

**Pitched roofing and cladding:  
Innovative fastening systems  
and application expertise**



# 1 Application index

## 2 Product index

### 3 Single and twin skin construction

- Stainless steel self drilling fasteners

### 4 Single and twin skin construction

- Carbon steel self drilling fasteners

## 5 Standing seam

### 6 Composite panels

- Stainless steel self drilling fasteners

### 7 Composite panels

- Carbon steel self drilling fasteners

## 8 Steel and timber construction

## 9 Corrugated fibre cement sheet

## 10 Side lap stitching

## 11 Rainscreen cladding

## 12 Tools and accessories

## 13 Business solutions

## 14 Attachment

**News for  
your success.**

## How to find the right solution?

We propose you three different ways to find the correct fastener or system for your specific needs.



### Search by Table of contents

The fastest way to identify the right fastener specification, using this compact guide to products and applications.



### Search by Application index

A useful application guide is divided into the different fastener uses, giving the corresponding chapter.



### Search by Product index

A comprehensive specification aid with product drawings and corresponding chapters.

### Contact information

SFS intec AG, FasteningSystems-Construction  
Rosenbergsaustrasse 10, CH-9435 Heerbrugg

T +41 71 727 57 22, F +41 71 727 56 99  
fs.heerbrugg@sfsintec.biz, www.sfsintec.biz

Application index

Roofing  
Cladding

1

Product index

2

Single and twin skin construction

- Stainless steel self drilling fasteners

SX / SXW / SW2-S / SW-A / SL2-S / SL2-A  
MF / MF-R / LS / EB / LD

3

Single and twin skin construction

- Carbon steel self drilling fasteners

SD / SDT / SD-H15 / SW-T / SW3-T  
SL2-T / SL-H15 / SC / SCN2 / SD2-S11  
MF / MF-R / LS / EB / LD

4

Standing seam

- Stainless steel self drilling fasteners

SDK2-S / SDK3-S / SX / SL3/2-5-S / TDA-S  
TDB-S / RV6604

5

Composite panels

- Stainless steel self drilling fasteners

SXC / SX / SXCW / SXW / SL2-S  
LS / EB / LD

6

- Carbon steel self drilling fasteners

SDT / SD / SDTW / SL2-T  
SD-D10 / LS / EB / LD

7

Steel and timber construction

Tapping fasteners

TDA-S / TDB-S / TDC-S / TDA-T / TDB-T  
TDBL-T / GA-AS / GA-BS / HSS

8

Corrugated fibre cement sheet

Self drilling and tapping fasteners

SCF / SCFW / SCFW-S / TDA-S / TDB-S  
HG-S / HG-T / LL-S / HSS

9

Side lap stitching

Rivets

RV6604 / RV6603 / RV6605 / ATO / ASO  
TTO / SSO / ATC / ASC / SSC / HSS

10

Rainscreen cladding

Fasteners and rivets

TI / DT / SDS / MB / MBK / MBR / MBRK  
MBR-X / MBRK-X / SLA / SX / SDA / TW-S  
TW-A4 / SCFW-S / SDF-2 / SX / AP / ASO  
SLA / GA-AS / GA-BS / TU-S

11

Tools and accessories

Tools and accessories

CF 400 / CF 55 / CF 40 / DI 600 / DB 620  
AccuBird® / PowerBird® / Lazy tongs  
RM-25 and Lever tool RM-20  
Crank handed tool RV 28GA / Accessories

12

Business solutions

News for  
your success.

13

Attachement

14

## Make life easier for yourself with the complete spectrum of support from SFS intec.



Finely-honed fastening solutions are only one part of the comprehensive support package offered by SFS intec.

Whether it's a new build or restoration project, we support you all the way from the planning phase through to the construction proper, with a complete money-saving service package.

In **Chapter 13**, learn more about how working with SFS intec can make your job so much easier.

### Things like individual logistics solutions

By improving efficiencies all along the value-added chain one can:

- reduce procurement costs
- optimise processes
- make information flows completely transparent

We are keen to work with you closely on your specific needs; developing optimum solutions for your particular requirements.



Logistics solutions from SFS intec simply make life easier and reduce your costs.

For more information see **Chapter 13**.

#### Important: Note for specifiers

In line with our policy of constant innovation and development, SFS intec reserves the right to make technical changes on all products. We accept no responsibility for misprints.

For other applications please contact our technical team.

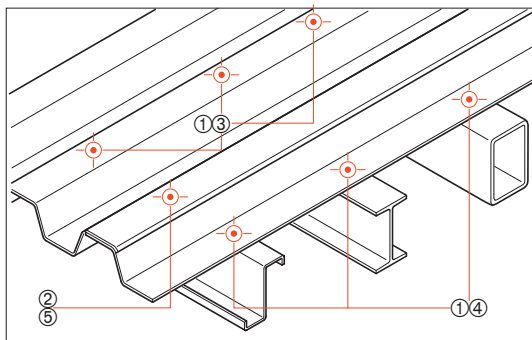


# 1 Application index

1

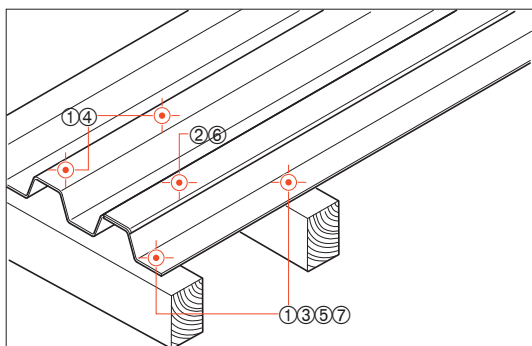
## Pitched roofing and cladding

### Single skin sheet to steel purlins



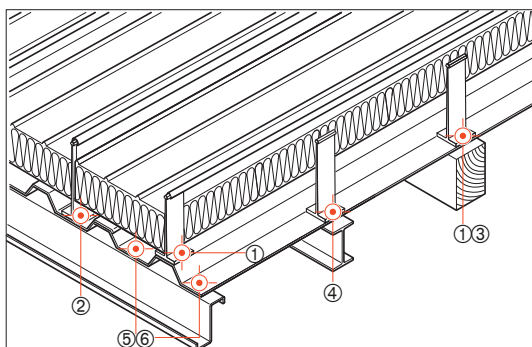
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SL2-S	●	-	-	3
3	SXC	●	-	-	6
4	SD	-	■	-	4
5	SL2-T	-	■	-	4

### Single skin sheet to timber purlins



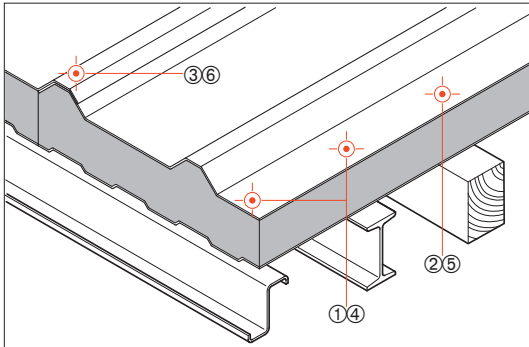
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXW	●	-	-	3
2	SL2-S	●	-	-	3
3	SW2-S	●	-	-	3
4	SXCW	●	-	-	6
5	SW-T	-	■	-	4
6	SL2-T	-	■	-	4
7	SW-A	-	-	▲	3

### Standing seam system to steel purlins and structural deck



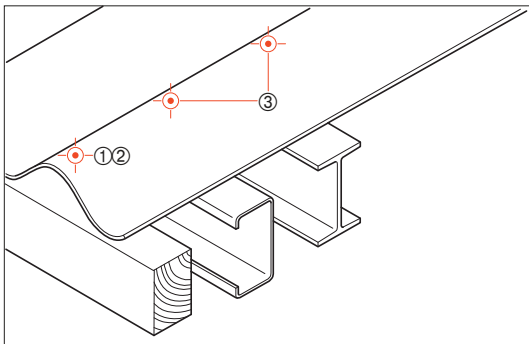
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SDK2-S	●	-	-	5
2	SDK3-S	●	-	-	5
3	TDA-S	●	■	-	5
4	TDB-S	●	■	-	5
5	SX	●	-	-	3/5
6	SD	-	■	-	4

## Composite panel to timber and steel purlins



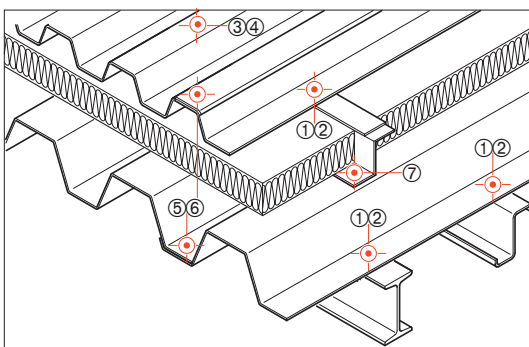
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXC	●	-	-	6
2	SXCW	●	-	-	6
3	SL2-S	●	-	-	6
4	SDT	-	■	-	7
5	SDTW	-	■	-	7
6	SL2-T	-	■	-	7

## Fibre cement sheet to timber and steel purlins



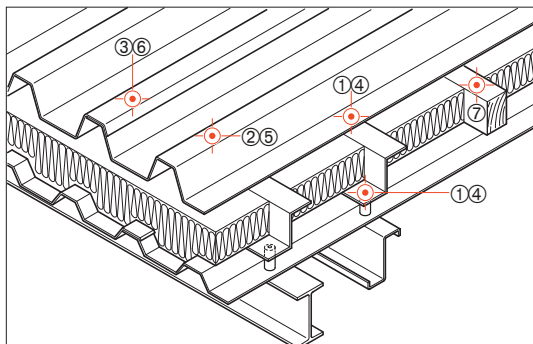
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SCFW	-	■	-	9
2	SCFW-S	●	-	-	9
3	SCF	-	■	-	9

## Built-up construction using zed bars on structural metal deck



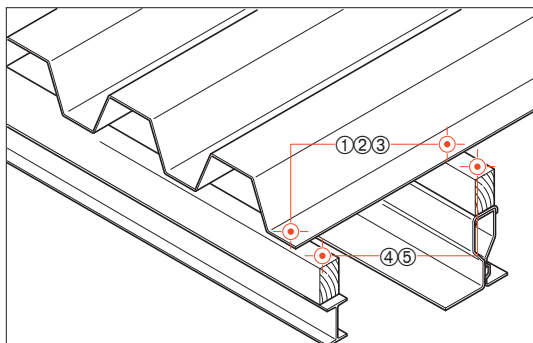
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3 / 5 / 6
2	SD	-	■	-	4 / 7
3	SXC	●	-	-	6
4	SDT	-	■	-	4 / 7
5	SL2-S	●	-	-	3
6	SL2-T	-	■	-	4
7	RV6604	-	-	▲	5 / 10

## Twin skin construction



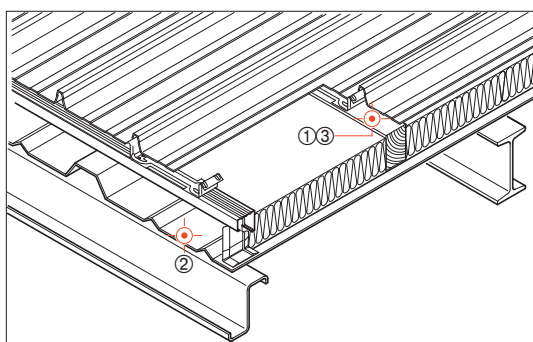
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SXC	●	-	-	6
3	SL2-S	●	-	-	3
4	SD	-	■	-	4
5	SDT	-	■	-	7
6	SL2-T	-	■	-	4
7	SD2-S11	-	■	-	4

## Timber to steel purlins and sheet to timber purlins



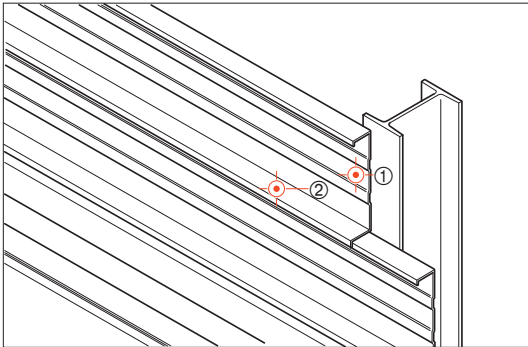
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXW	●	-	-	3
2	SW2-S	●	-	-	3
3	SW-T	-	■	-	4
4	SCN2	-	■	-	4
5	SC	-	■	-	4

## Clipfix system to timber and steel purlins



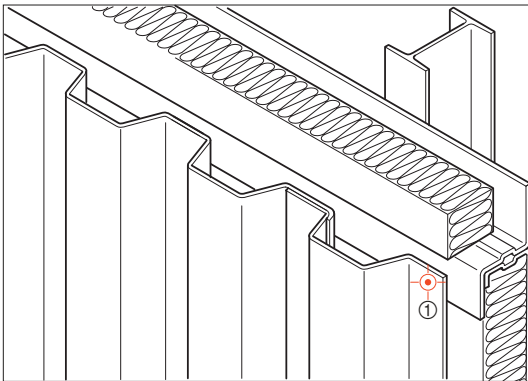
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX-D12	●	-	-	5
2	SD	-	■	-	4
3	SC	-	■	-	4

## Liner tray to steel rails



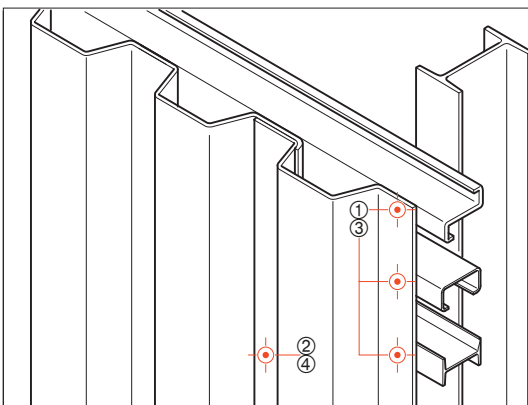
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SD	-	■	-	4
2	SL	-	■	-	4

## Single skin sheet to liner tray



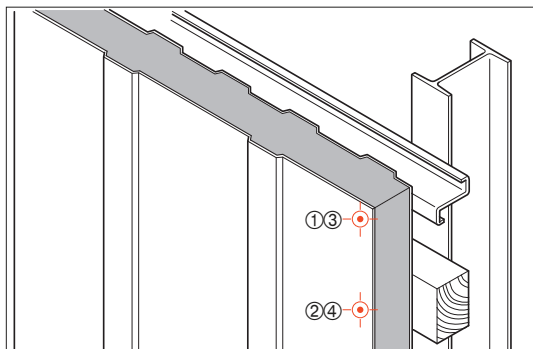
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3

## Single skin sheet to steel rails



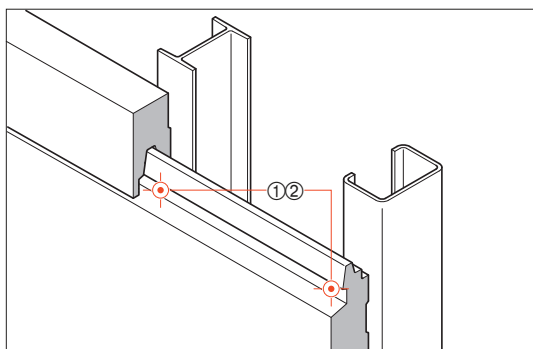
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SL2-S	●	-	-	3
3	SD	-	■	-	4
4	SL2-T	-	■	-	4

