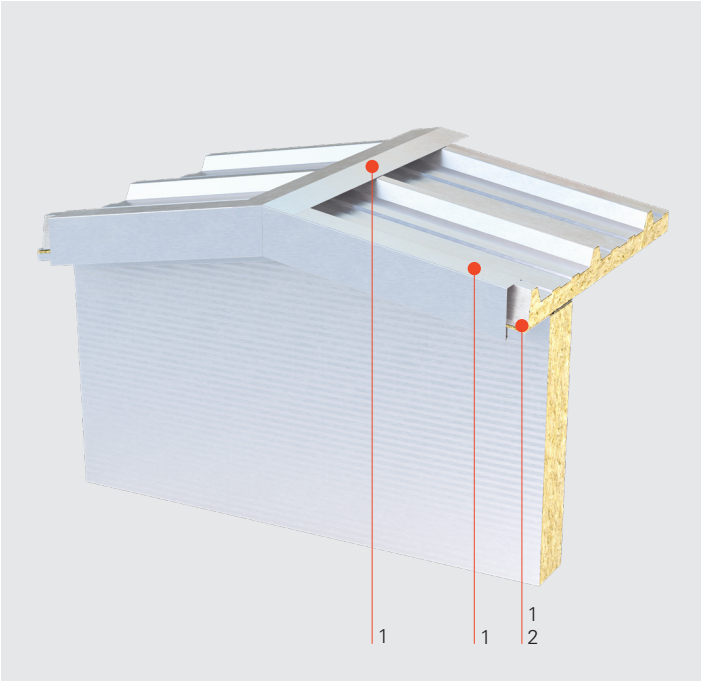
Roof
Single-ply panel

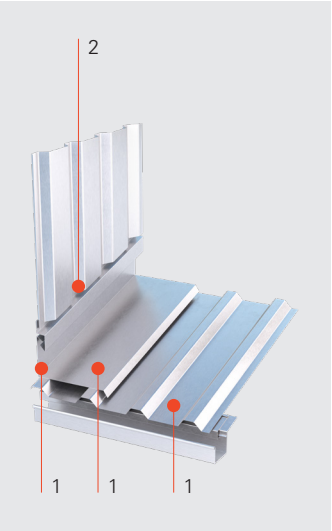


Fixing point	
1	Single-ply panel to metal profile
2	Single-ply panel to steel beam
3	Overlap of single-ply panel

Product	Page	Self-drilling		Self-tapping	1	2	3
		Drill point	FastTip®				
Carbon steel fasteners							
SDP3-D10-TC19-5.5	154	•			•		•
SDP14-D10-TC19-5.5	156	•				•	
Stainless steel fasteners							
SXP2-HT-SC19-5,5-A2	90	•					•
SXP5-HT-SC19-5,5-A2	92	•			•		•
SXP14-HT-SC19-5,5-A2	94	•				•	

Roof and wall
Flashings





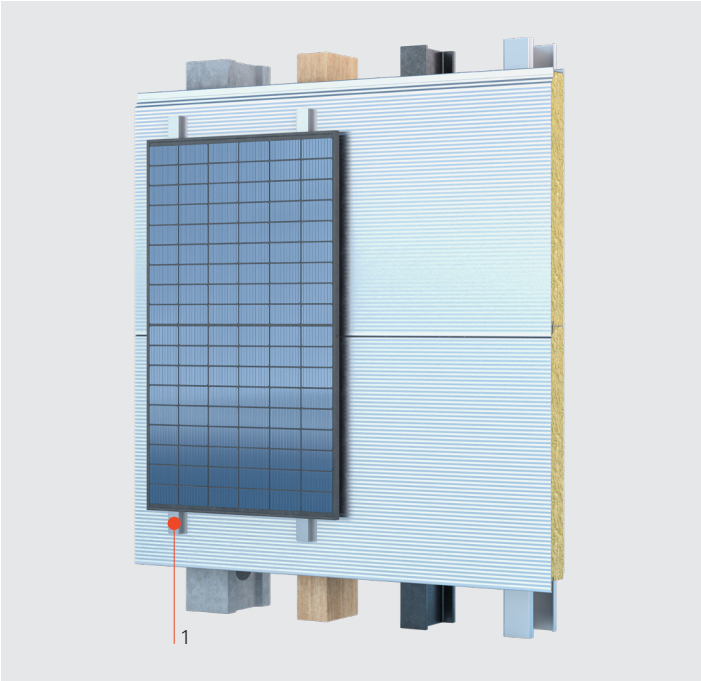


Fixing point

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®			
Stainless steel fasteners						
CXLW-4.8-A2/A4	44		•		•	•
CXLW-D10-4.8-A2/A4	44		•			•
SX2-D9-4,8-A2	62	•				•
SXL2-6.3-A2/A4	86	•			•	•
Carbon steel fasteners						
CDL-4.8	116		•		•	•
SL2-T-4.8	158	•			•	•
Rivets						
BULB-TITE®	164				•	•
PolyGrip®	166				•	•

Roof and wall
Solar



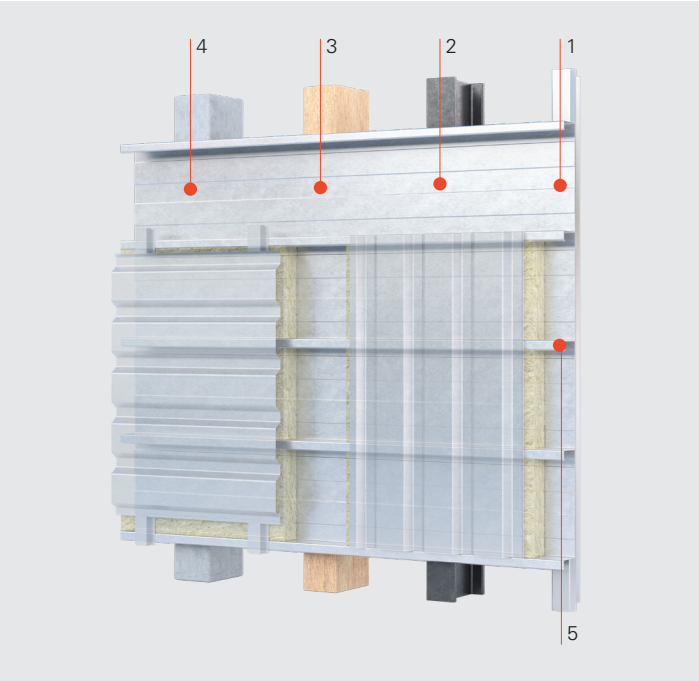


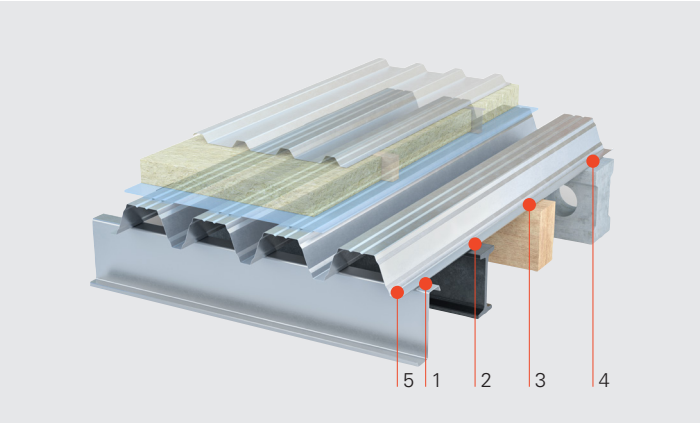
Fixing point

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®			
Stainless steel fasteners						
CX-6.0-A2	42		•		•	•
SLG-S-6.5-A2	60		•		•	•
Rivets						
BULB-TITE®	164				•	•

Roof and wall
Liner sheet & metal deck





Fixing point

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

Product	Page	Self-drilling		Self-tapping	1	2	3	4	5
		Drill point	FastTip®						
Stainless steel fasteners									
CXLW-4,8-A2/A4	44		•						•
MMS-plus-A4	48			•				•	
SL2-S-5,5-A2/A4	58	•							•
SX3-6,0-A2/A4	64	•			•				
SX5-5,5-A2/A4	66	•			•				
SX14-5,5-A2/A4	70	•				•			
SXW-6,5-A2/A4	96	•					•		
Carbon steel fasteners									
CDM-4.8	118		•						•
MMS-plus	124			•				•	
SD6-H15-E11-5.5	134	•			•				
SD14-H15-E11-5.5	138	•				•			
SD20-H15-E11-5.5	144	•				•			
SL2-T-4.8	158	•							•
SL3-H15-6.3	160	•			•				•

Sealing washers

Sealing washers consist of EPDM elastomer and a metal outer-ring. They have two main tasks; sealing of the connection and distribution of occuring loads. The use of the weather resistant EPDM elastomer provides long-term durable sealing.

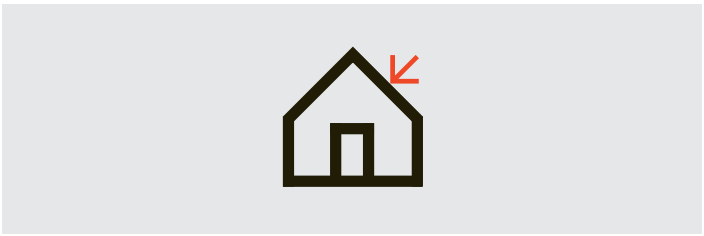
Ethylen-Propylen-Dien-Monomer (EPDM) is a high-quality elastomer with high elasticity, high weather resistance and long durability. The seal has a soft hardness of approximately 60 Shore A and is adapted to the fastener, thus ensuring a perfect sealing to the construction component.

The metal washers are made of different materials, usually adapted to the material of the fastener. The thickness is 1 mm and offers a high stability for good load-bearing capacity. In addition, this ensures a correct installation of the sealing washer without inversion of the metal washer.

Washer size recommendation



Wall application
Ø ≥ 16 mm: Fastening of profile sheets and sandwich panels
Ø ≥ 14 mm: Fastening of overlaps and flashings



Roof application
Ø ≥ 19 mm: Fastening of profile sheets and sandwich panels
Ø ≥ 14 mm: Fastening of overlaps and flashings

For special applications, the washer size has to be selected accordingly (e.g. 29 mm for fastening of rooflights).

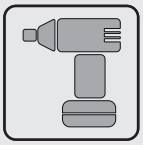




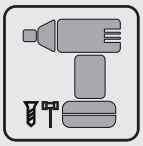
Installation instructions

The compliance with certain installation conditions is a prerequisite for ensuring a smooth and correct installation of a fastener.

Installation tools

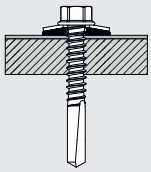


Screwdriver
Fastening onto substructure components made of metal or timber requires a suitable screwdriver with speed 1'200–2'000 rpm and torque ≥ 10 Nm. Recommended is a cordless screwdriver with torque adjustment, ergonomic in-line grip, torque clutch, quick-release chuck HEX¼" and with optional available depth stop adapter.

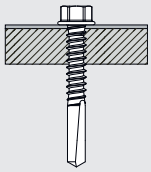


Impact driver
Fastening onto substructure components made of concrete requires a suitable impact driver with speed 1'200–2'000 rpm and torque ≥ 200 Nm. The required torque depends on the fastener diameter and length. The recommendation is a cordless impact driver with torque adjustment and quick-release chuck HEX¼".

Tightening torque

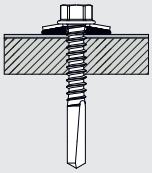


Fasteners with sealing washer
Fasteners with sealing washers require appropriate tightening torque to ensure a correct installation of the sealing washer. Under tightened can lead to leaks, while over tightened can lead to inversion of the metal washer, negatively impacting the quality of the seal. The use of a depth stop adapter is therefore recommended for a repeatable correct installation.

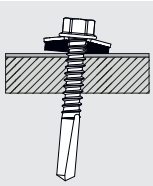


Fasteners without sealing washer
For fasteners without sealing washers, particular care must be taken to ensure that the fastener is not tightened too strong. A too strong tightening can lead to overwinding of the fastener thread, predamaging of the fastener material or fastener breakage. The use of our socket SOK-IT® with torque limitation is highly recommended for repeatable correct installations (see Tools and Accessories).

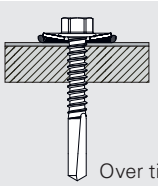
Exception: Fasteners with free-spin zone do not require torque control.



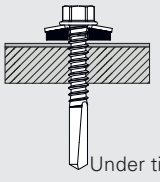
Correct



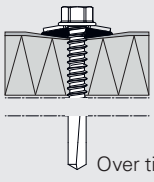
Inclined



Over tightened

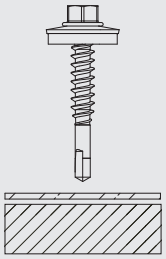


Under tightened

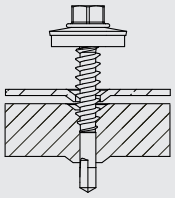


Over tightened

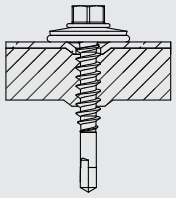
Installation of self-drilling fasteners



Drilling
1’200–2’000 rpm, load 20-30 kg

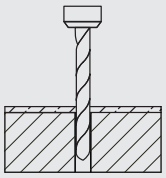


Screwing-in

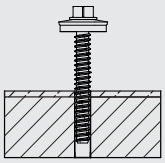


Tightening

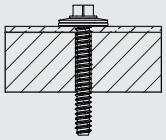
Installation of self-tapping fasteners



Pre-drilling
HSS drill bit, specified Ø

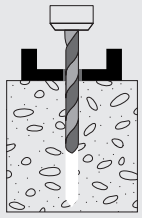


Screwing-in

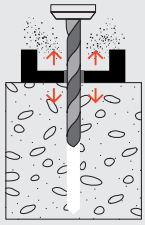


Tightening

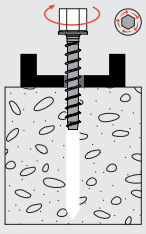
Installation of concrete fasteners



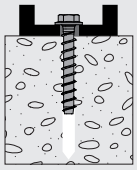
Pre-drilling,
SDS drill bit, specified Ø mm



Ventilation

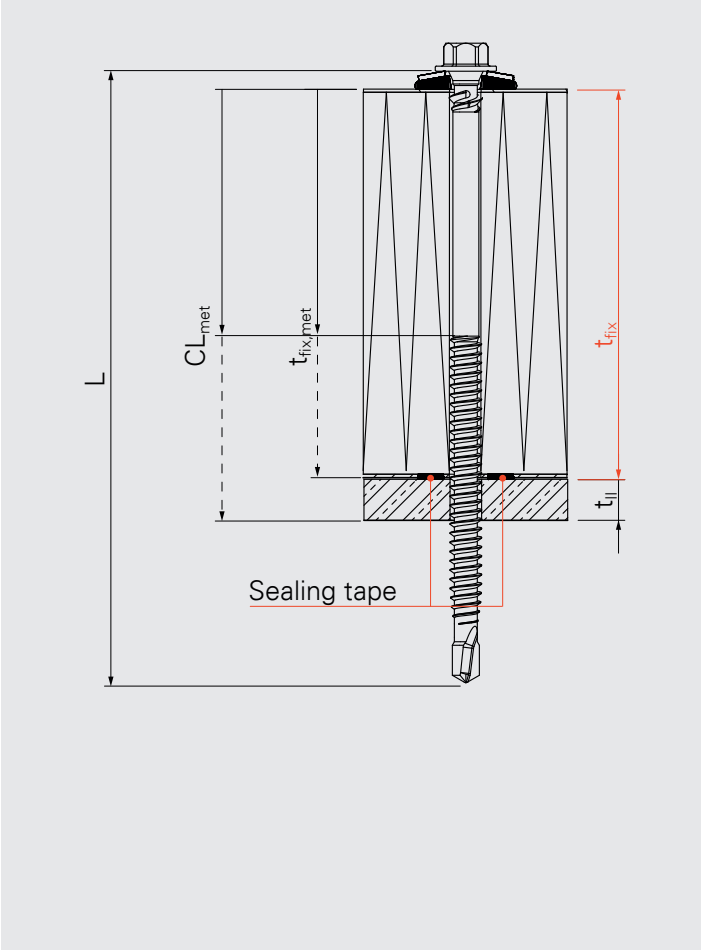


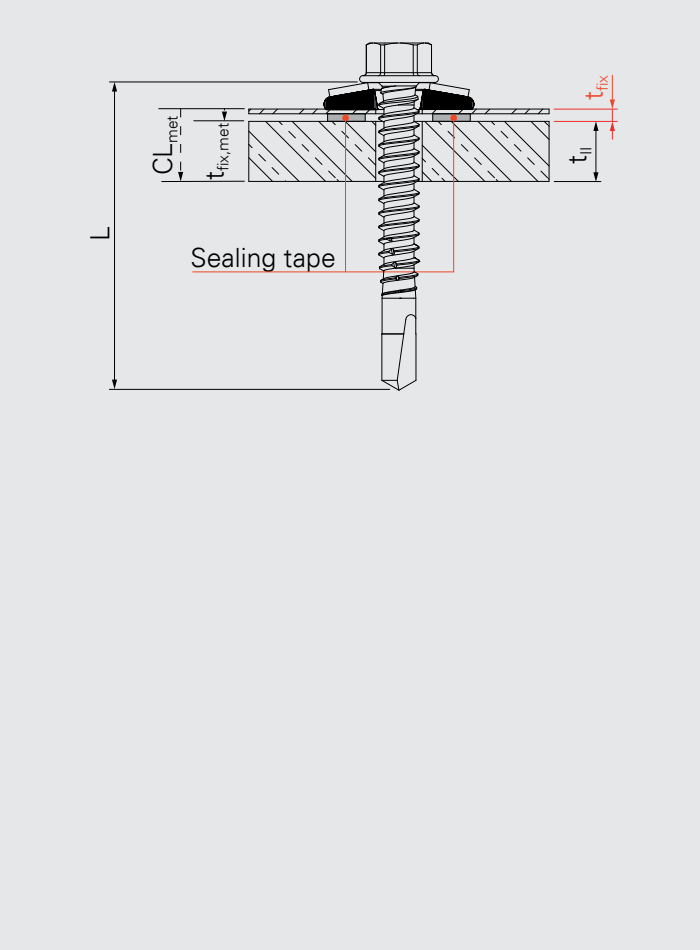
Screwing-in



Tightening

Fastening onto metal
Clamping range CL_{met}
Fixing thickness $t_{fix,met}$





Fastener selection

The following conditions have to be met:

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

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

The following condition has to be met:

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

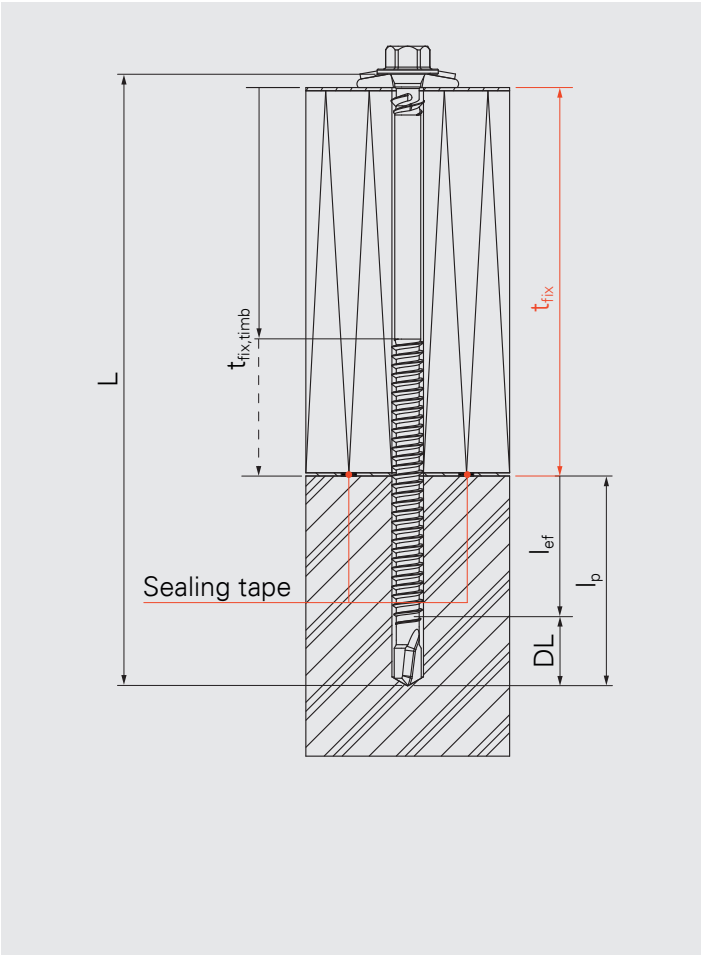
Abbreviations

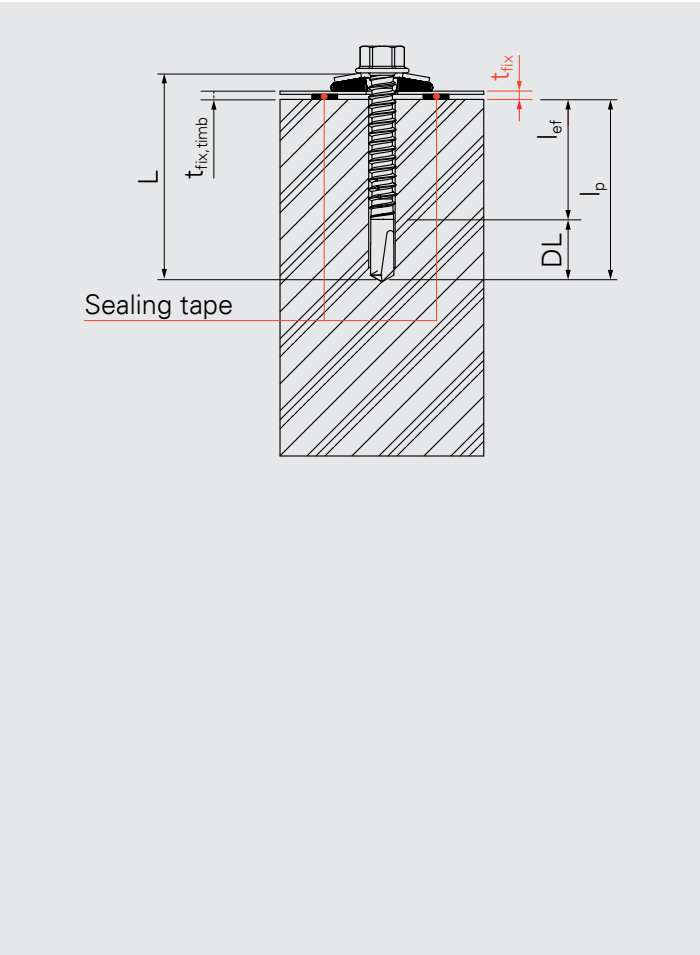
t_{fix}	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, …)
$\mathbf{t_I}$	Thickness of component I
$\mathbf{t_{II}}$	Thickness of component II
$\mathbf{CL_{met}}$	Clamping range of the fastener in which component II has to be located
$\mathbf{t_{fix,met}}$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

Notes

- $t_{fix,met}$ is given by the minmum 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 tII with regards to the length selection of the fastener
- Component tolerances have to be taken into account

Fastening onto timber
Fixing thickness $t_{fix,timb}$





Fastener selection

The following condition has to be met:

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

Abbreviations

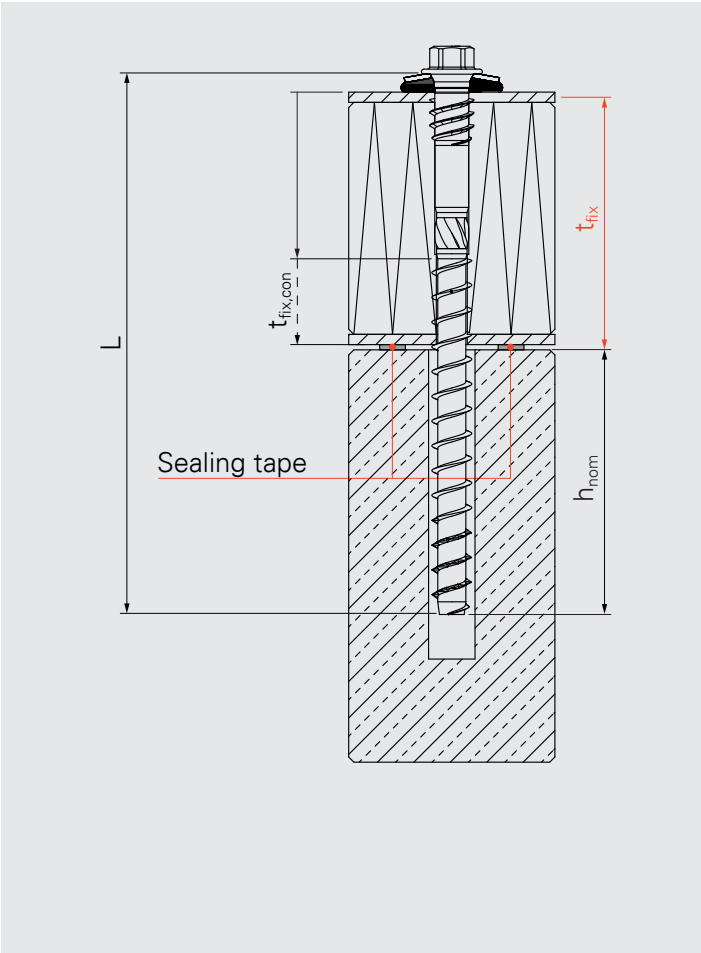
t_{fix}	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, …)
t_l	Thickness of component l
l_p	Screw-in depth in timber
l_{ef}	Screw-in depth in timber without drill point
$t_{fix,timb}$	Total thicknesses that can be fixed onto timber by the fastener
DL	Length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

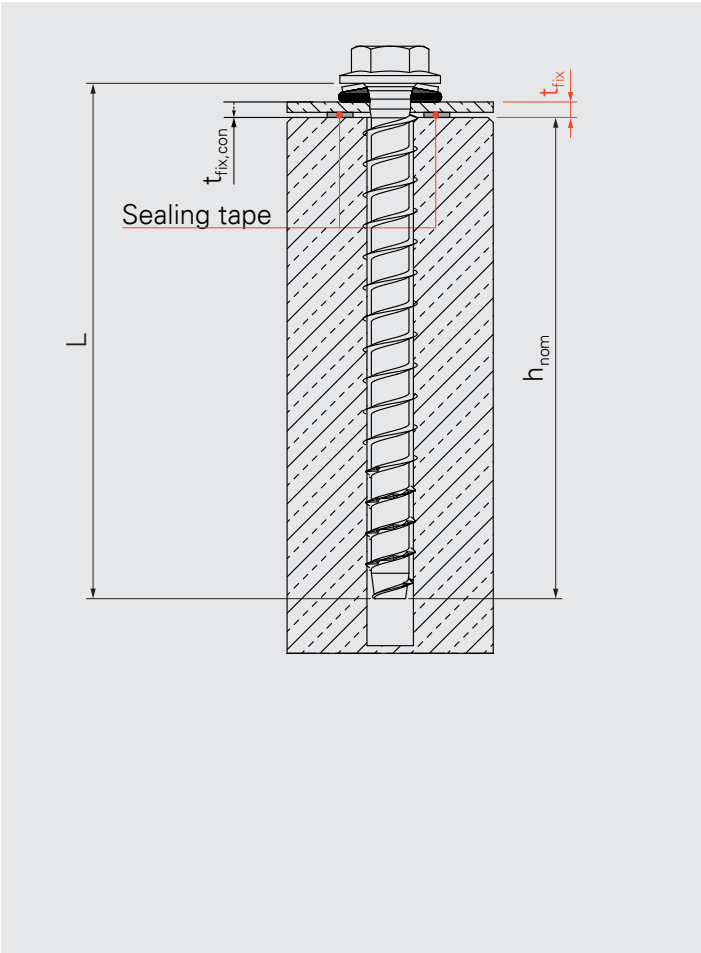
Notes

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

[1)] Approximate thickness of the sealing washer, to be considered only if the fastener has a sealing washer

Fastening onto concrete
Fixing thickness $t_{fix,con}$





Fastener selection

The following condition has to be met:

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

Abbreviations

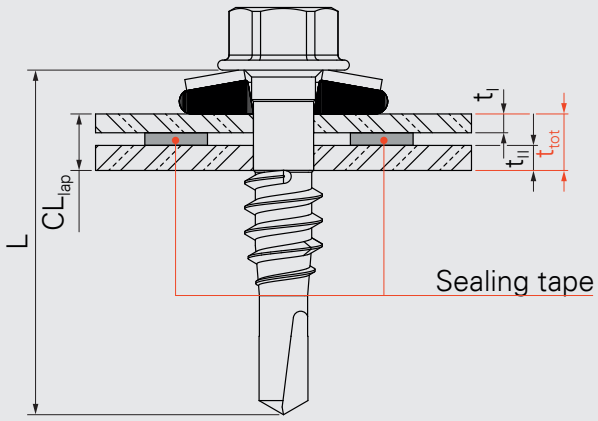
t_{fix}	Total thickness to be fastened (incl. sealing tape, saddle washer, load distribution plate, …)
t_l	Thickness of component l
h_{nom}	Embedment depth in concrete
$t_{fix,con}$	Total thicknesses that can be fixed onto concrete by the fastener
L	Length of the fastener

Notes

- $t_{fix,con}$ is given by the minmum required and maximum possible embedment depth of the fastener
- $t_{fix,con}$ indicates partly more than one range what results from more than one specified minimum embedment depth (e.g. $t_{fix,con}$ = 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: hnom = L - 3[1] - t_{fix}
- For higher requirements on minimum embedment depth the suitable fastener length can be determined as follows: $L \geq 3^{1)} + t_{fix} + h_{nom}$
- Component tolerances have to be taken into account

[1] 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

Product codes

SXC5-L12-S19-6.3×140-A4-...



1 Type	Special features	Material	Code
Self-drilling fastener	Drill point	Stainless steel (Bimet)	SX[1)]
		Carbon steel/full stainless steel	SD[2)]
	Fast Tip®	Bimet	CX
		Carbon steel/full stainless steel	CD
Self-tapping fastener	–	Full stainless steel	TD..-S
		Carbon steel	TD..-T
Concrete fastener		Stainless steel (Bimet)	MX
		Carbon steel	MD

[1)]Partly old code in use (S...-S)
[2)]Partly old code in use(S...-T)

2 Design	Special features	Main thread	Code
Self-drilling fastener	–	Metal	–
		Timber	W
	Support thread	Metal	C
		Timber	CW[1)]
	Free-spin zone	Metal	M
	Free-spin zone, cut-off thread-end		L
		Metal/timber	LW
	Shank wings	Metal	CF
		Timber	CFW
	Shank collar, support thread	Metal	D
	Shank knurl, support thread		RT
	Head cone	Metal/timber	K
	Head knurl	Metal	P
Self-tapping fastener	–		B
	Thread tip		C
		Metal/timber	A
Concrete fastener	–	Concrete	–
	Support thread		C

[1)]Partly old code in use (TW)

3 Drilling capacity (optional)	Code
Drilling capacity into steel	mm

4 Head	Code
Hexagon head	–
Hexagon head with flange, Ø 15 mm	H15
Irius® head, Ø 12 mm	L12
Pan head	D mm

SXC5-L12-S19-6.3×140-A4-...