## Composite wall panel to steel and timber rails



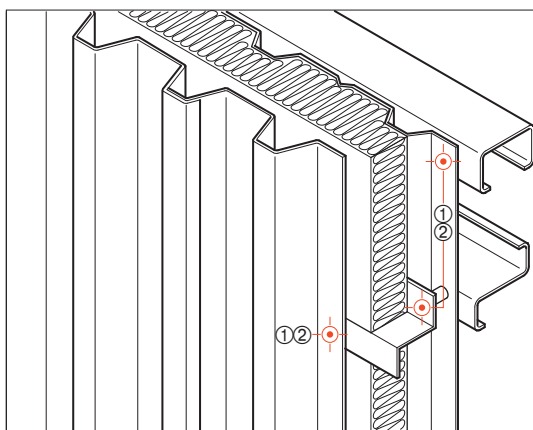
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXC	●	-	-	6
2	SXCW	●	-	-	6
3	SDT	-	■	-	7
4	SDTW	-	■	-	7

## Concealed fixing of composite wall panels to steel rails



Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	6
2	SD	-	■	-	7

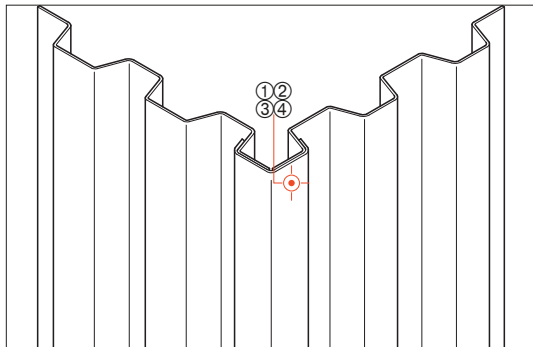
## Built-up construction using ferrules and zed bars



Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SD	-	■	-	4

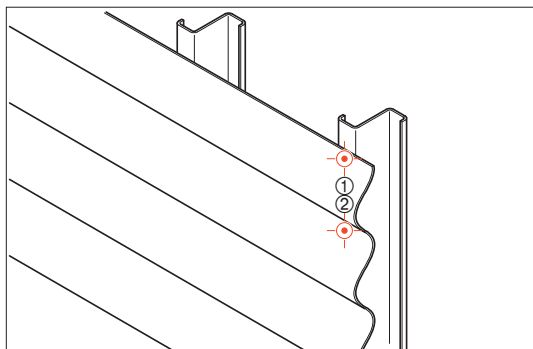


## Sid lap stitching and flashing



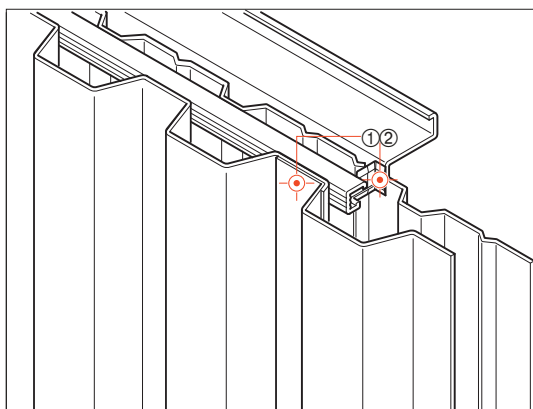
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SL2-S	●	-	-	3
2	ATO	●	■	▲	10
3	SL2-T	-	■	-	4
4	RV6604	-	-	▲	5 / 10

## Architectural profiled sheet to steel rails



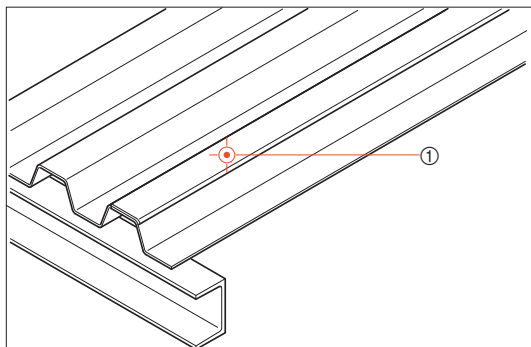
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	11
2	SD	-	■	-	4

## Twin skin construction to steel



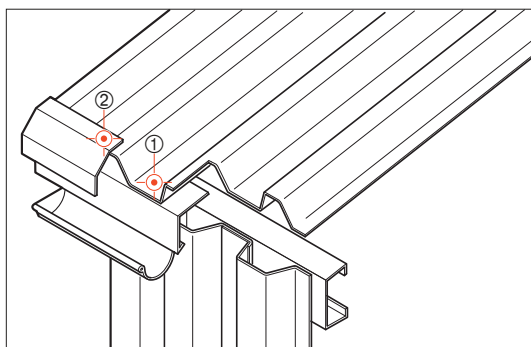
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	11
2	SD	-	■	-	4

## Side lap stitching GRP and PVC



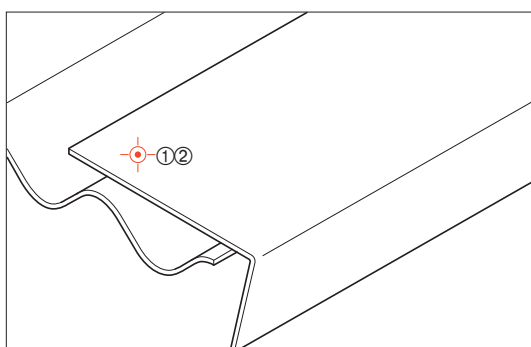
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	LL-S	●	-	-	9

## Side lap stitching profile metal sheet



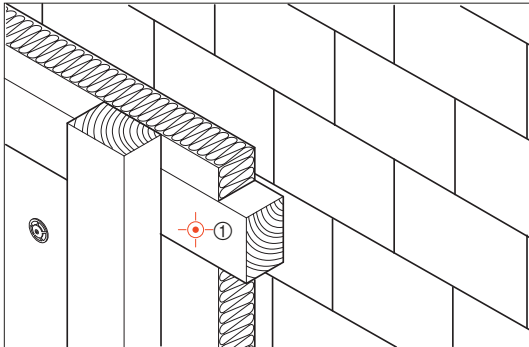
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SL2-S	●	-	-	3

## Side lap stitching fibre cement sheet



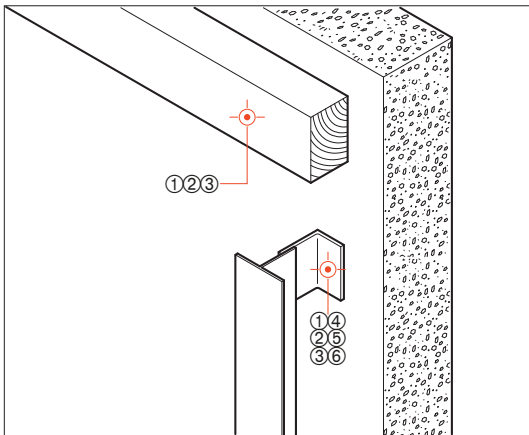
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	HG-S	●	-	-	9
2	HG-T	-	■	-	9

## Timber batten to brickwork



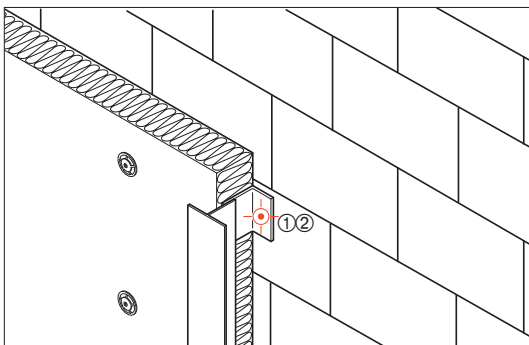
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	MB	●	■	-	11

## Wood, aluminium or steel framework to concrete



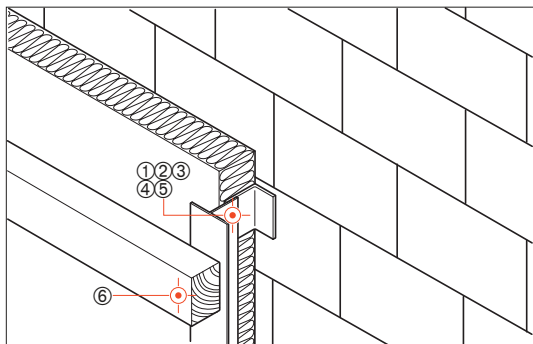
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TI-T	-	■	-	11
2	DT	-	■	-	11
3	MBR	●	■	-	11
4	MBRK	●	■	-	11
5	MBR-X	●	■	-	11
6	MBRK-X	●	■	-	11

## Aluminium or steel framework to brickwork



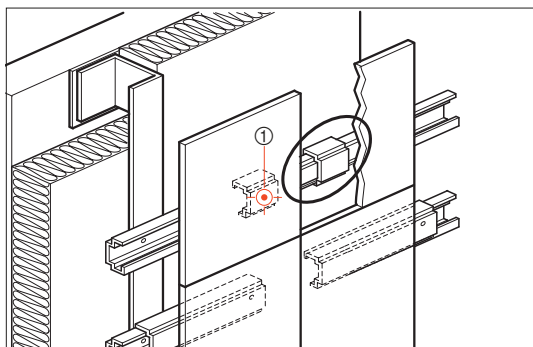
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	MB	●	■	-	11
2	MBK	●	■	-	11

## Aluminium or steel framework



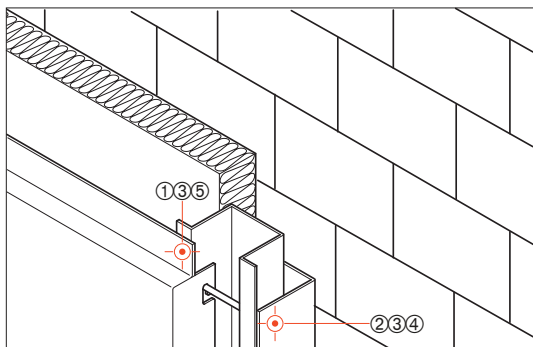
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SDA	●	-	-	11
2	SLA	●	-	-	11
3	ASO	-	-	▲	10
4	RV6604	-	-	▲	10
5	SX	●	-	-	11
6	SDA3	●	-	-	11

## Blind attachment of HPL panels



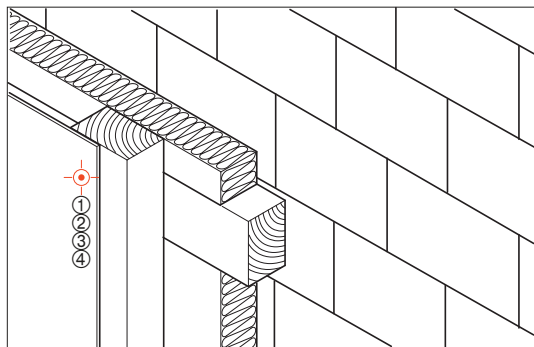
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TU-S	●	-	-	11

## Aluminium sections to aluminium framework



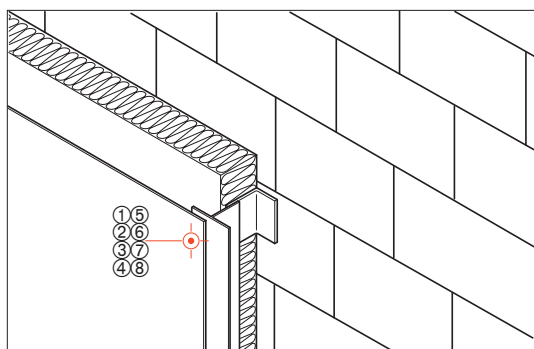
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	RV6604	-	-	▲	10
2	SDA	●	-	-	11
3	ASO	-	-	▲	10
4	SLA	●	-	-	11
5	SX3	●	-	-	11

## High performance cladding panel to timber batten



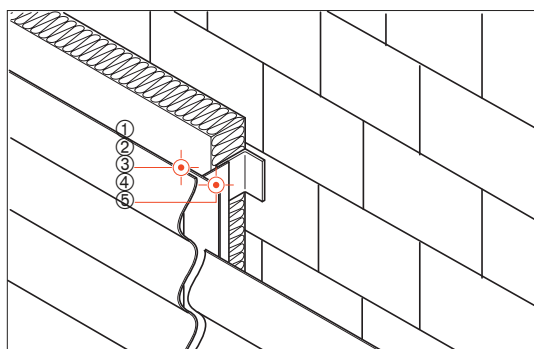
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TW-A4	●	-	-	11
2	TW-S	●	-	-	11
3	SCFW-S	●	■	-	11
4	GAZ	●	-	▲	11

## High performance cladding panel to aluminium or steel framework



Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	AP11	-	-	▲	11
2	AP14	-	-	▲	11
3	AP16	-	-	▲	11
4	SDF2-S	●	-	-	11
6	SDA	●	-	-	11
7	SLA	●	-	-	11
8	GAZ	●	-	▲	11

## Architectural profile sheet to aluminium or steel structure


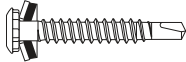
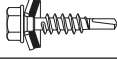

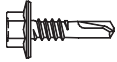

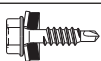
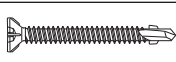
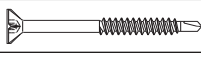
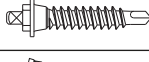
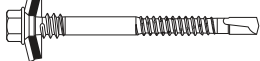
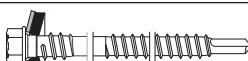

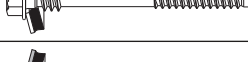
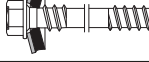




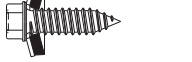


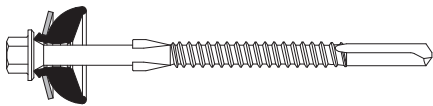
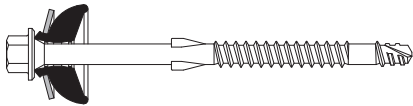
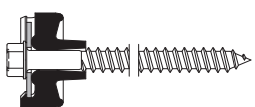
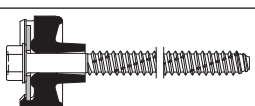
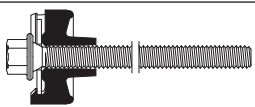
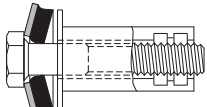
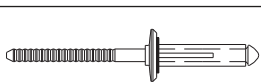
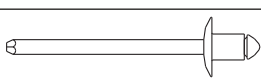


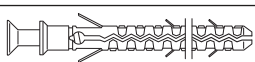
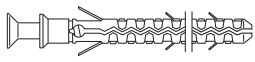
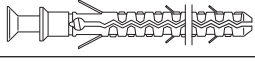

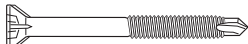
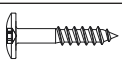
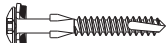
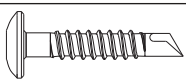

Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	11
2	RV6604	-	-	▲	10
3	AP11	-	-	▲	11
4	AP14	-	-	▲	11
5	GAZ	●	-	▲	11






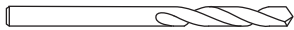

# 2 Product index

## Pitched roofing and cladding

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
SX		●	-	-	3/5/6/11
SXW SW2-S SW-A		●	-	▲	3/6
SL2-S SL2-A		●	-	▲	3/4/6
SD		-	■	-	4/7
SD-H15		-	■	-	4
SW-T SW3-T		-	■	-	4
SL2-T SL		-	■	-	4/7
SC SCN2		-	■	-	4
SD2-S11		-	■	-	4
SDK2-S SDK3-S		●	-	-	5
SXC		●	-	-	6
SXCW SXW		●	-	-	6
SDT		-	■	-	7
SDTW		-	■	-	7
SD-D10		-	■	-	7
TDA-S TDA-T		●	■	-	8
TDB-S TDB-T		●	■	-	8
TDC-S		●	-	-	8
TDBL-T		-	■	-	8
GA-AS GA-BS		●	-	-	8

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
SCF		●	■	-	9
SCFW SCFW-S		●	■	-	9
TDA-S-BAZ		●	-	-	9
TDB-S-BAZ		●	-	-	9
HG-S HG-T		●	■	-	9
LL-S		●	-	-	9
RV6604 RV6603 RV6605		-	-	▲	10
ATO, ASO TTO, SSO		●	■	▲	10
ATC ASC SSC		●	■	▲	10
TI DT		-	■	-	11
MB MBK		●	■	-	11
MBR MBRK		●	■	-	11
MBR-X MBRK-X		●	■	-	11
SLA		●	-	-	11
SDA		●	-	-	11
TW-S TW-A4		●	-	-	11
SCFW-S		●	-	-	11
SDF2-S		●	-	-	11
SLA		●	-	-	11

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
GA-AS GA-BS		●	-	-	11
TU-S		●	-	-	11
MF MF-R		-	-	-	3/4
LS		-	-	-	3/4/6/7
EB		-	-	-	3/4/6/7
LD		-	-	-	3/4/6/7
CF 400		-	-	-	12
CF 55		-	-	-	12
CF 40		-	-	-	12
DI 600		-	-	-	12

Type	Description	Material			Chapter
		Stainles steel	Carbon steel	Aluminium	
DB 620		-	-	-	12
AccuBird® Power Bird®		-	-	-	12
BF414 BF419		-	-	-	12
Lazy tongs RM-25 Lever tool RM-20		-	-	-	12
Crank handed tool RV 28GA		-	-	-	12
HSS		-	■	-	8/9/10
SDS		-	■	-	11

## 3

Applications	Product code	Page
<b>Steel substructure</b>	<b>SX</b>	► 3.3
<b>Timber substructure</b>	<b>SXW / SW2-S SW-A</b>	► 3.7
<b>Side lap and stitching</b>	<b>SL2-S / SL2-A</b>	► 3.11
<b>Pipe flashing</b>	<b>MF / MF-R</b>	► 3.13
<b>Sealing joint</b>	<b>LS, EB, LD</b>	► 3.15

## 3





## A new generation of stainless steel self-drilling fasteners.

Quality demands in industrial light construction are continuously increasing. From an economic viewpoint, ease-of-use and absolute security from start to finish are, of course, paramount.

Fasteners have to maintain their function throughout the lifetime of the building. Meanwhile, aesthetic considerations are increasingly central to the achievement of creative design concepts.

Our answer to the emerging challenges in industrial light construction is a new range of stainless steel power tool fixings. These components offer enormous benefits to anyone involved in building projects.

### The impressive features of the new generation of fasteners

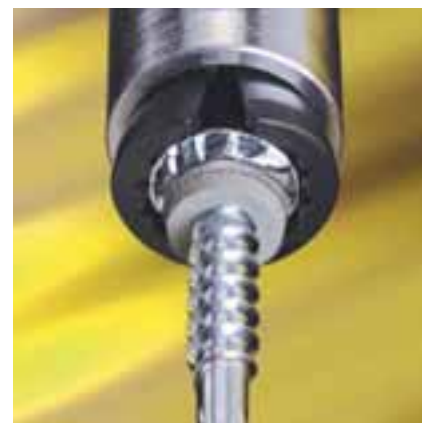


- Fast, comfortable fixing
- Fully functioning fasteners even in high tensile steels like S355
- Easy-to-choose fastener range for every application
- Complete system solutions with fully matched installation tools
- A wide range of drives and component designs
- Maximum corrosion proofing
- Available in any colour



#### Peak performance thanks to the special drill tip

Day by day we continue to improve on our existing fastener systems and develop new ones. Our focus is on achieving user-friendly solutions on site for improved productivity. Our new self-drilling range works faster and more efficiently, reducing installation times by up to 50%; even in high tensile steels. Optimised design performance enables these fasteners to be installed extremely quickly, with absolute reliability.

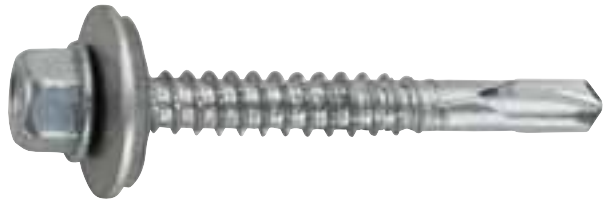
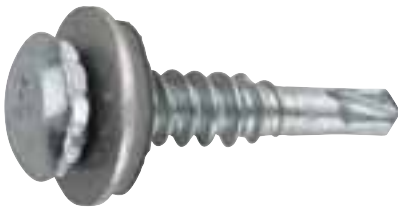


#### Aesthetic fixing and efficient fastener guidance with the *irius*®-system

The unique under-head drive is an application-based solution to enable totally reliable installation. The fastener is held firmly in the setting tool during installation with the *irius*®-system.

The most demanding aesthetic requirements are also satisfied, with almost unlimited colour options to match cladding designs. Any roof or cladding colour can be accurately matched.

SX



3

### Technical information

#### Applications

Stainless steel fastening of steel or aluminium sheet to steel or aluminium structure in one operation: drilling, thread forming and sealing.

#### Material

##### Fastener

- SX  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.

##### Washer

- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)
- **A** = Aluminium with vulcanised EPDM

##### Drill point

- Case hardened, special carbon steel

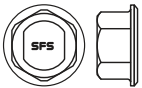
##### Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

#### HD headform / drive

- Hexagon 8 mm A/F



- **irus**® Ø 12 mm



#### Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

#### Accessories

##### CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and up to a maximum length of 40 mm.

##### DI 600



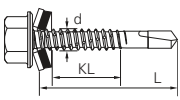

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

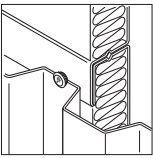

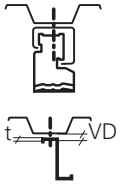
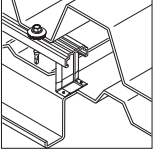

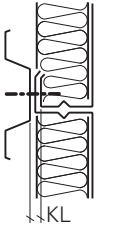
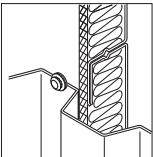

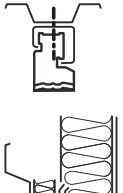
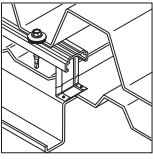

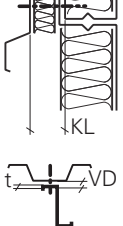

##### E420 / E480



- The E420 setting tool is required for installing self drilling fasteners with the **irus**® system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

### Order information

	Hexagon 8 mm A/F	<i>irius</i> ® Ø 12 mm		Coloured fastener	<b>W: Washer material</b> S Stainless Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm						

Example order code											
SX 3/ 9- L12- S16- 6,0x 29											
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range
	• Stainless steel		SX	3/	9-	L12-	S16-	6,0x	29	9	 VD max. steel 2,5 mm t min. steel: 2 x 0,6 mm 0,9 mm t min. alu: 1,0 mm
	• Stainless steel		SX	3/	9-		S16-	6,0x	29	9	 KL t min. alu: 1,0 mm
	• Stainless steel		SX	3/	15-	L12-	S16-	6,0x	40	15	 VD max. steel 2,5 mm t min. steel: 2 x 0,6 mm 0,9 mm t min. alu: 1,0 mm
	• Stainless steel		SX	3/	9-		S16-	6,0x	29	9	 KL t min. alu: 1,0 mm
			SX	3/	15-		S16-	6,0x	40	15	
			SX	3/	20-		S16-	6,0x	50	20	 VD t min. steel: 2 x 0,6 mm 0,9 mm

### Order Information

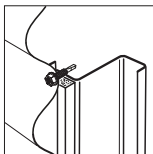
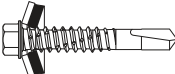


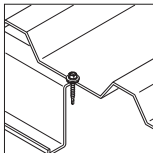
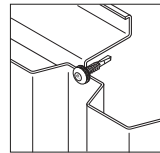

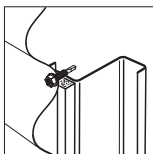
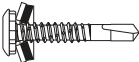


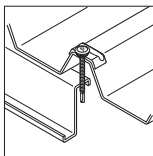
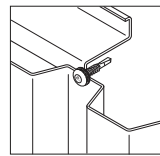

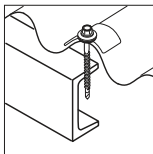
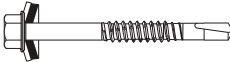


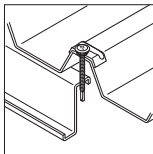
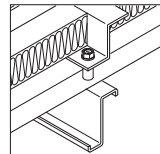

The new SX3-6,0xL are available January 2010.  
Please order the current SX3-5,5xL product range:

SX3/4-S16-5,5x22  
SX3/4-L12-S16-5,5x22

SX3/10-S16- 5,5x28  
SX3/10-L12-S16-5,5x28

SX3/15-S16-5,5x38  
SX3/15-L12-S16-5,5x38

SX3/20-S16-5,5x50

			Example order code											
			SX	3/	9-	L12-	S16-	6,0x	29					
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range			
			SX	5/	8-		S16-	5,5x	33	<b>8</b>		VD max. steel		
			SX	5/	12-		S16-	5,5x	37	<b>12</b>		5,0 mm		
			SX	5/	18-		S16-	5,5x	43	<b>18</b>		t min. steel:		
			SX	5/	30-		S16-	5,5x	54	<b>20 - 30</b>		1,5 mm		
			SX	5/	38-		S16-	5,5x	63	<b>38</b>		t max. steel:		
		DTU 40.35 DTU 40.36										t min. alu:		
													2,0 mm	
														t max. alu:
														4,0 mm
			SX	5/	8-	L12-	S16-	5,5x	33	<b>8</b>		VD max. steel		
			SX	5/	12-	L12-	S16-	5,5x	37	<b>12</b>		5,0 mm		
			SX	5/	18-	L12-	S16-	5,5x	43	<b>18</b>		t min. steel:		
			SX	5/	38-	L12-	S16-	5,5x	63	<b>38</b>		1,5 mm		
			SX	5/	55-	L12-	S16-	5,5x	80	<b>55</b>		t max. steel:		
		DTU 40.35 DTU 40.36										4,0 mm		
													t min. alu:	
														2,0 mm
														t max. alu:
														4,0 mm
			SX	5/	30-		S16-	5,5x	54	<b>20 - 30</b>		VD max. steel		
			SX	5/	55-		S16-	5,5x	80	<b>15 - 55</b>		5,0 mm		
			SX	5/	70-		S16-	5,5x	95	<b>30 - 70</b>		t min. steel:		
			SX	5/	85-		S16-	5,5x	110	<b>45 - 85</b>		1,5 mm		
			SX	5/	115-		S16-	5,5x	140	<b>75 - 115</b>		t max. steel:		
		DTU 40.35 DTU 40.36										4,0 mm		
													t min. alu:	
														2,0 mm
														t max. alu:
														4,0 mm

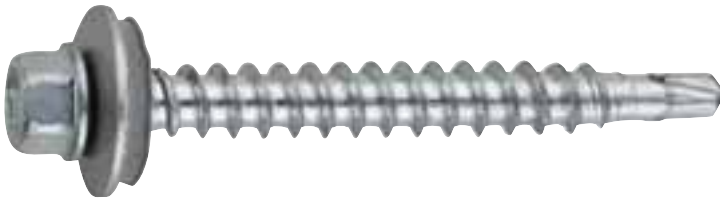
### Order information

	Hexagon 8 mm A/F	<i>irius</i> ® Ø 12 mm		Coloured fastener	<b>W: Washer material</b> S Stainless Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm						

Example order code											Application range
Applications	Product	Approval	SX	3/	9-	L12-	S16-	6,0x	29	KL	
	• Stainless steel		SX	14/	12-	L12-	S16-	5,5x	40	12	
	• Stainless steel		SX	14/	12-		S16-	5,5x	40	12	
	• Stainless steel		SX	14/	20-		S16-	5,5x	48	20	
	• Stainless steel		SX	14/	38-		S16-	5,5x	63	38	
	• Stainless steel		SX	14/	58-		S16-	5,5x	84	58	
	• Stainless steel		SX	14/	75-		S16-	5,5x	100	75	
	• Stainless steel		SX	14/	12-			5,5x	40	12	
	• Stainless steel		SX	14/	20-			5,5x	48	20	
	• Stainless steel		SX	14/	38-			5,5x	63	38	
	• Stainless steel		SX	14/	58-			5,5x	84	58	
	• Stainless steel		SX	14/	75-			5,5x	100	75	



## SXW / SW2-S / SW-A



3

## Technical information

## Applications

Stainless steel fastening of steel or aluminium sheets to timber structure.

## Material

## Fastener

- SXW / SW2-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301)
- SW-A  
Aluminium

## Washer

- **S** = Stainless steel, grade AISI 304  
(European Standard 1.4301)
- **A** = Aluminium with vulcanised  
EPDM

## Drill point

- Case hardened, special carbon  
steel

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- **irius®** Ø 12 mm



- Hexagon 8 mm A/F



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 400



- Automatic setting tool for installing  
belted fasteners (10 pcs) with a  
maximum 16 mm diameter washer  
and upto a maximum length of  
40 mm.

## DI 600



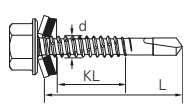

- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

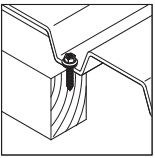

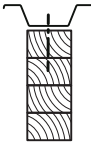
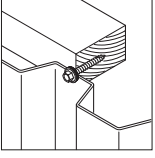

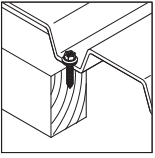

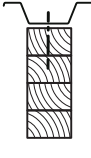
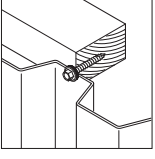

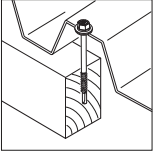

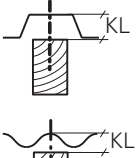
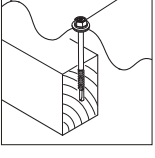
## E420 / E480

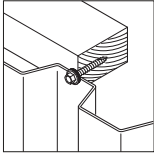
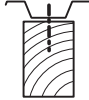
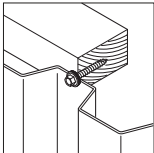



- The E420 setting tool is required for  
installing self drilling fasteners with  
the **irius®** system. The E480 setting  
tool is recommended for installing  
self drilling fasteners with the  
hexagon head.

### Order information

	<b>irus®</b> Ø 12 mm	Hexagon 8 mm A/F		Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>						

		Example order code								
		SXW- L12- S16- 6,5x 54								
Applications	Product	Approval	Type	HD	W*	d	L	KL	Application range	
	● Stainless steel		SXW-	L12-	S16-	6,5x	54			VD max. steel 2 x1,0 mm
	● Stainless steel		SXW-		S16-	6,5x	54			
	● Stainless steel		SXW-	L12-	S16-	5,5x	44			VD max. steel 2 x1,0 mm
	● Stainless steel		SXW-		S16-	5,5x	44			
	● Stainless steel		SXW- SXW-		S19- S19-	6,5x 6,5x	75 99			VD max. steel 2 x1,0 mm
		DTU 40.35 DTU 40.36								

			Example order code							
			SXW-	L12-	S16-	6,5x	54			
Applications	Product	Approval	Type	HD	W*	d	L	KL	Application range	
	● Stainless steel		SW2-S-		A14-	4,8x	35			<u>VD max. steel</u> 2 x0,9 mm
	▲ Aluminium		SW-A-		A19-	6,0x	35			<u>VD max. alu</u> 3 x0,7 mm 2 x0,9 mm
									Only for aluminium sheet	

### The secure and speedy way to fix overlapping profiles.

The SL self drilling fastener range, specially developed for fixing one metal profile to another, offers decisive advantages in use and in its durability.

#### The impressive features of the SL fastener



- Incorrect insertion virtually eliminated
- 100 % functionality from start to finish
- EPDM washers ensure effective sealing
- Ergonomic working with the CF 400 installation tool
- Increased productivity thanks to magazine-fed fasteners  
=Time is money !



#### Self drilling fasteners for fast, efficient overlapping

These special fasteners designed specifically for thin overlapping profiles offer a range of benefits. The optimum clamping strength results from careful matching of the tip to the thread diameter. Moreover, the special under-head design inhibits over-torquing as well as self-loosening under dynamic load. Any unevenness in the set is smoothed out by the special soft EPDM sealing washer. So the bond is always safe and secure.



#### Safe and easy installation with the CF 400 installation tool

Even working on the roof, a simple extension attached to the CF 400 insertion tool is all that is required to maintain a standing position. And using magazine-fed fasteners really speeds up the whole process.

## SL2-S / SL2-A



## Technical information

## Applications

Stainless steel fastening of side laps and flashings. The thread-free zone under the fastener head prevents stripping of the threads in the sheets. The sheets are pulled together tightly, clamped in the thread-free zone and sealed. The fasteners can be used without depth stop or torque coupling.

## Material

## Fastener

- SL2-S  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.
- SL2-A  
Aluminium

## Washer

- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)
- **A** = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

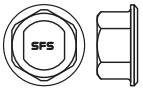
## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



- **irius**® Ø 12 mm



## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



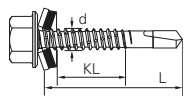


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

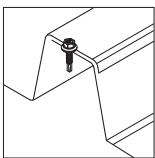
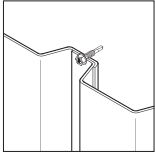



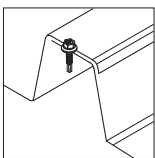
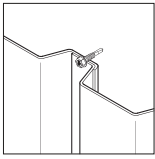
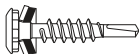


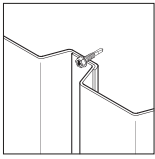
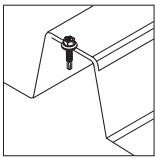
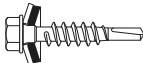


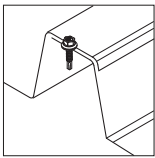
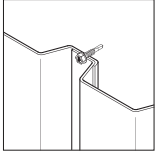


## E420 / E480



- The E420 setting tool is required for installing self drilling fasteners with the **irius**® system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

### Order information

	Hexagon 8 mm A/F	 <i>irius</i> ® Ø 12 mm	 Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>				

		Example order code						KL	Application range
Applications	Product	Approval	Type	HD	W*	d	L		
 	● Stainless steel 	  DTU 40.35 DTU 40.36	SL2-S- SL2-S- SL2-S-		S14- S14- S14-	4,8x 5,5x 5,5x	22 22 27	  Only for steel sheet and flashing	<u>VD max. steel</u> 2,0 mm  <u>t min. steel:</u> 2 x 0,4 - 2 x 1,0 mm
 	● Stainless steel 	  DTU 40.35 DTU 40.36	SL2-S-	L12-	S14-	6,3x	28	  Only for steel sheet and flashing	<u>VD max. steel</u> 2,0 mm  <u>t min. steel:</u> 2 x 0,4 - 2 x 1,0 mm
 	● Stainless steel 	  DTU 40.35 DTU 40.36	SL2-S-		S16-	6,3x	28	  Only for steel sheet and flashing	
 	▲ Aluminium 		SL2-A-		A14-	5,5x	20	  Only for aluminium sheet and flashing	<u>VD max. steel</u> 2,0 mm  <u>t min. steel:</u> 2 x 0,4 - 2 x 0,9 mm

## MF / MF-R



3

**Technical information****Applications**

Adaptable pipe flashing for all sheet metal roof profiles, to provide a permanently leakproof, vibration-proof, heatproof and weatherproof pipe penetration.

MF are used for new constructions.

MFR open pipe flashings can be used to seal existing pipe penetrations.

The specifications of DIN 18807 «Openings in roofs» must be complied with when using the pipe sleeves.

**Material****Fastener**

- MF / MF-R  
Weatherproof EPDM, black, Edge:  
aluminium coated

## Order information

3

## Pipe flashing closed

Pipe flashing code	Pipe diameter (mm)	Pipe flashing width (mm)	height (mm)	Fixing kit recommended	Application range
MFS-3-20	3 - 20	56	56	Set Nr. 1	Can be used for sheet metal profiles up to 40 mm high.
MF-1-6-50	6 - 50	112	112	Set Nr. 1	
MF-2-32-76	32 - 76	150	150	Set Nr. 2	Stainless steel hose clamps are available in Diameter (mm): 40 - 60                  60 - 80 70 - 90                  90 - 110 110 - 130                130 - 150 Pipe flashing and fixing kits have to be ordered separately!
MF-3-6-102	6 - 102	200	200	Set Nr. 2	
MF-4-76-152	76 - 152	250	250	Set Nr. 2	
MF-5-102-178	102 - 178	275	275	Set Nr. 2	
MF-6-127-228	127 - 228	300	300	Set Nr. 2	
MF-7-152-280	152 - 280	350	350	Set Nr. 1+2	
MF-8-178-330	178 - 330	425	425	Set Nr. 1+2	
MF-9-254-467	254 - 467	625	625	Set Nr. 2+2	
MF-M-330-660	330 - 660	850	850	Set Nr. 2+2+2	

## Pipe flashing open

Pipe flashing code	Pipe diameter (mm)	Pipe flashing width (mm)	height (mm)	Fixing kit recommended	Application range
MF-RETROFIT-1-10-50	10 - 50			Set Nr. 1	Can be used for sheet metal profiles up to 40 mm high.
MF-RETROFIT-2-10-90	10 - 90	155	155	Set Nr. 1	
MF-RETROFIT-3-40-110	40 - 110	203	203	Set Nr. 2	Stainless steel hose clamps are available in Diameter (mm): 40 - 60                  60 - 80 70 - 90                  90 - 110 110 - 130                130 - 150 Pipe flashing and fixing kits have to be ordered separately!
MF-RETROFIT-4-75-150	75 - 150	254	254	Set Nr. 2	
MF-RETROFIT-5-130-200	130 - 200	305	305	Set Nr. 2	
MF-RETROFIT-6-150-250	150 - 250	356	356	Set Nr. 1+2	
MF-RETROFIT-7-200-300	200 - 300	432	432	Set Nr. 1+2	
MF-RETROFIT-8-280-380	280 - 380	540	597	Set Nr. 2+2	

## Fixing Kit includes

Pipe flashing Kit	Kit includes	Application range
MF-SET-1-SX3	1 SILICON + 12 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-2-SX3	1 SILICON + 24 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-3-SX3	1 SILICON + 36 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-4-SX3	1 SILICON + 48 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-5-SX3	1 SILICON + 72 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-1-RV6604	1 SILICON + 12 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-2-RV6604	1 SILICON + 24 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-3-RV6604	1 SILICON + 36 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-4-RV6604	1 SILICON + 48 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-5-RV6604	1 SILICON + 72 x RV6604	for aluminium sheet (RV6604-6-4W)



## LS

**Product advantages**

- self-adhesive on one side to facilitate application
- raintight
- seal permits vapour diffusion
- easy to compress

**Technical information****Applications**

The pre-compressed tape is used for sealing joints against driving rain, dust, etc. It is suitable for longitudinal and transverse joints between trapezoidal profiles and sandwich elements.

**Material**

- Open-cell polyurethane foam impregnated with an acrylic polymer.

**Colour**

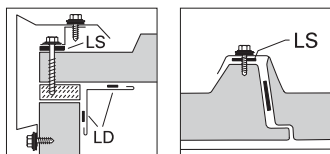
- Grey

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+5°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	300 Pa
Weathertightness	18542	Specification complied with

**Order information**

Example order code						
LS-		10/	2-3			
Type	tape width	joint height	box capacity	m/roll		
LS-	10/	2-3	275	25		
LS-	15/	2-3	175	25		
LS-	30/	2-3	75	25		
LS-	15/	3-5	126	18		
LS-	10/	3-6	143	13		
LS-	15/	3-6	91	13		
LS-	30/	3-6	39	13		



### Product advantages

- self-adhesive on one side to facilitate application
- non-compressible
- dimensionally stable, even at high temperatures



### Technical information

#### Applications

The dimensionally stable sealing tape is used for thermal separation of structural components, e.g. the top flange of liner trays, to minimise heat build-up.

#### Material

- Non cross-linked, closed-cell polypropylene copolymer foam; flame-retardant.

#### Colour

- Anthrazit

#### Technical details

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Heat resistance		–30°C to +130°C
Compatibility with building	52453	granted
Processing temperature		+5°C to +50°C
Shelf life		2 years
Storage temperature		+1°C to +20°C
Thermal conductivity		B2 (normally flammable)

### Order information

Example order code						
EB-	30/	3				
Type	tape width	tape thickness	box capacity	m/roll		
EB-	30/	3	720	30		
EB-	60/	3	360	30		
EB-	80/	3	270	30		

## LD

**Product advantages**

- self-adhesive on one side to facilitate application
- good adjustment even with wide joint tolerances
- especially easy to compress
- no deformation of the steel profiles
- leak-tight to driving rain up to 600 Pa
- stress class BG1
- airtight
- seal permits vapour diffusion

**Technical information****Applications**

The pre-compressed tape is used for airtight sealing of joints, e.g. for longitudinal and transverse liner joints and joints between sandwich elements.

**Material**

- Soft polyurethane foam impregnated on the sides.

**Colour**

- Anthrazit

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B1 (flame-retardant)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+1°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	leak-tight to driving rain up to 600 Pa
Weathertightness	18542	Specification complied with

**Order information**

	Example order code			box capacity	m/roll	
	LD- Type	10/ tape width	1-3 joint height			
	LD-	10/	1-3	240	30	
	LD-	14/	1-3	330	30	
	LD-	10/	1-4	176	22	
	LD-	14/	1-4	242	22	
	LD-	10/	2-6	270	18	
	LD-	14/	2-6	198	18	
	LD-	14/	3-9	132	12	
	LD-	18/	6-18	48	6	



4

Applications	Product code	Page
Steel substructure	SD / SDT	► 4.2
Internal steel substructure	SD-H15	► 4.6
Timber substructure	SW-T / SW3-T	► 4.9
Side lap and stitching	SL2-T / SL	► 4.13
Timber to steeldeck	SC / SCN2 SD2-S11	► 4.15
Pipe flashing	MF / MF-R	► 4.17
Sealing joint	LS, EB, LD	► 4.19

4

## SD / SDT



### Technical information

#### Applications

Fastening profile steel sheeting to steel in one operation: drilling, thread forming and sealing.

#### Material

##### Fastener

- SD / SDT  
Plated carbon steel, case hardened

##### Washer

- **T** = steel zinc plated with vulcanised EPDM
- **A** = Aluminium with vulcanised EPDM

##### Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

#### HD headform / drive

- **irius**® Ø 12 mm



- Hexagon 8 mm A/F



#### Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

#### Accessories

##### CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

##### DI 600



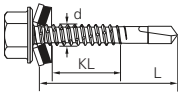

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

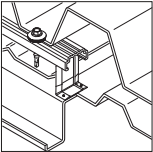
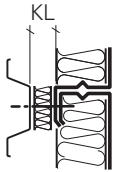
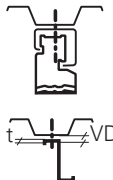
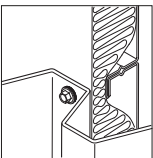
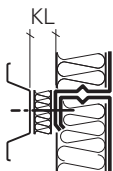
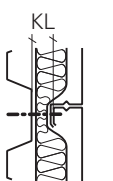
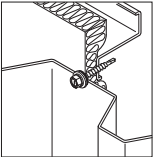
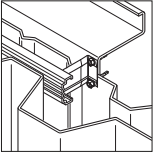
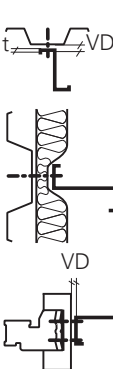
##### E420 / E480



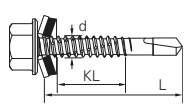

- The E420 setting tool is required for installing self drilling fasteners with the **irius**® system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

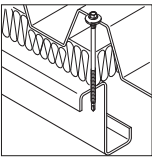
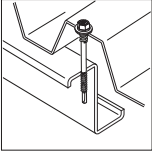

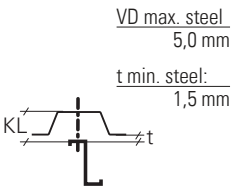
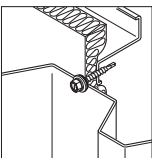
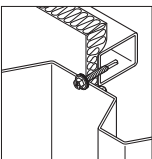
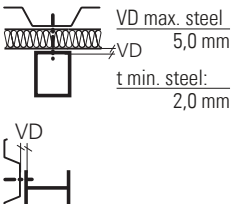
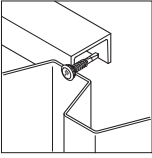
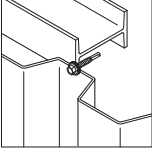
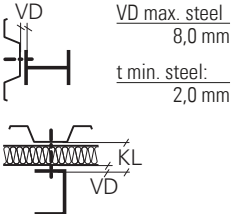
	<b>irus®</b> Ø 12 mm	Hexagon 8 mm A/F		Coloured fastener	<b>W: Washer material</b> T Carbon Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm						