5 Washer (optional)	Special features	Code
Damping ring	EPDM, Ø 11 mm	E11
Sealing washer	Stainless steel A2, EPDM-seal	S mm
	Stainless steel A4, EPDM-seal	S mm/A4
	Carbon steel galvanized, EPDM-seal	T mm
	Aluminium, EPDM-seal	A mm
Curved sealing washer		AV mm
Cutting disc	Stainless steel A2, Ø 19 mm	SC19
	Carbon steel galvanized, 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, Ø 25 mm, EPDM-seal	BAZ

6 Dimension	Code
Diameter × Length	mm × mm

7 Material / Coating	Code
Carbon steel with Durocoat®	–
Stainless steel A2	A2
Stainless steel A4	A4
Stainless steel 1.4547	R5

8 Collated (optional)	Code
Plastic strips for SFS ErgoDek®	MED
Plastic strips for SFS QuikDrive®	MQD

9 Painting (optional)	Code
RAL color	RAL no
NCS color	NCS-S no
BS color	BS no

10 Packaging	Code
Cardboard box	–
Plastic cube	PC
Plastic tube	PT
Plastic bag	PB

This product code description does not inclued fastener MMS-plus and MMS-plus-A4

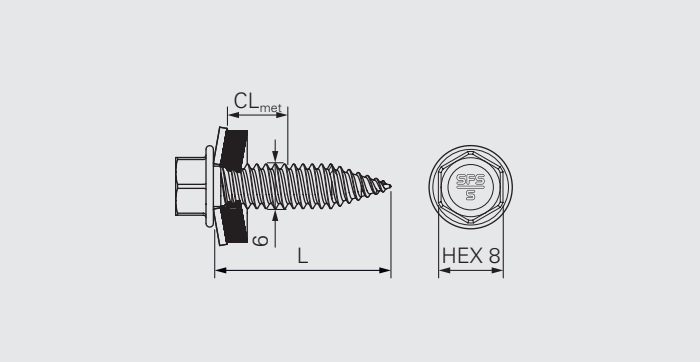




Stainless steel fasteners

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_I)		Component 2 (t_{II})	
Steel[1)]	≥1.0	Steel	0.5–1.25
Aluminium[1)]	≥1.5	Steel	2×0.5–1.0
		Aluminium	0.7–1.5

[1)] Clearance hole Ø 5.5–6.5

Fastener material

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

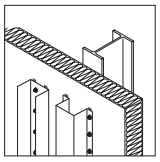
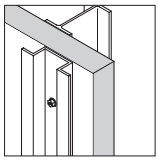
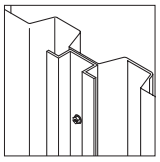
Features and Benefits

- 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

CE 24
ETA-23/1026

BRE Global Verified EPD

Fastener in A2 onto steel and aluminium

Product code	PU	L	CL_{met}	S16
CX-S16-6.0×25-A2	250	25	0–8	1801601
CX-S16-6.0×38-A2	250	38	0–20	1808619

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

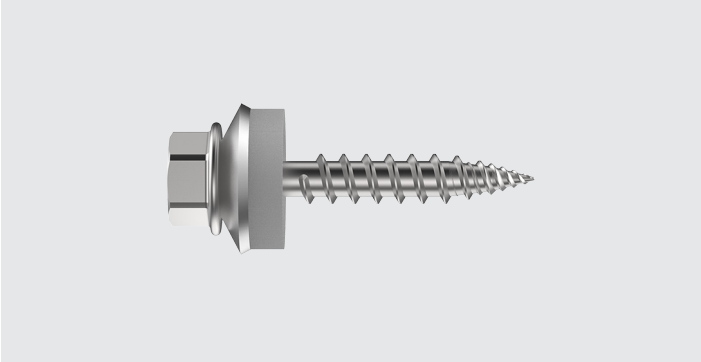


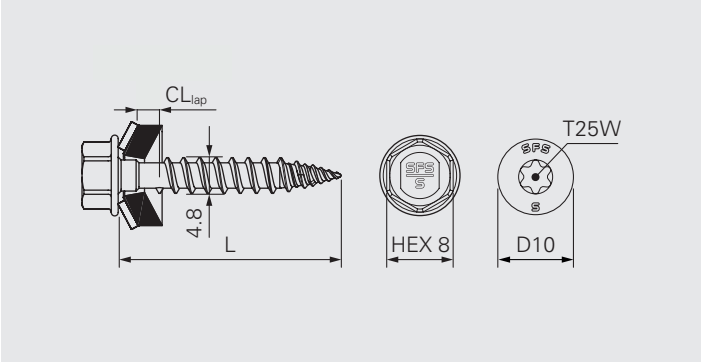


Accessories

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

CXLW-4.8-A2/A4







Description

Self-drilling fastener made of stainless 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
- Fastening of profile sheets onto timber

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.4–1.0	Steel	0.4–1.0
Steel	2×0.4–0.75	Steel	2×0.4–0.75
Aluminium	0.5–1.5	Aluminium	0.5–1.5
		Timber	$l_p \geq 23$

Condition: Total thickness within CL_{lap}

Fastener material

Austenitic stainless steel A2/A4, hardened tip

Sealing washer: Aluminium, EPDM-seal

Approvals

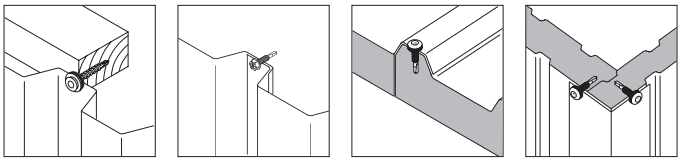
CE 23
ETA-10/0198

FM APPROVED

BRE Global Verified EPD

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
- No scratches on painted metal surfaces thanks to sharp FastTip®
- Hybrid Fastener suitable for fastening onto metal & Timber subconstruction



Fastener in A2 onto steel, aluminium and timber

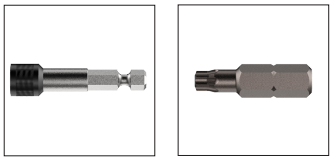
Product code	PU	L	CL_{lap}	$t_{fix, timb}$	A11	AV14	AV16
CXLW-AV14-4,8×28-A2	500	28	0.8–3.5	0–2	N/A	1659057	1749230
CXLW-D10-A11-4,8×28-A2			0.8–2.5		1747805	N/A	N/A

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CLlap and tfix, timb . Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

Fastener in A4 onto steel, aluminium and timber

Product code	PU	L	CL_{lap}	$t_{fix, timb}$	A11	AV14	AV16
CXLW-AV14-4,8×28-A4	500	28	0.8–3.5	0–2	N/A	1747773	1748209
CXLW-D10-A11-4,8×28-A4			0.8–2.5		1748223	N/A	N/A

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CLlap and tfix, timb . Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

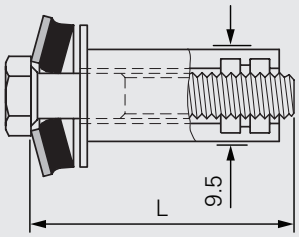


Accessories

Product description	PU	Insert drive	Recess	L	
T25W-25-HEX¼"	1	HEX¼"	T25W	25	7662
E308-¼"-50			HEX8	34	1646160
ZA 1/4" drive bar		¼"	⅜"	50	7645

LL-S-9.5-A2/A4





Description

Clamping grommet fastener for securing rooflights

Application

Fastening of GRP Rooflights

Fastening of PVC Rooflights

Replacement of overdriven fastener in profile sheets, sandwich panels

Fastener material

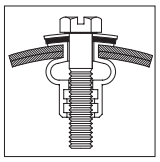
Austenitic stainless steel A2/A4

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

Grommet: EPDM

Features and Benefits

- GRP/PVC grommet fastener
- Securely connects materials without overdriving and damaging the sheet
- Requires 9.5mm pilot hole



Fastener in stainless steel A2

Product code	PU	L	CLap	
LL-S-9,5 X 25-A2	100	25	2-15	1669228
LL-S-S16-9,5 X 25-A2	100	25	2-15	1107880
LL-S-9,5 X 38-A2	100	38	17-28	1669243
LL-S-S16-9,5 X 38-A2	100	38	17-28	1669241
LL-S-S19-9,5 X 38-A2	100	38	17-28	1669242

Product code	PU	L	CLap	S16	S19
LL-S-S16/A4-9,5 X 25-A4	100	25	2-15	1784049	1818313

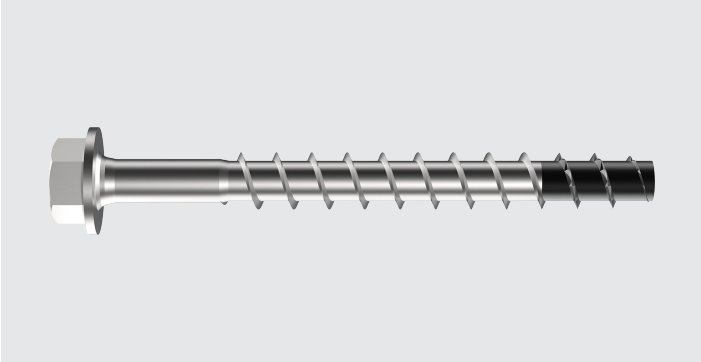


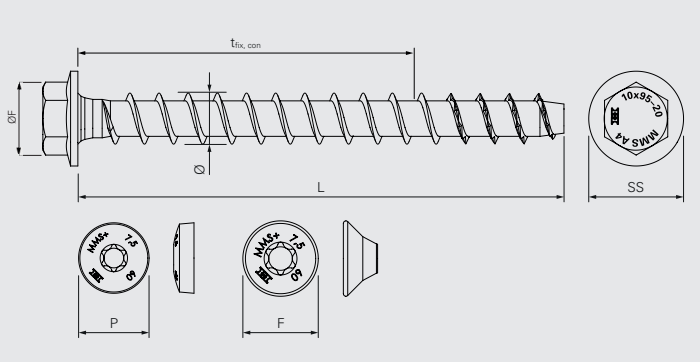
Accessories/Ancillaries

Product code	PU	
ZA1/4" drive bar*	1	7645
Socket E380*	1	8018
Socket E480-1/4"-50	1	1646160

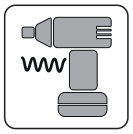
*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

MMS-plus-A4









Description

Self-tapping fastener made of stainless steel

Application

Fastening of metal decks onto concrete
Fastening of liner trays onto concrete
Fastening of metal plates, profiles, brackets onto concrete
Fastening of timber battens 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

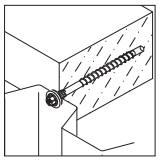
Approvals

CE 21
ETA-15/0784

DIBt Zulassung liegt vor

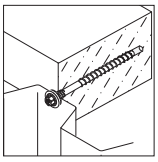
Features and Benefits

- 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



Fastener in A4 onto concrete

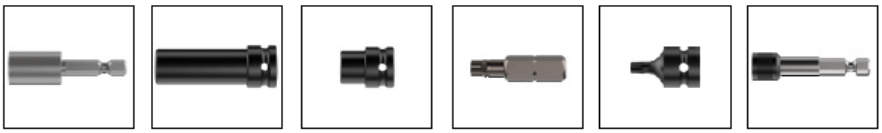
Product code	PU	L	$t_{fix, con}$	Ø F/P/SS	Fastener drive	Head Type	
MMS-plus-F-C14-7,5×40-A4	50	40	–	14	T30	Counter sunk head	1205150
MMS-plus-F-C14-7,5×45-A4		45	0–5				1205107
MMS-plus-F-C14-7,5×55-A4		55	0–15				1205151
MMS-plus-F-C14-7,5×65-A4		65	0–10/25				1205152
MMS-plus-F-C14-7,5×75-A4		75	0–20/35				1205108
MMS-plus-F-C14-7,5×85-A4		85	0–10/30/45				1205109
MMS-plus-F-C14-7,5×95-A4		95	0–20/40/55				1205121
MMS-plus-F-C14-7,5×105-A4		105	0–30/50/65				1205110
MMS-plus-F-C14-7,5×125-A4		125	0–50/70/85				1205111
MMS-plus-F-C17-10,0×65-A4	25	65	–	17	T40	Counter sunk head	1205153
MMS-plus-F-C17-10,0×80-A4		80	0–10				1205154
MMS-plus-F-C17-10,0×90-A4		90	0–5/20				1205155
MMS-plus-F-C17-10,0×100-A4		100	0–15/30				1205156
MMS-plus-F-C21-12,0×95-A4	25	95	–	21	T50	Counter sunk head	1205157
MMS-plus-F-C21-12,0×105-A4		105	0–5				1205158
MMS-plus-F-C21-12,0×120-A4		120	0-5/20				1205159
MMS-plus-F-C21-12,0×130-A4		130	0–15/30				1205160
MMS-plus-P-D14-7,5×40-A4	50	40	–	14	T30	Panhead	1205122
MMS-plus-P-D14-7,5×45-A4		45	0–5				1205118
MMS-plus-P-D14-7,5×55-A4		55	0–15				1205119
MMS-plus-P-D14-7,5×65-A4		65	0–10/25				1205120
MMS-plus-P-D14-7,5×75-A4		75	0–20/35				1205104
MMS-plus-P-D14-7,5×85-A4		85	0–10/30/45				1205105
MMS-plus-P-D14-7,5×95-A4		95	0–20/40/55				1205106
MMS-plus-P-D14-7,5×115-A4		115	0–40/60/75				1205161
MMS-plus-SS-7,5×40-A4	50	40	–	15	HEX10	Hexagon Head	1205141
MMS-plus-SS-7,5×45-A4		45	0–5				1205117
MMS-plus-SS-7,5×55-A4		55	0–15				1205142
MMS-plus-SS-7,5×65-A4		65	0–10/25				1205143
MMS-plus-SS-7,5×75-A4		75	0–20/35				1205112
MMS-plus-SS-7,5×85-A4		85	0–10/30/45				1205113
MMS-plus-SS-7,5×105-A4		105	0–30/50/65				1205114
MMS-plus-SS-10,0×65-A4	25	65	–	20	HEX13	Hexagon Head	1205144
MMS-plus-SS-10,0×75-A4		75	0–5				1205145
MMS-plus-SS-10,0×85-A4		85	0-15				1205146



Fastener in A4 onto concrete

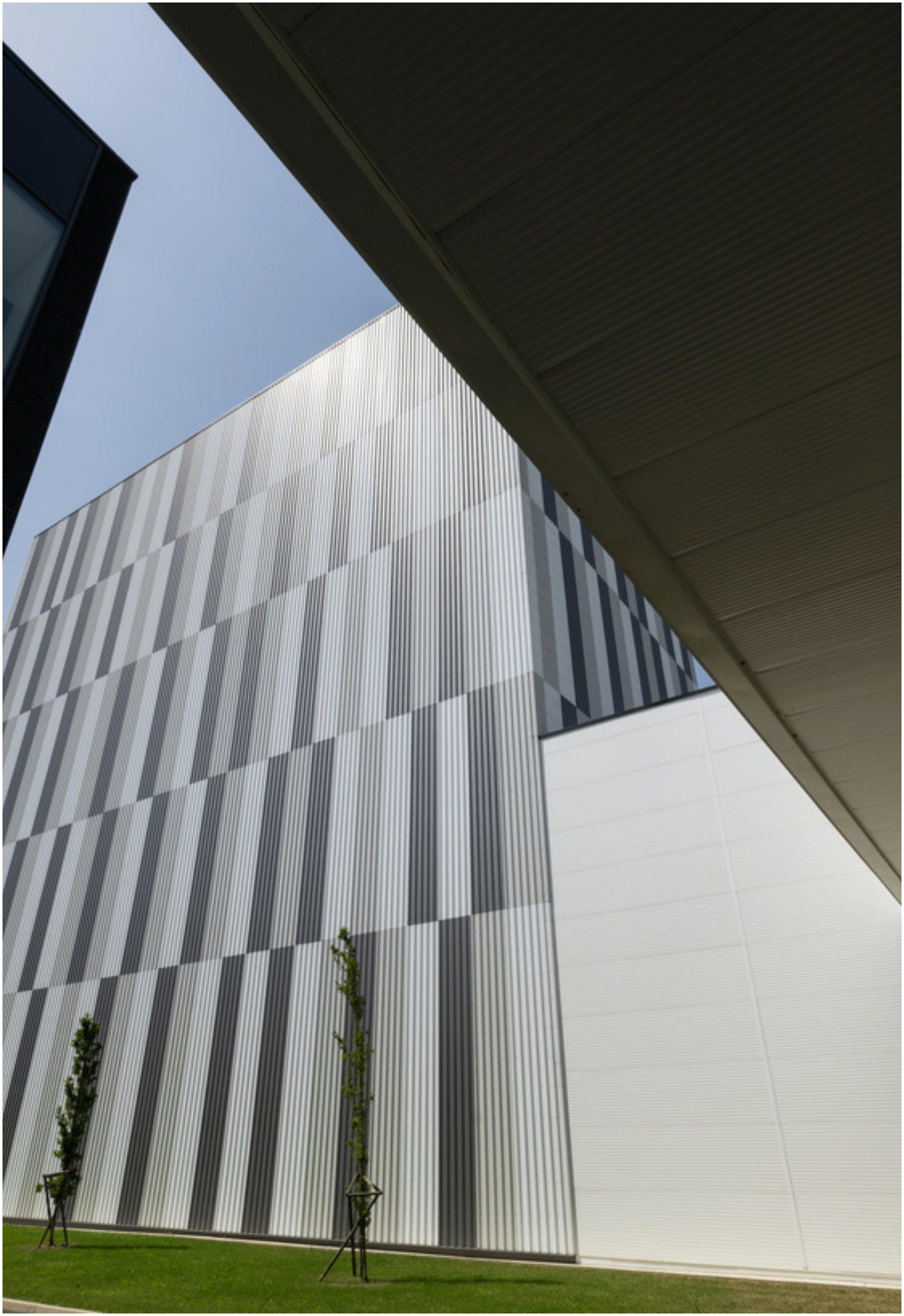
Product code	PU	L	$t_{fix, con}$	Ø F/P/SS	Fastener drive	Head Type	
MMS-plus-SS-10,0×95-A4	25	95	0–10/25	20	HEX13	Hexagon Head	1205147
MMS-plus-SS-10,0×105-A4		105	0–20/35				1205148
MMS-plus-SS-12,0×95-A4	25	95	–	23	HEX15	Hexagon Head	1205149
MMS-plus-SS-12,0×105-A4		105	0–5				1205115
MMS-plus-SS-12,0×120-A4		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 $t_{fix, con.}$

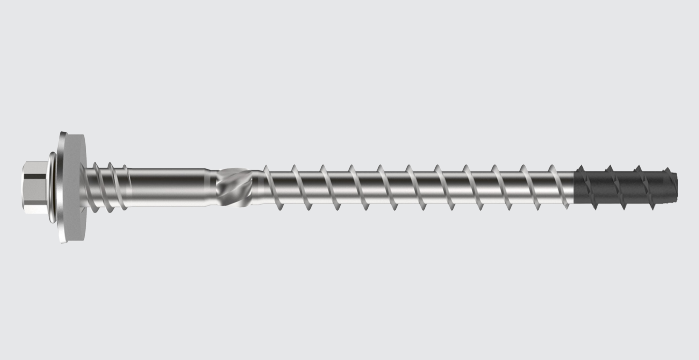


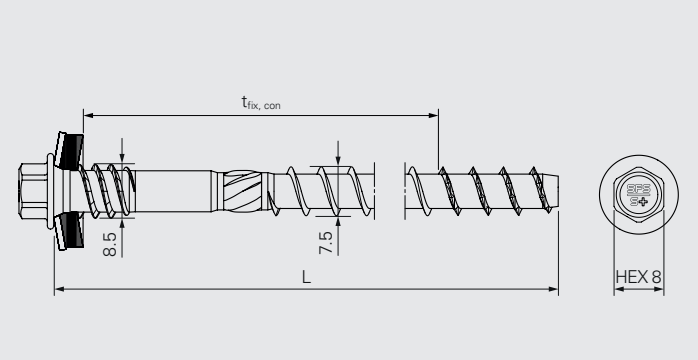
Accessories/Ancillaries

Product code	PU	Drive	Head drive	Length	
E313-1/4"-50	1	¼"	HEX13	50	508029
E416-1/2"-38	1	½"	HEX16	38	1389740
10mm Magnetic Hex Socket	1	¼"	HEX10	—	1237597
T30-25-HEX1/4"	10	¼"	T30	25	24010
T40-25-HEX1/4"	10	¼"	T40	25	769474
Bit holder ZA¼"	1	¼"	—	58	1162306
T45-40-½"	10	½"	T45	40	1489157
T50-40-½"	10	½"	T50	40	1489158
T30-40-½"	10	½"	T30	40	1489154
T40-40-½"	10	½"	T40	40	1489155

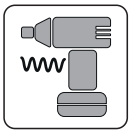


MXC-7.5-A4









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_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Concrete	h_{nom} ≥65

Pre-drill Ø 6.0

[1)] Cover sheet in case of sandwich panel

Fastener material

Austenitic stainless steel A4, hardened tip

Sealing washer: Austenitic stainless steel A4, EPDM-seal

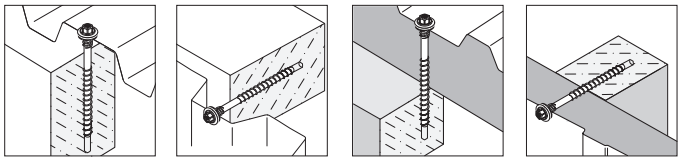
Approvals

FM APPROVED

CE 21 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 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

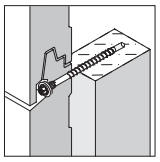


Fastener in A4 onto concrete

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

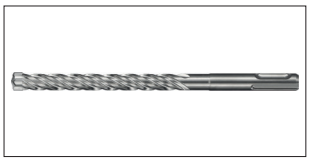
Without approval



Fastener in A4 onto concrete

Product code	PU	L	$t_{fix, con}$	no washer
MXC-7,5×95-A4	100	95	23–30	1596782
MXC-7,5×115-A4		115	40–50	1596801
MXC-7,5×135-A4		135	60–70	1596811
Recommended torque force 200-300 Nm				
MXC-7,5×155-A4	100	155	80–90	1596820
MXC-7,5×175-A4		175	100–110	1596891
MXC-7,5×195-A4		195	120–130	1596957
MXC-7,5×215-A4		215	140–150	1597026
Recommended torque force 250-400 Nm				
MXC-7,5×235-A4	100	235	160–170	1598675
MXC-7,5×255-A4		255	180–190	1598720
MXC-7,5×275-A4		275	200–210	1598728
MXC-7,5×295-A4		295	220–230	1598795
MXC-7,5×315-A4		315	240–250	1598816
Recommended torque force 350-600 Nm				
MXC-7,5×335-A4	100	335	260–270	1598972
MXC-7,5×355-A4		355	280–290	1599215
MXC-7,5×375-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 $t_{fix, con.}$







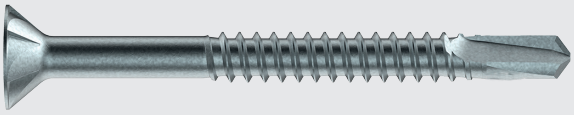
Accessories

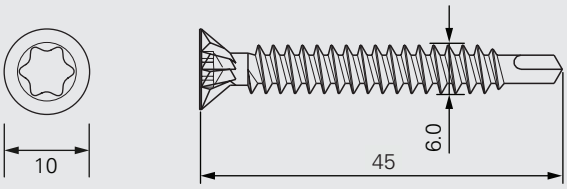
Product description	Drive	Head Drive	PU	D	L	WL	FL	
SDS-6x215/150-4C	–	–	1	6	215	210	150	1487583
SDS-6x310/250-4C					315		250	1487584
SDS-6x515/455-4C					515	515	200	1608141
E308-¼"-50	¼"	HEX8	1	–	50	–	–	1646160
E508-½"-40	½"				40			1648380

WL = Working Life
FL = Flute Length



SD2-S-6.0-A2









Description

Self-drilling fastener made of stainless steel with countersunk head.

Application

Fastening of 25mm tiling batten to steel

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Timber	10.0–25.0	Steel	0.4–0.7	25.7

Fastener material

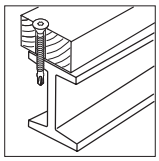
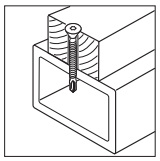
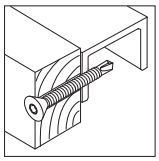
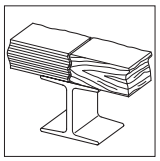
Austenitic stainless steel A2

Features and Benefits

- Flush-mounted installation

Approvals

-

Fastener in stainless steel onto steel

Product code	PU	L	CL	
SD2-S-S10/T20-6x45	100	45	0-26	931985

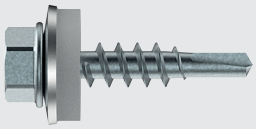
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

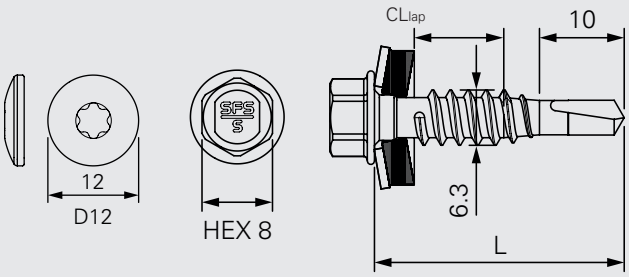



Accessories/Ancillaries

Product code	PU	Drive	Head drive	Length	
T20-25-HEX1/4"	1	¼"	T20	25	769471
ZA1/4" bit holder			¼"	58	1162306

SL2-S-5.5-A2/A4









Description

Self-drilling fastener made of stainless steel with free-spin zone and 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_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Steel	0.40–1.50	Steel	0.40–1.50	2.50
Aluminium	0.50–1.50	Aluminium	0.50–1.50	2.50

Fastener material

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

Features and Benefits

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

Approvals

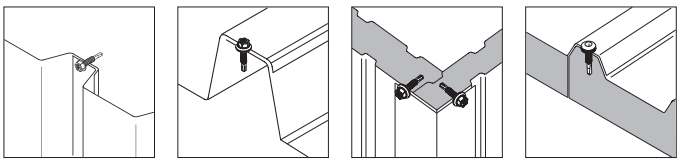
CE 21
ETA-10/0198

BRE Global Verified EPD

FM APPROVED

Documentation

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



Fastener in A2 onto steel and aluminium

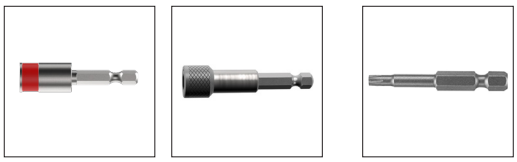
Product code	PU	L	CL_{lap}		S14	S16	S19
SL2-S-S14-5,5x25-A2	100	25	0.80–2.50		1486245	1659401	1133480
SL2-S-D12-S14-5,5x25-A2	100	25	0.80–2.50		1243422	-	-

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

Fastener in A4 onto steel and aluminium

Product code	PU	L	CL_{lap}	S14
SL2-S-S14/A4-5,5x25-A4	100	25	0.80–2.50	1585156
SL2-S-D12-S14/A4-5,5x25-A4	100	25	0.80–2.50	1594428

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



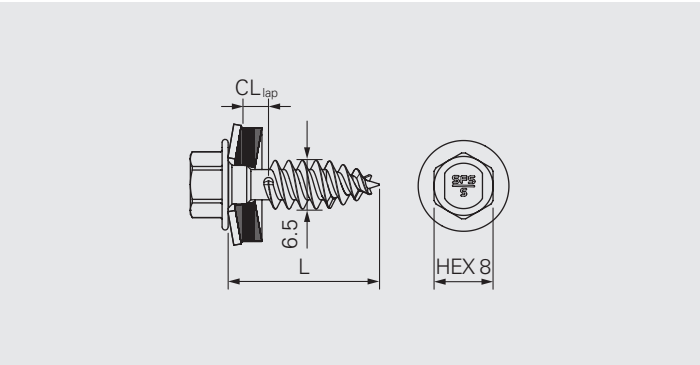
Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA1/4" drive bar	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308-1/4"-50	1	¼"	HEX8	50	1646160
Bit holder ZA¼"	1	¼"	¼"	58	1162306
T20-25-HEX¼"	1	¼"	T20	25	769471
T20-70-HEX¼"	1	¼"	T20	70	23486

*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

SLG-S-6.5-A2











Description

Self-drilling fastener made of stainless steel with FastTip®, 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_I)		Component 2 (t_{II})	
Steel[1)]	≥1.0	Steel	0.4–1.25
Aluminium[1)]	≥1.5	Steel	2 x 0.4 - 2 x 1.0

Condition: Total thickness within CL_{lap}, [1)]Clearance hole Ø 6.5–7.0

Fastener material

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

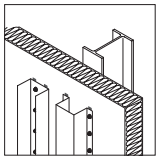
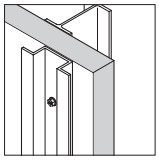
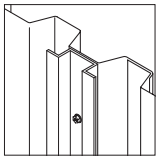
Features and Benefits

- 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

CE 23
ETA-10/0198

BRE Global Verified EPD

Fastener in A2 onto steel

Product code	PU	L	CL_{lap}	Pre-drill Ø	no washer	S14	S16
SLG/2-5-S-6,5×20	250	20	2–5	6.50–7.0	1468117	–	–
SLG/4-6-S-S16-6,5×24	1000	24	4–6	6.50–7.0	–	–	1618935

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

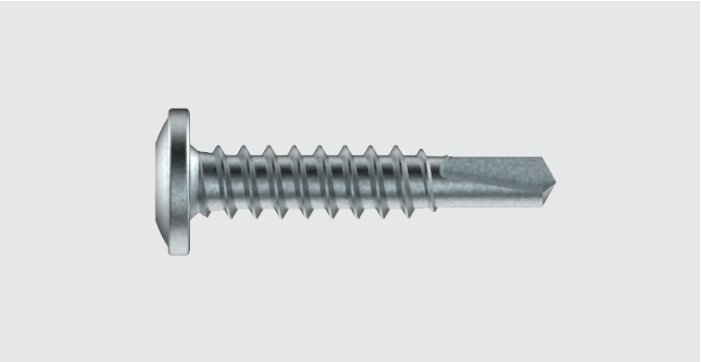


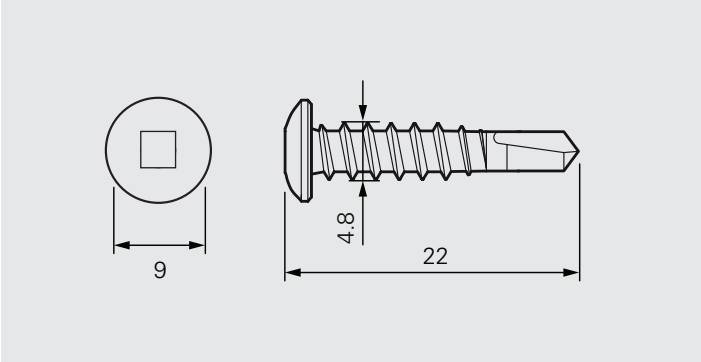


Accessories

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

SX2-D9-4.8-A2







Description

Self-drilling fastener made of stainless steel with SR1 drive.

Application

Fastening to thin steel sheets.

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Steel	0.50–0.70	Steel	0.45–0.70	1.4

Fastener material

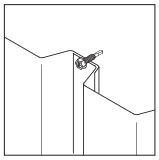
Austenitic stainless steel A2, hardened tip

Features and Benefits

- Self drilling fastener suitable for fastening to thin steel sheets
- Small low profile head ideal for standing seam clips
- SRI drive provides 'stick fit' for easier application

Approvals

BRE Global Verified EPD



Fastener in A4 onto steel

Product code	PU	L	CL_{met}	
SX2/8-D9-4,8x22-A4	100	22	0–8	1384245

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CLmet.



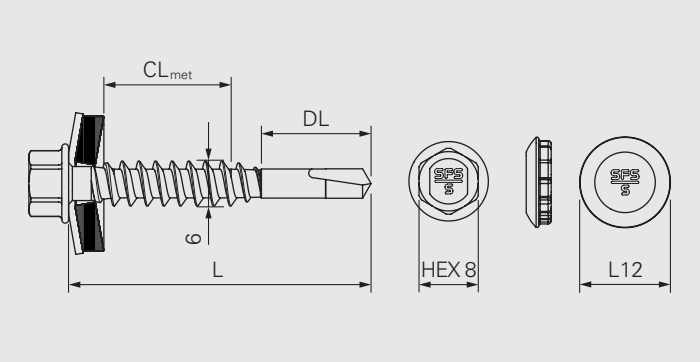


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA1/4" bit holder	1	¼	¼	58	1162306
SRI-25-HEX1/4"	1	¼	SRI	25	1146916

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

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	0.63–2.0
Aluminium	0.5–1.5	Steel	2×0.63–1.5
		Aluminium	1.0–2.5
Clip[1)]	≥5.0	Steel	0.75–2.5
–		Aluminium	1.0–3.0

[1)] Clearance hole Ø 6.1

Fastener material

Austenitic stainless steel A2/A4, hardened tip

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

Features and Benefits

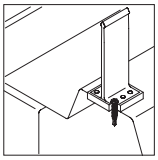
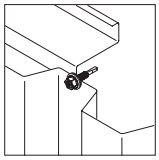
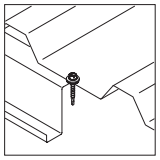
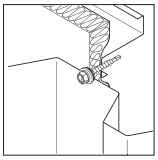
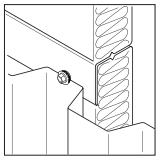
- Fastener design for high technical values in the application
- Long drill point suitable for applications with thermal decoupling tape
- High quality EPDM-seal with long durability

Approvals

CE 23
ETA-10/0198

FM APPROVED

BRE Global Verified EPD

Fastener in A2 onto steel and aluminium

Product code	PU	L	CL_{met}	DL		S16	S19
SX3/9-S16-6×29	100	29	0–9	9		1141978	1142000
SX3/15-S16-6×40		40	0–15	15		1133237	1142008

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

Fastener in A4 onto steel and aluminium

Product code	PU	L	CL_{met}	DL	S16/A4	S19/A4
SX3-S16/A4-6×29-A4	100	29	0–9	9	1479579	1614057
SX3-S16/A4-6×38-A4		38	0–18		1575772	1614745
SX3-S16/A4-6x48-A4		48	0–28		1575777	1614058
SX3-S16/A4-6×50-A4		50	0–20	20	1585248	1645479
SX3-L12-S16/A4-6x29-A4	100	29	0–9	9	1585613	1703655

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$



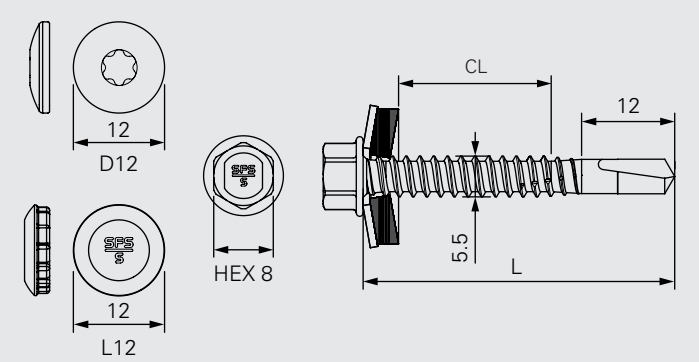


Accessories

Product description	PU	Drive	Head Drive	Length	
ZA1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*		⅜"	HEX8	34	8018
Socket E308-1/4"-50		¼"	HEX8	50	1646160
Socket E420-1/4"-74		¼"	Irius®	74	973316

SX5-5.5-A2/A4







Description

Self-drilling fastener made of stainless steel with sealing washer

Application

Fastening of profile sheets onto metal profiles
Fastening of spacer system brackets to substrate
Fastening of sandwich panels onto metal profiles (hidden fixings)
Fastening of standing seam clips onto metal profiles.

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	1.25–4.0
Aluminium	0.5–1.5	Steel	2×1.25–2.5
		Aluminium	1.5–5.0

Fastener material

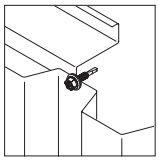
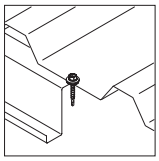
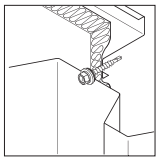
Austenitic stainless steel A2/A4, hardened tip
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Features and Benefits

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

Approvals

CE 23 ETA-10/0198
CE 23 ETA-13/0183
FM APPROVED
BRE Global Verified EPD

Fastener in A2 onto steel and aluminium

Product code	PU	L	CL_{met}	S16	S19
SX5-S16-5,5x31-A2	100	31	0–8	1122767	1134299
SX5-S16-5,5x35-A2	100	35	0–12	1123168	1123167
SX5-S16-5,5x41-A2	100	41	0-18	1134477	1134476

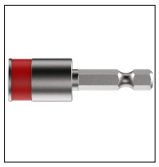
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

Fastener in A4 onto steel and aluminium

Product code	PU	L	CL_{met}	S16	S19
SX5-S16/A4-5,5x31-A4	100	31	0–8	1614135	1588949
SX5-S16/A4-5,5x35-A4		35	0–12	1585655	1614137
SX5-S16/A4-5,5x41-A4		41	0-18	1675652	1743678
SX5-S16/A4-5,5x61-A4		61	0–38	1585656	1614138
SX5-S16/A4-5,5x78-A4		78	8-55	1664662	-
SX5-D12-S16/A4-5,5x35-A4	100	35	0-12	1638769	1795095
SX5-L12-S16/A4-5,5x35-A4	100	35	0-12	1585654	-

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

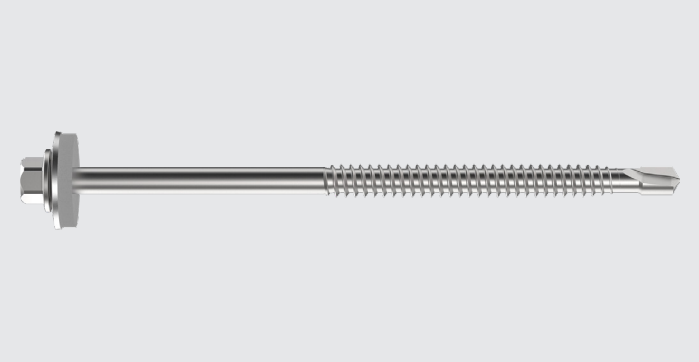


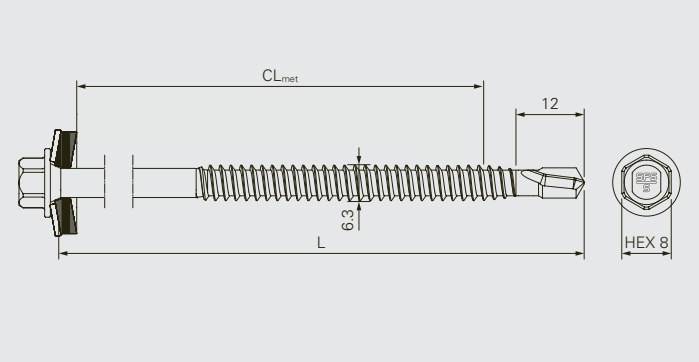



Accessories

Product code	PU	Drive	Head Drive	Length	
ZA 1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*		⅜"	HEX8	34	8018
Socket E308-1/4"-50		¼"		50	1646160
Socket E420-1/4"-74			Irius®	74	973316
T25W-25-HEX1/4"			T25W	25	7662

SX5-6.3-A4









Description

Self-drilling fastener made of stainless steel with sealing washer

Application

Fastening of sandwich panels onto metal profiles (hidden fixing)
Fastening of sandwich panels onto timber (hidden fixing)
Fastening of profile sheets onto metal profiles
Fastening of profile sheets onto timber

Component 1 (t_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	1.0–4.0
		Steel	2×0.75–2.5
		Timber	l_{ef} ≥25

[1)] Cover sheet in case of sandwich panel

Fastener material

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

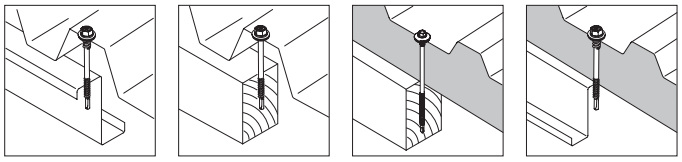
Approvals

CE 23
ETA-13/0183

BRE Global Verified EPD

Features and Benefits

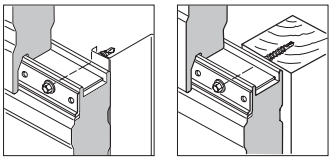
- Fastener design for high technical values in the application
- Long drill point reduces the risk of thread forming starting before the drill point clears the substrates
- High bending capacity for absorption of thermal expansions
- High quality EPDM-seal with long durability
- No top thread ensures accurate seating when fixing through spreader plates for hidden fixing applications.



Fastener in A4 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	S16	S19
SX5-S19/A4-6,3×80-A4	100	80	30-55	15-40	1649399	1649421
SX5-S19/A4-6,3×100-A4		100	40–75	25-60	1649401	1649423
SX5-S19/A4-6,3×120-A4		120	50–95	35-80	1649402	1649424
SX5-S19/A4-6,3x140-A4		140	70-115	55-100	1649403	1649426
SX5-S19/A4-6,3×160-A4		160	90–135	75-120	1649404	1649428
SX5-S19/A4-6,3×190-A4		190	110–165	95-150	1649405	1649430
SX5-S19/A4-6,3×220-A4		220	140–195	125-180	1649406	1649432
SX5-S19/A4-6,3×250-A4		250	170–225	155-210	1649408	1649434

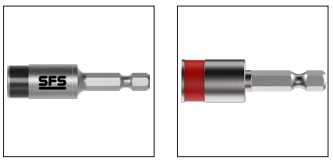
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met,}$ and $T_{fix,timb}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



Fastener in A4 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	no washer
SX5-6,3x80-A4	100	80	33-58	18-43	1649390
SX5-6,3×100-A4		100	43–78	28-63	1649391
SX5-6,3×120-A4		120	53–98	38-83	1649392
SX5-6,3x140-A4		140	73-118	58-113	1649393
SX5-6,3×160-A4		160	93–138	78-123	1649395
SX5-6,3×190-A4		190	113–168	98-153	1649396
SX5-6,3×220-A4		220	143–198	128-183	1649397
SX5-6,3×250-A4		250	173–228	158-213	1649398

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met,}$ and $T_{fix,timb}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

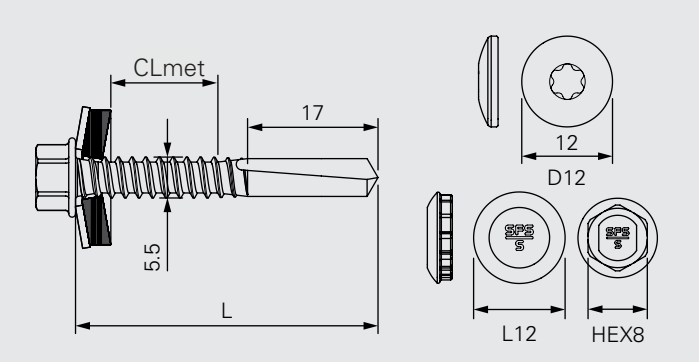


Accessories

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

SX14-5.5-A2/A4







Description

Self-drilling fastener made of stainless steel with sealing washer

Application

Fastening of profile sheets onto steel beams
Fastening of spacer system brackets to substrate
Fastening of sandwich panels onto metal beams (hidden fixings)
Fastening of standing seam clips onto metal beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	4.0–12.0
Aluminium	0.5–1.5		

Fastener material

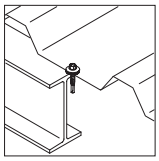
Austenitic stainless steel A2/A4, hardened tip
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

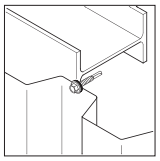
Features and Benefits

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

Approvals

CE 23 ETA-10/0198
CE 23 ETA-13/0183
FM APPROVED
BRE Global Verified EPD





Fastener in A2 onto steel

Product code	PU	L	CL_{met}	S16	S19
SX14-S16-5,5x40-A2	100	40	0–12	770785	770796
SX14-S16-5,5x48-A2		48	0–20	773625	773626

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

Fastener in A4 onto steel

Product code	PU	L	CL_{met}	S16	S19
SX14-S16/A4-5,5x40-A4	100	40	0–12	1585191	1585192
SX14-S16/A4-5,5x55-A4		55	0–27	1585194	1614143
SX14-S16/A4-5,5x66-A4		66	0–38	1676983	1671383
SX14-S16/A4-5,5x86-A4		86	0–58	1644215	-
SX14-D12/T25-S16/A4-5,5x48-A4	100	48	0–20	1585193	1662478
SX14-L12-S16/A4-5,5x40-A4	100	40	0–12	1667206	-

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$



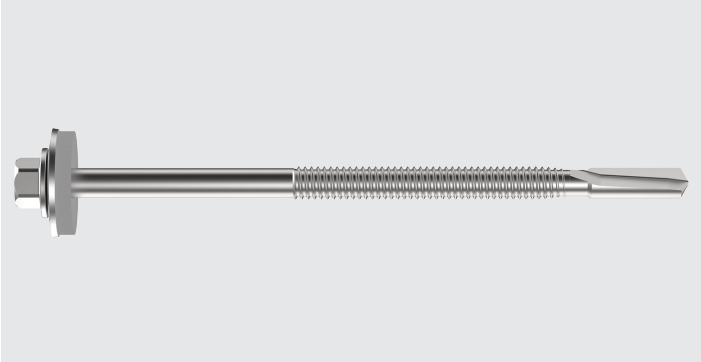


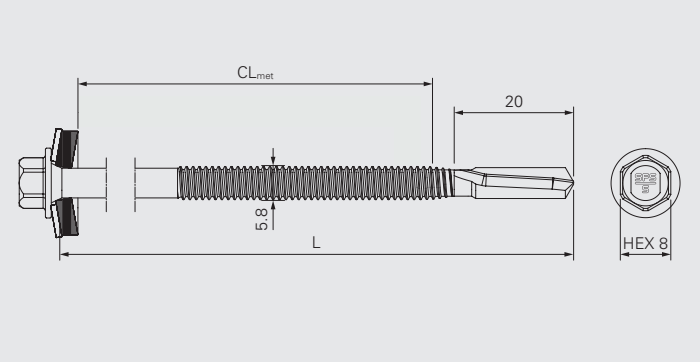


Accessories

Product description	PU	Insert drive	Recess	L	
ZA 1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*		⅜"	HEX8	34	8018
Socket E308-1/4"-50		¼"	HEX8	50	1646160
Socket E420-1/4"-74			Irius®	74	973316
T25W-25-HEX1/4"			T25W	25	7662

SX16-5.8-A4









Description

Self-drilling fastener made of stainless steel with sealing washer

Application

Fastening of sandwich panels onto steel beams (hidden fixing)

Fastening of profile sheets onto steel beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	3.0–14.0

[1)] Cover sheet in case of sandwich panel

Fastener material

Austenitic stainless steel A4, hardened tip

Sealing washer: Austenitic stainless steel A4, EPDM-seal

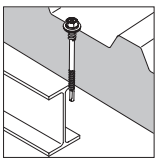
Approvals

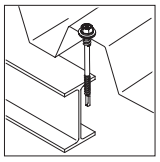
CE 23
ETA-13/0183

BRE Global Verified EPD

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
- Self drilling fastener suitable for installation of sandwich panels
- Optimised support function achieved by engingeered double support thread.

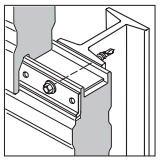




Fastener in A4 onto steel

Product code	PU	L	CL_{met}	S16	S19
SX16-S19-5,8×130-A4	100	130	52–98	1649698	1649713
SX16-S19-5,8×150-A4		150	72-118	1649700	1649714
SX16-S19-5,8×170-A4		170	92–138	1649703	1649715
SX16-S19-5,8×200-A4		200	112–168	1649704	1649716
SX16-S19-5,8×230-A4		230	142–198	1649705	1649717

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



Fastener in A4 onto steel

Product code	PU	L	CL_{met}	no washer
SX16-5,8×130-A4	100	130	55–101	1649688
SX16-5,8×150-A4		150	75-121	1649690
SX16-5,8×170-A4		170	95–141	1649691
SX16-5,8×200-A4		200	115–171	1649692
SX16-5,8×230-A4		230	145–201	1649694

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

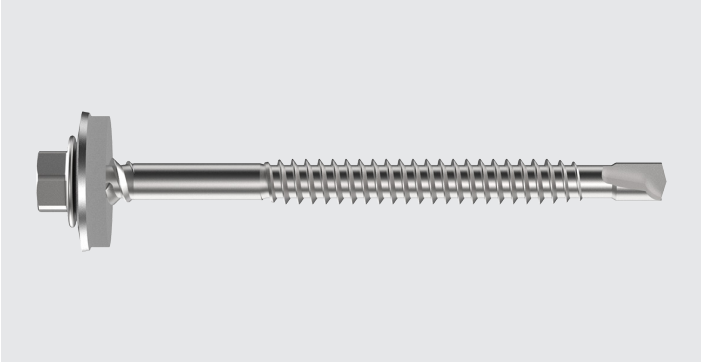


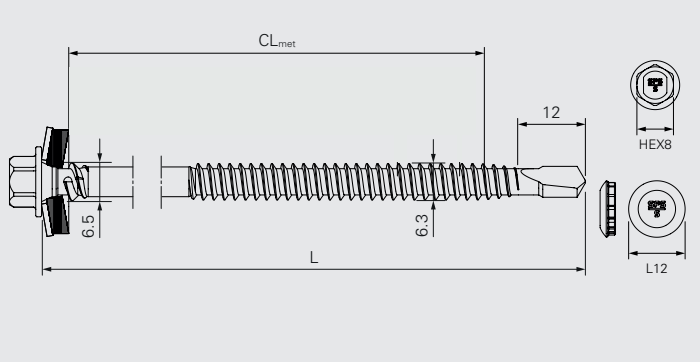


Accessories

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

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

Fastening of profile sheets onto metal profiles with 'TCW' washer (Irius® head)

Component 1 (t_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	1.0–4.0
		Steel	2×0.75–2.5
		Timber	l_{ef} ≥25

[1)] 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

Approvals

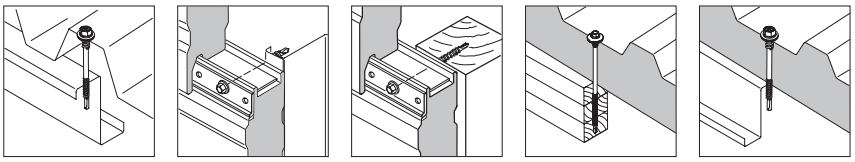
CE 23
ETA-13/0183

FM APPROVED

BRE Global Verified EPD

Features and Benefits

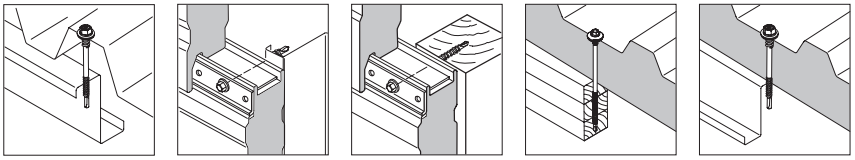
- Fastener design for high technical values in the application
- Perfect support function by double support thread
- Long drill point for easy drilling through overlapped metal profiles
- High quality EPDM-seal with long durability
- Thread free-zone preventing top thread stripping in panel outerskin.
- Optimised support function achieved by engineered double support thread.
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin.



Fastener in A2 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	S16	S19
SXC5-S19-6,3×80-A2	100	80	30-55	15-40	1573397	1573583
SXC5-S19-6,3×100-A2		100	40-75	25-60	1573398	1573584
SXC5-S19-6,3×120-A2		120	50-95	35-80	1573400	1573585
SXC5-S19-6,3×140-A2		140	70-115	55-100	1573411	1573586
SXC5-S19-6,3×160-A2		160	90-135	75-120	1573414	1573587
SXC5-S19-6,3×190-A2		190	110-165	95-150	1573415	1573588
SXC5-S19-6,3×220-A2		220	140-195	125-180	1573416	1573590
SXC5-S19-6,3×250-A2		250	170-225	155-210	1573417	1573591
SXC5-S19-6,3×290-A2		290	210-265	195-250	1573418	1573592

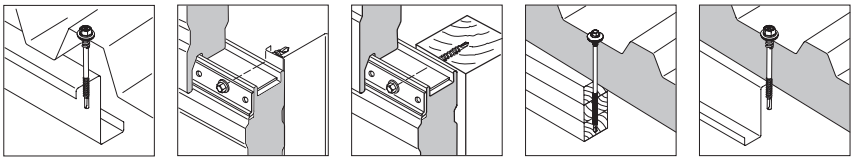
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met,}$ and $T_{fix,timb}$



Fastener in A4 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	S16	S19
SXC5-S19/A4-6,3×80-A4	100	80	30-55	15-40	1599990	1600001
SXC5-S19/A4-6,3×100-A4	100	100	40-75	25-60	1600005	1600007
SXC5-S19/A4-6,3×120-A4	100	120	50-95	35-80	1600022	1600023
SXC5-S19/A4-6,3×140-A4	100	140	70-115	55-100	1600026	1600027
SXC5-S19/A4-6,3×160-A4	100	160	90-135	75-120	1600042	1600043
SXC5-S19/A4-6,3×190-A4	100	190	110-165	95-150	1600047	1600049
SXC5-S19/A4-6,3×220-A4	100	220	140-195	125-180	1600055	1600056
SXC5-S19/A4-6,3×250-A4	100	250	170-225	155-210	1600059	1600064
SXC5-S19/A4-6,3×290-A4	100	290	210-265	195-250	1600078	1600080
SXC5-S19/A4-6,3×345-A4	100	345	265-320	250-305	1600140	1600161

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met,}$ and $T_{fix,timb.}$

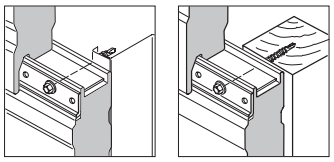


Fastener in A4 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	S16
SXC5-L12-S16/A4-6,3x120-A4	100	120	50-95	35-80	1656011
SXC5-L12-S16/A4-6,3x140-A4		140	70-115	55-100	1657028
SXC5-L12-S16/A4-6,3x160-A4		160	90-135	75-120	1642116
SXC5-L12-S16/A4-6,3x190-A4		190	110-165	95-150	1656036
SXC5-L12-S16/A4-6,3x220-A4		220	140-195	125-180	1656038
SXC5-L12-S16/A4-6,3x250-A4		250	170-225	155-210	1656039

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met} and $T_{fix,timb.}$

Without approval

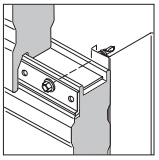


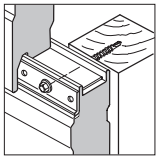
Fastener in A2 onto steel and timber

Product code	PU	L	Cl_{met}	$T_{fix,timb}$	No washer
SXC5-6,3×80-A2	100	80	33-58	18-43	1599843
SXC5-6,3×100-A2		100	43-78	28-63	1599844
SXC5-6,3×120-A2		120	53-98	38-83	1599847
SXC5-6,3×140-A2		140	73-118	58-103	1599848
SXC5-6,3×160-A2		160	93-138	78-123	1599851
SXC5-6,3×190-A2		190	113-168	98-153	1599857
SXC5-6,3×220-A2		220	143-198	128-183	1599859
SXC5-6,3×250-A2		250	173-228	158-213	1599860
SXC5-6,3×290-A2		290	213-268	198-253	1599871

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met} and $T_{fix,timb.}$

Without approval





Fastener in A4 onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	No washer
SXC5-6,3×80-A4	100	80	33-58	18-43	1600004
SXC5-6,3×100-A4		100	43-78	28-63	1600010
SXC5-6,3×120-A4		120	53-98	38-83	1600025
SXC5-6,3×140-A4		140	73-118	58-103	1600029
SXC5-6,3×160-A4		160	93-138	78-123	1600045
SXC5-6,3×190-A4		190	113-168	98-153	1600052
SXC5-6,3×220-A4		220	143-198	128-183	1600058
SXC5-6,3×250-A4		250	173-228	158-213	1600073
SXC5-6,3×290-A4		290	213-268	198-253	1600137
SXC5-6,3×345-A4		345	268-323	253-308	1600185

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met} and $T_{fix,timb}$.



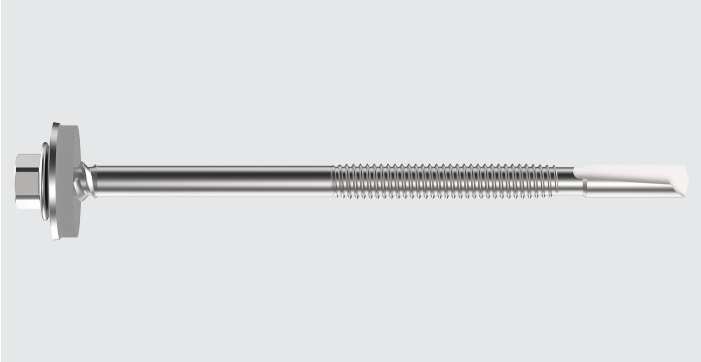


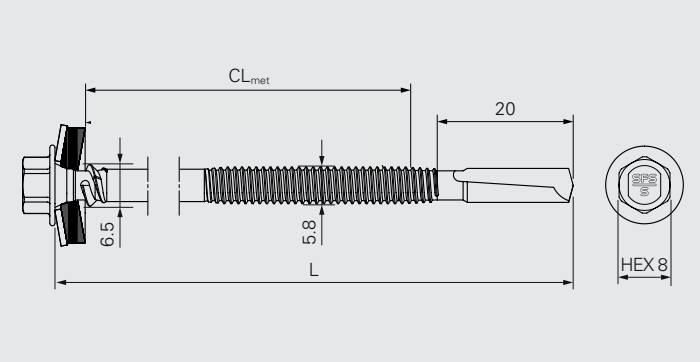
Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA 1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308-1/4"-50	1	¼"	HEX8	50	1646160
Socket E420-1/4"-74	1	¼"	Irius®	74	973316

*Socket E380 needs to be used in conjunction with the ZA1/4 drive bar.

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_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	3.0–14.0

[1)] 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

Approvals

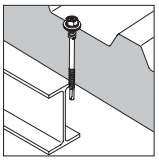
CE 23
ETA-13/0183

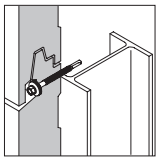
FM APPROVED

BRE Global Verified EPD

Features and Benefits

- High drilling performance for heavy steel beams
- High quality EPDM-seal with long durability
- Thread free-zone preventing top thread stripping in panel outerskin.
- Optimised support function achieved by engineered double support thread.
- High bending capacity for absorption of thermal expansion of the sandwich panel outer-skin.

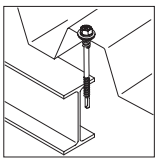


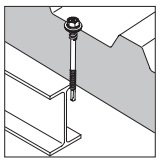


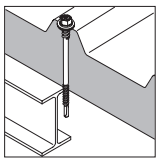
Fastener in A2 onto steel

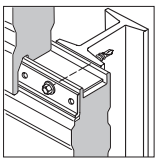
Product code	PU	L	CL_{met}	S16	S19
SXC16-S19-5,8×90-A2	100	90	32-58	1573419	1573595
SXC16-S19-5,8×110-A2		110	42-78	1573420	1573596
SXC16-S19-5,8×130-A2		130	52-98	1573441	1573597
SXC16-S19-5,8×150-A2		150	72-118	1573443	1573707
SXC16-S19-5,8×170-A2		170	92-138	1573445	1573709
SXC16-S19-5,8×200-A2		200	112-168	1573446	1573710
SXC16-S19-5,8×230-A2		230	142-198	1573447	1573712
SXC16-S19-5,8×260-A2		260	172-228	1573448	1573714

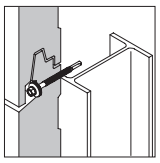
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.









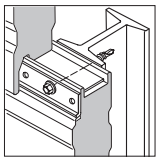


Fastener in A4 onto steel

Product code	PU	L	CL_{met}	S16	S19
SXC16-S19/A4-5,8×90-A4	100	90	32-58	1613574	1613558
SXC16-S19/A4-5,8×110-A4		110	42-78	1613594	1613595
SXC16-S19/A4-5,8×130-A4		130	52-98	1613602	1613603
SXC16-S19/A4-5,8×150-A4		150	72-118	1613606	1613607
SXC16-S19/A4-5,8×170-A4		170	92-138	1613622	1613623
SXC16-S19/A4-5,8×200-A4		200	112-168	1613693	1613694
SXC16-S19/A4-5,8×230-A4		230	142-198	1613699	1613707
SXC16-S19/A4-5,8×260-A4		260	172-228	1613711	1613712
SXC16-S19/A4-5,8×300-A4		300	212-268	1613720	1614801
SXC16-S19/A4-5,8×355-A4		355	267-323	1614805	1606472

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Product is available with S29 washer, contact a member of the team for material number.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

See approval OEM

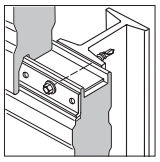


Fastener in A2 onto steel

Product code	PU	L	CL_{met}	No washer
SXC16-5,8×90-A2	100	90	35-61	1615954
SXC16-5,8×110-A2		110	45-81	1615960
SXC16-5,8×130-A2		130	55-101	1615963
SXC16-5,8×150-A2		150	75-121	1615978
SXC16-5,8×170-A2		170	95-141	1616036
SXC16-5,8×200-A2		200	115-171	1616046
SXC16-5,8×230-A2		230	145-201	1616051
SXC16-5,8×260-A2		260	175-231	1616090
SXC16-5,8×300-A2		300	215-271	1616112

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

See approval OEM



Fastener in A4 onto steel

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

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.



Accessories/Ancillaries

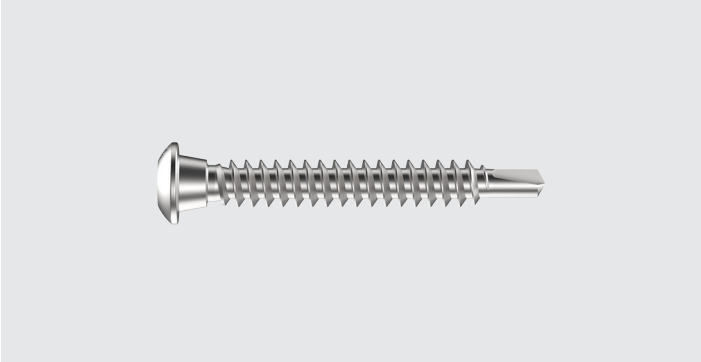
Product code	PU	Drive	Head Drive	Length	
ZA1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308-1/4"-50	1	¼"	HEX8	50	1646160

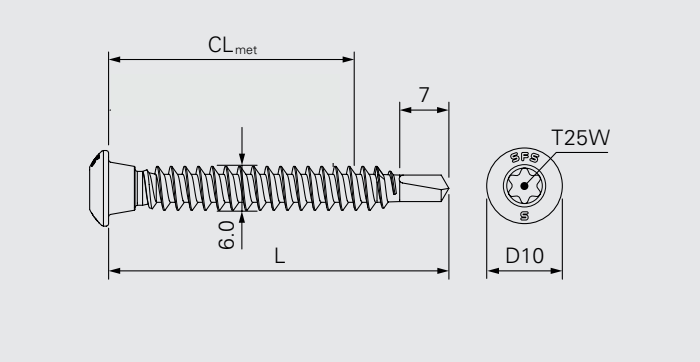
*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.





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_I)		Component 2 (t_{II})	
Clip[1)]	≥5.0	Steel	0.75–1.25
		Aluminium	1.0–2.0
		Timber	l_{ef} ≥18

[1)] Clearance hole Ø 6.1

Fastener material

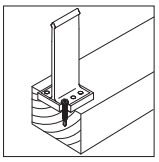
Austenitic stainless steel A2, hardened tip

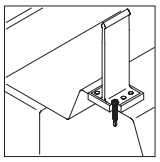
Approvals

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
- Suitable for installation of standing seam clips made of aluminium or with steel insert.

See approval OEM

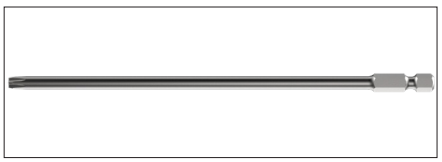




Fastener in A2 onto steel, aluminium and timber

Product code	PU	L	CL_{met}	$t_{fix, timb}$	
SXK2-D10-6,0×35-A2	250	35	5–21	–	1615850
SXK2-D10-6,0×45-A2		45	5–31	5–20	1615848

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}, and $t_{fix,timb}$
1Bit T25W-25-HEX¼" included in each package



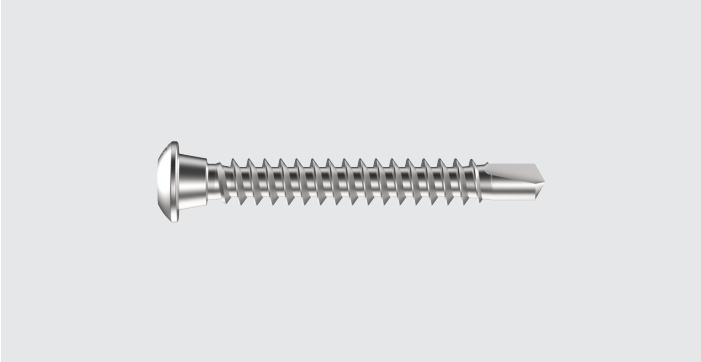


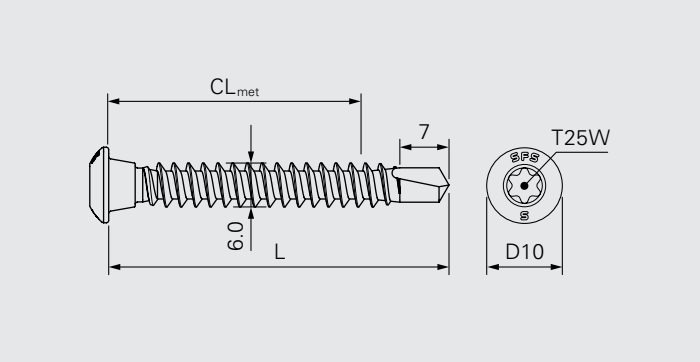


Accessories

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

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_I)		Component 2 (t_{II})	
Clip[1)]	≥5.0	Steel	1.25–2.5
		Aluminium	2.0–3.0

[1)] Clearance hole Ø 6.1

Fastener material

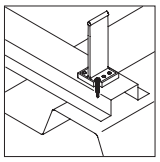
Austenitic stainless steel A2, hardened tip

Approvals

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
- Suitable for installation of standing seam clips made of aluminium or with steel insert.