			Example order code											
			SD	3-	L12-	T15-	4,8x	22					KL	Application range
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L				KL	Application range
	■ Carbon steel		SD	3-		L12-	T15-	4,8x	22				10	 VD max. steel: 3,0 mm t min. steel: 2 x 0,6 mm 1,5 mm
	■ Carbon steel		SD	3-			T15-	5,5x	25				10	
	■ Carbon steel		SD	3/	15-	L12-	T15-	4,8x	38				15	 VD max. steel: 3,0 mm t min. steel: 2 x 0,6 mm 1,5 mm
	■ Carbon steel		SD	3/	15-		T15-	4,8x	38				15	
 	■ Carbon steel		SD	3-			T15-	5,5x	32				12	 VD max. steel: 3,0 mm t min. steel: 2 x 0,6 mm 1,5 mm
			SD	3-			T15-	5,5x	38				15	
			SD	3-			T15-	5,5x	60				47	

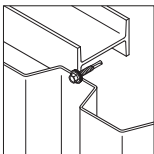

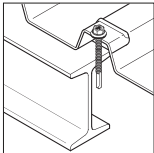
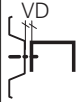
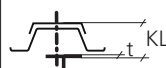
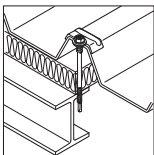

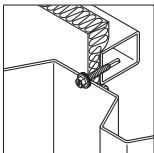
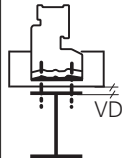
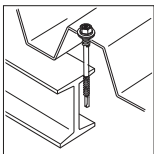

## Order information

	<b>irus®</b> Ø 12 mm	Hexagon 8 mm A/F	 Coloured fastener	<b>W: Washer material</b> T Carbon Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm					

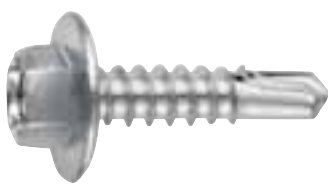
4

Example order code											
			SD	3-	L12- T15- 4,8x 22						
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range
 	■ Carbon steel		SDT	5-			A19-	5,5x	55	<b>38</b>	
			SDT	5-			A19-	5,5x	67	<b>31 - 45</b>	
			SDT	5-			A19-	5,5x	77	<b>39 - 55</b>	
			SDT	5-			A19-	5,5x	97	<b>49 - 75</b>	
			SDT	5-			A19-	5,5x	112	<b>59 - 90</b>	
			SDT	5-			A19-	5,5x	137	<b>69 - 112</b>	
			SDT	5-			A19-	5,5x	162	<b>110 - 137</b>	
			SDT	5-			A19-	5,5x	182	<b>114 - 160</b>	
			SDT	5-			A19-	5,5x	226	<b>158 - 204</b>	
			SDT	5-			A19-	5,5x	276	<b>208 - 254</b>	
 	■ Carbon steel		SD	5-		L12-	T15-	5,5x	25	<b>12</b>	
			SD	5-			T15-	5,5x	25	<b>12</b>	
 	■ Carbon steel		SD	8-		L12-	T15-	5,5x	25	<b>8</b>	
			SD	8-			T15-	5,5x	25	<b>8</b>	



			Example order code									
			SD	3-	L12- T15- 4,8x			22				
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range	
	■ Carbon steel		SD	14-		L12-	T15-	5,5x	32	13	 VD max. steel 14,0 mm t min. steel: 4,0 mm	
	■ Carbon steel		SD	14-			T15-	5,5x	32	13		
			SD	14-			T15-	5,5x	46	25		
			SD	14-			T15-	5,5x	56	5 - 35		
			SD	14-			T15-	5,5x	66	15 - 45		
			SD	14-			T15-	5,5x	76	25 - 55		
			SD	14-			T15-	5,5x	86	35 - 65		
												
	■ Carbon steel		SDT	14-			A19-	5,5x	60	29 - 32	VD max. steel 14,0 mm t min. steel: 4,0 mm	
			SDT	14-			A19-	5,5x	74	38 - 48		
			SDT	14-			A19-	5,5x	93	48 - 67		
			SDT	14-			A19-	5,5x	113	68 - 87		
			SDT	14-			A19-	5,5x	142	87 - 116		
			SDT	14-			A19-	5,5x	160	94 - 134		
			SDT	14-			A19-	5,5x	186	122 - 160		
			SDT	14-			A19-	5,5x	212	147 - 185		
			SDT	14-			A19-	5,5x	233	167 - 207		
			SDT	14-			A19-	5,5x	280	214 - 254		

## SD-H15



### Technical information

#### Applications

Fastening structural metal deck to steel structure

#### Material

##### Fastener

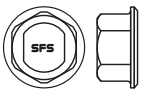
- SD-H15  
Plated carbon steel, case hardened.  
**15 mm diameter flange head.**
- SD  
Plated carbon steel, case hardened

##### Washer

- T = steel zinc plated with vulcanised EPDM

#### HD headform / drive

- Hexagon 8 mm A/F



#### Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

#### Accessories

##### CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

##### DI 600



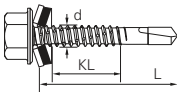

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

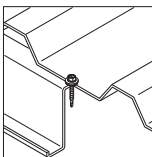
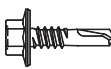


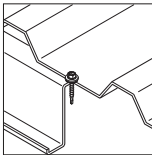
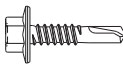


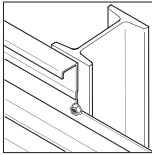
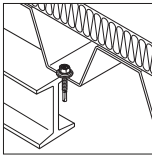
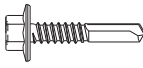


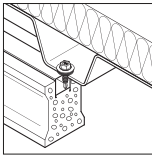
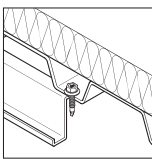
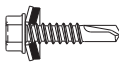

##### E480



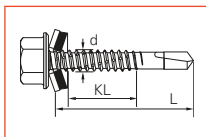

- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

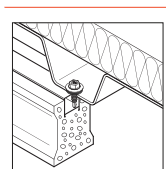
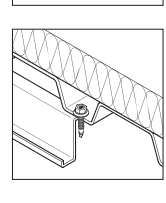
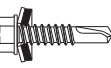
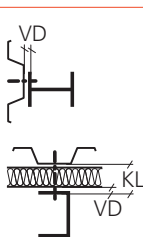
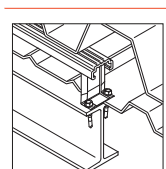
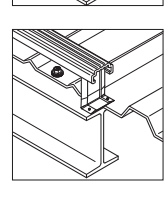
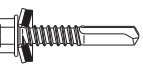
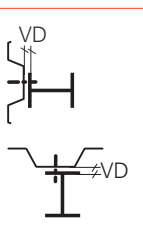
	Hexagon 8 mm A/F 	<b>W: Washer material</b> <b>T</b> Carbon Steel <b>A</b> Aluminium	<b>* Select Washer</b> <b>Ø 12-16 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>			

			Example order code								
			SD	5-	H15-	5,5x	22				
Applications	Product	Approval	Type	VD	HD	W*	d	L	KL	Application range	
	■ Carbon steel 	 DTU 40.3	SD	5-	H15-		5,5x	22	12	 <u>VD max. steel</u> 5,0 mm <u>t min. steel:</u> 1,5 mm	
	■ Carbon steel 	 DTU 40.3	SD	8-	H15-		5,5x	22	9	 <u>VD max. steel</u> 8,0 mm <u>t min. steel:</u> 2,0 mm	
 	■ Carbon steel 	 DTU 40.3	SD	14-	H15-		5,5x	30	14	 <u>VD max. steel</u> 14,0 mm <u>t min. steel:</u> 4,0 mm	
 	■ Carbon steel 		SD	5-	T15-		5,5x	25	12	 <u>VD max. steel</u> 5,0 mm <u>t min. steel:</u> 1,5 mm	

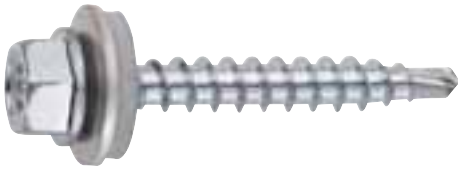
## Order information

	<p>Hexagon 8 mm A/F</p> 	<p><b>W: Washer material</b></p> <p><b>T</b> Carbon Steel <b>A</b> Aluminium</p>	<p><b>* Select Washer</b></p> <p><b>Ø 12-16 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights</p>
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>			

### Example order code

Applications	Product	Approval	Type	VD	HD	W*	d	L	KL	Application range
 	<p>■ Carbon steel</p> 		SD	8-	T15-	5,5x	25		<b>8</b>	 <p>VD max. steel 8,0 mm</p> <p>t min. steel: 2,0 mm</p>
 	<p>■ Carbon steel</p> 		SD	14-	T15-	5,5x	32		<b>13</b>	 <p>VD max. steel 14,0 mm</p> <p>t min. steel: 4,0 mm</p>

## SW-T / SW3-T



## Technical information

## Applications

Fastening profile steel sheeting to timber structure in one operation.

## Material

## Fastener

- SW-T / SW3-T  
Plated carbon steel, case hardened

## Washer

- **A** = Aluminium with vulcanised EPDM
- **T** = Carbon steel  
**A** = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

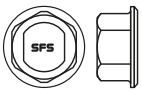
## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



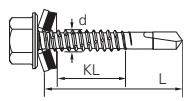


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

## E480

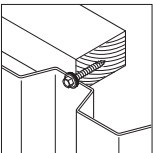

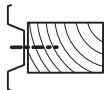
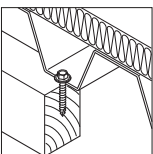
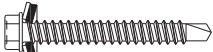
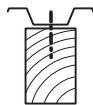
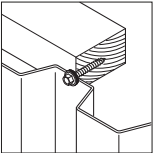
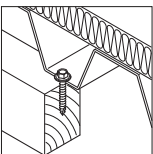
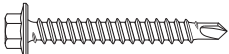
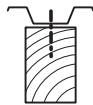


- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

	Hexagon 8 mm A/F 	 Coloured fastener	<b>W: Washer material</b> T Carbon Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm				

4

		Example order code								
		SW-T- A14- 4,8x 35								
Applications	Product	Approval	Type	HD	W*	d	L	KL	Application range	
	■ Carbon steel 		SW-T- SW-T- SW-T-		A14- A14- A14-	4,8x 4,8x 4,8x	35 51 75			VD max. steel 1 x1,0 mm 4 x0,7 mm
	■ Carbon steel 		SW3-T-		T16-	6,5x	50			VD max. steel 2 x1,2 mm 4 x0,7 mm
										
	■ Carbon steel 	DTU 40.3	SW3-T-	H15-		6,5x	50			VD max. steel 2 x1,2 mm 4 x0,7 mm



## The secure and speedy way to fix overlapping profiles.

The SL self drilling fastener range, specially developed for fixing one metal profile to another, offers decisive advantages in use and in its durability.

### The impressive features of the SL fastener



- Incorrect insertion virtually eliminated
- 100 % functionality from start to finish
- EPDM washers ensure effective sealing
- Ergonomic working with the CF 400 installation tool
- Increased productivity thanks to magazine-fed fasteners  
=Time is money !



#### Self drilling fasteners for fast, efficient overlapping

These special fasteners designed specifically for thin overlapping profiles offer a range of benefits. The optimum clamping strength results from careful matching of the tip to the thread diameter. Moreover, the special under-head design inhibits over-torquing as well as self-loosening under dynamic load. Any unevenness in the set is smoothed out by the special soft EPDM sealing washer. So the bond is always safe and secure.

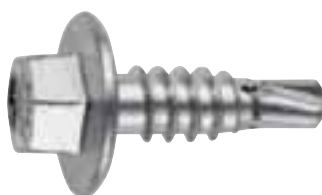


#### Safe and easy installation with the CF 400 installation tool

Even working on the roof, a simple extension attached to the CF 400 insertion tool is all that is required to maintain a standing position. And using magazine-fed fasteners really speeds up the whole process.



## SL2-T / SL-H15



## Technical information

## Applications

Carbon steel fastening of side laps and flashings. The thread-free zone under the fastener head prevents stripping of the threads in the sheets. The sheets are pulled together tightly, clamped in the thread-free zone and sealed. The fasteners can be used without depth stop or torque coupling.

## Material

## Fastener

- SL2-T / SL  
Plated carbon steel, case hardened
- SL-H15  
Plated carbon steel, case hardened.  
**15 mm diameter flange head.**

## Washer

- **A** = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- **irius®** Ø 12 mm



- Hexagon 8 mm A/F



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



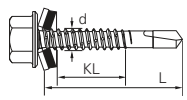

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

## E420 / E480

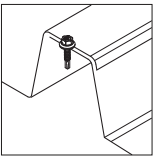

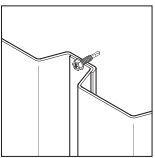
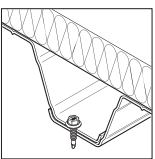

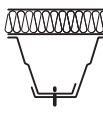
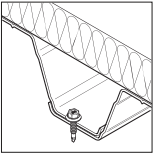

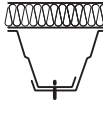
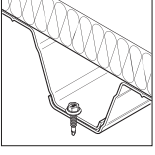

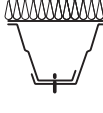


- The E420 setting tool is required for installing self drilling fasteners with the **irius®** system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

	<b>irus®</b> Ø 12 mm	Hexagon 8 mm A/F		<b>W: Washer material</b> <b>T</b> Carbon Steel <b>A</b> Aluminium
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>				

4

Example order code										
SL2-T- L12- A14- 4,8x 20										
Applications	Product	Approval	Type	VD	HD	W*	d	L	KL	Application range
	■ Carbon steel		SL2-T-		L12-	A14-	4,8x	20		 VD max. steel 2,0 -2 x1,0 mm 2 x0,4  t min. steel: 2 x0,4 -2 x1,0 mm
	■ Carbon steel		SL2-T-			A14-	4,8x	20		
	■ Carbon steel		SL	2-			4,8x	20		 VD max. steel 2,0 -2 x1,0 mm 2 x0,6  t min. steel: 2 x1,0  Only for steel sheet and flashing
	■ Carbon steel		SL	2-	H15-		6,3x	20		 VD max. steel 2,0 -2 x1,0 mm 2 x0,6  t min. steel: 2 x1,0  High load
	■ Carbon steel		SL	3-	H15-		6,3x	32		 VD max. steel 3,0 -2 x1,5 mm 2 x1,1

## SC / SCN2 / SD2-S11

**Technical information****Applications**

Fastening timber battens to steel work in one operation. The head embeds into the timber resulting a flat finish.