See approval OEM

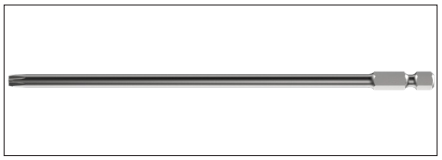


Fastener in A2 onto steel and aluminium

Product code	PU	L	CL_{met}	
SXK3-D10-6,0×30-A2	250	30	5–16	1615844
SXK3-D10-6,0×45-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 $CL_{met.}$

1 Bit T25W-25-HEX¼" included in each package





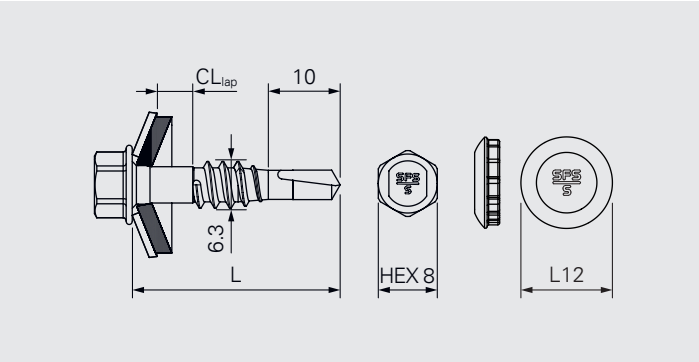


Accessories

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

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_I)		Component 2 (t_{II})	
Steel	0.4–1.5	Steel	0.4–1.5
Steel	2×0.4–0.88	Steel	2×0.4–0.88
Aluminium	0.5–1.5	Aluminium	0.5–1.5

Condition: Total thickness within CL_{lap}

For information on clearance holes please contact the SFS technical team

Fastener material

Austenitic stainless steel A2/A4, hardened tip
Sealing Washer: Special AV-shaped aluminium washer, EPDM seal.

Approvals

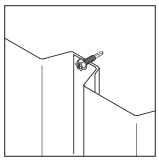
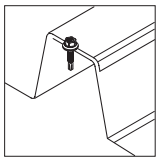
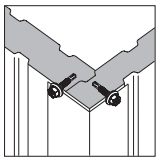
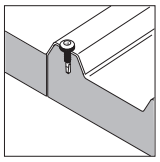
CE 23
ETA-10/0198

FM APPROVED

BRE Global Verified EPD

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

Fastener in A2 onto steel and Aluminium

Product code	PU	L	CL_{lap}	AV14	AV16	AV19
SXL2-AV14-6,3×26-A2	500	26	0.80–3.50	1748188	1748189	N/A
SXL2-AV19-6,3x28-A2-RAL2002	500	28	3.00-6.50	N/A	N/A	1670870
SXL2-AV19-6,3×28-A2	500	28	3.00-6.50	N/A	N/A	1670852
SXL2-AV16-6,3 X 28-A2	500	28	1.50 - 6.50	N/A	1795781	N/A

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.

Fastener in A4 onto steel and Aluminium

Product code	PU	L	CL_{lap}	AV14	AV16	AV19
SXL2-AV14-6,3×26-A4	500	26	0.80–3.50	1748192	1748205	N/A
SXL2-L12-AV14-6.3×26-A4	500	26	0.80–3.50	1749170	1862493	N/A
SXL2-AV19-6.3×28-A4	500	28	3.00-6.50	N/A	N/A	1747733
SXL2-AV16-6,3 X 28 -A4	500	28	1.50 - 6.50	N/A	2163446	N/A

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.

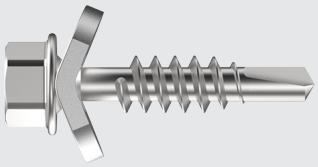


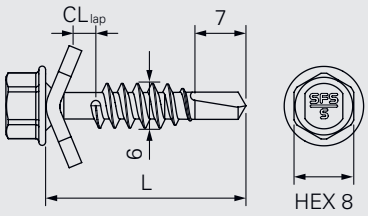


Accessories/Ancillaries

Product code	PU	Drive	Head drive	
SOK-IT-¼"-57-6Nm	1	¼"	SW8	1667323
E308-¼"-50			HEX8	1646160

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

Component 1 (t_I)		Component 2 (t_{II})	
Steel	1.0–2.0	Steel	0.4–1.5
Aluminium	1.5–3.0		

Condition: Total thickness within CL_{lap}

For information on clearance holes please contact the SFS technical team.

Fastener material

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

Approvals

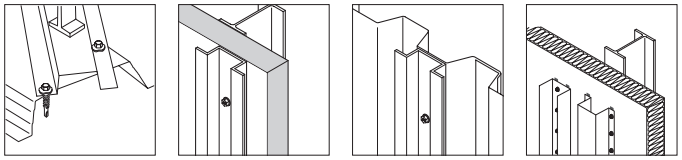
CE 23
ETA-10/0198

FM APPROVED

BRE Global Verified EPD

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



Fastener in A2 onto steel

Product code	PU	L	CL_{lap}	SV16
SXL3-SV16-6,0×27-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 $CL_{lap.}$

Fastener in A4 onto steel

Product code	PU	L	CL_{lap}	SV16/A4
SXL3-SV16/A4-6,0×27-A4	500	27	1.9–4.8	1794620

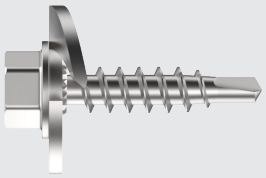
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{lap.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

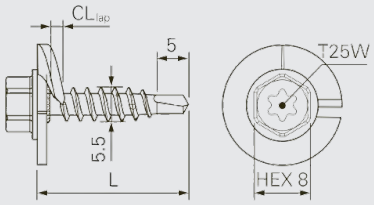


Accessories

Product description	PU	Insert drive	Recess	L	
Socket E308-¼"-50	1	HEX¼"	HEX8	50	1646160

SXP2-HT-SC19-5,5-A2





Description

Self coring fastener for overlaps of single ply insulated roof panels

Application

Fastening of single ply insulated roof panel overlaps

Component 1 (t_I)	Component 2 (t_{II})		Max
Single-ply panel	Steel	0.5-1.0	2.0

Fastener material

Austenitic stainless steel A2, case hardened drill point

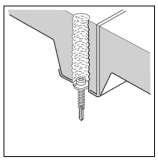
Cutting disc: Austenitic stainless steel A2

Approvals

BRE Global Verified EPD

Features and Benefits

- Self-drilling fastener suitable for both the fixing of single ply insulated roof panels into light gauge steel and panel overlaps
- No pre-drilling of membrane and insulation required thanks to cutting-washer.
- Self-coring fastener without disruption of the insulating material archieved by the cutting washer
- Flexibility given to the installer due to dual drive, which provides both a Hex and Torx drive option
- Secured against unwinding given by cut-off thread-end and free-spin zone.



Fastener in A2 onto steel

Product code	PU	L	CLap	
SXP2-HT-SC19-5,5x25-A2	500	25	0.8-2.0mm	1686837

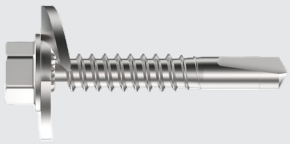


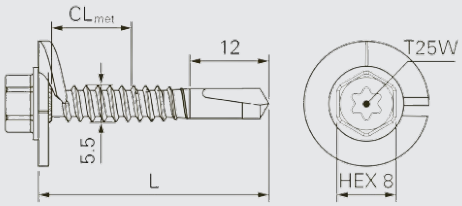


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
Drive Bar HEX8-1/4"-300	1	¼"	HEX8 Drive	300mm	1823798
T25W-175-HEX1/4"			T25 Drive	175mm	727979
T25HF-240-HEX1/4"				240mm	1223621

SXP5-HT-SC19-5,5-A2





Description

Self coring fastener for single ply insulated roof panels to light gauge

Application

Fastening of single ply insulated roof panels onto metal profiles

Component 1 (t_I)	Component 2 (t_{II})		Max
Single-ply panel	Steel	1.25-4.0	5.0

Fastener material

Austenitic stainless steel A2, case hardened drill point

Cutting disc: Austenitic stainless steel A2

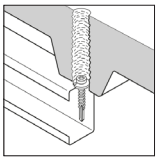
Approvals

BRE Global Verified EPD

FM APPROVED

Features and Benefits

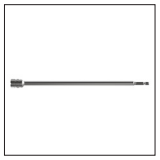
- Self-drilling fastener suitable for the fixing of single ply insulated roof panels into light gauge steel
- No pre-drilling of membrane and insultation required thanks to cutting-washer
- Easy drilling through overlapped metal profiles given by the long drill point
- Self-coring fastener without disruption of the insulating material archieved by the cutting washer
- Flexibility given to the installer due to dual drive, which provides both a Hex and Torx drive option
- Secured against unwinding given by cut-off thread-end and free-spin zone



Fastener in A2 onto steel

Product code	PU	L	CL met	
SXP5-HT-SC19-5,5-35-A2	500	35	0-20	1686871



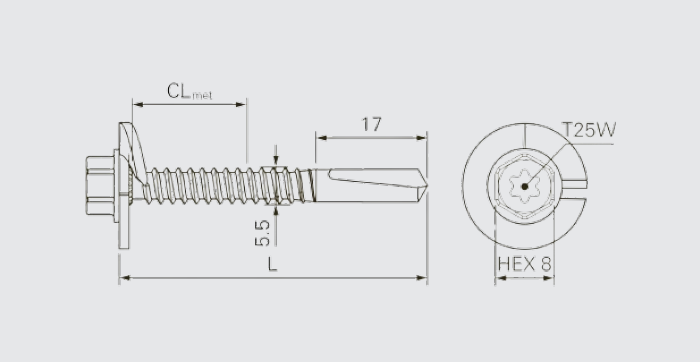


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
Drive Bar HEX8-1/4"-300	1	¼"	HEX8Drive	300mm	1823798
T25W-175-HEX1/4"			T25 Drive	175mm	727979
T25HF-240-HEX1/4"				240mm	1223621

SXP14-HT-SC19-5,5-A2





Description

Self coring fastener for single ply insulated roof panels to heavy gauge

Application

Fastening of single ply insulated roof panels onto metal beams

Component 1 (t_I)	Component 2 (t_{II})		Max
Single-ply panel	Steel	4.0-12.0	13.50

Fastener material

Austenitic stainless steel A2, case hardened drill point

Cutting disc: Austenitic stainless steel A2

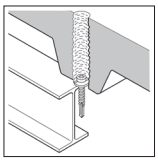
Approvals

BRE Global Verified EPD

FM APPROVED

Features and Benefits

- Self-drilling fastener suitable for fixing single ply insultated roof panels into heavy gauge steel
- No pre-drilling of membrane and insultation required thanks to cutting-washer
- High performance drill point for heavy steel beams
- Self-coring fastener without disruption of the insulating material archieved by the cutting washer
- Flexibility given to the installer due to the dual drive, which provides both a hex and Torx drive option
- Secured against unwinding given by cut-off thread-end and free-spin zone.



Fastener in A2 onto steel

Product code	PU	L	CL met	
SXP14-HT-SC19-5,5-47-A2	500	47	0-28	1686872

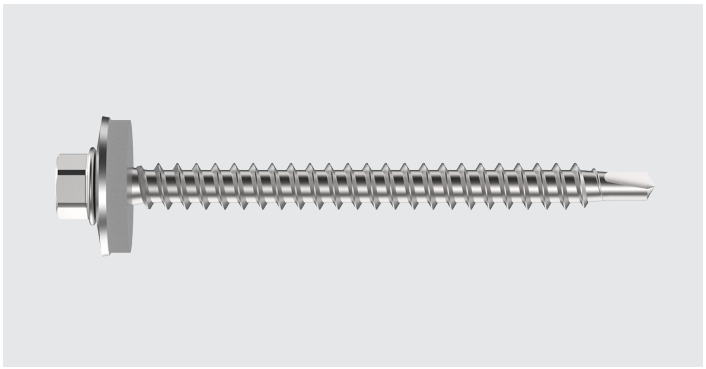


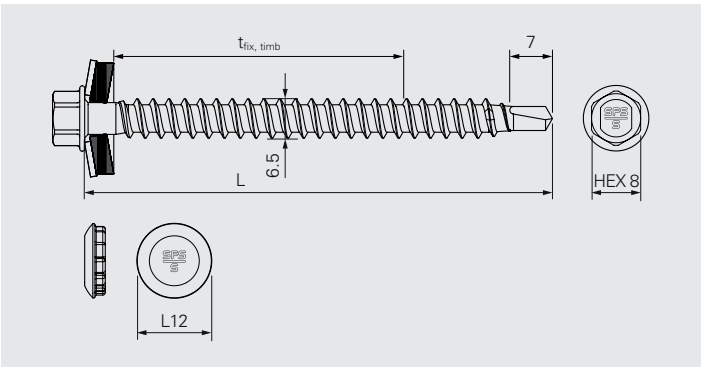


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
Drive Bar HEX8-1/4"-300	1	¼"	HEX8 Drive	300mm	1823798
T25W-175-HEX1/4"			T25 Drive	175mm	727979
T25HF-240-HEX1/4"				240mm	1223621

SXW-6.5-A2/A4







Description

Self-drilling fastener made of stainless steel with sealing washer

Application

Fastening of profile sheets onto timber
Fastening of sandwich panels onto timber (hidden fixing)

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Timber	l_{ef} ≥35
Aluminium	0.5–1.5		

Fastener material

Austenitic stainless steel A2, A4, hardened tip

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

Features and Benefits

- High quality EPDM-seal with long durability
- Suitable for installation of profile sheets and sandwich panels
- Drill point design reduces the risk of wood splitting

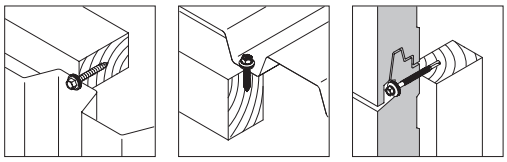
Approvals

CE 23 ETA-10/0198

CE 23 ETA-13/0183

FM APPROVED

BRE Global Verified EPD



Fastener in A2 onto steel and timber

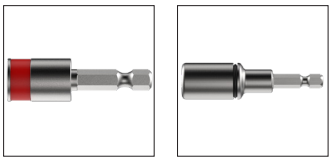
Product code	PU	L	TL	$T_{fix, timb}$	S16
SXW-S16-6,5 X 75 -A2		75	-	0-30	1069319

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $T_{fix,timb}$.

Fastener in A4 onto steel and timber

Product code	PU	Lw	TL	$T_{fix, timb}$	No washer	S16	S19
SXW-S16/A4-6,5×52-A4	100	52	40	0-7	-	1643890	1649845
SXW-L12-S16/A4-6,5×52-A4					-	1676726	-
SXW-L12-6,5×52-A4	100	52	40	0-10	1548771	-	-
SXW-6,5×52-A4					1548787	-	-

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $T_{fix,timb}$.

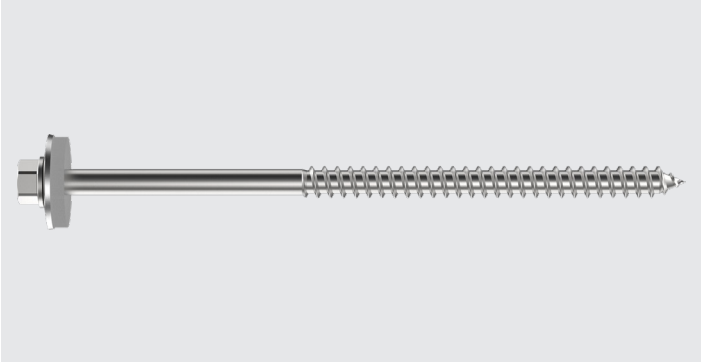


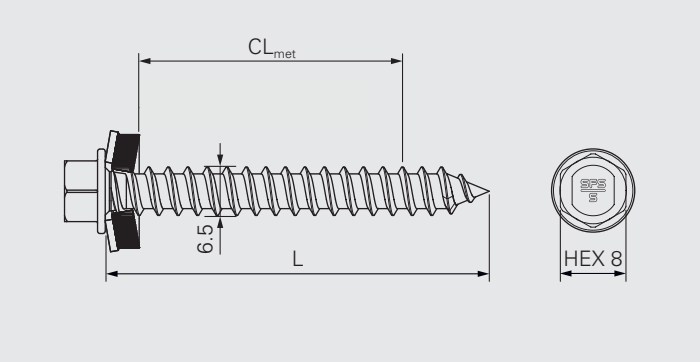
Accessories/Ancillaries

Product code	PU	
Socket E380-¼"-50	1	1646160
ZA1/4" drive bar*		7645
Socket E380*		8018
irius® Socket E420		973316
E308-¼"-50	1	1646160

ZA 1/4" drive bar used with E380

TDA-S-6.5-A2/A4/R5







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
- Fastening of profile sheets onto metal decks, liner trays

Component 1 (t_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	0.63–3.0
Aluminium	0.5–1.5	Steel	2×0.75–1.5
		Aluminium	1.0–3.0
		Timber	l_p ≥35

Pre-drill Ø see table

[1)] 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

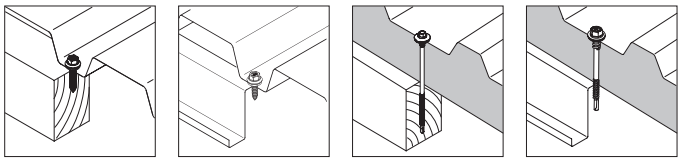
Approvals

CE 23 ETA-10/0198

CE 23 ETA-13/0183

FM APPROVED

BRE Global Verified EPD



Fastener in A2
onto steel, timber and aluminium

Product code	PU	L	TL	CL_{met}	S16	S19
TDA-S-S16-6,5×20	500	20	20	0-10	1526324	1526378
TDA-S-S16-6,5×25		25	25	0-15	6760	6680
TDA-S-S16-6,5×32		32	32	0-22	6761	6681
TDA-S-S16-6,5×40	250	40	40	0-30	1526325	1526379
TDA-S-S16-6,5×50		50	50	0-40	6764	6684
TDA-S-S16-6,5×60		60	60	0-50	1526326	1526391
TDA-S-S16-6,5×80		80	75	3-70	1526328	1526392
TDA-S-S16-6,5×100	100	100	75	23-90	6768	6688
TDA-S-S16-6,5×120		120		43-110	1526330	1526393
TDA-S-S16-6,5×140		140		63-130	1526342	1526394
TDA-S-S16-6,5×160		160		83-150	1526344	1526395
TDA-S-S16-6,5×180		180		103-170	1526346	1526396
TDA-S-S16-6,5×200		200		123-190	1526347	1526397
TDA-S-S16-6,5×220		220		143-210	1526348	1526398
TDA-S-S16-6,5×260		260		183-250	2175153	1526399

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

Fastener in A4
onto steel, timber and aluminium

Product code	PU	L	CL_{met}	S16	S19
TDA-S-S16/A4-6,5 x 32- A4	100	32	0-22	1572247	-
TDA-S-S16/A4-6,5 X 50 - A4		50	0-40	1671374	1712636

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

Fastener in R5
onto steel, timber and aluminium

Product code	PU	L	CL_{met}		S16
TDA-S-S16/A4-6,5×20 - R5	100	20	0-10		1612989
TDA-S-S16/A4-6,5x60 - R5		60	0-50		1606540

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

Pre-drill diameter

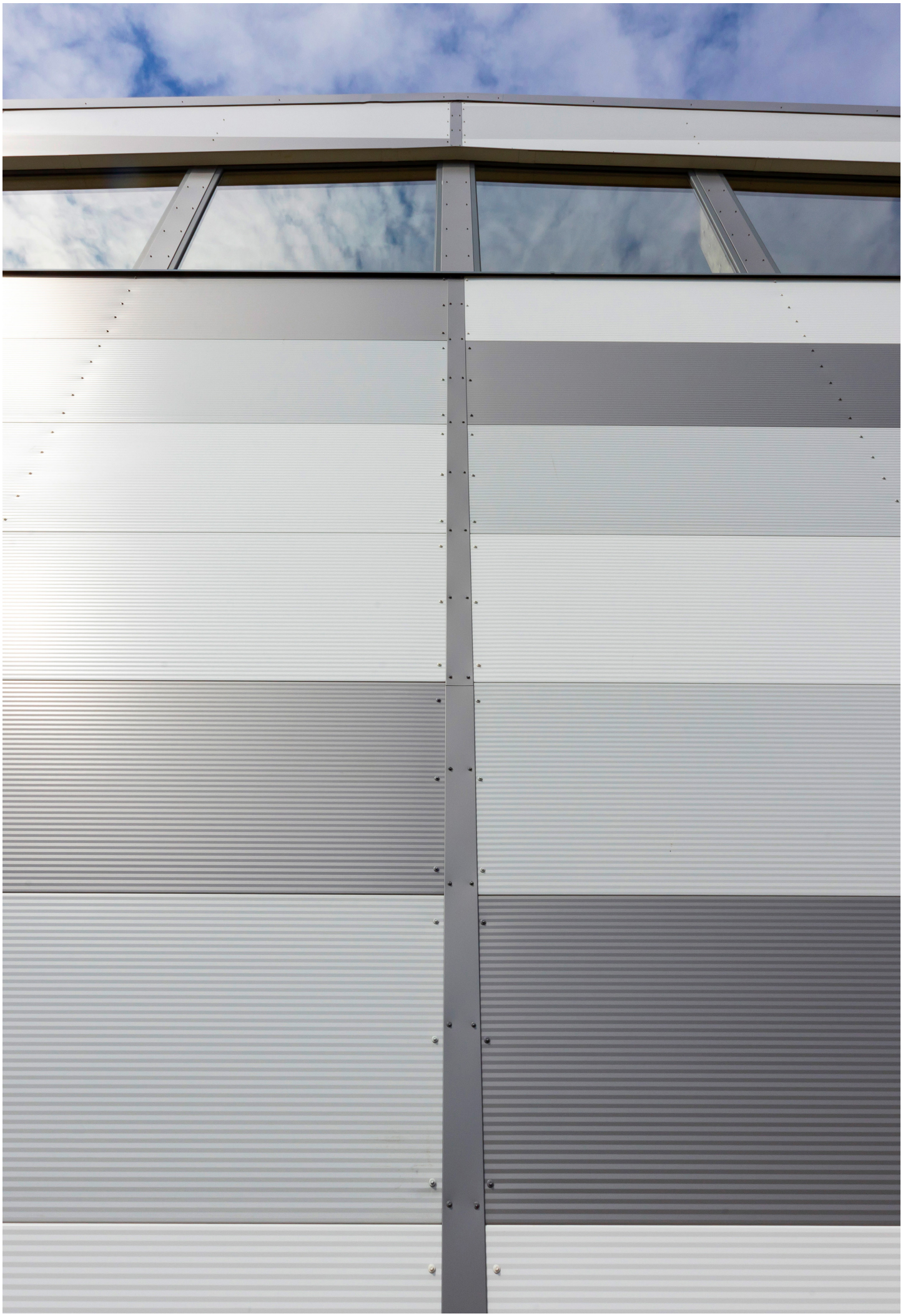
Component 1 (t_I)		Component 2 (t_{II})		Pre-drill Ø
Steel	0.4–1.5	Steel	0.63	3.5
Aluminium	0.5–1.5	Steel	0.75	4.0
		Steel	0.88-1.25	4.5
		Steel	1.5–3.0	5.0
		Steel	2×0.75–1.0	4.0
		Steel	2×1.25–1.5	4.5
Steel	0.4–1.5	Timber	l_p >35	4.0
Aluminium	0.5–1.5	Aluminium	1.0–1.5	4.5
		Aluminium	1.6–2.5	5.0
		Aluminium	2.6–3.0	5.3

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

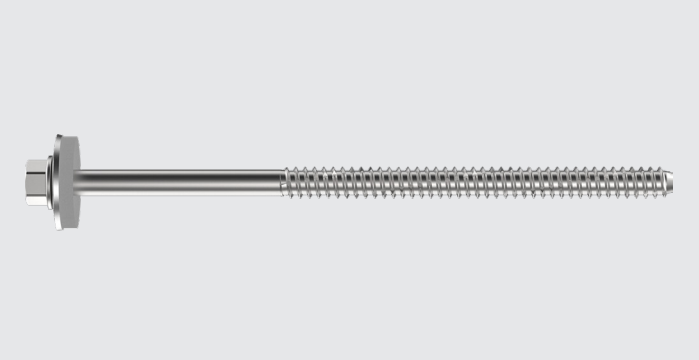


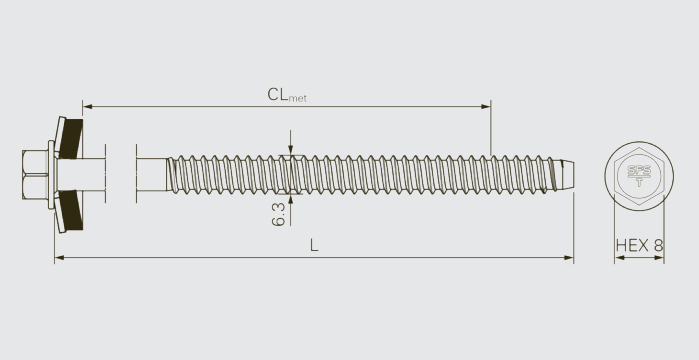
Accessories/Ancillaries

Product code	PU	
ZA1/4" drive bar*	1	7645
Socket E380*		8018
Socket E480		1646160



TDB-S-6.3-A2/A4/R5







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 metal decks, liner trays onto metal beams
Fastening of sandwich panels onto steel beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Steel	≥1.25
Aluminium	0.5–1.5	Aluminium	≥1.5

Pre-drill Ø see table

[1)] Cover sheet in case of sandwich panel

Fastener material

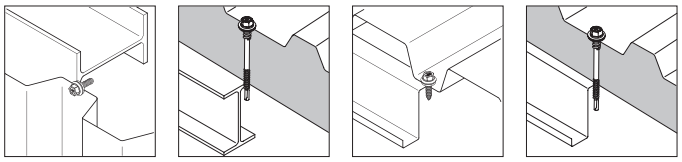
Austenitic stainless steel A2/A4
Sealing washer: Austenitic stainless steel A2/A4, EPDM-seal

Features and Benefits

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

Approvals

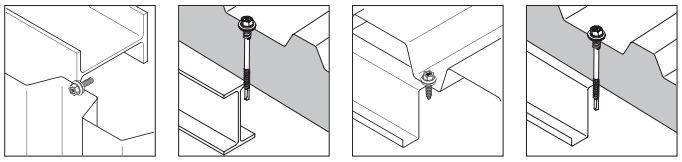
CE 23 ETA-10/0198
CE 23 ETA-13/0183
FM APPROVED
BRE Global Verified EPD



Fastener in A2 onto steel and aluminium

Product code	PU	L	CL_{met}	S16	S19
TDB-S-S16-6,3×20	500	20	0–12	1526350	1526400
TDB-S-S16-6,3×25		25	0–17	1021650	1021647
TDB-S-S16-6,3×32		32	0–24	1021659	1063816
TDB-S-S16-6,3×40	250	40	0–32	1526352	1526401
TDB-S-S16-6,3×50		50	0–42	1022745	1022746
TDB-S-S16-6,3×60		60	0–52	1526353	1526402
TDB-S-S16-6,3×80		80	2–72	1526354	1526403
TDB-S-S16-6,3×100	100	100	22–92	1022759	1022758
TDB-S-S16-6,3×120		120	42–112	1526355	1526405
TDB-S-S16-6,3×140		140	62–132	1526356	1526406
TDB-S-S16-6,3×160		160	82–152	1526357	1526407
TDB-S-S16-6,3×180		180	102–172	1526359	1526408
TDB-S-S16-6,3×200		200	122–192	1270144	1191450
TDB-S-S16-6,3×220		220	142–212	1191440	1194640
TDB-S-S16-6,3×260		260	182–252	1526371	1526410

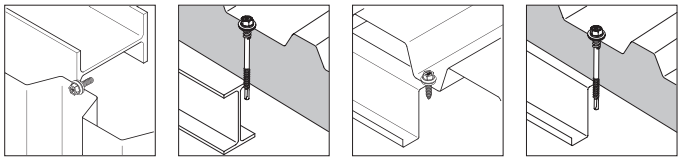
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



Fastener in A4 onto steel and aluminium

Product code	PU	L	CL_{met}		S16	S19
TDB-S-S16/A4-6,3×25-A4	100	25	0–17		1479523	-
TDB-S-S16/A4-6,3×40-A4		40	0–32		1614055	1613883

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



Fastener in R5 onto steel and aluminium

Product code	PU	L	CL_{met}		S16	S19
TDB-S-S16/A4-6,3×40-R5	100	40	0–32		1640525	1643544

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

Pre-drill diameter

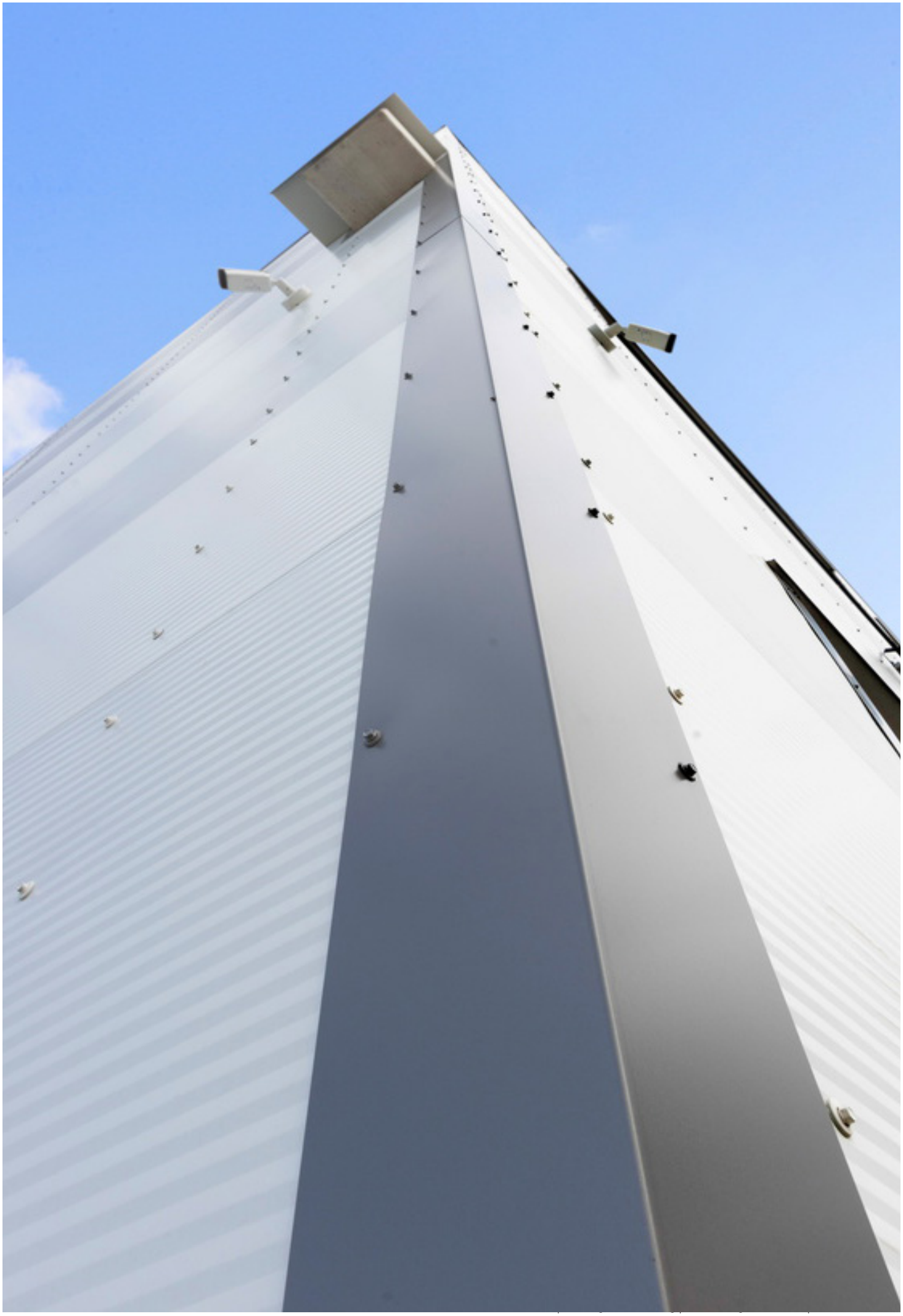
Component 1 (t_I)		Component 2 (t_{II})		Pre-drill Ø
Steel	0.4–1.5	Steel	1.25–1.5	5.0
Aluminium	0.5–1.5	Steel	1.6–4.0	5.3
		Steel	4.1–6.0	5.5
		Steel	6.1–10.0	5.7
		Steel	>10.0	5.8
Aluminium	0.5–1.5	Aluminium	1.5	4.5
		Aluminium	1.6–3.0	5.0
		Aluminium	3.1–4.0	5.3
		Aluminium	>4.1	5.5

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

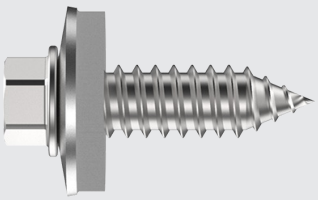


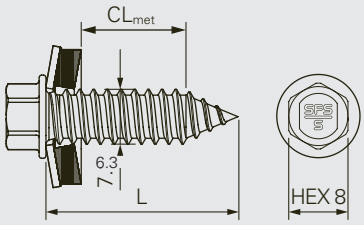
Accessories/Ancillaries

Product code	PU	
ZA1/4" drive bar*	1	7645
Socket E380*		8018
Socket E480		1646160
E308-1/4"-50		1646160



TDC-S-6.3-A2







Description

Self–tapping fastener made of stainless steel with sealing washer

Application

Replacement of overwinded fasteners in profile sheets, sandwich panels

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	0.5-1.5

Fastener material

Austenitic stainless steel A2

Sealing washer: Austenitic stainless steel A2, EPDM-seal

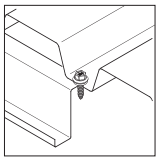
Approvals

CE 23
ETA-10/0198

BRE Global Verified EPD

Features and Benefits

- Self-tapping fastener suitable as replacement of overdriven fastener
- High quality EPDM sealing washer for long-term weather sealing
- Applicable on profile sheets and sandwich panels.



Fastener in A2 onto steel

Product code	PU	L	CL_{met}	S16
TDC-S19-6,3×25-A2	100	19	0–8.0	6916

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

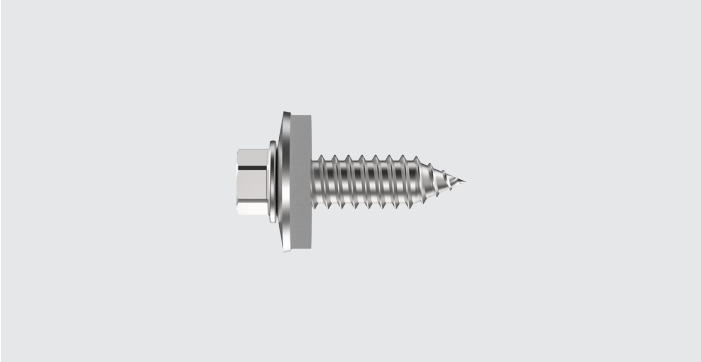


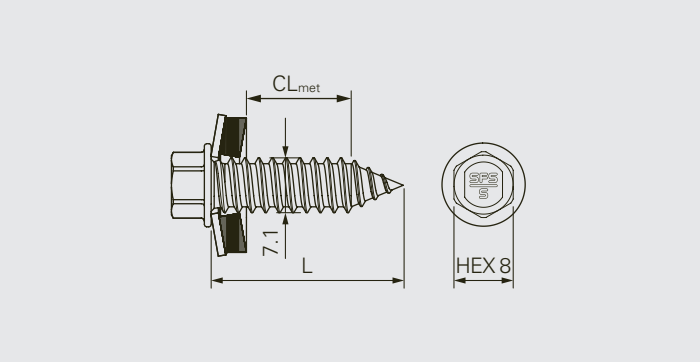
Accessories/Ancillaries

Product code	PU	
ZA1/4" drive bar*	1	7645
Socket E308*		8018
Socket E480		1646160

Socket E308 needs to be used in conjunction with the ZA1/4" drive bar

TDC-S-7.1-A2







Description

Self–tapping fastener made of stainless steel with sealing washer

Application

Fastening of profile sheets onto metal profiles

Replacement of overdriven fasteners

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.45–1.5	Steel	0.63–3.0
Aluminium	0.5–1.5	Aluminium	1.0–3.0

Pre-drill Ø 6.5

Fastener material

Austenitic stainless steel A2

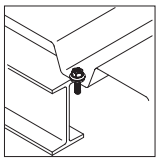
Sealing washer: Austenitic stainless steel A2, EPDM-seal

Features and Benefits

- High quality EPDM-seal with long durability
- Self tapping fastener suitable as replacement of over-driven fastener.

Approvals

BRE Global Verified EPD



Fastener in A2 onto steel

Product code	PU	L	CL	Pre-drill Ø	S19
TDC-S-S19-7,1×25	500	25	0–14	6.50	1066788

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CLmet.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



Accessories/Ancillaries

Product code	PU	
ZA1/4" drive bar*	1	7645
Socket E308*		8018
Socket E480		1646160

Socket E308 needs to be used in conjunction with the ZA1/4" drive bar

TI-S-S16-6,3-A2



Description

Self-tapping stainless steel fastener, with EPDM washer onto concrete

Application

Fastening of galvanised angles and steel

Framing to concrete

Application Range

Thickness concrete deck t: min. 40mm

Edge distance: min 50 mm.

Fastener material

Austenitic stainless steel A2

Sealing Washer: Austenitic stainless steel A2, EPDM-Seal

Setting:

SD (Setting depth): min 20mm.

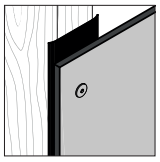
Depth of pilot hole to be min. 15mm deeper than the setting depth of the fastener, depending on site conditions.

Typical pilot hole diameters will be in the range of 4.8mm - 5.2mm depending on concrete strength.

Site testing recommended to determine optimum diameter.

Features and Benefits

- Plug free installation
- Only 20mm setting depth is required
- High quality EPDM sealing washer for long-term weather sealing



Fastener in A2 with sealing washer onto concrete

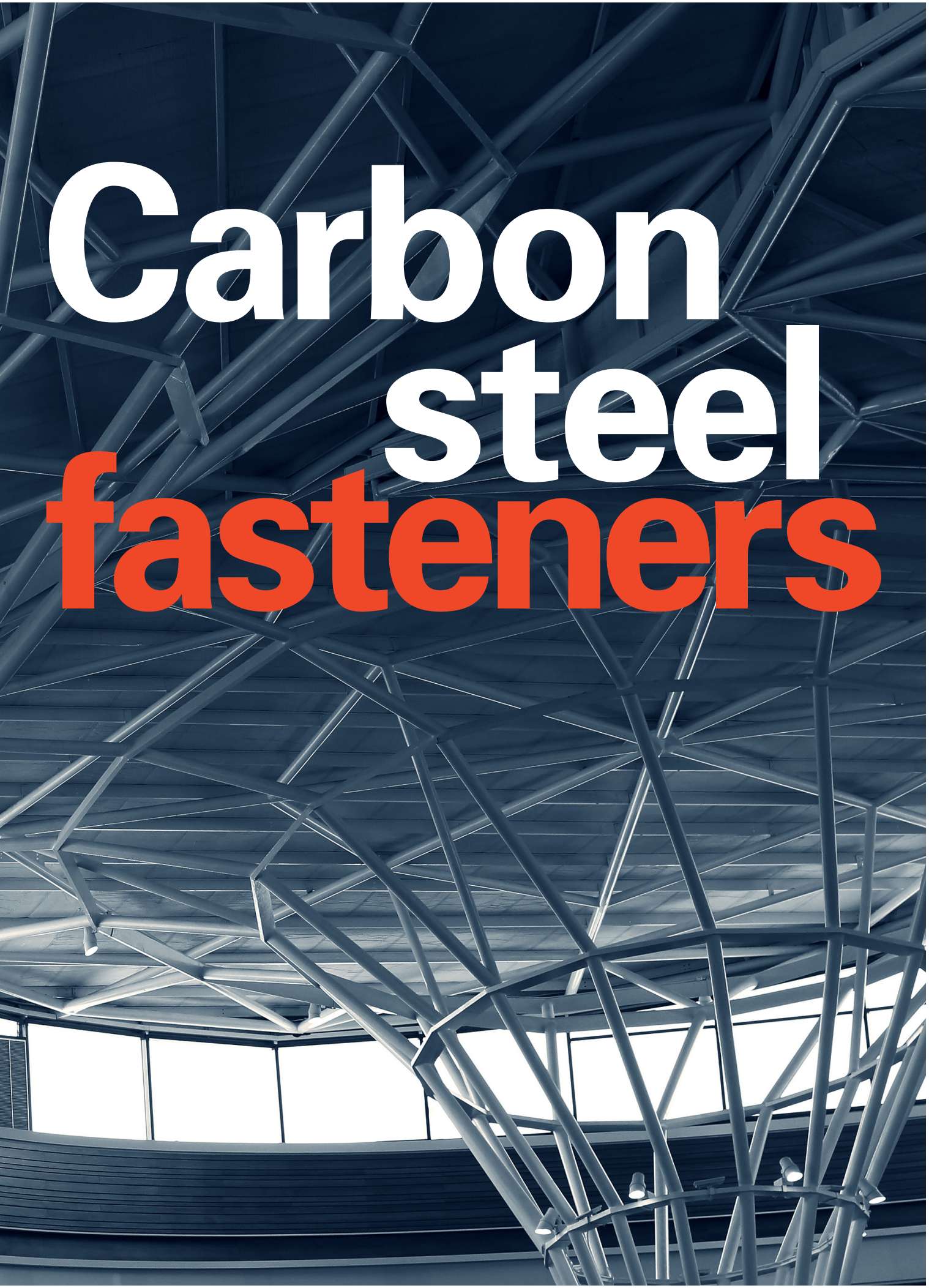
Product code	PU	L	
TI-S-S16-6,3 X 45 -A2	250	25	747519

Accessories/Ancillaries

Product code	PU	
ZA¼"" drive bar*	1	7645
Socket E380*	1	8018
Socket E480	1	688056

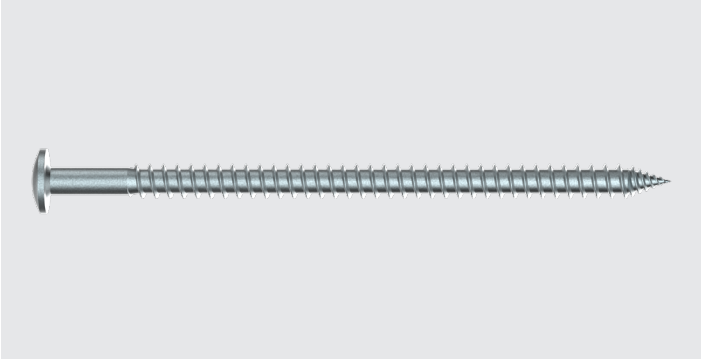
*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar

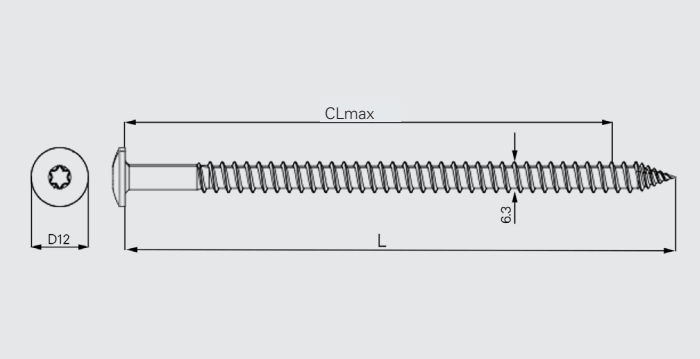




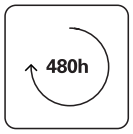
Carbon steel fasteners

CD-D12-6,3









Description

Self-drilling joint stitching fastener with pierce point.

Application

Stitching of wall composite panel joint.

Component 1 (t_I)		Component 2 (t_{II})	$\Sigma_{max} t_I + t_{II}$
Steel panel	–	Steel	–

Fastener material

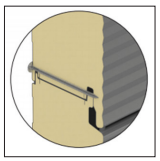
Carbon steel, Durocoat®480

Approvals

-

Features and Benefits

- Self drilling fastener suitable for fastening of panel interlocking joints
- Speed point tip for fast, accurate installation
- Suitable for use as internal stitching fastener for fire wall panels
- Lengths suitable so will not penetrate outer face
- Low profile head supplied in colour to match panel



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
CD-D12-6,3x75	100	75	0-65	1677835
CD-D12-6,3x83		83	10-73	1678498
CD-D12-6,3x95		95	22-85	1678499
CD-D12-6,3x115		115	16-105	1679494
CD-D12-6,3x135		135	36-125	1678400
CD-D12-6,3x145		145	46-135	1678501

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



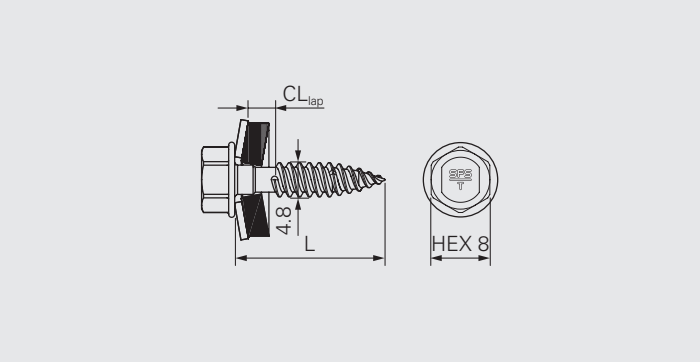


Accessories/Ancillaries

Product code	PU	
T25W-25-HEX1/4"	1	7662
ZA1/4" bit holder		1162306

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_I)		Component 2 (t_{II})	
Steel	0.4–1.0	Steel	0.4–1.0

Fastener material

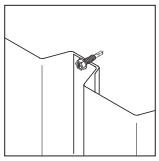
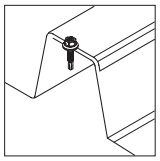
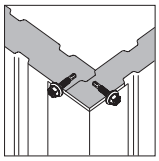
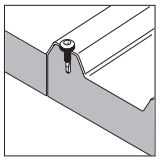
Carbon steel, Durocoat® 480
Sealing washer: Aluminium, EPDM-seal

Approvals

CE 23 ETA-22/0605
BRE Global Verified EPD
FM APPROVED

Features and Benefits

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

Fastener in carbon steel

Product code	PU	L	CL_{lap}	A14
CDL-A14-4,8×20	100	20	0.8–2.0	1793725

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CLap.



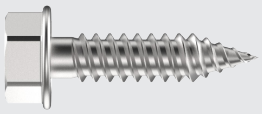


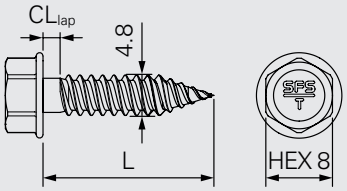
Accessories

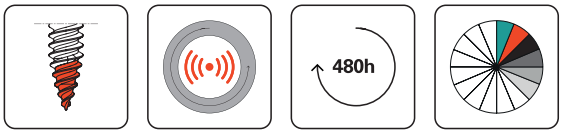
Product description	PU	Insert drive	Recess	L	
ZA 1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308-¼"-50	1	¼"	HEX8	50	1646160

*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

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_I)		Component 2 (t_{II})	
Steel	0.63–1.25	Steel	0.63–1.25
Steel	2x 0.63–0.75	Steel	2x 0.63–0.75

Condition: Total thickness within CL_{lap}

Fastener material

Carbon steel, hardened, Durocoat® 480

Approvals

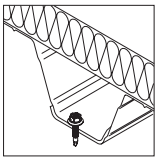
CE 23
ETA-22/0605

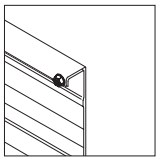
FM APPROVED

BRE Global Verified EPD

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 zinc coating



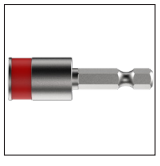


Fastener in carbon steel onto steel

Product code	PU	L	CL_{lap}	
CDM-4,8×20	1000	20	1.2–3	1687513

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.



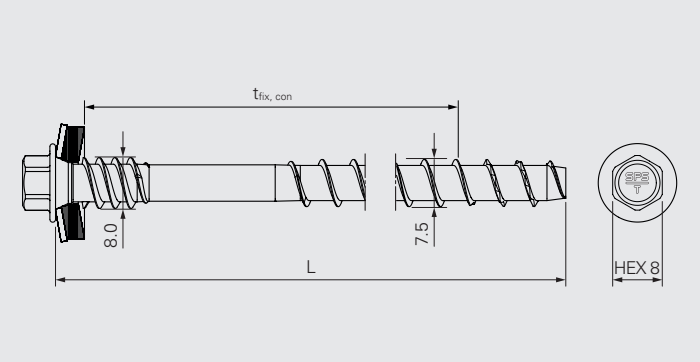


Accessories

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

MDC-7.5

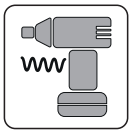












Description

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_I)		Component 2 (t_{II})	
Steel[1)]	0.4–1.5	Concrete (embedment depth)	h_{nom} ≥35/55

Pre-drill Ø 6.0

[1)] Cover sheet in case of sandwich panel

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Austenitic stainless steel A2, EPDM-seal

Approvals

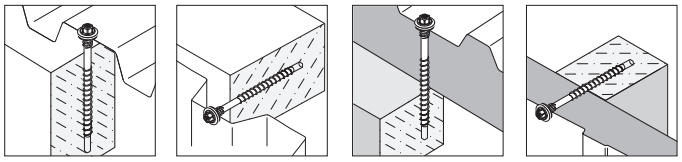
FM APPROVED

CE 21

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

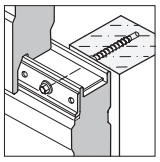


Fastener in carbon steel onto concrete

Product code	PU	L	CL_{con}	$t_{fix, con}$	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 $CL_{con,}$ and $t_{fix, con.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

Without approval

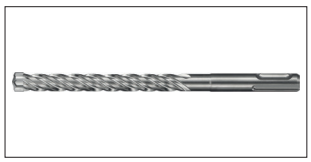


Fastener in carbon steel onto concrete

Product code	PU	L	CL_{con}	$t_{fix, con}$	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	1580960

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 $CL_{con,}$ and $t_{fix, con.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

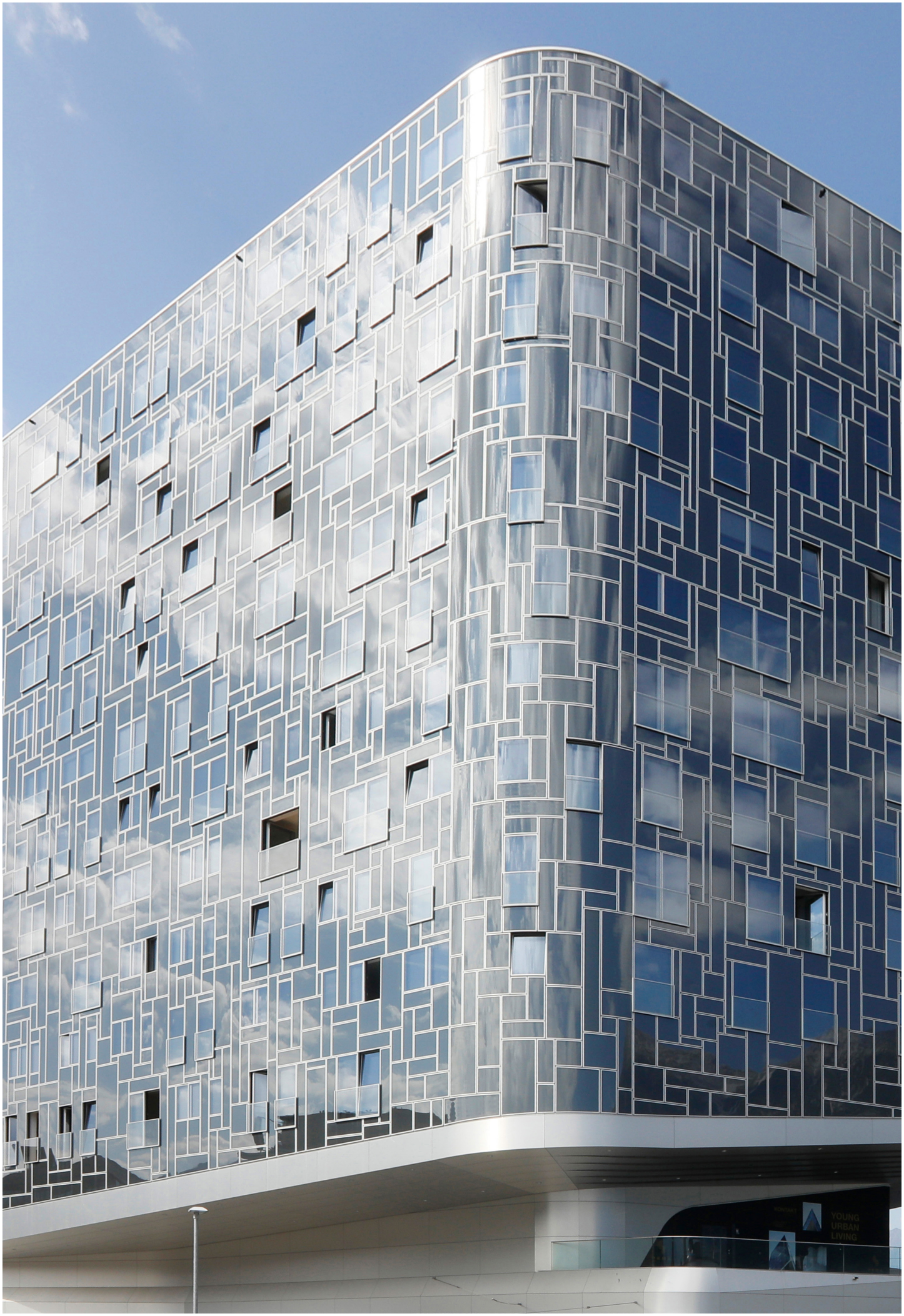




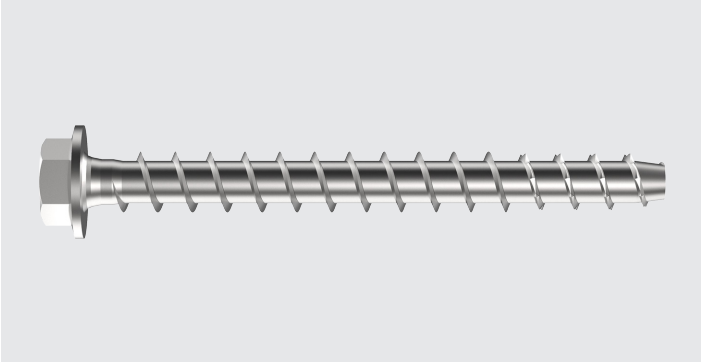


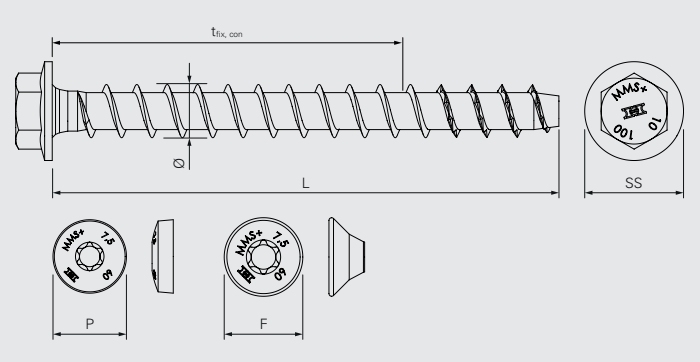
Accessories

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


YOUNG
URBAN
LIVING

MMS-plus







Description

Self-tapping fastener made of carbon steel

Application

Fastening of metal decks, linear trays onto concrete

Fastening of metal plates, profiles, brackets 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

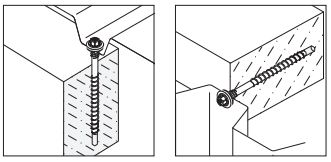
Carbon steel, hardened, galvanized

Approvals

CE 21
ETA-15/0784

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



Fastener in carbon steel onto concrete - countersunk head

Product code	PU	L	t_{fix} con	Ø F	Drive	
MMS-plus-F-C16-7,5×50	100	50	0–15	16	T40	1205043
MMS-plus-F-C16-7,5×60	50	60	0–5/25			1205044
MMS-plus-F-C16-7,5×70		70	0–15/35			1205045
MMS-plus-F-C16-7,5×80		80	0–25/45			1205046
MMS-plus-F-C16-7,5×100		100	0–45/65			1205047
MMS-plus-F-C16-7,5×120		120	0–65/85			1205048
MMS-plus-F-C16-7,5×140		140	0–85/105			1205049
MMS-plus-F-C16-7,5×160		160	0–105/125			1205050
MMS-plus-F-C20-10×60	25	60	0–10	20	T45	1205051
MMS-plus-F-C20-10×70		70	0–5/20			1205052
MMS-plus-F-C20-10×80		80	0–15/30			1205053
MMS-plus-F-C24-12×90	25	90	0-1/15	24	T50	1205054
MMS-plus-F-C24-12×100		100	0–10/25			1205055
MMS-plus-F-C24-12×120		120	0–30/45			1205056

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t_{fix},con

Fastener in carbon steel onto concrete - flat pan head

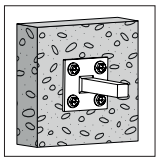
Product code	PU	L	t_{fix} con	Ø F	Drive	
MMS-plus-P-D15-7,5×40	100	40	0–5	15	T30	1205033
MMS-plus-P-D15-7,5×50		50	0–15			1205034
MMS-plus-P-D15-7,5×60	50	60	0–5/25			1205035

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t_{fix},con

Fastener in carbon steel onto concrete - hex head

Product code	PU	L	t_{fix} con	Ø F	Drive	
MMS-plus-SS-7,5×40	100	40	0–5	14	HEX10	1204988
MMS-plus-SS-7,5×50	50	50	0–15			1204989
MMS-plus-SS-7,5×60		60	0–5/25			1204990
MMS-plus-SS-7,5×70		70	0–15/35			1204991
MMS-plus-SS-7,5×80		80	0–25/45			1204992
MMS-plus-SS-7,5×100		100	0–45/65			1205083
MMS-plus-SS-7,5×120		120	0–65/85			1205084
MMS-plus-SS-7,5×140		140	0–85/105			1205085

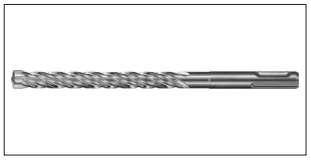
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t_{fix},con
t_{fix} Calculated with two different embedment depths



Fastener in carbon steel onto concrete - hex head

Product code	PU	L	t_{fix} con	Ø F	Drive	
MMS-plus-SS- 10x60	25	60	0-10	19	HEX13	1204993
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
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			1205002

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to t_{fix},con
t_{fix} Calculated with two different embedment depths



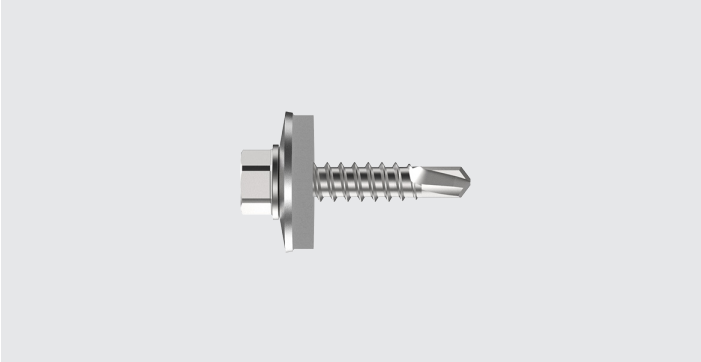
Drill bits

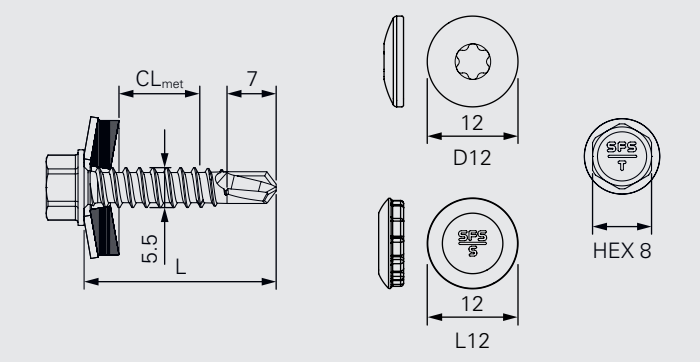
Product code	PU	D	Length	WL	FL	
SDS-6×215/150-4C	1	6	215	150	150	1487583
SDS-8×215/150-4C		8				1487585
SDS-10×215/150-4C		10				1487586

Accessories

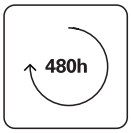
Product code	PU	Drive	Head Drive	Item Number
E313-¼"-50	1	¼"	HEX13	508029
10mm Magnetic Hex Socket			HEX10	1237597
T30-25-HEX¼" SDS-10×210/150-4C	10		T30	24010
T40-25-HEX¼"			T40	769474
Bit holder ZA¼"	1		-	1162306
T30-40-½"	10	½"	T40	1489155
T45-40-½"			T45	1489157
T50-40-½"			T50	1489158
T30-40-½"			T30	1489154

SD3-5.5/SDL3-5.5









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
Fastening of profile sheets onto metal decks.