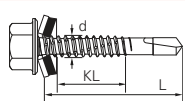
**Material****Fastener**

- SC / SCN2 / SD2  
Coated carbon steel,  
Case hardened

**Accessories****DI 600**

- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

## Order information



VD max. penetration | KL clamping length | HD headform / drive | W washer material and diameter | d thread diameter | L overall length | t thickness of structure | **All measures in mm**

Applications	Product	Approval	Example order code						KL	Application range
			SC	3/	25-	PH2-	4,8x	35		
		Carbon steel	SC	3/	25-	PH2-	4,8x	35	<b>25</b>	VD max. steel 3,0 mm t min. steel: 1,0 mm Bit: PH2
			SC	3/	35-	PH2-	4,8x	45	<b>35</b>	
			SC	3/	55-	PH2-	4,8x	65	<b>55</b>	
		Carbon steel	SC	5/	31-	DS12-	5,5x	45	<b>31</b>	VD max. steel 5,0 mm t min. steel: 1,5 mm TORX® T30
			SC	5/	36-	DS12-	5,5x	50	<b>36</b>	
			SC	5/	46-	DS12-	5,5x	60	<b>46</b>	
			SC	5/	66-	DS12-	5,5x	80	<b>66</b>	
			SC	5/	101-	DS12-	5,5x	115	<b>45 - 101</b>	
		Carbon steel	SCN	2/	25-	SR2-	4,2x	38	<b>10 - 25</b>	t min. steel: 2 x 0,7 - 2 x 1,0 mm Bit: SR2
			SCN	2/	57-	SR2-	4,2x	70	<b>40 - 57</b>	
		Carbon steel	SD	2/	40-	S11/T25-	6,0x	64	<b>45 - 55</b>	VD max. steel 2,0 mm t min. steel: 0,7 - 1 x 1,5 mm TORX® T25
			SD	2/	60-	S11/T25-	6,0x	84	<b>55 - 65</b>	
			SD	2/	80-	S11/T25	6,0x	104	<b>75 - 85</b>	

## MF / MF-R



## Technical information

**Applications**

Adaptable pipe flashing for all sheet metal roof profiles, to provide a permanently leakproof, vibration-proof, heatproof and weatherproof pipe penetration.

MF are used for new constructions.

MFR open pipe flashings can be used to seal existing pipe penetrations.

The specifications of DIN 18807 «Openings in roofs» must be complied with when using the pipe sleeves.

**Material**

- MF / MF-R  
Weatherproof EPDM, black, Edge:  
aluminium coated

## Order information

## Pipe flashing closed

Pipe flashing code	Pipe diameter (mm)	Pipe flashing width (mm)	height (mm)	Fixing kit recommended	Application range
MFS-3-20	3 - 20	56	56	Set Nr. 1	Can be used for sheet metal profiles up to 40 mm high.  Stainless steel hose clamps are available in Diameter (mm): 40 - 60                  60 - 80 70 - 90                  90 - 110 110 - 130                130 - 150 Pipe flashing and fixing kits have to be ordered separately!
MF-1-6-50	6 - 50	112	112	Set Nr. 1	
MF-2-32-76	32 - 76	150	150	Set Nr. 2	
MF-3-6-102	6 - 102	200	200	Set Nr. 2	
MF-4-76-152	76 - 152	250	250	Set Nr. 2	
MF-5-102-178	102 - 178	275	275	Set Nr. 2	
MF-6-127-228	127 - 228	300	300	Set Nr. 2	
MF-7-152-280	152 - 280	350	350	Set Nr. 1+2	
MF-8-178-330	178 - 330	425	425	Set Nr. 1+2	
MF-9-254-467	254 - 467	625	625	Set Nr. 2+2	
MF-M-330-660	330 - 660	850	850	Set Nr. 2+2+2	

## Pipe flashing open

Pipe flashing code	Pipe diameter (mm)	Pipe flashing width (mm)	height (mm)	Fixing kit recommended	Application range
MF-RETROFIT-1-10-50	10 - 50			Set Nr. 1	Can be used for sheet metal profiles up to 40 mm high.  Stainless steel hose clamps are available in Diameter (mm): 40 - 60                  60 - 80 70 - 90                  90 - 110 110 - 130                130 - 150 Pipe flashing and fixing kits have to be ordered separately!
MF-RETROFIT-2-10-90	10 - 90	155	155	Set Nr. 1	
MF-RETROFIT-3-40-110	40 - 110	203	203	Set Nr. 2	
MF-RETROFIT-4-75-150	75 - 150	254	254	Set Nr. 2	
MF-RETROFIT-5-130-200	130 - 200	305	305	Set Nr. 2	
MF-RETROFIT-6-150-250	150 - 250	356	356	Set Nr. 1+2	
MF-RETROFIT-7-200-300	200 - 300	432	432	Set Nr. 1+2	
MF-RETROFIT-8-280-380	280 - 380	540	597	Set Nr. 2+2	

## Fixing Kit includes

Pipe flashing Kit	Kit includes	Application range
MF-SET-1-SX3	1 SILICON + 12 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-2-SX3	1 SILICON + 24 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-3-SX3	1 SILICON + 36 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-4-SX3	1 SILICON + 48 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-5-SX3	1 SILICON + 72 x SX3	for steel sheet (SX3/9-A12-6,0x29)
MF-SET-1-RV6604	1 SILICON + 12 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-2-RV6604	1 SILICON + 24 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-3-RV6604	1 SILICON + 36 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-4-RV6604	1 SILICON + 48 x RV6604	for aluminium sheet (RV6604-6-4W)
MF-SET-5-RV6604	1 SILICON + 72 x RV6604	for aluminium sheet (RV6604-6-4W)

## LS

**Product advantages**

- self-adhesive on one side to facilitate application
- raintight
- seal permits vapour diffusion
- easy to compress

**Technical information****Applications**

The pre-compressed tape is used for sealing joints against driving rain, dust, etc. It is suitable for longitudinal and transverse joints between trapezoidal profiles and sandwich elements.

**Material**

- Open-cell polyurethane foam impregnated with an acrylic polymer.

**Colour**

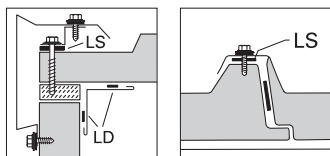
- Grey

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+5°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	300 Pa
Weathertightness	18542	Specification complied with

**Order information**

Example order code						
LS-	10/	2-3				
Type	tape width	joint height	box capacity	m/roll		
LS-	10/	2-3	275	25		
LS-	15/	2-3	175	25		
LS-	30/	2-3	75	25		
LS-	15/	3-5	126	18		
LS-	10/	3-6	143	13		
LS-	15/	3-6	91	13		
LS-	30/	3-6	39	13		



## EB

### Product advantages

- self-adhesive on one side to facilitate application
- non-compressible
- dimensionally stable, even at high temperatures



### Technical information

#### Applications

The dimensionally stable sealing tape is used for thermal separation of structural components, e.g. the top flange of liner trays, to minimise heat build-up.

#### Material

- Non cross-linked, closed-cell polypropylene copolymer foam; flame-retardant.

#### Colour

- Anthrazit

### Technical details

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Heat resistance		–30°C to +130°C
Compatibility with building	52453	granted
Processing temperature		+5°C to +50°C
Shelf life		2 years
Storage temperature		+1°C to +20°C
Thermal conductivity		B2 (normally flammable)

### Order information

Example order code						
EB-	30/	3				
Type	tape width	tape thickness	box capacity	m/roll		
EB-	30/	3	720	30		
EB-	60/	3	360	30		
EB-	80/	3	270	30		



## LD

**Product advantages**

- self-adhesive on one side to facilitate application
- good adjustment even with wide joint tolerances
- especially easy to compress
- no deformation of the steel profiles
- leak-tight to driving rain up to 600 Pa
- stress class BG1
- airtight
- seal permits vapour diffusion

**Technical information****Applications**

The pre-compressed tape is used for airtight sealing of joints, e.g. for longitudinal and transverse liner joints and joints between sandwich elements.

**Material**

- Soft polyurethane foam impregnated on the sides.

**Colour**

- Anthrazit

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B1 (flame-retardant)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+1°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	leak-tight to driving rain up to 600 Pa
Weathertightness	18542	Specification complied with

**Order information**

	Example order code			box capacity	m/roll	
	LD- Type	10/ tape width	1-3 joint height			
	LD-	10/	1-3	240	30	
	LD-	14/	1-3	330	30	
	LD-	10/	1-4	176	22	
	LD-	14/	1-4	242	22	
	LD-	10/	2-6	270	18	
	LD-	14/	2-6	198	18	
	LD-	14/	3-9	132	12	
	LD-	18/	6-18	48	6	



## 5

Applications	Product code	Page
Clip to steel or timber substructure	SDK2-S SDK3-S / SX SL3/2-5-S TDA-S / TDB-S	► 5.3
Aluminium sections to aluminium and steel framework	RV6604	► 5.6



## Easy clip fixings for standing seam roofing.

Challenging architectural designs and complex construction concepts may call for standing seam roofing. Accomplishing such complicated roof constructions places enormous demands on the fasteners.

Ease-of-use and efficient functioning throughout the life of the building are decisive criteria when it comes to choosing the right assembly method.

SDK fasteners, specially developed for clip fixing, leave nothing to be desired in terms of ease-of-use and security.

### The impressive features of SDK fasteners



- No faulty insertion
- 100 % function from start to finish
- Complete system with matched DS-K setting tool
- No need to change tools, because one unit does everything
- Maximum corrosion resistance
- Fasteners themselves can be swapped



#### Secure, efficient fixing of clips in thin profiles

With their propensity to over-torquing and self-loosening, conventional fasteners are inappropriate for fixing in thin plate. Using SDK fasteners, over-torquing is simply not possible. Direct assembly greatly simplifies clip fixing and the bonds are also extremely reliable.

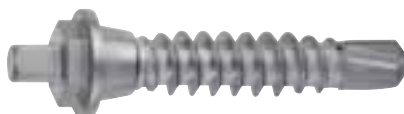
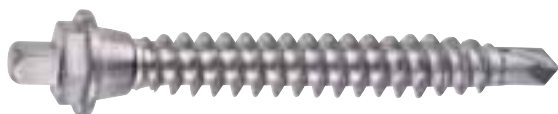


#### A completely thought-through system

The SDK fastener with its square drive is held captive in a special carrier unit. As a pre-determined insertion torque is reached, the drive pin breaks off. Then the installer knows that the fastener is driven fully correctly. Extensive laboratory tests have proven that the required pre-tensioning torque between the clip and the profile is constantly maintained.



## SDK2-S / SDK3-S / SX / SL3/2-5-S / TDA-S / TDB-S



## Technical information

## Applications

Fastening clips to steel and timber structure.

## Material

## Fastener

- SDK2-S / SDK3-S / SL3/2-5-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301)
- SX / TDA-S / TDB-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301), or grade AISI 316 (Europe-  
an Standard 1.4401) on request.

## Washer

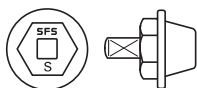
- **A** = Aluminium with vulcanised  
EPDM
- **S** = Stainless steel, grade AISI 304  
(European Standard 1.4301)

## Drill point

- Case hardened, special carbon  
steel

## HD headform / drive

- Special SDK head



- Hexagon 8 mm A/F



- Low profile Ø 12 mm



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## DI 600



- Lightweight power screwgun for in-  
stalling self drilling and self tapping  
fasteners.

## DS-K185 / DS-K265



- The DS-K185 / DS-K265 setting tool  
is required for installing  
SDK fasteners with a longitud-  
inal of 185 mm or 285 mm.

## E480

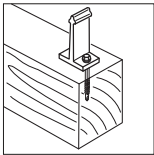
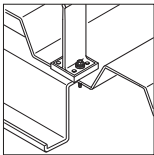



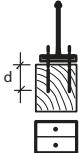
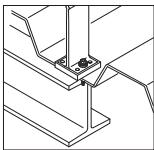



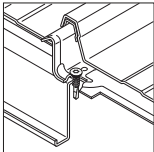





- The E480 setting tool is required for  
installing self-drilling fasteners with  
the hexagon head.

## Order information

	<p>Special SDK head    Hexagon 8 mm A/F    Low profile Ø 12 mm</p>	<p>Coloured fastener</p>	<p><b>W: Washer material</b></p> <p><b>S</b> Stainless Steel <b>A</b> Aluminium</p>	<p><b>* Select Washer</b></p> <p>Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights</p>
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>				

			Example order code											Application range
			SDK2-S-	377-	6,0x	35								
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL				
	● Stainless steel		SDK2-S-			377-		6,0x	35	<b>6 - 18</b>	<u>VD max. steel</u> 1,2 mm			
			SDK2-S-			377-		6,0x	45			<b>6 - 28</b>	<u>VD max. alu</u> 2,5 mm	
			SDK2-S-			377-		6,0x	60			<b>6 - 43</b>	<u>t min. steel:</u> 0,7 mm	
													<u>t min. alu:</u> 0,9 mm	
													Whole: $\varnothing 6,1\pm 0,1$ Effective insertion depth [thread] min. 23 mm <b>d</b> = min. 30 mm drill-tip	
	● Stainless steel		SDK3-S-			377-		6,0x	30	<b>6 - 13</b>	<u>VD max. steel</u> 3,2 mm			
			SDK3-S-			377-		6,0x	45			<b>6 - 28</b>	<u>VD max. alu</u> 3,2 mm	
													<u>t min. steel:</u> 1,3 mm	
													<u>t min. alu:</u> 2,0 mm	
													Whole: $\varnothing 6,1\pm 0,1$	
	● Stainless steel		SX	2/	18-		A16-	6,3x	35	<b>18</b>	<u>VD max. steel</u> 2,0 mm			
			SX	2/	28-		A16-	6,3x	45			<b>28</b>	<u>t min. steel:</u> 1,2 mm	
													<u>VD</u>	
	● Stainless steel		SL3/2-	5-S-			SV16-	6,0x	27	<b>2 - 4</b>	<u>VD max. steel</u> 3,8 mm			
													<u>VD max. alu</u> 4,8 mm	
													<u>t min. steel:</u> 0,6 mm	

			Example order code										
			SDK2-S-	377-			6,0x 35						
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range		
<div></div> <div></div>	<div>● Stainless steel</div> <div></div>	<div></div>	TDA-S- TDA-S- TDA-S-				S16- S16- S16-	6,5x 6,5x 6,5x	25 32 38	<b>13</b> <b>20</b> <b>26</b>	<div></div> <div></div> <div>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins or liner trays min.= 1,0 mm max. = 3,0 mm</div> <div>Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,0– 1,25 4,50 1,5– 3,00 5,00 wood 4,80</div>		
<div></div>	<div>● Stainless steel</div> <div></div>	<div></div>	TDB-S- TDB-S- TDB-S-				S16- S16- S16-	6,3x 6,3x 6,3x	25 32 38	<b>15</b> <b>22</b> <b>28</b>	<div></div> <div>Determining overall fastener length L: thickness of all materials fastened KL+10 mm.</div> <div>Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5–4,0 5,30 4,1–6,0 5,50 6,0–10,0 5,70 &gt; 10,0 5,80</div>		
<div></div>	<div>● Stainless steel</div> <div></div>	<div></div>	SX	5/	12-	D12-		5,5x	37	<b>12</b>	<div>VD max. steel 5,0 mm</div> <div>t min. steel: 1,5 mm</div> <div>t min. alu: 2,0 mm</div> <div></div> <div>TORX® T25W</div>		

## RV6604



### Technical information

#### Applications

Side lap stitching steel and aluminium sheets together securely. The three load bearing legs ensure all materials are clamped together.