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	1.25–2.5
		Steel	2×0.75–1.5

Fastener material

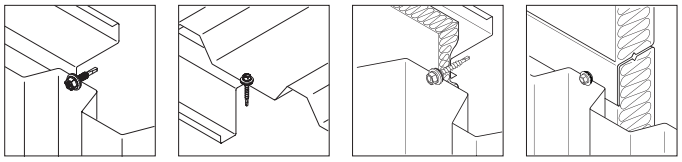
Carbon steel, hardened, Durocoat® 480
Sealing washer: Carbon steel galvanized, EPDM-seal

Features and Benefits

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

Approvals

FM APPROVED



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	T16
SD3-T16-5,5×25	500	25	0–11	1506612
SD3-L12-T16-5,5 x 38		38	0-24	734483
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 $CL_{met.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	No washer	T16
SD3-D12-5,5x22	500	22	0–8	3761	-
SDL3-L12-5,5x25		25	3-14	968400	-
SDL3-L12-T16-5,5x25			0-11	-	1506893

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

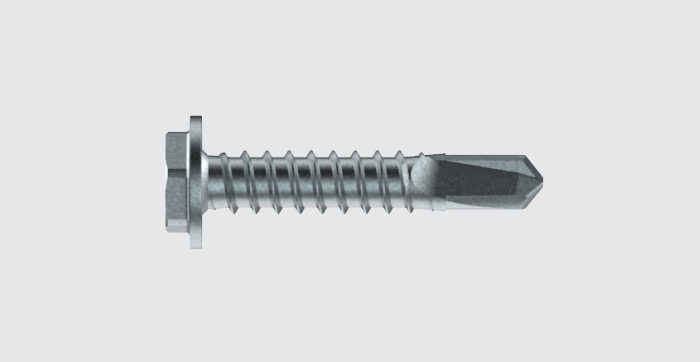


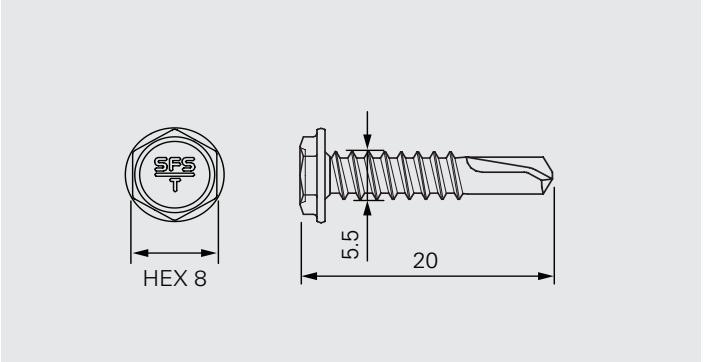
Accessories/Ancillaries

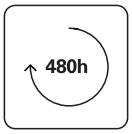
Product code	PU	Drive	Head Drive	Length	
ZA1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308–¼"–50	1	¼"	HEX8	50	1646160
Socket E420–¼"–74	1	¼"	Irius®	74	973316
Bit Holder ZA¼"	1	¼"	¼"	58	1162306
T25W–25–HEX¼"	1	¼"	T25W	25	7662

*Please Note: Socket E380 needs to be used in conjunction with the ZA¼" drive bar

SD5-LH-5.5







Description

Self-drilling fastener made from carbon steel and low head design

Application

Fastening of light gauge steel framing

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Steel	0.50–1.50	Steel	1.50–4.50	5.0

Fastener material

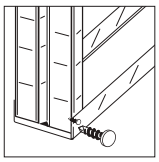
Carbon steel, Durocoat® 480

Features and Benefits

- Low head design to minimise projection once installed
- Self-drilling fastener suitable for installation of profile sheets
- High corrosion durability thanks to special galvanic zinc coating

Approvals

-



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SD5-LH-5,5×20	100	20	0–10	1042834

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

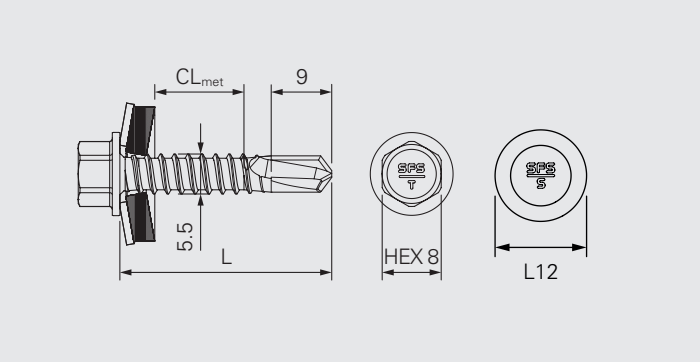


Accessories/Ancillaries

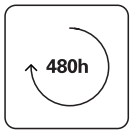
Product code	PU	
ZA1/4" LH nutsetter	1	1184669

SD6-5.5









Description

Self-drilling fastener made of carbon steel with sealing washer

Application

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

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	1.5–5.0

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Features and Benefits

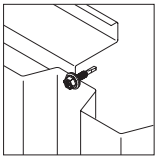
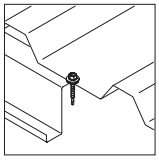
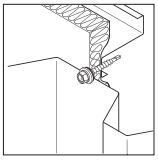
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

Approvals

CE 23
ETA-22/0605

FM APPROVED

BRE Global Verified EPD

Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	T16
SD6-T16-5,5×28	100	28	0–13	1506612
SD6-T16-5,5x38	100	38	0–-23	1423700
SD6-L12-T16-5,5x28	100	28	0–13	1423575

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

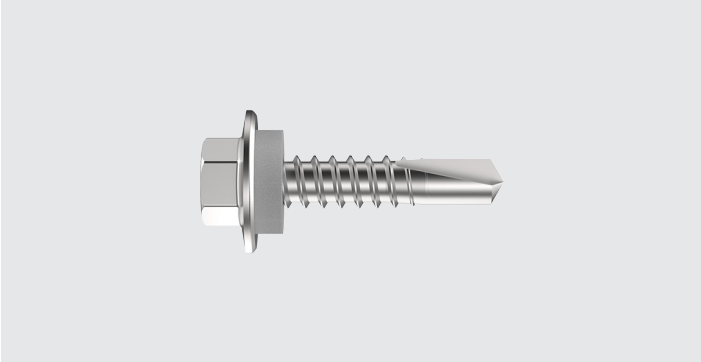


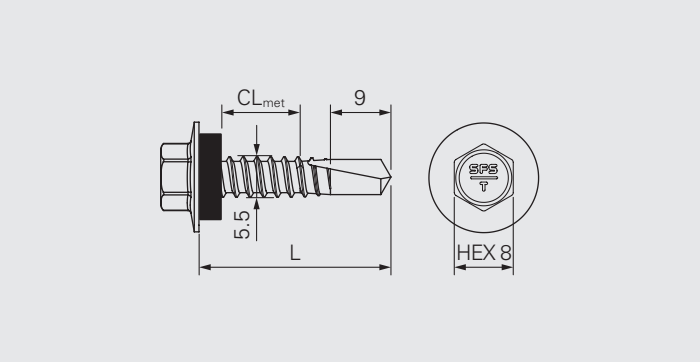

Accessories/Ancillaries

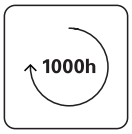
Product code	PU	Drive	Head Drive	Length	
ZA1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308- ¼" -50	1	¼"	HEX8	50	1646160
Socket E420- ¼" -74	1	¼"	Irius®	74	973316
SOK-IT- ¼"- 57-8NM	1	¼"	HEX8	57	1667322

*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

SD6-H15-E11-5.5







Description

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

Application

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

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.63–1.5	Steel	1.5–5.0

Fastener material

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

Approvals

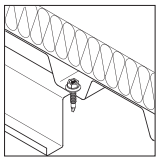
CE 23
ETA-22/0605

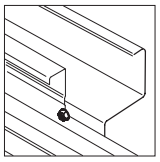
FM APPROVED

BRE Global Verified EPD

Features and Benefits

- Wide flange for high technical values in the application
- Reduces risk of over drilling due to the cone geometry under the fastener head and the deformation of the EPDM ring
- Increased security against unwinding
- High corrosion durability by double coating





Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SD6-H15-E11-5,5×22	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_{met}.



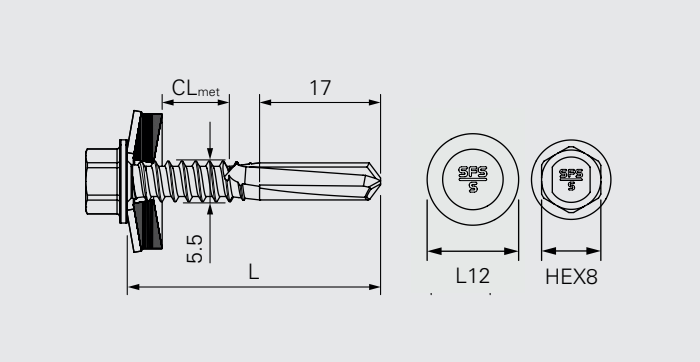


Accessories

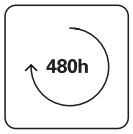
Product description	PU	Drive	Head Drive	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

SD14-5.5









Description

Self-drilling fastener made of carbon steel with sealing washer

Application

Fastening of profile sheets onto steel beams
Fastening of profile sheets onto liner trays

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	3.0–12.0

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Features and Benefits

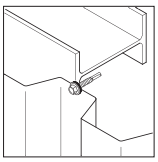
- High drilling performance for heavy steel beams
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability

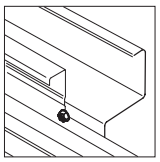
Approvals

CE 23
ETA-22/0605

FM APPROVED

BRE Global Verified EPD





Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	T16
SD14-T16-5,5×34	100	34	0-10	1423111
SD14-T16-5,5×48	100	48	0-24	1423120
SD14-T16-5,5×58	100	58	0-34	1423121
SD14-L12-T16-5,5x34	100	34	0-10	1423115

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



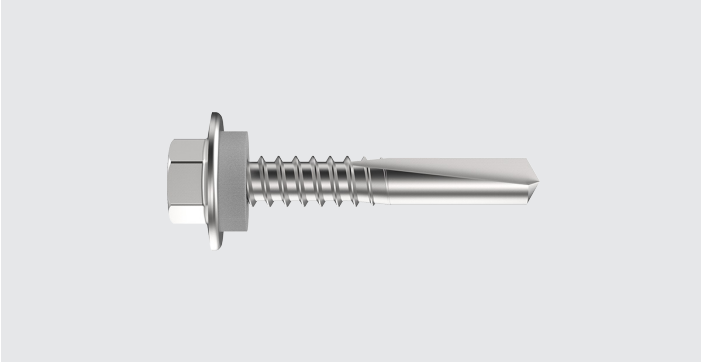


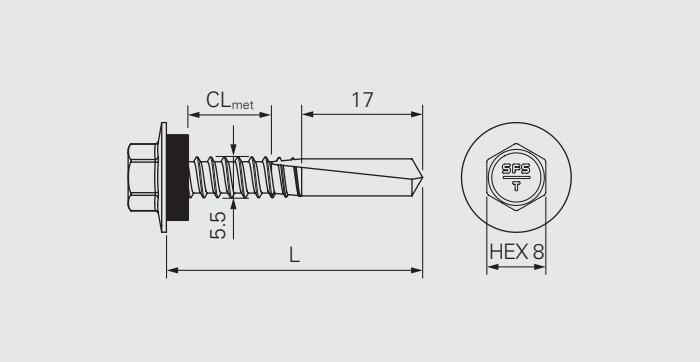


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length		
ZA1/4" drive bar*	1	¼"	⅜"	50		7645
Socket E380*	1	⅜"	HEX8	34		8018
Socket E308- ¼" -50	1	¼"	HEX8	50		1646160
Socket E420- ¼" -74	1	¼"	Irius®	74		973316
SOK-IT- ¼"- 57-8NM	1	¼"	HEX8	57		1667322

SD14-H15-E11-5.5





480h

Description

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

Application

Fastening of metal decks onto steel beams

Fastening of liner trays onto steel beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.63–1.5	Steel	3.0–12.0

Fastener material

Carbon steel, hardened, Durocoat® 480

EPDM-seal ring

Approvals

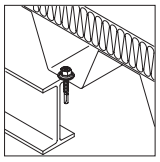
CE 23
ETA-22/0605

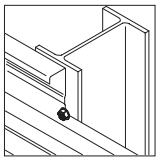
FM APPROVED

BRE Global Verified EPD

Features and Benefits

- High drilling performance for heavy steel beams
- Wide flange for high technical values in the application
- Reduces risk of over drilling due to the cone geometry under the fastener head and the deformation of the EPDM ring
- Increased security against unwinding
- High corrosion durability by double coating



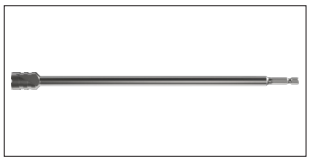


Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SD14-H15-E11-5,5×34	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_{met}.

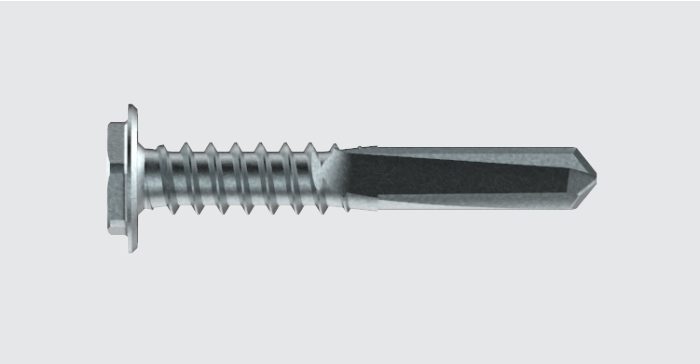


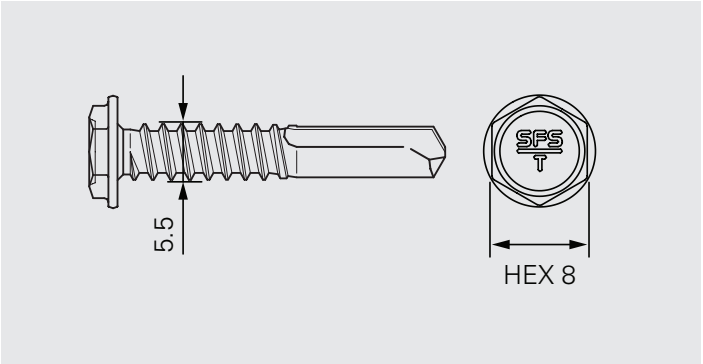


Accessories/Ancillaries

Product code	PU	Drive	Head drive	
SOK-IT-¼"-57-8Nm	1	¼"	HEX8	1667322
Drive shaft H15 head	5		H15	1517546

SD14-LH-5.5





480h

Description

Self-drilling fastener made from carbon steel and low head design

Application

Fastening of light gauge steel framing

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Steel	0.50–1.50	Steel	1.50–4.50	5.0

Fastener material

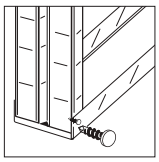
Carbon steel, Durocoat® 480

Features and Benefits

- Low head design to minimise projection once installed

Approvals

BRE Global Verified EPD



Fastener in carbon steel onto steel

Product code	PU	L	CLmet	
SD14-LH-5,5×34	100	34	0–23	1673534

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

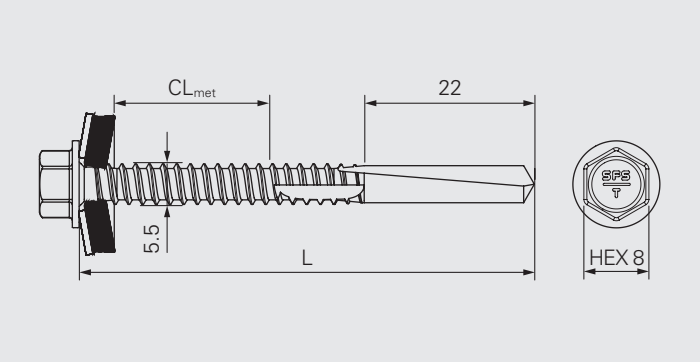


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA1/4"-LH-NUTSETTER	1	¼"	HEX8	51	1184669

SD20-5.5





480h

Description

Self-drilling fastener made of carbon steel with sealing washer

Application

Fastening of profile sheets onto steel beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Steel	3.0–18.0

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

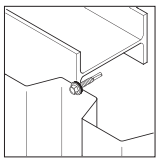
Features and Benefits

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

Approvals

CE 23
ETA-22/0605

BRE Global Verified EPD



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	T16
SD20-T16-5,5×50	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 CLmet.





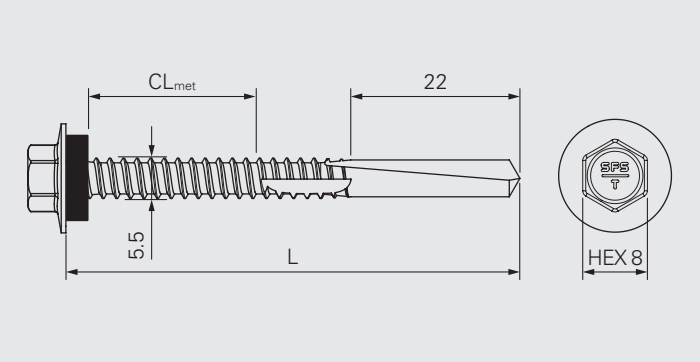
Accessories/Ancillaries

Product code	PU	Drive	Head drive	
SOK-IT-¼"-57-8Nm	1	¼"	HEX8	1667322
Socket E308-¼"-50	1	¼"	HEX8	1646160
ZA¼"" drive bar*	1	¼"	⅜"	7645
Socket E380*	1	⅜"	HEX8	8018 *Socket

*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar

SD20-H15-E11-5.5





480h

Description

Self-drilling fastener made of carbon steel with EPDM ring

Application

Fastening of metal decks onto steel beams

Fastening of liner trays onto steel beams

Component 1 (t_I)		Component 2 (t_{II})	
Steel	0.63–1.5	Steel	3.0–18.0

Fastener material

Carbon steel, hardened, Durocoat® 480

EPDM-seal ring

Approvals

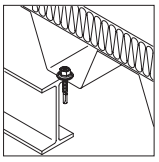
CE 23
ETA-22/0605

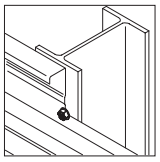
FM APPROVED

BRE Global Verified EPD

Features and Benefits

- High drilling performance for heavy steel beams
- Wide flange for high technical values in the application
- Reduces risk of over drilling due to the cone geometry under the fastener head and the deformation of the EPDM ring
- Increased security against unwinding
- High corrosion durability by special galvanic coating



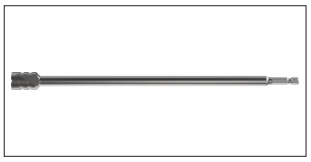


Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SD20-H15-E11-5,5×50	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_{met}.

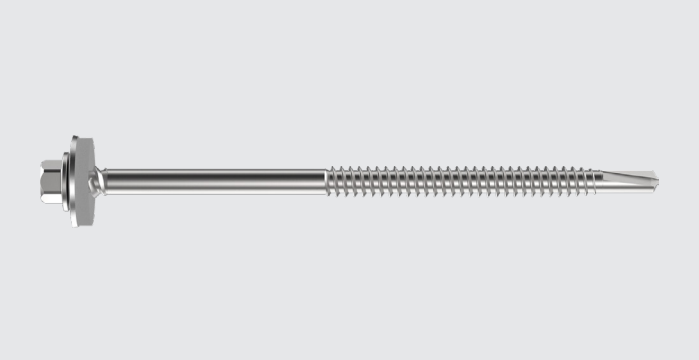


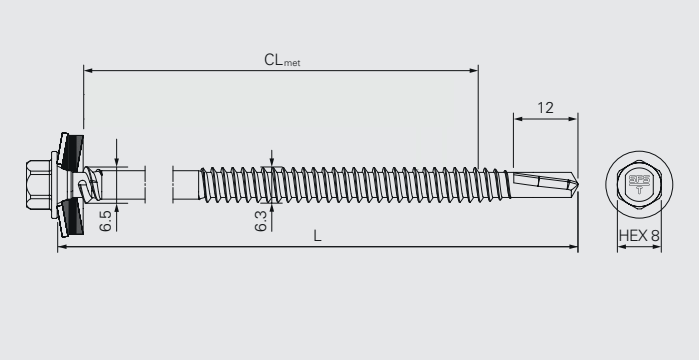


Accessories/Ancillaries

Product code	PU	Drive	Head drive	
SOK-IT-¼"-57-8Nm	1	¼"	SW8	1667322
Drive shaft H15 head	5		H15	1517546

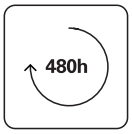
SDC5-6.3













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_I)		Component 2 (t_{II})	
Steel [1]	0.4–1.5	Steel	1.0–4.0
		Steel	2×0.75–2.5
		Timber	l_{ef} ≥25

[1] Cover sheet in case of sandwich panel

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Approvals

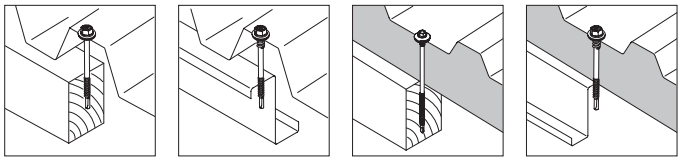
CE 22
ETA-21/0784

FM APPROVED

BRE Global Verified EPD

Features and Benefits

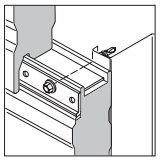
- Fastener design for high technical values in the application
- Perfect support function by double support thread
- Long drill point for easy drilling through overlapped metal profiles
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut-off thread-end

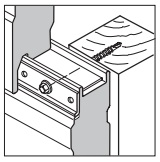


Fastener in carbon steel onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	S16	S19	S29
SDC5-S19-6,3×80	100	80	30–57	15-40	1779039	1779223	1750860
SDC5-S19-6,3×100		100	40–77	25-60	1779040	1719227	175073
SDC5-S19-6,3×120		120	50–97	35-80	1779041	1779229	1750874
SDC5-S19-6,3×140		140	70–117	55-100	1779045	1779230	1750875
SDC5-S19-6,3×160		160	90–137	75-120	1779189	1779231	1750877
SDC5-S19-6,3×190		190	110–167	95-150	1779191	1779252	1750879
SDC5-S19-6,3×220		220	140–197	125-180	1779205	1779253	1750881

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met} and $T_{fix,timb}$..
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.





Fastener in carbon steel onto steel and timber

Product code	PU	L	CL_{met}	$T_{fix,timb}$	no washer
SDC5-6,3×80	100	80	33–60	18-43	1685088
SDC5-6,3×100		100	43–80	28-63	1685089
SDC5-6,3×120		120	53–100	38-83	1685090
SDC5-6,3×140		140	73–120	58-103	1685091
SDC5-6,3×160		160	93–140	78-123	1685092
SDC5-6,3×190		190	113–170	98-153	1685093
SDC5-6,3×220		220	143–200	128-183	1685094

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met} and $T_{fix,tim}$
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

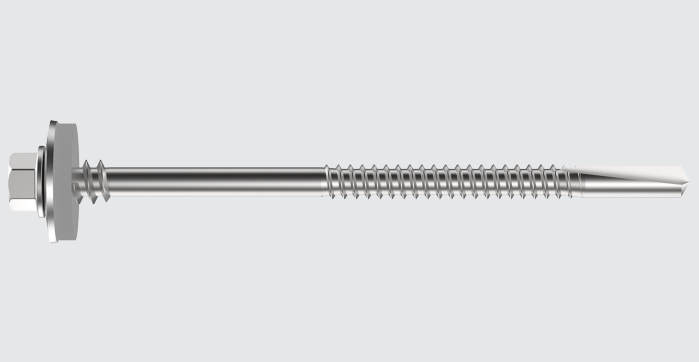


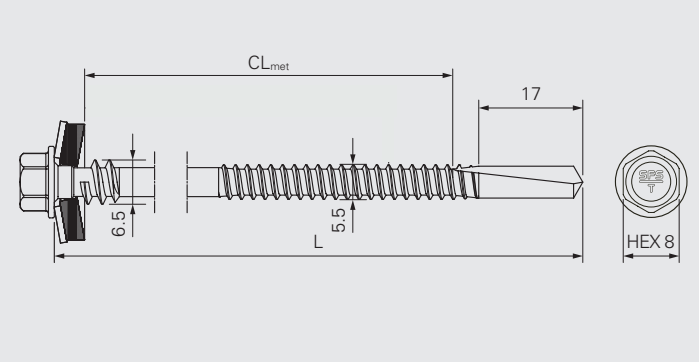
Accessories

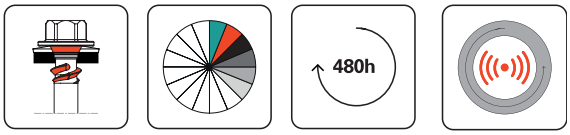
Product description	PU	Insert drive	Recess	L	
Socket E308-¼"-50	1	HEX¼"	HEX8	50	1646160



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_I)		Component 2 (t_{II})	
Steel [1]	0.4–1.5	Steel	3.0–12.0

[1] Cover sheet in case of sandwich panel

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

Approvals

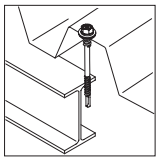
CE 22
ETA-21/0784

FM APPROVED

BRE Global Verified EPD

Features and Benefits

- High drilling performance for heavy steel beams
- Perfect supporting of the sandwich panel outer-skin given by support thread with cut off thread end
- High corrosion durability by special galvanic or duplex coating
- High quality EPDM-seal with long durability
- Paintable up to fastener length 158 mm

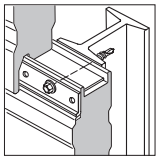


Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	S16	S19	S29
SDC14-S19-5,5×98	100	98	40–73	1779476	1468447	1605871
SDC14-S19-5,5×118		118	50–93	1779479	1472498	1641407
SDC14-S19-5,5×138		138	70–113	1779480	1425651	1469285
SDC14-S19-5,5×158		158	90–133	1779482	1430149	1500993
SDC14-S19-5,5×188		188	110–163	1779483	1779564	1752519
SDC14-S19-5,5×218		218	140–193	1779484	1779565	1752592

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.

See approval OEM



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	no washer
SDC14-5,5×98	100	98	43–76	1779348
SDC14-5,5×118		118	53–96	1779349
SDC14-5,5×138		138	73–116	1779351
SDC14-5,5×158		158	93–136	1779352
SDC14-5,5×188		188	113–166	1779662
SDC14-5,5×218		218	143–196	1779356

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.





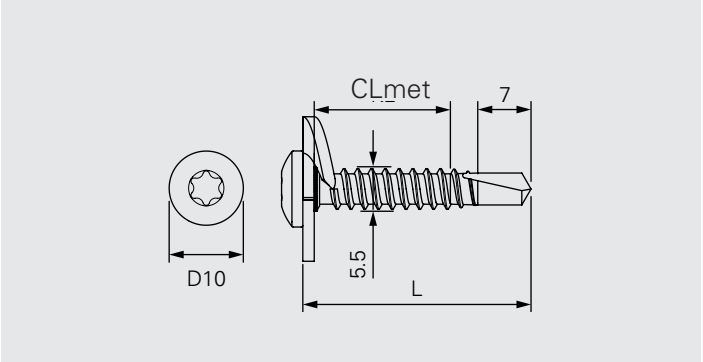
Accessories

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



SDP3-D10-TC19-5.5









Description

Self-drilling fastener with a self-coring washer made from carbon steel.

Application

Fastening of single-ply insulated roof panels onto metal profiles

Component 1 (t_I)		Component 2 (t_{II})	
Steel [1]	0.5–1.0	Steel[1]	0.5–1.0
		Steel	1.0–3.0

[1] Inner cover sheet

Fastener material

Carbon steel, Durocoat® 480

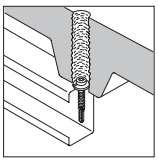
Cutting disc: Carbon steel

Approvals

BRE Global Verified EPD

Features and Benefits

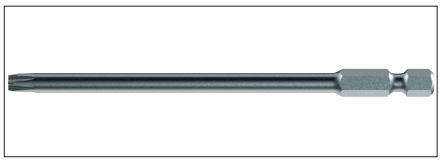
- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- High corrosion resistance thanks to special galvanic zinc coating
- Self coring fastener without disruption of the insulating material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



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SDP3-D10-TC19-5,5×30	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_{met}.

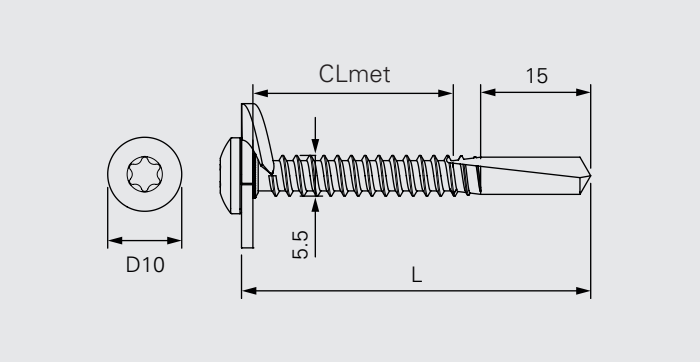


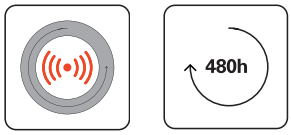
Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
T25W-175-HEX1/4"	1	¼"	T25W	175	727979
T25HF-240-HEX1/4"	1	¼"	T25W	240	1223621

SDP14-D10-TC19-5.5







Description

Self-drilling fastener with a self-coring washer made from carbon steel.

Application

Fastening of single-ply insulated roof panels onto metal beams

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

Fastener material

Carbon steel, Durocoat® 480

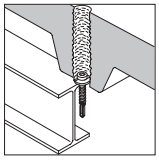
Cutting disc: Carbon steel

Approvals

BRE Global Verified EPD

Features and Benefits

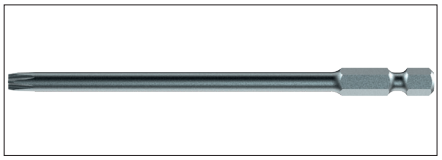
- Self drilling fastener suitable for installation of single-ply insulated roof panels
- No pre-drilling of PVC membrane and insulation required thanks to cutting-washer
- High performance drill point for heavy steel beams
- High corrosion resistance thanks to special galvanic zinc coating
- Self coring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



Fastener in carbon steel onto steel

Product code	PU	L	CLmet	
SDP14-D10-TC19-5,5×46	250	46	0–22	1645606

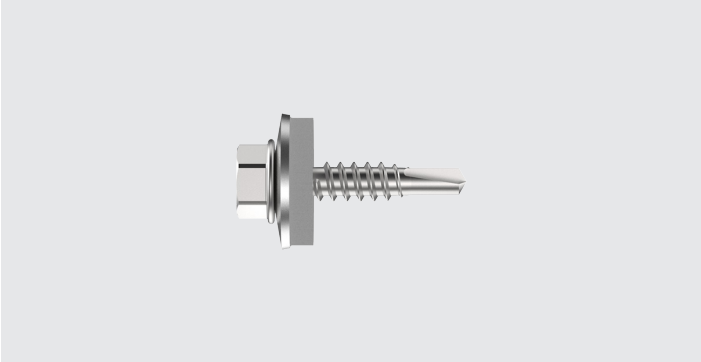
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

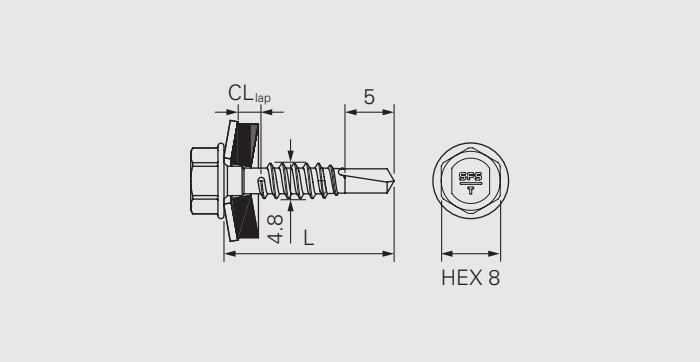


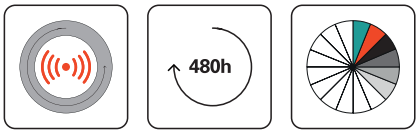
Accessories/Ancillaries

Product code	PU	Drive	Head drive	Length	
T25W-175-HEX1/4"	1	¼"	T25W	175	727979
T25HF-240-HEX1/4"				240	1223621

SL2-T-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_I)		Component 2 (t_{II})	
Steel	0.4–1.5	Steel	0.4–1.5

Condition: Total thickness within CL_{lap}

Fastener material

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

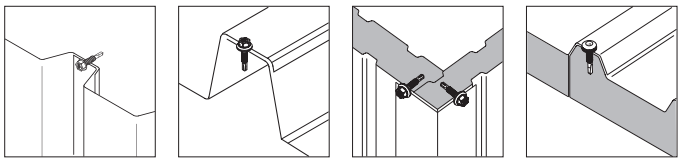
Approvals

CE 23
ETA-22/0605

BRE Global Verified EPD

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
- High quality EPDM sealing washer for long term weather sealing



Fastener in carbon steel onto steel

Product code	PU	L	CL_{lap}	A14	No washer
SL2-T-A14-4.8x20	100	20	0.80–2.5	3041	-
SL2-T-4.8x20			1.2–3	-	1215081

Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.

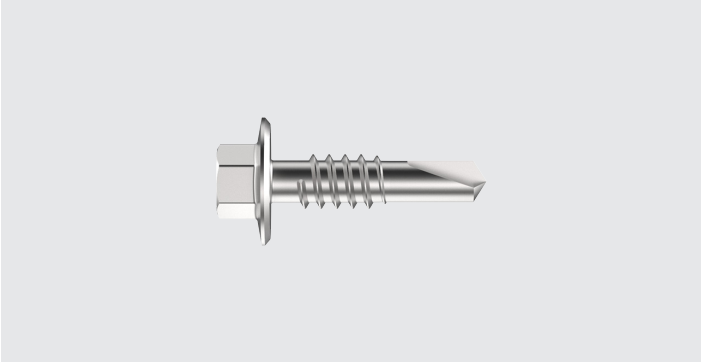


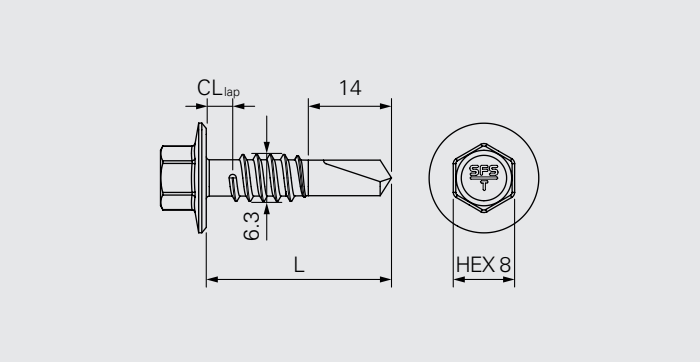
Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA 1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*		⅜"	HEX8	34	8018
Socket E308-1/4"-50		¼"	HEX8	50	1646160

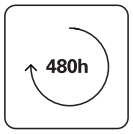
*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

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_I)		Component 2 (t_{II})	
Steel	0.63–2.0	Steel	0.63–2.0
Steel	2×0.63–0.88	Steel	2×0.63–0.88

Condition: Total thickness within CL_{lap}

Fastener material

Carbon steel, hardened, Durocoat® 480

Features and Benefits

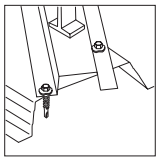
- Wide flange for high technical values in the application
- No torque control required thanks to the free-spin zone
- Comfortable installation without overwinding risk
- High security against unwinding by the cut-off thread-end
- High corrosion durability by special galvanic coating

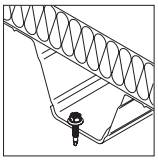
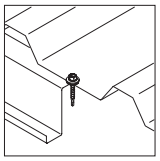
Approvals

CE 23
ETA-22/0605

FM APPROVED

BRE Global Verified EPD



Fastener in carbon steel onto steel

Product code	PU	L	CL_{lap}	
SL3-H15-6,3×32	500	32	1.2–3.5	1742735

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.

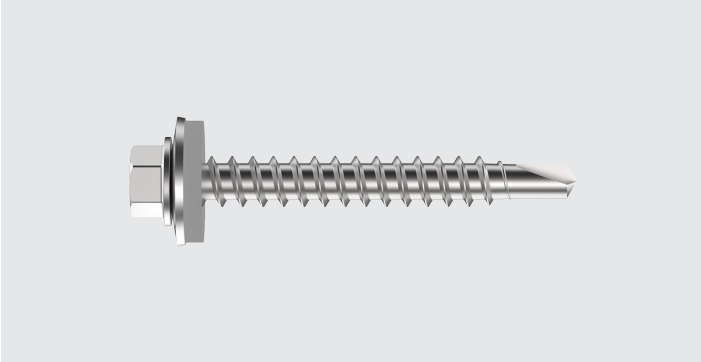


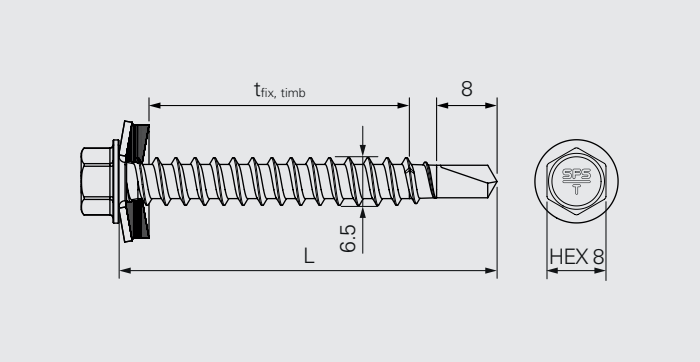


Accessories

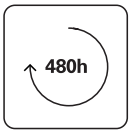
Product description	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-8Nm	1	HEX¼"	HEX8	57	1667322
Socket E308-¼"-50				50	1646160

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_I)		Component 2 (t_{II})	
Steel	0.5–1.5	Timber	l_{ef} ≥35

Fastener material

Carbon steel, hardened, Durocoat® 480

Sealing washer: Carbon steel galvanized, EPDM-seal

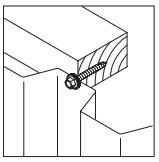
Features and Benefits

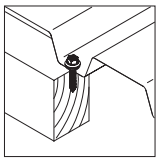
- High corrosion durability by special galvanic coating
- High quality EPDM-seal with long durability
- Reduced risk of timber splitting given by drill point

Approvals

CE 23
ETA-22/0605

BRE Global Verified EPD





Fastener in carbon steel onto timber

Product code	PU	L	$T_{fix,timb}$	
SW3-T-T16-6,5×50	100	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 CL_{met}.
Material numbers shown are for mill finish items, contact a member of the team for painted variant codes.



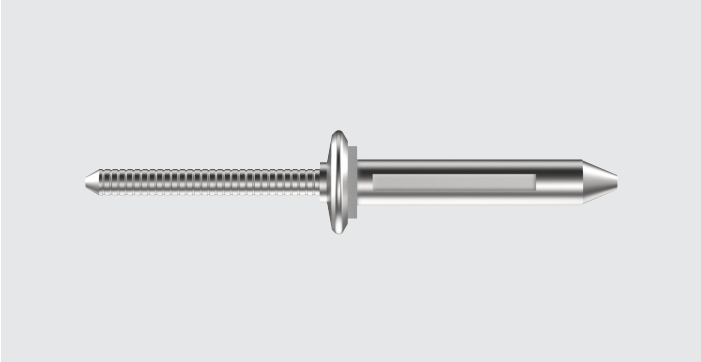


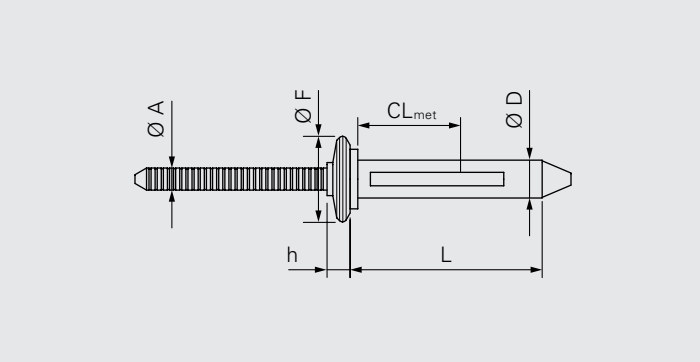
Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
ZA1/4" drive bar*	1	¼"	⅜"	50	7645
Socket E380*	1	⅜"	HEX8	34	8018
Socket E308-1/4"- 50	1	¼"	HEX8	50	1646160

*Socket E380 needs to be used in conjunction with the ZA1/4" drive bar.

BULB-TITE®









Description

Multi functional blind rivet for securing metal components.

Application

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

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Steel	≥0.40	Steel	≥0.40	–
Aluminium	≥0.50	Aluminium	≥0.50	–
Aluminium	≥0.50	Steel	≥0.50	–

Fastener material

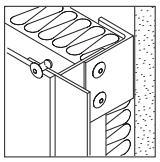
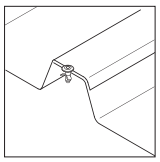
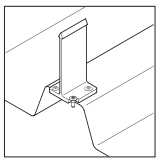
Aluminium 5056 (EN573)
Sealing washer: Neoprene

Approvals

FM APPROVED

Features and Benefits

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

Rivets in aluminium onto steel and aluminium

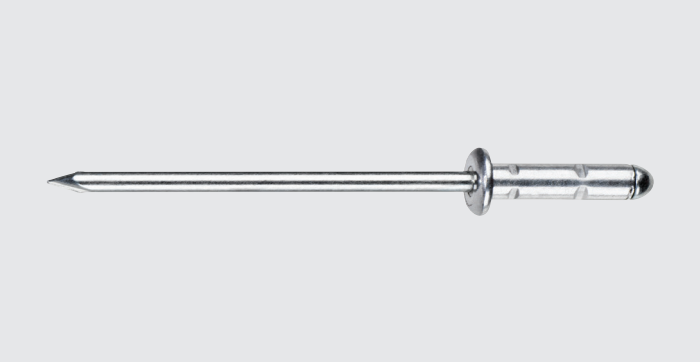
Product code	PU	Ø	L	CL_{met}	Pre-drill Ø	Ø A	Ø F	h	
RV6604/6/3W-BULB-TITE	1000	5.20	17.50	1.30–4.80	5.30–5.50	2.90	11.60	3.40	1570655
RV6604/6/4W-BULB-TITE	1000	5.20	19.10	1.60–6.40	5.30–5.50	2.90	11.60	3.40	1570656
RV6604/6/6W-BULB-TITE	1000	5.20	22.20	4.70–9.50	5.30–5.50	2.90	11.60	3.40	1570658
RV6604/6/8W-BULB-TITE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

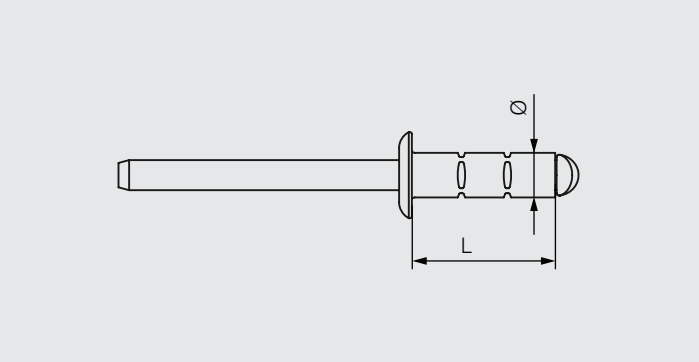


Accessories/Ancillaries

Product code	PU	Description	Material No.
PowerBird® Pro GE	1	-	1679666
Nosepiece 17/48	1	Ø Rivet compatible with: 7.7	1434989
Nosepiece 17/32	1	Ø Rivet compatible with: 5.2	1434986
PowerBird® Pro GE Battery	1	-	1679689

PolyGrip® rivets









Description

Blind Rivet for securing overlaps and flashings

Application

Joining metal to metal in side lap and flashing details

Component 1 (t_I)	Component 2 (t_{II})	$\Sigma_{max}\, t_I + t_{II}$
–	–	See CL in table

Fastener material

ST = Carbon Steel

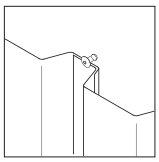
AL = Aluminium

A2 = Stainless Steel A2

A4 = Stainless Steel A4

Features and Benefits

- A wide grip range: A single PolyGrip® blind rivet can be a substitute for up to five different lengths of standard blind rivets.
- Outstanding hole filling capability: The rivet body expands radially during the setting process and compensates hole tolerances, centering deviations and differences in diameter, thus always giving a tight joint.
- Safe rest mandrel locking: PolyGrip® blind rivets neither generate rattling noises due to free moving rest mandrels nor do they allow it to fall off due to its encaging closing head and internal mandrel lock.
- Splashproof and water resistant: Hole filling and rest mandrel locking make them a real alternative to closed end rivets when it is essential to prevent water flowing through the whole joint and not only through the rivet body.
- A large head: for a high tensile and pull through resistance.



Rivets in aluminium onto steel and aluminium

Product code	L	Ø	CL	Body material	Mandrel material	Pilot hole	
PG-C A4A4 4,8X10,0 F	10.0	4.8	1.0-6.5	SS A4	SS A4	4.9	1433923
PG-C A4A4 4,8X15,0 F	15.0	4.8	5.0-10.0	SS A4	SS A4	4.9	1433924
PG-C ALA2 4,8X10,0 F "CE"	10.0	4.8	0.5-6.5	Aluminium	SS A2	4.9	1433892
PG-C ALA2 4,8X15,0 F "CE"	15.0	4.8	4.5-11.0	Aluminium	SS A2	4.9	1433893
PG-C ALA2 4,8X17,0 F "CE"	17.0	4.8	6.5-13.0	Aluminium	SS A2	4.9	1433894
PG-C ALA2 4,8X17,0 F K16,0 "CE"	17.0	4.8	6.5-13.0	Aluminium	SS A2	4.9	1433899
PG-C ALST 4,8X10,0 F "CE"	10.0	4.8	0.5-6.5	Aluminium	Steel	4.9	1433831
PG-C ALST 4,8X15,0 F "CE"	15.0	4.8	4.5-11.0	Aluminium	Steel	4.9	1433832
PG-C ALST 4,8X17,0 F "CE"	17.0	4.8	6.5-13.0	Aluminium	Steel	4.9	1433833
PG-C ALST 4,8X25,0 F "CE"	25.0	4.8	11.0-19.5	Aluminium	Steel	4.9	1433838
PG-C ALST 4,8X15,0 F "CE"-RAL9006	15.0	4.8	4.5-11.0	Aluminium	Steel	4.9	1642887
PG-C ALST 4,8X15,0 F "CE"-BS10A05	15.0	4.8	4.5-11.0	Aluminium	Steel	4.9	1381901
PG-C ALST 4,8X15,0 F "CE"-RAL9010	15.0	4.8	4.5-11.0	Aluminium	Steel	4.9	1382342
PG-C ALST 4,8X15,0 F "CE"-RAL7016	15.0	4.8	4.5-11.0	Aluminium	Steel	4.9	1381516
PG-C A2A2 4,8X10,0 F "CE"	10.0	4.8	1.0-6.5	SS A2	SS A2	4.9	1433914
PG-C A2A2 4,8X15,0 F "CE"	15.0	4.8	5.0-10.0	SS A2	SS A2	4.9	1433915
PG-C A2A2 4,8X17,0 F "CE"	17.0	4.8	8.0-12.0	SS A2	SS A2	4.9	1433916
PG-C STST 4,8X10,0 F	10.0	4.8	1.5-6.5	Steel	Steel	4.9	1433873
PG-C STST 3,2X 8,0 F (GSMD41-43SPG)	8.0	3.2	1.0-5.0	Steel	Steel	3.3	1433866

PG-C	ALA2	5,0	18,0	F	K14,0	CE	RAL9010
PG-C = PolyGrip®	Body material Mandrel material	Body diameter (mm)	Body length (mm)	Head shape F=flat dome | S=countersunk KK=small head | RK=round head	Max. head diameter (mm)	CE marked	Painting (optional)

Fastener material guide

ST = Carbon Steel
AL = Aluminium
A2 = Stainless Steel A2
A4 = Stainless Steel A4



Accessories/Ancillaries

Product code	PU	
PowerBird® Pro GE	1	1679666
PowerBird® Pro GE Battery	1	1679689



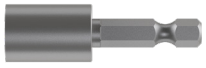
Bits, sockets and drive bars

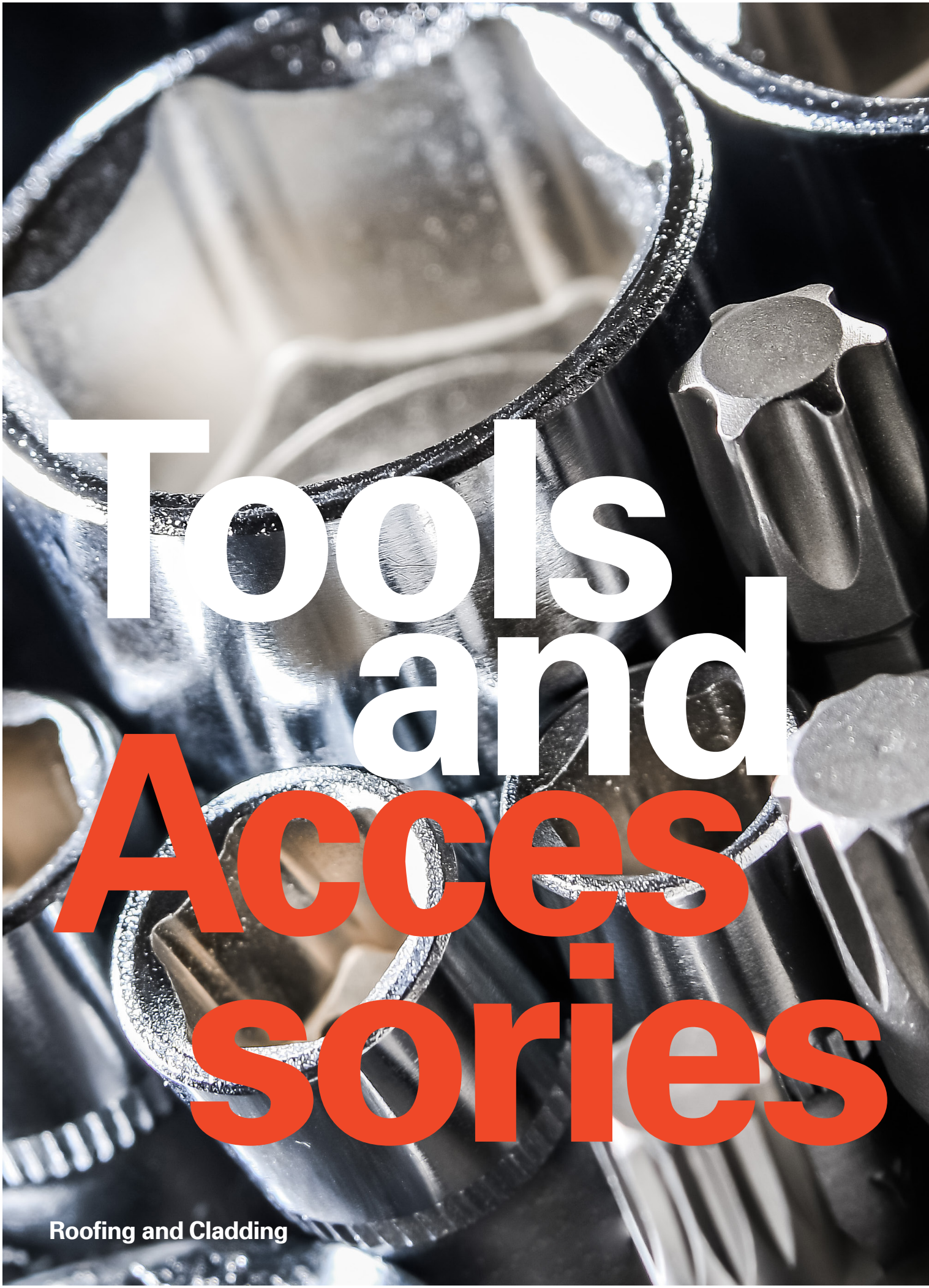


Bit holder and different T-drives

Product code	PU	Drive	Head drive	L		
Bit holder ZA¼"	1	HEX¼"	HEX¼"	58	1162306	
T25W-175-HEX¼"	5		T25W	175	727979	
T25HF-240-HEX¼"	1		T25	240	1223621	
Drive bar HEX8¼"-300			HEX8	300	1823798	
BIT HOLDER ZA¼"-300	1		HEX¼"	300	1741261	
T15-25-HEX¼"	10		T15	25	938982	
T20-25-HEX¼"			T20		769471	
T20W-25-HEX¼"			T20W		895280	
T25-25-HEX¼"			T25		24008	
T25W-25-HEX¼"			T25W		7662	
T30-25-HEX¼"			T30		24010	
T30-35-HEX½"		HEX½"		35	1690314	
T40-25-HEX¼"		HEX¼"	T40	25	769474	
T30-25-HEX¼"			T30		1690315	
T45-40-½"		HEX½"	T45	40	1489157	
T50-40-½"			T50		1489158	

Sockets

Product code	PU	Drive	Head drive	L		
E308-¼"-50	1	HEX¼"	HEX8	50	1646160	
E466-¼"-40			Square 6	40	858496	
E313-¼"-50			HEX13	50	508029	
E420-¼"-74			irius®	74	973316	
E416-½"-38		HEX½"	HEX16	38	1389740	
E516-½"-78-red				78	1649257	
SOK-IT-¼"-57-6NM		HEX¼"	HEX8	57	1667323	
SOK-IT-¼"-57-8NM					1667322	
E320-¼"-25				25	675725	
E380-⅜"-34		HEX⅜"		34	8018	
ZA-¼"-50		HEX¼"	Square ⅜"	50	7645	

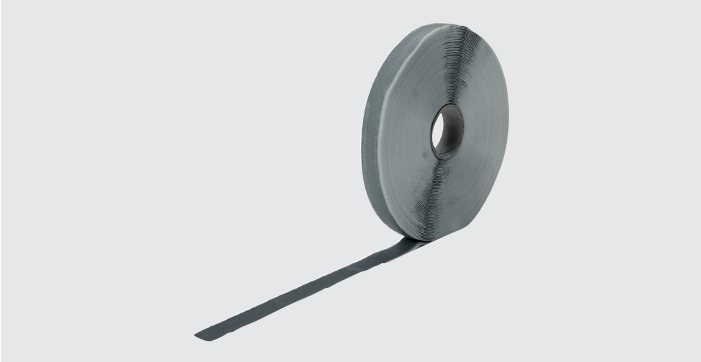


Tools and Accessories

Roofing and Cladding



Butyl tape A+



Technical characteristics

Service temperature range	–40°C up to +110°C
Application temperature range	+5°C up to +40°C
Moisture vapour transmission rate	0.15g/m²/24hr/mm

Application

Between overlaps of fastener connections in façade and roof construction including rooflights

Approvals

National Federation of Roofing Contractors (NFRC) - Class A performance

Product description

High performance butyl sealing tape

Type A+ = 25 year warranty

Features and Benefits

- High tack, self-adhesive providing excellent adhesion
- Strong and flexible
- Designed to accommodate building movement
- Range of sizes to suit applications

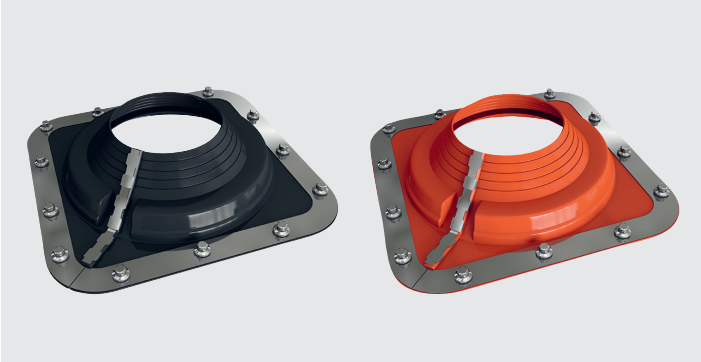
Instructions

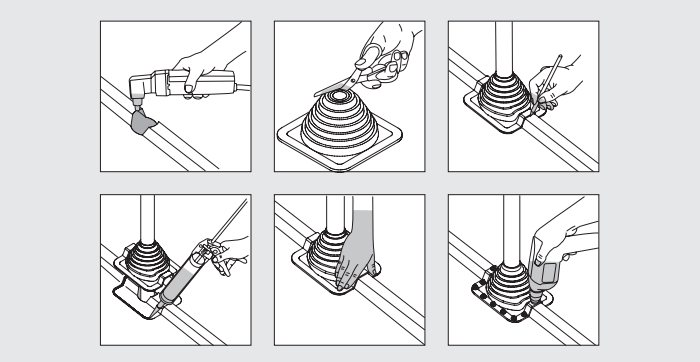
- Surfaces to be clean, dry and free from frost, grease and loose materials
- Apply directly from reel onto first surface and press along length for good initial adhesion
- Remove backing paper and offer other surface to sealant and push firmly to seal across joint

Butyl tape type A+

Product code	Wide tape (mm)	Colour	Roll length (m)	
SFS BUTYL TYPE A+ 6x5mm	5	Pink	9.6	1016775
SFS BUTYL TYPE A+ 9x3mm	9	Pink	15	1153440
SFS BUTYL TYPE A+ BEAD 6mm	6	Pink	8	1016851
SFS BUTYL TYPE A+ BEAD 8mm	8	Pink	6	1016852

Flashing Combo





Description

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

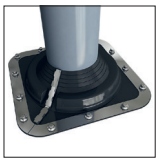
Permanently sealing of a pipe penetration – leak-proof, vibration-proof, heat-proof and weather-proof

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

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

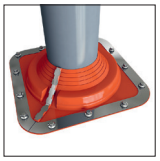
Features and Benefits

- 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



Flashing Combo EPDM black

Product code	PU	Ø min.	Ø max.	Base	Required fixing kit	
Flashing Combo N°1 5-60-BLACK	15	5	60	139	Set N°1	1541691
Flashing Combo N°3 5-127-BLACK	15	5	127	218	Set N°2	1541692
Flashing Combo N°4 75-175-BLACK	10	75	175	285	Set N°2	1522467
Flashing Combo N°5 108-190-BLACK	10	108	190	365	Set N°2	1550019
Flashing Combo N°6 125-230-BLACK	10	125	230	365	Set N°2	1522473
Flashing Combo N°7 150-280-BLACK	10	150	280	454	Set N°2	1550021
Flashing Combo N°8 175-330-BLACK	5	175	330	454	Set N°3	1522474
Flashing Combo N°9 240-503-BLACK	5	240	503	685	Set N°3	1541693
Flashing Combo N°10 400-750-BLACK	1	350	760	1000×1045	Set N°4	1541694



Flashing Combo Silicone red

Product code	PU	Ø min.	Ø max.	Base	Key to Fixings	
Flashing Combo N°1 5-60-RED	15	5	60	139	Set N°1	1565212
Flashing Combo N°3 5-127-RED	15	5	127	218	Set N°2	1565213
Flashing Combo N°4 75-175-RED	10	75	175	285	Set N°2	1565218
Flashing Combo N°5 108-190-RED	10	108	190	365	Set N°2	1565232
Flashing Combo N°6 125-230-RED	10	125	230	365	Set N°2	1565233
Flashing Combo N°7 150-280-RED	10	150	280	454	Set N°2	1565234
Flashing Combo N°8 175-330-RED	5	175	330	454	Set N°3	1565235
Flashing Combo N°9 240-503-RED	5	240	503	685	Set N°3	1565236

Fixing kit fasteners

Product code	PU	Sealant	Fastener	
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

Note: Fasteners = SX3-A12-6x29, Sealant = Coltogum sealing compound transparent

Fixing kit rivets

Product code	PU	Sealant	Fastener	
MF-SET-1-RV6604	1	1 pcs.	12 pcs.	1019640
MF-SET-2-RV6604			24 pcs.	1019651
MF-SET-3-RV6604			36 pcs.	1019652

Note: Rivets = RV6604/6/4W-BULB-TITE, Sealant = Coltogum sealing compound transparent

Single parts

Product code	PU	
SX3-A12-6×29	500	1141972
RV6604/6/4W-BULB-TITE	1000	1570656
Coltogum sealing compound	1	588087

Fixing requirements for metal sheets

Product code	SILFIX	Fastener SX3/9-A12-6,0x29	
Set N°1	1 pcs.	12 pcs.	
Set N°2	1 pcs.	24 pcs.	
Set N°3	1 pcs.	36 pcs.	
Set N°4	1 pcs.	48 pcs.	

Fixing kit onto aluminium sheets

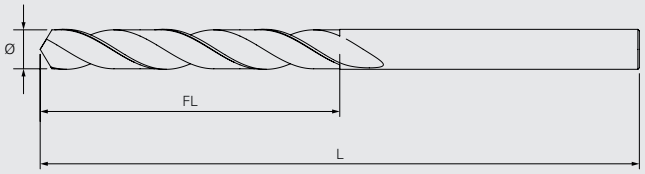
Product code	SILFIX	Rivet RV6604	
Set N°1	1 pcs.	12 pcs.	
Set N°2	1 pcs.	24 pcs.	
Set N°3	1 pcs.	36 pcs.	

Single components

Product code	PU	
SX3-A12-6 X 29	12	1710258
RV6604/6/4W-BULB-TITE	1	1570656
SILFIX-LM-Clear-310ML	1	1419193

HSS drill bits





Description

Drill bit made of HSS steel (high speed steel) for pre-drilling of construction steel, aluminium and timber

Cylindrical drill end for the use with standard drills

Inset end: Smooth shank

Features and Benefits

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

HSS drill bits

Product code	PU	D	L	FL	
HSS-4,9x62/26	1	4.90	62	26	69585
HSS-4,9x86/52			86	52	69577
HSS-4,9x132/87			132	87	69593
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-5,0x86/52			86	52	893451
HSS-5,3×60/31	1	5.30	60	31	1046734
HSS-5,3×95/31			95		1046735
HSS-5,3×125/31			125		1206451
HSS-5,3×175/31			175		1046738
HSS-5,3×220/31			220		1206450
HSS-5,3×250/31			250		1046740
HSS-5,3×290/31			290		1046751
HSS-5,5×95/31	1	5.50	95	31	1046753
HSS-5,5×175/31			175		1046755
HSS-5,5×220/31			220		1046756
HSS-5,5×250/31			250		1046757
HSS-5,5×290/31			290		1046758
HSS-5,5x93/57			93	57	893453
HSS-5,5x139/91			139	91	893277
HSS-5,7×60/31	1	5.70	60	31	1046760
HSS-5,7×95/31			95		1046772
HSS-5,7×125/31			125		1046773
HSS-5,7×175/31			175		1206429
HSS-5,7×220/31			220		1206428
HSS-5,7×250/31			250		1046777
HSS-5,7×290/31			290		1206427
HSS-5,8x93/57	1	5.80	93	57	69580
HSS-5,8x139/91			139	91	69596
HSS-7,0x109/69	1	7.00	109	69	893458
HSS-7,0x156/102			156	102	893285

Plate-40mm-9/8.0mm



Application

- Recess plate which allows a hex head fastener to sit below the external profile of the roof
- Designed for use with a fastener without a sealing washer

Material

Austentitic stainless steel A4

Product description

28mm = outer profile -Ø

8mm = inner Ø hole

40mm = total width

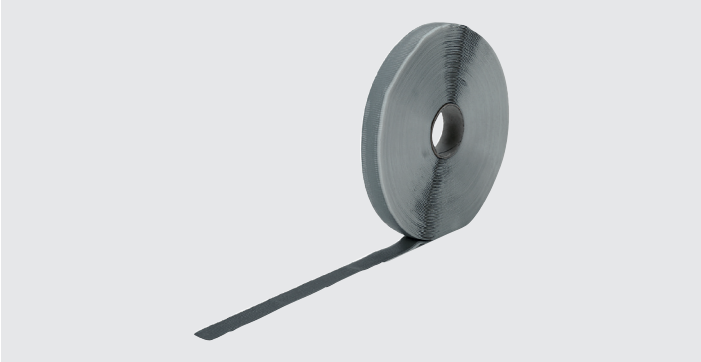
Features and Benefits

- Helps to limit damage to external roof coverings as the fastener head does not project beyond the roofline.
- Compatible with any SFS std hex head fastener
- Manufactured from AIS1316 Stainless steel providing a high corrosion resistance

Recess Plate in A4 Stainless Steel

Product code	PU	
Plate-40mm-9/8,0mm-A4	500	1428925

Polyband A/A+



Technical characteristics

Service temperature range	–40°C up to +90°C
Application temperature range	+5°C up to +40°C
Moisture vapour transmission rate	0.15g/m²/24hr/mm

Application

Air seal and moisture barrier tape developed for sealing side lap joints of metal roof, wall liners and steel decking side laps

Approvals

National Federation of Roofing Contractors (NFRC) - Class A performance

Product description

High performance butyl sealing tape

Type A = 10 year warranty

Type A+ = 25 year warranty

Features and Benefits

- High tack, self adhesive providing excellent adhesion
- High strength non-tear laminated film
- Self wound reels for easy application
- Reduces condensation and increases airtightness in buildings
- Can be used on purlins to reduce cold bridging

Instructions

- Surfaces to be clean, dry and free from frost, grease and loose materials
- Apply directly from reel onto first surface and press along length for good initial adhesion
- Remove backing paper and offer other surface to sealant and push firmly to seal across joint

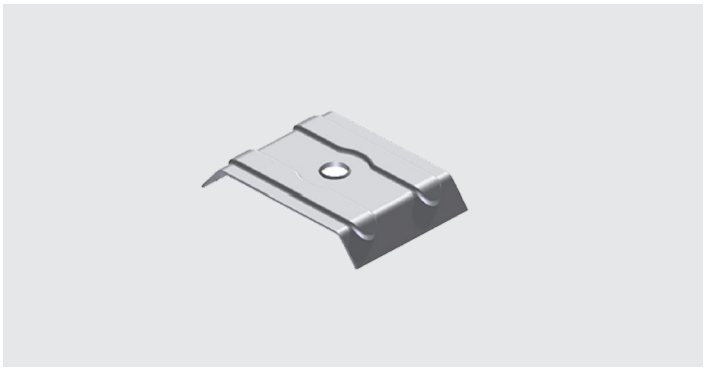
Polyband type A

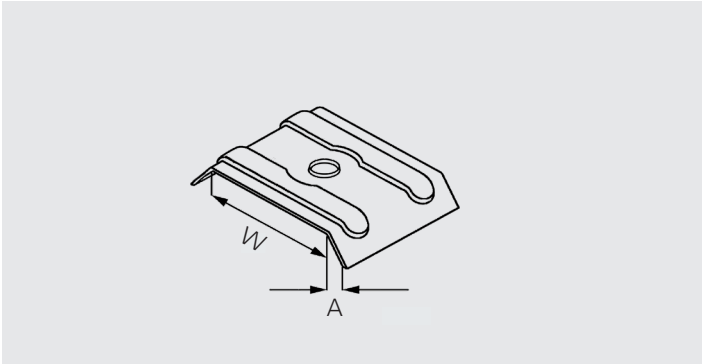
Product code	Wide tape (mm)	Colour	Roll length (m)	
POLYBAND A	50	Clear/white	35	998427