#### Speciality

The fastening is weather resistant due to the integral sealing washer. Additional colour caps are available in various colours to match the profiled sheet.

#### Material

##### Fastener

- RV6604
- Body:** Aluminium AlMg5
- Mandrel:** Al Cu Mg 1

##### Washer

- EPDM

#### Accessories

##### AccuBird®



- For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

##### PowerBird®



- For standard blind rivets and Bulb-tite® rivets diameter up to 7,7 mm

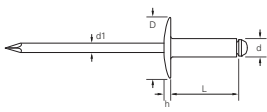
##### RV 28GA



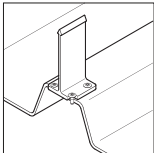


- For standard blind rivets and Bulb-tite® rivets diameter 6,3 - 7,7 mm



## Order information



**d** Rivet diameter in 1/32" | **KL** Max. Grip range in 1/16" | **t** thickness of structure | **All measures in mm**

		Example order code						
		RV6604- 6- 3 W						
Applications	Product	Approval	Type	d	KL	W*	KL	Application range
	▲ Aluminium 	 DTU 40.35 DTU 40.36	RV6604-	6-	3	W	<b>0,5 - 4,7</b>	Head diameter D: 11,5 mm
			RV6604-	6-	4	W	<b>1,5 - 6,3</b>	
			RV6604-	6-	6	W	<b>4,7 - 9,5</b>	Pilot hole: Ø 5,3 mm
			RV6604-	6-	8	W	<b>8,0 -12,7</b>	
			RV6604-	8-	10	W	<b>8,0 -12,7</b>	
			RV6604-	6-	12	W	<b>14,3-19,0</b>	



## 6

Applications	Product code	Page
Composite panel to steel sub-structure	SXC / SX	► 6.3
Composite panel to timber substructure	SXCW / SXW	► 6.5
Side lap and stitching	SL2-S	► 6.9
Sealing joint	LS, EB, LD	► 6.11

## Fast and comfortable fixing of sandwich panels.

An increasing awareness of environmental and energy issues and ever-tighter fire safety constraints all mean that the operating environment in industrial light building is changing.

Using state-of-the-art sandwich panels helps you rise to the challenges of economic construction and modern design needs. Great demands are also placed on the associated fasteners.

SFS intec offers the answer with the SXC family.

These parts fulfil a host of requirements in terms of both installation and long-term behaviour.

## The impressive features of SXC fasteners



- Fast, efficient assembly using self-drilling fastening technology
- The right fastener for each individual substrate
- A complete system, featuring the CF 55 setting tool
- No need to swap setting tools, as one tool does everything
- A depth stop, coupled with sealing washer and special under-head design, avoid dimpling of the sheet
- Maximum corrosion resistance



### Fixing sandwich panels in one operation

SFS intec SXC self drilling fasteners have been specially developed for the exacting demands of "sandwich" systems. Dynamic stress caused by temperature changes, foot traffic or wind load simply won't affect fastener performance. The supporting thread, thread-free zone and the vital sealing washer ensure a lifetime seal.



### Perfect fixing with the CF 55 installation tool

The front attachment enables simple insertion and high-quality fastening. This is particularly useful where extremely long fasteners are required. The depth locator also inhibits dimpling of the sheet, as well as faulty seals.



### A multiplicity of colours

To meet the requirements of architectural aesthetics, SFS intec offers these fasteners in any colour. The tried and trusted powder coating accurately matches the exact tone of the sandwich panels being used.

## SXC / SX



## Technical information

## Applications

Fastening composite panels to steel substructure. The unique thread free zone underneath the head ensure the fastening will remain sealed during the lifetime of the construction.

## Material

## Fastener

- SXC  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301)
- SX  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.

## Washer

- S = Stainless steel, grade AISI 304 (European Standard 1.4301)
- A = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Washer recommendation



Ø 16 - 19 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 55



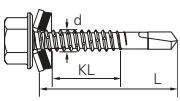


- A purpose designed setting tool for installing long composite panel fasteners. The extension drive bar and nosepiece ensure the fasteners are installed correctly.

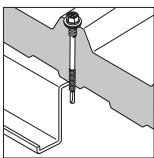
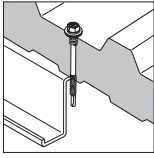


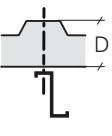
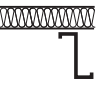
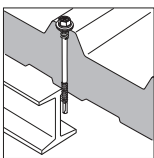
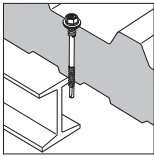


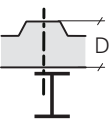
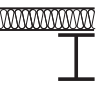
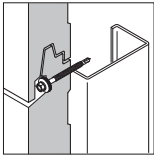

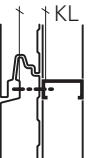
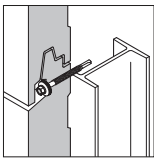


## DI 600



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

## Order information

	Hexagon 8 mm A/F 	 Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium	<b>* Select Washer</b> <b>Ø 16-19 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>D</b> panel thickness   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>				

			Example order code								Application range
Applications	Product	Approval	SXC	5-	KL	W*	d	L	D		
 	● Stainless steel	    DTU 40.35 DTU 40.36	SXC	5-		S19-	5,5x	62	<b>29 - 36</b>	    <u>VD max. steel</u> 5,0 mm <u>t min. steel:</u> 1,5 - 4,0 mm	
			SXC	5-		S19-	5,5x	82	<b>39 - 56</b>		
			SXC	5-		S19-	5,5x	92	<b>49 - 66</b>		
			SXC	5-		S19-	5,5x	113	<b>59 - 87</b>		
			SXC	5-		S19-	5,5x	133	<b>79 - 107</b>		
			SXC	5-		S19-	5,5x	163	<b>99 - 137</b>		
			SXC	5-		S19-	5,5x	193	<b>129 - 167</b>		
			SXC	5-		S19-	5,5x	236	<b>157 - 210</b>		
			SXC	5-		S19-	5,5x	261	<b>182 - 235</b>		
			SXC	5-		S19-	5,5x	286	<b>207 - 260</b>		
 	● Stainless steel	    DTU 40.35 DTU 40.36	SXC	14-		S19-	5,5x	71	<b>27 - 38</b>	    <u>VD max. steel</u> 14,0 mm <u>t min. steel:</u> 4,0 - 13,0 mm	
			SXC	14-		S19-	5,5x	80	<b>37 - 48</b>		
			SXC	14-		S19-	5,5x	99	<b>48 - 67</b>		
			SXC	14-		S19-	5,5x	118	<b>67 - 86</b>		
			SXC	14-		S19-	5,5x	138	<b>85 - 106</b>		
			SXC	14-		S19-	5,5x	147	<b>85 - 116</b>		
			SXC	14-		S19-	5,5x	168	<b>106 - 135</b>		
			SXC	14-		S19-	5,5x	193	<b>115 - 160</b>		
			SXC	14-		S19-	5,5x	218	<b>140 - 185</b>		
			SXC	14-		S19-	5,5x	243	<b>165 - 210</b>		
	● Stainless steel	  DTU 40.35 DTU 40.36	SX	5/	30-	S16-	5,5x	54	<b>20 - 30</b>	  <u>VD max. steel</u> 5,0 mm <u>t min. steel:</u> 1,5 mm <u>t min. alu:</u> 2,0 mm	
			SX	5/	55-	S16-	5,5x	80	<b>15 - 55</b>		
			SX	5/	70-	S16-	5,5x	95	<b>30 - 70</b>		
			SX	5/	85-	S16-	5,5x	110	<b>45 - 85</b>		
			SX	5/	115-	S16-	5,5x	140	<b>75 - 115</b>		
	● Stainless steel	  DTU 40.35 DTU 40.36	SX	14/	20-	S16-	5,5x	48	<b>20</b>	  <u>VD max. steel</u> 14,0 mm <u>t min. steel:</u> 4,0 mm <u>t min. alu:</u> 5,0 mm	
			SX	14/	38-	S16-	5,5x	63	<b>38</b>		
			SX	14/	58-	S16-	5,5x	84	<b>58</b>		
			SX	14/	75-	S16-	5,5x	100	<b>75</b>		

## SXCW / SXW



## Technical information

## Applications

Fastening composite panels to timber substructure. The unique thread free zone underneath the head ensure the fastening will remain sealed during the lifetime of the construction.

## Material

## Fastener

- SXCW / SXW  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301)

## Washer

- **S** = Stainless steel, grade AISI 304  
(European Standard 1.4301)  
**A** = Aluminium  
with vulcanised EPDM

## Drill point

- Case hardened, special carbon  
steel

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Washer recommendation



Ø 16-19 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 55



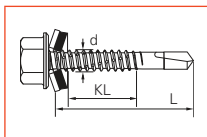


- A purpose designed setting tool  
for installing long composite panel  
fasteners. The extension drive bar  
and nosepiece ensure the fasteners  
are installed correctly.

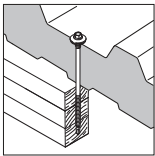
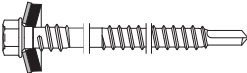


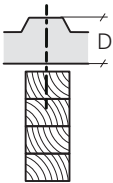
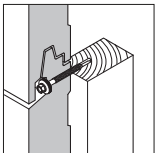
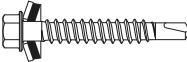

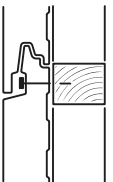
## DI 600



- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

## Order information

	<p>Hexagon 8 mm A/F</p> 	 Coloured fastener	<p><b>W: Washer material</b></p> <p><b>S</b> Stainless Steel <b>A</b> Aluminium</p> <p><b>* Select Washer</b></p> <p>Ø 16-19 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights</p>
<p>VD max. penetration   D panel thickness   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b></p>			

		Example order code						
		SXCW-	S19-	6,5x	90			
Applications	Product	Approval	Type	W*	d	L	D	Application range
	● Stainless steel 	    DTU 40.35 DTU 40.36	SXCW-	S19-	6,5x	90	<b>28 - 37</b>	  VD max. steel 2,0 mm
			SXCW-	S19-	6,5x	105	<b>38 - 55</b>	
			SXCW-	S19-	6,5x	115	<b>48 - 65</b>	
			SXCW-	S19-	6,5x	135	<b>68 - 85</b>	
			SXCW-	S19-	6,5x	155	<b>78 - 105</b>	
			SXCW-	S19-	6,5x	185	<b>100 - 135</b>	
			SXCW-	S19-	6,5x	205	<b>120 - 155</b>	
			SXCW-	S19-	6,5x	235	<b>150 - 185</b>	
			SXCW-	S19-	6,5x	275	<b>185 - 225</b>	
			SXCW-	S19-	6,5x	305	<b>215 - 255</b>	
	● Stainless steel 		SXW-	S16-	6,5x	54		  VD max. steel 2 x 1,0 mm
			SXW-	S16-	6,5x	75		
			SXW-	S16-	6,5x	99		





## The secure and speedy way to fix overlapping profiles.

The SL self drilling fastener range, specially developed for fixing one metal profile to another, offers decisive advantages in use and in its durability.

### The impressive features of the SL fastener



- Incorrect insertion virtually eliminated
- 100 % functionality from start to finish
- EPDM washers ensure effective sealing
- Ergonomic working with the CF 400 installation tool
- Increased productivity thanks to magazine-fed fasteners  
=Time is money !



#### Self drilling fasteners for fast, efficient overlapping

These special fasteners designed specifically for thin overlapping profiles offer a range of benefits. The optimum clamping strength results from careful matching of the tip to the thread diameter. Moreover, the special under-head design inhibits over-torquing as well as self-loosening under dynamic load. Any unevenness in the set is smoothed out by the special soft EPDM sealing washer. So the bond is always safe and secure.



#### Safe and easy installation with the CF 400 installation tool

Even working on the roof, a simple extension attached to the CF 400 insertion tool is all that is required to maintain a standing position. And using magazine-fed fasteners really speeds up the whole process.

## SL2-S



## Technical information

## Applications

Stainless steel fastening of side laps and flashings. The thread-free zone under the fastener head prevents stripping of the threads in the sheets. The sheets are pulled together tightly, clamped in the thread-free zone and sealed. The fasteners can be used without depth stop or torque coupling.

## Material

## Fastener

- SL2-S  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.

## Washer

- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)  
■ **A** = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

## Coloured fastener



- Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



- **irius**® Ø 12 mm



## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



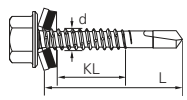

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

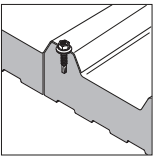


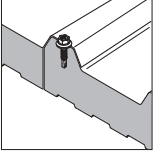

## E420 / E480



- The E420 setting tool is required for installing self drilling fasteners with the **irius**® system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

	Hexagon 8 mm A/F	<i>irius</i> ® Ø 12 mm		Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>					

		Example order code							KL	Application range
Applications	Product	Approval	Type	HD	W*	d	L			
	● Stainless steel		SL2-S-		S14-	4,8x	22			 VD max. steel 2,0 mm t min. steel: 2 x 0,4 - 2 x 1,0 mm Only for steel sheet and flashing
			SL2-S-		S14-	5,5x	22			
			SL2-S-		S14-	5,5x	27			
	● Stainless steel	DTU 40.35 DTU 40.36	SL2-S-	L12-	S14-	6,3x	28			 VD max. steel 2,0 mm t min. steel: 2 x 0,4 - 2 x 1,0 mm Only for steel sheet and flashing
	● Stainless steel		SL2-S-		S16-	6,3x	28			

## LS

**Product advantages**

- self-adhesive on one side to facilitate application
- raintight
- seal permits vapour diffusion
- easy to compress

**Technical information****Applications**

The pre-compressed tape is used for sealing joints against driving rain, dust, etc. It is suitable for longitudinal and transverse joints between trapezoidal profiles and sandwich elements.

**Material**

- Open-cell polyurethane foam impregnated with an acrylic polymer.

**Colour**

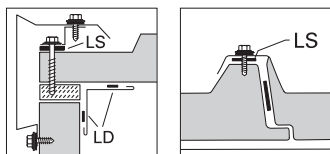
- Grey

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+5°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	300 Pa
Weathertightness	18542	Specification complied with

**Order information**

Example order code						
LS-	10/	2-3				
Type	tape width	joint height	box capacity	m/roll		
LS-	10/	2-3	275	25		
LS-	15/	2-3	175	25		
LS-	30/	2-3	75	25		
LS-	15/	3-5	126	18		
LS-	10/	3-6	143	13		
LS-	15/	3-6	91	13		
LS-	30/	3-6	39	13		



## EB

### Product advantages

- self-adhesive on one side to facilitate application
- non-compressible
- dimensionally stable, even at high temperatures



### Technical information

#### Applications

The dimensionally stable sealing tape is used for thermal separation of structural components, e.g. the top flange of liner trays, to minimise heat build-up.

#### Material

- Non cross-linked, closed-cell polypropylene copolymer foam; flame-retardant.