Polyband type A+

Product code	Wide tape (mm)	Colour	Roll length (m)	
POLYBAND A+	50	Pink	35	1016857

Saddle washer - CA







Application

- Crown fixing of rooflights
- Crown fixing of panel laps

Material

Aluminium - ALMG3/AW5754 - Closed cell black EPDM

Product description

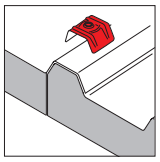
7.2 mm = inner Ø hole

W = Width

A = Angle°

Features and Benefits

- 1mm aluminium with closed cell EPDM for weather-sealing
- Reinforcement ribs to increase holding performance
- Tested to ISO 845, ISO 1798 and ASTM D 1056
- Available in a selection of colours



Saddle washer in aluminium

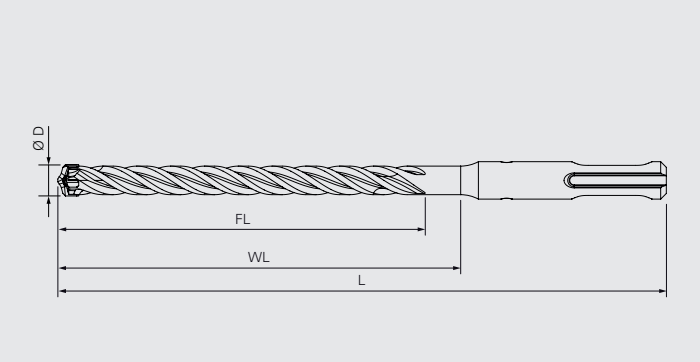
Product code	PU	W	A	L	
CA-W34/23	100	34	23	40	1673793
CA-W34/23-BS10A05	100	34	23	40	1789799
CA-W24/23-RAL2002	100	34	23	40	1715229

Available in additional RAL colours below:

RAL	Colour	RAL	Colour	RAL	Colour
1015	Light Ivory	6011	Reseda Green	8011	Nut Brown
3000	Flame Red	6020	Chromium Green	8012	Red Brown
3005	Wine Red	6021	Pale Green	8014	Sepia Brown
3009	Oxide Red	7005	Mouse Grey	8016	Mahogany Brown
3011	Brown Red	7012	Basalt Grey	8017	Chocolate Brown
3020	Traffic Red	7015	Slate Grey	8019	Grey Brown
5008	Grey Blue	7016	Anthracite Grey	9001	Cream
5009	Azure Blue	7022	Umbra Grey	9002	Grey White
5010	Gentian Blue	7024	Graphite Grey	9005	Jet Black
5014	Pigeon Blue	7031	Blue Grey	9006	White Aluminium
5017	Traffic Blue	7032	Pebble Grey	9007	Grey Aluminium
6003	Olive Green	7035	Light Grey	9010	Pure White
6005	Moss Green	7038	Agate Grey	9011	Graphite Black
6007	Bottle Green	7042	Traffic Grey A	-	-
6009	Fir Green	8004	Copper Brown	-	-

SDS-4C 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

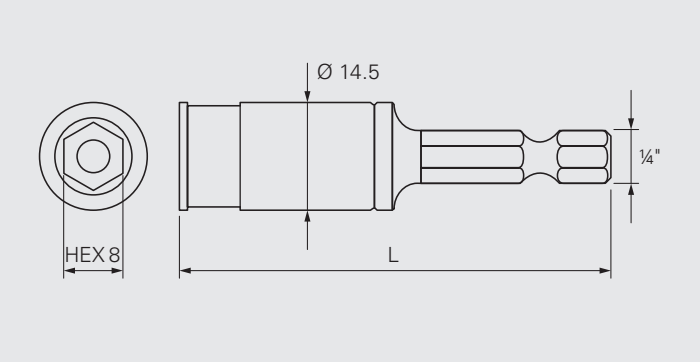
- High drilling speed, exact drilling diameters and high service life
- Minimum risk of hooking when hitting reinforced steel
- Optimized flute geometry for fast removing of drilling dust
- Precise positioning of the drill bit by the centering tip
- Proof of suitability in concrete with PGM certificate

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

SOK-IT® – 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

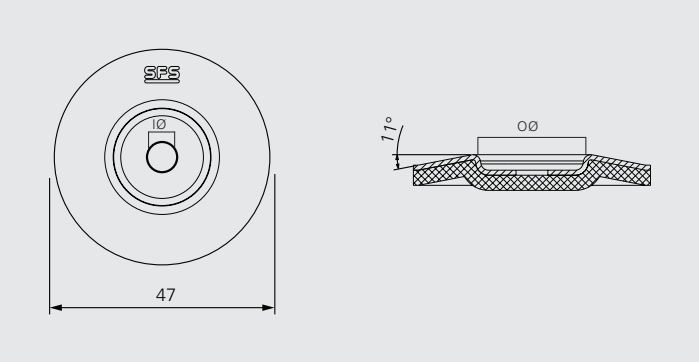
- Prevenation of overwinding, overtightening and fastener breakages
- Usable with screw gun
- Clamping ball for a good fit of the socket to the fastener head
- High life time with more than 5'000 installations

Socket with torque limitation

Product code	PU	Insert drive	Recess	L	
SOK-IT-¼"-57-6Nm	1	HEX¼"	HEX8	57	1667323
SOK-IT-¼"-57-8Nm					1667322
SOK-IT-⅜"-57-8Nm			Square ⅜"	53	1706870

TCW Washer





Application

Fastening of Karrier panels and coldstore panels in combination with SXC5-L12-6,3

Material

Austenitic stainless steel A4 or carbon steel

Sealing washer: EPDM foam

Product description

IØ inner hole: 6.3mm

OØ outer profile: 20.3mm

Features and Benefits

- Low profile washer for minimum projection
- 47mm diameter to support Karrier panels

Washer in carbon

Product code	PU	
TCW-47/6mm	100	1318706

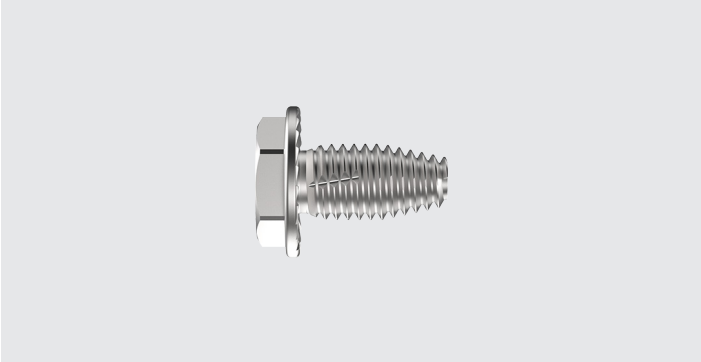
Washer in A4

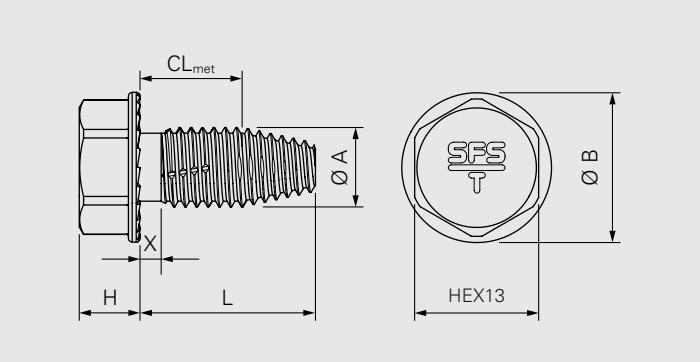
Product code	PU	
TCW-S-47/6mm-A4	100	1605506




Structu
ral
Connec
tions

nonut® 8.6







Description

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

Application

Structural connections of metal profiles

Component 1 (t_I)		Component 2 (t_{II})	
Steel	see ETA 11/0191	Steel	see ETA 11/0191

Fastener material

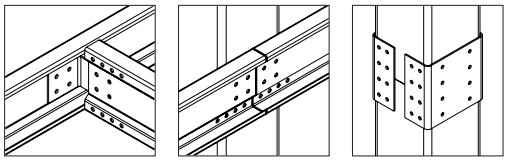
Carbon steel, hardened, Durocoat® 480

Approvals

CE 11
ETA-11/0191

Features and Benefits

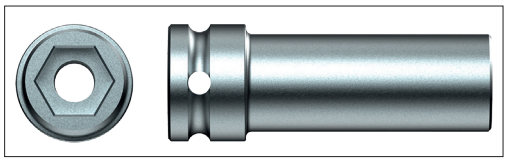
- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability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



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	Head	Ø A	Ø B	×	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	0–43				3.0	7	1607124

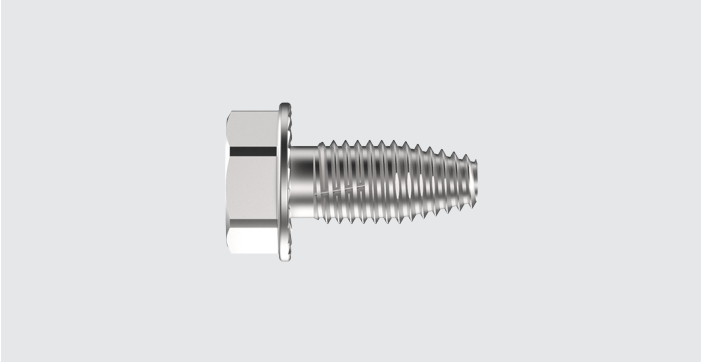
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{met}.

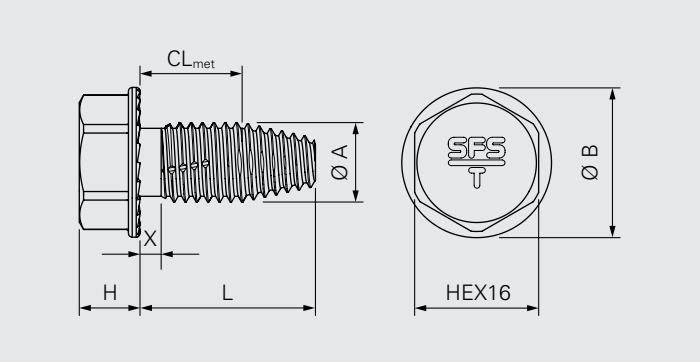


Accessories

Product code	PU	Insert drive	Recess	L	
Socket E313-¼"-50	1	HEX¼"	HEX13	50	508029
Socket E513-½"-78		HEX½"		78	1649258

nonut® 10.6







Description

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

Application

Structural connections of metal profiles

Component 1 (t_I)		Component 2 (t_{II})	
Steel	see ETA 11/0191	Steel	see ETA 11/0191

Fastener material

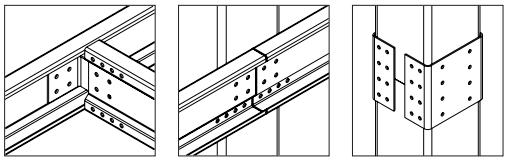
Carbon steel, hardened, Durocoat® 480

Approvals

CE 11
ETA-11/0191

Features and Benefits

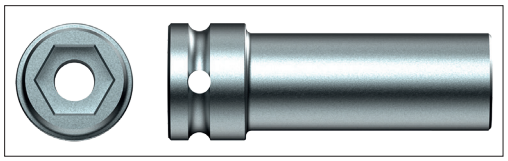
- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability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



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	Head	Ø A	Ø B	×	H	
nonut®-TDBL-T-10,6×23	100	23	0–13	HEX16	10.6	20.0	3.0	8	1542223
nonut®-TDBLF-T-10,6×23							<1.50		1542229
nonut®-TDBL-T-10,6×30		30	0–20				3.0		1542217
nonut®-TDBL-T-10,6×50		50	0–40						1561761

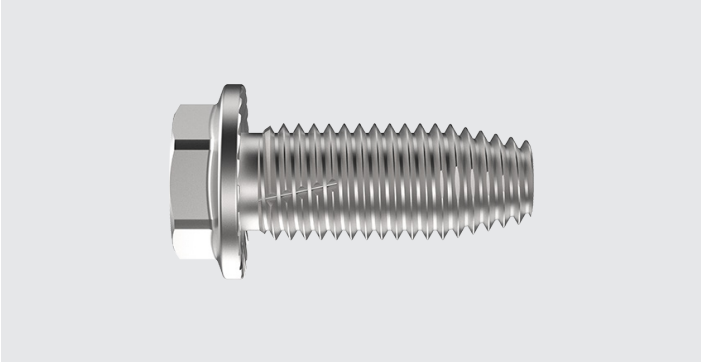
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

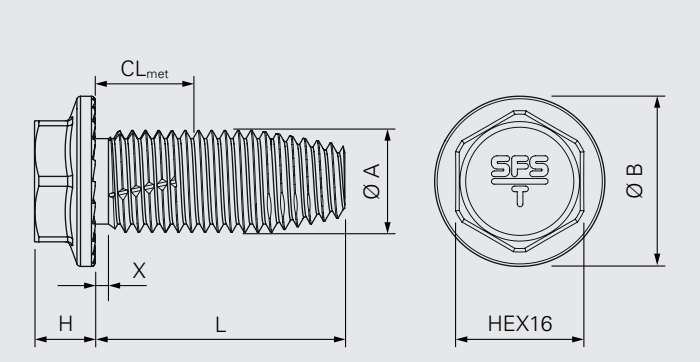


Accessories

Product code	PU	Insert drive	Recess	L	
Socket E416-½"-40	1	HEX½"	HEX16	40	1389740
Socket E516-½"-78 red.				78	1649257
Socket E516-½"-78					1649256

nonut® 13.4







Description

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

Application

Structural connections of metal profiles

Component 1 (t_I)		Component 2 (t_{II})	
Steel	see ETA 11/0191	Steel	see ETA 11/0191

Fastener material

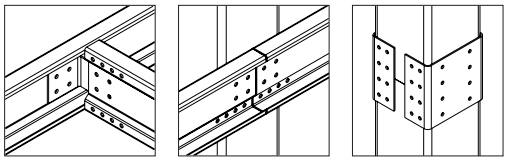
Carbon steel, hardened, Durocoat® 480

Approvals

CE 11
ETA-11/0191

Features and Benefits

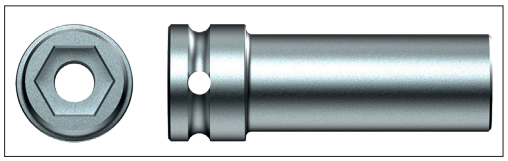
- Simple one side installation as no nut is required
- Fastener designed for high technical values in the application
- Fast and user friendly installation with impact gun
- Centering of the pre-punched metal profiles by conical thread inlet
- Patented thread design for optimized thread forming capability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



Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	Head	Ø A	Ø B	×	H	
nonut®-TDBLF-T-13,4×23	100	23	0–10	HEX16	13.4	20.0	<2.0	8	1589570
nonut®-TDBL-T-13,4×33		33	0–20				3.0		1592605

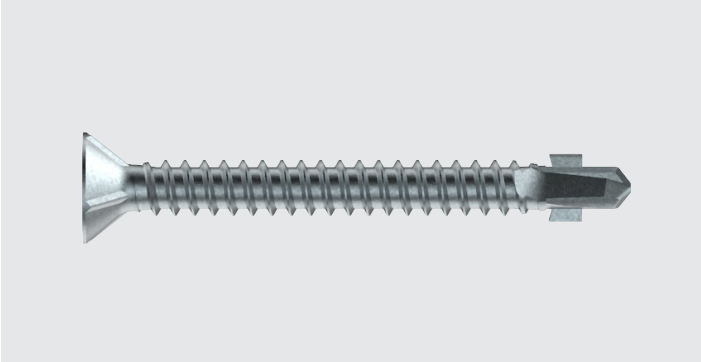
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

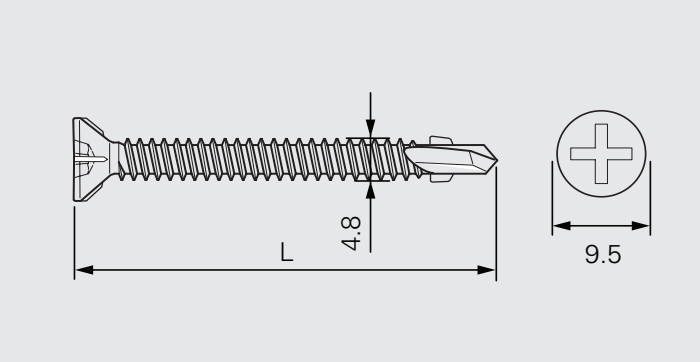


Accessories

Product code	PU	Insert drive	Recess	L	
Socket E416-½"-38	1	HEX½"	HEX16	38	1389740
Socket E516-½"-78 red.				78	1649257
Socket E516-½"-78					1649256

SC3-4.8





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_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Timber	12.0–54.0	Steel	1.0–3.0	–

Fastener material

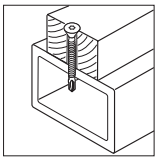
Carbon steel, case hardened

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

–



Fastener in carbon steel onto steel

Product code	PU	L	CL	
SC3/25-PH2-4,8x35	100	35	0-25	844771
SC3/35-PH2-4,8x45	100	45	0-35	1085781
SC3/55-PH2-4,8x65	100	65	0-55	1068872

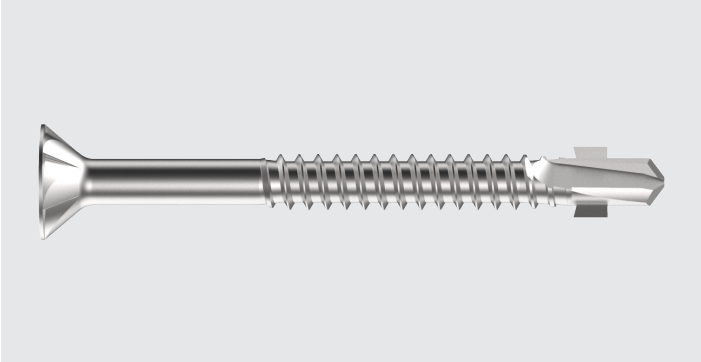
Please refer to the “Definition of clamping range and fixing thickness” in the technical introduction for definitions and diagrams related to CL.

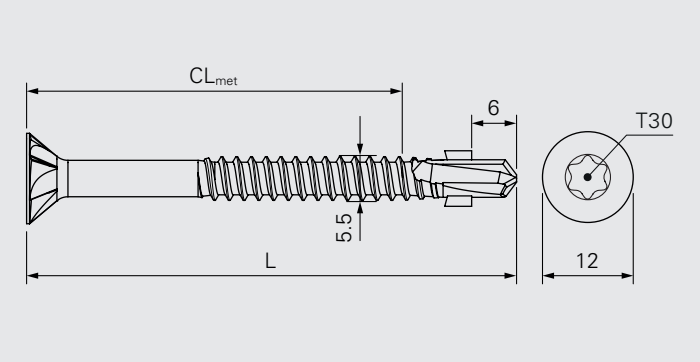


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
H2-25-HEX1/4"	1	¼"	H2	25	25370
ZA1/4" bit holder	1	¼"	¼"	58	1162306

SC5-5.5





480h

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_I)		Component 2 (t_{II})	
Timber OSB3	>12.0	Steel	1.75–5.0
Timber P2	>16.0		
Timber P4	>38.0		
Timber P6	>38.0		

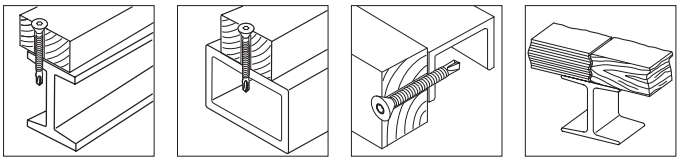
Fastener material

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
- Available with countersunk or flat head DS12 type

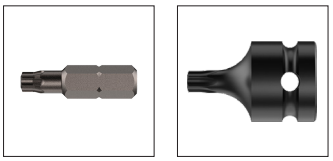
Approvals



Fastener in carbon steel onto steel

Product code	PU	L	CL	VD	
SC5/24-12-5,5x38	100	38	0-24	5	713805
SC5/41-12-5,5x55		55	0-41		713816
SC5/24-DS12-5,5x38	100	38	0-24	5	713806
SC5/31-DS12-5,5x45		45	0-31		713809
SC5/36-DS12-5,5x50		50	0-36		713811
SC5/46-DS12-5,5x60		60	0-46		713817
SC5/66-DS12-5,5x80		80	0-66		1068860
SC5/101-DS12-5,5x115		115	45-101		676891
SC5/46-12CC-5,5x60	100	60	25-46	5	1580102

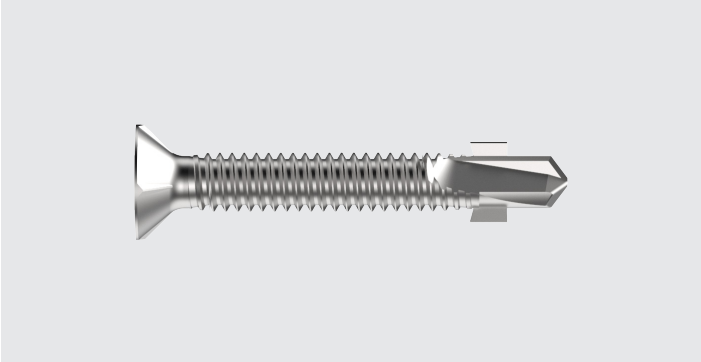
Please refer to the “Definition of clamping range and fixing thickness” in the technical introduction for definitions and diagrams related to CL.

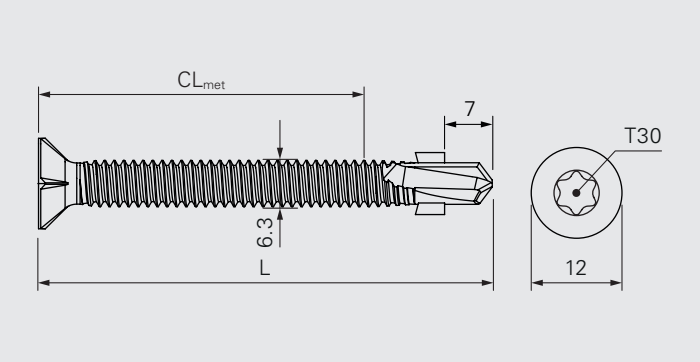


Accessories

Product code	PU	Insert drive	Recess	L	Voltage V	RPM	
TX30-25-HEX¼"	1	HEX¼"	T30	25	-	-	1690315
TX30-35-½"		SQ½"		35			1690314
CF250-230V-1560 RPM-COMPL	1	¼"	-	-	230	1560	9653444
CF250-PL-230V-COMPL							1104016

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_I)		Component 2 (t_{II})	
Timber OSB3	>12.0	Steel	2.5–6.0
Timber P2	>16.0		
Timber P4	>38.0		
Timber P6	>38.0		

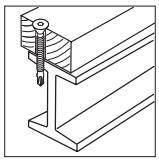
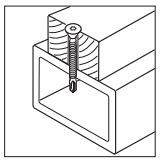
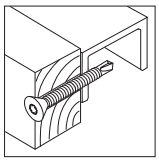
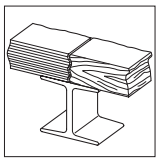
Fastener material

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

Fastener in carbon steel onto steel

Product code	PU	L	CL_{met}	
SC6/44-12-U6,3×60	1000	60	8–44	934071

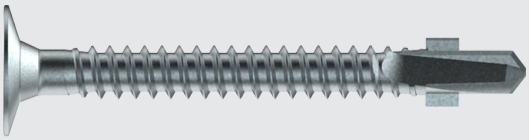
Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to $CL_{met.}$

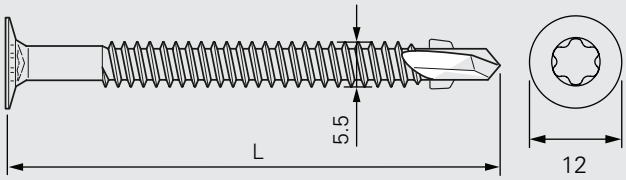



Accessories

Product code	PU	Insert drive	Recess	L	Voltage V	RPM	
TX30-25-HEX¼"	1	HEX¼"	T30	25	-	-	1690315
TX30-35-½"		SQ½"		35			1690314
CF250-230V-1560 RPM-COMPL	1	¼"	-	-	230	1560	9653444
CF250-PL-230V-COMPL							1104016

SCS3-4.8-A2





Description

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

Application

Fastening of timber boards onto supporting steel structures

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Timber	12.0–54.0	Steel	1.0–3.0	–

Fastener material

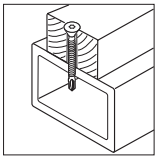
Austenitic stainless steel A2

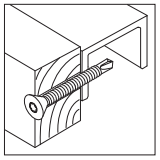
Features and Benefits

- Fastener head with miling grooves for flush mounted installation without damaging the timber surface.
- Cutting wings for efficent drilling of the through hole in timber.
- Suitable for installation with CF250 & CF250 PL setting tools

Approvals

–





Fastener in stainless steel onto steel

Product code	PU	L	CL	
SCS3/25-7982/PH2-4,8x42	100	42	0-25	1282666
SCS3/55-7982/PH2-4,8x72		72	0-55	1282665

Please refer to the “Definition of clamping range and fixing thickness” in the technical introduction for definitions and diagrams related to CL.

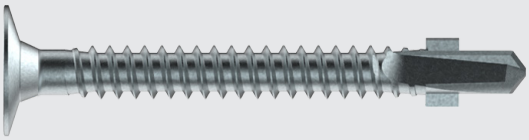


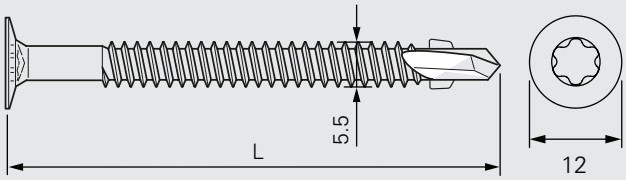


Accessories/Ancillaries

Product code	PU	Drive	Head Drive	Length	
H2-25-HEX1/4"	1	¼"	H2	25	25370
ZA1/4" bit holder			¼"	58	1162306

SCS5-5.5-A2





Description

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

Application

Fastening of timber boards onto supporting steel structures

Component 1 (t_I)		Component 2 (t_{II})		$\Sigma_{max}\, t_I + t_{II}$
Timber	8.0–52 .0	Steel	2.0–5.0	–

Fastener material

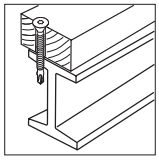
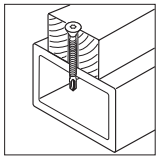
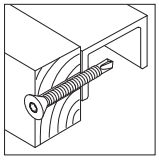
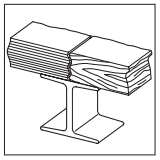
Austenitic stainless steel A2

Features and Benefits

- Fastener head with miling grooves for flush mounted installation without damaging the timber surface.
- Cutting wings for efficent drilling of the through hole in timber.
- Suitable for installation with CF250 & CF250 PL setting tools

Approvals

–

Fastener in stainless steel onto steel

Product code	PU	L	CL	
SCS5/34-D10/T30-5,5x55	100	55	0-34	1152443
SCS5/54-D10/T30-5,5x75	100	75	0-54	1152444

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

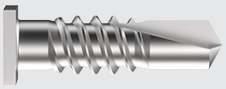


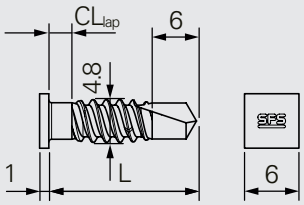


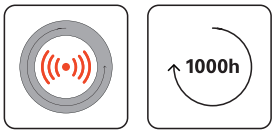
Accessories/Ancillaries

Product code	PU	Head	Head Drive	Length	
T30-25-HEX1/4"	1	¼"	T30	25	24010
ZA1/4" bit holder	1	¼"	¼	58	1162306

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_I)		Component 2 (t_{II})	
Steel	0.7–2.0	Steel	0.7–2.0

Condition: Total thickness withing CL_{lap}

Fastener material

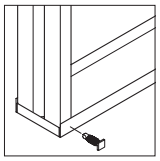
Carbon steel, hardened, Durocoat® 1000 hours salt spray test, 15 cycles kesternich test

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

–



Fastener in carbon steel onto steel

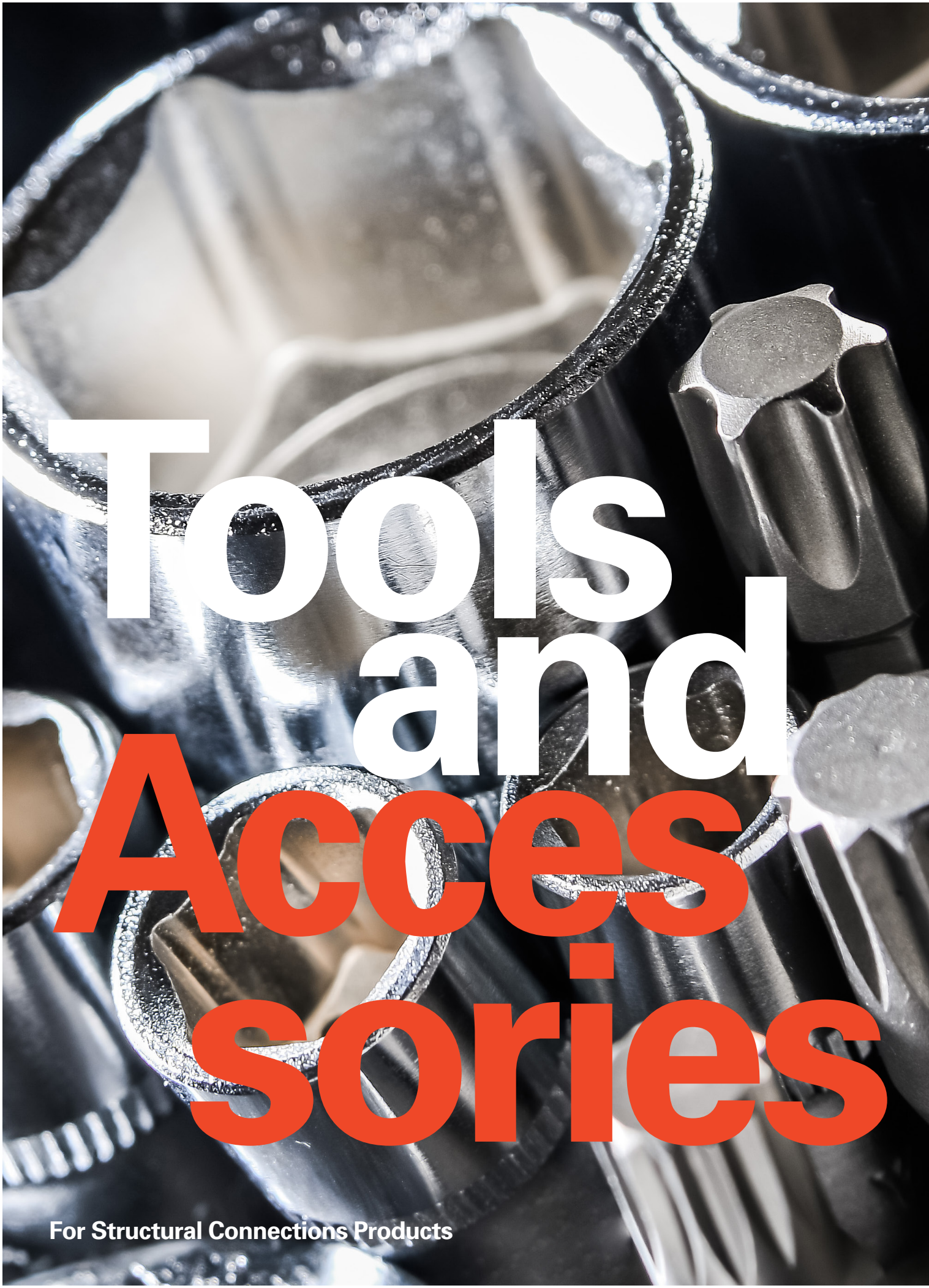
Product code	PU	L	CL_{lap}	
SDL4-F-4.8×16-D	1000	16	2.7–4.0	1625778

Please refer to the "Definition of clamping range and fixing thickness" in the technical introduction for definitions and diagrams related to CL_{lap}.



Accessories

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



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	



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

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

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

Product Range

Product code	PU	
CF250-230V-1560 RPM-COMPL	1	9653444
CF250-PL-230V-COMPL		1104016

SFS Group Fastening Technology Ltd
153 Kirkstall Road
Leeds L24 2AT
ukenquiries@sfs.com
0330 055 5888

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. V1 01/2026.

© SFS, 01/2026, BR_Roofing_and_Cladding_en_GB-Lds, V1.01