#### Colour

- Anthrazit

#### Technical details

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Heat resistance		–30°C to +130°C
Compatibility with building	52453	granted
Processing temperature		+5°C to +50°C
Shelf life		2 years
Storage temperature		+1°C to +20°C
Thermal conductivity		B2 (normally flammable)

### Order information

Example order code						
EB-	30/	3				
Type	tape width	tape thickness	box capacity	m/roll		
EB-	30/	3	720	30		
EB-	60/	3	360	30		
EB-	80/	3	270	30		

## LD

**Product advantages**

- self-adhesive on one side to facilitate application
- good adjustment even with wide joint tolerances
- especially easy to compress
- no deformation of the steel profiles
- leak-tight to driving rain up to 600 Pa
- stress class BG1
- airtight
- seal permits vapour diffusion

**Technical information****Applications**

The pre-compressed tape is used for airtight sealing of joints, e.g. for longitudinal and transverse liner joints and joints between sandwich elements.

**Material**

- Soft polyurethane foam impregnated on the sides.

**Colour**

- Anthrazit

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B1 (flame-retardant)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+1°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	leak-tight to driving rain up to 600 Pa
Weathertightness	18542	Specification complied with

**Order information**

	Example order code			box capacity	m/roll	
	LD- Type	10/ tape width	1-3 joint height			
	LD-	10/	1-3	240	30	
	LD-	14/	1-3	330	30	
	LD-	10/	1-4	176	22	
	LD-	14/	1-4	242	22	
	LD-	10/	2-6	270	18	
	LD-	14/	2-6	198	18	
	LD-	14/	3-9	132	12	
	LD-	18/	6-18	48	6	





## 7

Applications	Product code	Page
Composite panel to steel sub-structure	SDT / SD	► 7.2
Composite panel to timber substructure	SDTW	► 7.5
Side lap and stitching	SL2-T	► 7.9
Flatroof insulated panel to steel substructure	SD-D10	► 7.11
Sealing joint	LS, EB, LD	► 7.13



## SDT / SD



### Technical information

#### Applications

Fastening composite panels to steel substructure. The unique thread free zone underneath the head ensure the fastening will remain sealed during the lifetime of the construction.

#### Material

##### Fastener

- SDT / SD  
Plated carbon steel, case hardened

##### Washer

- **A** = Aluminium with vulcanised EPDM
- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)

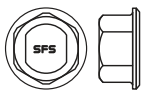
##### Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

#### HD headform / drive

- Hexagon 8 mm A/F



#### Washer recommendation



Ø 16-19 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

#### Accessories

##### CF 55



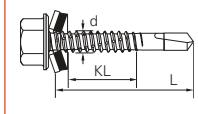


- A purpose designed setting tool for installing long composite panel fasteners. The extension drive bar and nosepiece ensure the fasteners are installed correctly.

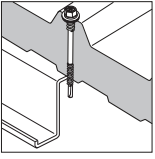
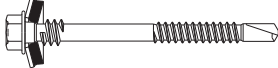

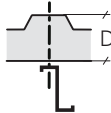
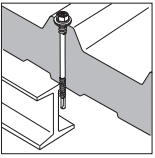
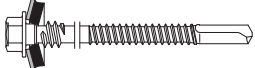

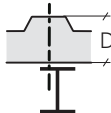
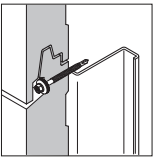
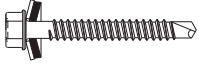


##### DI 600

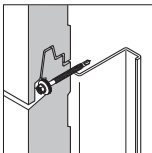
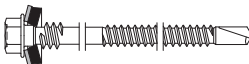

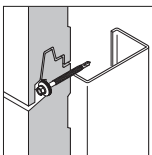
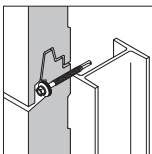
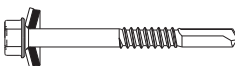
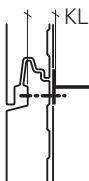
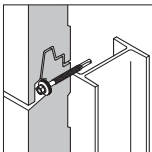
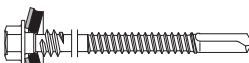

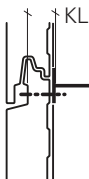


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

## Order information

	Hexagon 8 mm A/F 	 Coloured fastener	<b>W: Washer material</b> <b>T</b> Carbon Steel <b>A</b> Aluminium <b>S</b> Stainless steel  <b>* Select Washer</b> <b>Ø 16-19 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>D</b> panel thickness   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>			

			Example order code							Application range
Applications	Product	Approval	SDT	5-	A19-	5,5x	67	D		
	<b>Carbon steel</b> 		SDT	5-	A19-	5,5x	67	<b>31 - 45</b>		VD max. steel 5,0 mm  t min. steel: 1,5 mm
			SDT	5-	A19-	5,5x	77	<b>39 - 55</b>		
			SDT	5-	A19-	5,5x	97	<b>49 - 75</b>		
			SDT	5-	A19-	5,5x	112	<b>59 - 90</b>		
			SDT	5-	A19-	5,5x	137	<b>69 - 112</b>		
			SDT	5-	A19-	5,5x	162	<b>110 - 137</b>		
			SDT	5-	A19-	5,5x	182	<b>114 - 160</b>		
			SDT	5-	A19-	5,5x	226	<b>158 - 204</b>		
			SDT	5-	A19-	5,5x	276	<b>208 - 254</b>		
	<b>Carbon steel</b> 		SDT	14-	A19-	5,5x	60	<b>29 - 32</b>		VD max. steel 14,0 mm  t min. steel: 4,0 mm
			SDT	14-	A19-	5,5x	74	<b>38 - 48</b>		
			SDT	14-	A19-	5,5x	93	<b>48 - 67</b>		
			SDT	14-	A19-	5,5x	113	<b>68 - 87</b>		
			SDT	14-	A19-	5,5x	142	<b>87 - 116</b>		
			SDT	14-	A19-	5,5x	160	<b>94 - 134</b>		
			SDT	14-	A19-	5,5x	186	<b>122 - 160</b>		
			SDT	14-	A19-	5,5x	212	<b>147 - 185</b>		
			SDT	14-	A19-	5,5x	233	<b>167 - 207</b>		
			SDT	14-	A19-	5,5x	280	<b>214 - 254</b>		
	<b>Carbon steel</b> 		SD	3-	S16-	5,5x	45	<b>32</b>		VD max. steel 3,0 mm  t min. steel: 2 x 0,6 mm 1,5 mm
			SD	3-	S16-	5,5x	60	<b>47</b>		
			SD	3-	S16-	5,5x	70	<b>57</b>		
			SD	3-	S16-	5,5x	80	<b>67</b>		
			SD	3-	S16-	5,5x	100	<b>87</b>		

			Example order code							
			SDT	5-	A16-	5,5x	67			
Applications	Product	Approval	Type	VD	W*	d	L	D	Application range	
	■ Carbon steel		SDT	5-	A16-	5,5x	97	<b>49 - 75</b>	  <u>VD max. steel:</u> 5,0 mm <u>t min. steel:</u> 1,5 mm	
			SDT	5-	A16-	5,5x	112	<b>59 - 90</b>		
			SDT	5-	A16-	5,5x	137	<b>69 - 112</b>		
			SDT	5-	A16-	5,5x	162	<b>110 - 137</b>		
			SDT	5-	A16-	5,5x	182	<b>114 - 160</b>		
			SDT	5-	A16-	5,5x	226	<b>158 - 204</b>		
										
	■ Carbon steel		SD	14-	S16-	5,5x	56	<b>5 - 35</b>	  <u>VD max. steel:</u> 14,0 mm <u>t min. steel:</u> 4,0 mm	
			SD	14-	S16-	5,5x	66	<b>15 - 45</b>		
			SD	14-	S16-	5,5x	76	<b>25 - 55</b>		
			SD	14-	S16-	5,5x	86	<b>35 - 65</b>		
	■ Carbon steel	 	SDT	14-	A16-	5,5x	93	<b>48 - 67</b>	  <u>VD max. steel:</u> 14,0 mm <u>t min. steel:</u> 4,0 mm	
			SDT	14-	A16-	5,5x	113	<b>68 - 87</b>		
			SDT	14-	A16-	5,5x	142	<b>87 - 116</b>		
			SDT	14-	A16-	5,5x	160	<b>94 - 134</b>		
			SDT	14-	A16-	5,5x	186	<b>122 - 160</b>		
			SDT	14-	A16-	5,5x	233	<b>167 - 207</b>		

## SDTW



## Technical information

## Applications

Fastening composite panels to timber substructure. The unique thread free zone underneath the head ensure the fastening will remain sealed during the lifetime of the construction.

## Material

## Fastener

- SDTW  
Plated carbon steel, case hardened

## Washer

- **A** = Aluminium with vulcanised EPDM

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Washer recommendation



Ø 16-19 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 55



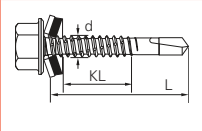


- A purpose designed setting tool for installing long composite panel fasteners. The extension drive bar and nosepiece ensure the fasteners are installed correctly.

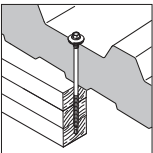
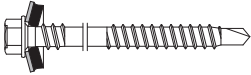
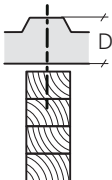
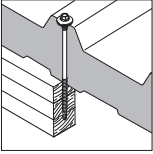
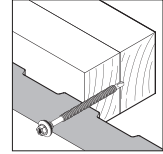
## DI 600



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

## Order information

	<p>Hexagon 8 mm A/F</p> 	 Coloured fastener	<p><b>W: Washer material</b></p> <p><b>T</b> Carbon Steel <b>A</b> Aluminium</p> <p><b>* Select Washer</b></p> <p><b>Ø 16-19 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights</p>
<p><b>VD</b> max. penetration   <b>D</b> panel thickness   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>			

		Example order code					
		SDTW-	A19-	6,5x	75		
Applications	Product	Type	W*	d	L	D	Application range
	<p>■ Carbon steel</p> 	SDTW-	A19-	6,5x	75	<b>28 - 42</b>	 <p>VD max. steel 2,0 mm</p>
		SDTW-	A19-	6,5x	115	<b>68 - 82</b>	
		SDTW-	A19-	6,5x	125	<b>78 - 92</b>	
		SDTW-	A19-	6,5x	135	<b>88 - 102</b>	
							



## The secure and speedy way to fix overlapping profiles.

The SL self drilling fastener range, specially developed for fixing one metal profile to another, offers decisive advantages in use and in its durability.

### The impressive features of the SL fastener



- Incorrect insertion virtually eliminated
- 100 % functionality from start to finish
- EPDM washers ensure effective sealing
- Ergonomic working with the CF 400 installation tool
- Increased productivity thanks to magazine-fed fasteners  
=Time is money !



#### Self drilling fasteners for fast, efficient overlapping

These special fasteners designed specifically for thin overlapping profiles offer a range of benefits. The optimum clamping strength results from careful matching of the tip to the thread diameter. Moreover, the special under-head design inhibits over-torquing as well as self-loosening under dynamic load. Any unevenness in the set is smoothed out by the special soft EPDM sealing washer. So the bond is always safe and secure.



#### Safe and easy installation with the CF 400 installation tool

Even working on the roof, a simple extension attached to the CF 400 insertion tool is all that is required to maintain a standing position. And using magazine-fed fasteners really speeds up the whole process.



## SL2-T



## Technical information

## Applications

Carbon steel fastening of side laps and flashings. The thread-free zone under the fastener head prevents stripping of the threads in the sheets. The sheets are pulled together tightly, clamped in the thread-free zone and sealed. The fasteners can be used without depth stop or torque coupling.

## Material

## Fastener

- SL2-T  
Plated carbon steel, case hardened

## Washer

- **A** = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

## Coloured fastener



- Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



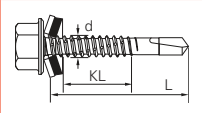


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

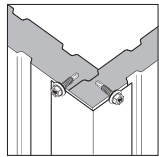
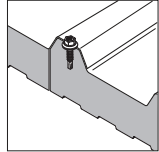


## E480



- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

	<p>Hexagon 8 mm A/F</p> 	 <p>Coloured fastener</p>	<p><b>W: Washer material</b></p> <p><b>T</b> Carbon Steel <b>A</b> Aluminium</p>
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>			

		Example order code					
		SL2-T-	A14-	4,8x	20		
Applications	Product	Type	W*	d	L	KL	Application range
 	<p>■ Carbon steel</p> 	SL2-T-	A14-	4,8x	20		 <p><u>VD max. steel</u> 2 x1,0 mm</p> <p><u>t min. steel:</u> 2 x0,4 -2 x1,0 mm</p>

## SD-D10



## Technical information

## Applications

Fastening flatroof insulated panel to steel substructure.

## Material

## Fastener

- SD  
Plated carbon steel, case  
hardened

## Washer

- T = steel zinc plated

## HD headform / drive

- Low profile Ø 10 mm



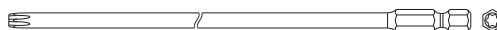
## Accessories

## DI 600

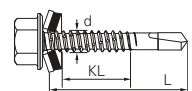



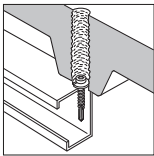
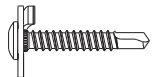
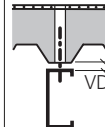
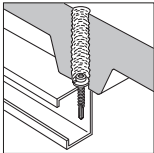
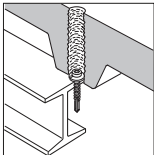

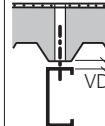
- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

## Torx® T25W-175



## Order information

	<p>Low profile Ø 10 mm</p> 	
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

		Example order code								
		SD	3-	D10-	T19/C9-	5,5x	30			
Applications	Product	Type	VD	HD	W*	d	L	KL	Application range	
	■ Carbon steel 	SD	3-	D10-	T19/C9-	5,5x	30		  Torx® T25W - 175 mm	<u>VD max. steel</u> 3,0 mm  <u>t min. steel:</u> 2 x 0,6 mm 1,5 mm
 	■ Carbon steel 	SD	14-	D10-	T19/C9-	5,5x	46		  Torx® T25W - 175 mm	<u>VD max. steel</u> 14,0 mm  <u>t min. steel:</u> 4,0 mm

## LS

**Product advantages**

- self-adhesive on one side to facilitate application
- raintight
- seal permits vapour diffusion
- easy to compress

**Technical information****Applications**

The pre-compressed tape is used for sealing joints against driving rain, dust, etc. It is suitable for longitudinal and transverse joints between trapezoidal profiles and sandwich elements.

**Material**

- Open-cell polyurethane foam impregnated with an acrylic polymer.

**Colour**

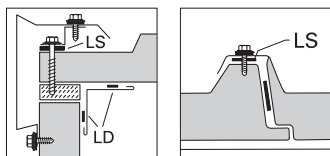
- Grey

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Vapour diffusion resistance	EN ISO 12572	$\mu f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+5°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	300 Pa
Weathertightness	18542	Specification complied with

**Order information**

Example order code						
LS- 10/ 2-3			box capacity	m/roll		
Type	tape width	joint height				
LS-	10/	2-3	275	25		
LS-	15/	2-3	175	25		
LS-	30/	2-3	75	25		
LS-	15/	3-5	126	18		
LS-	10/	3-6	143	13		
LS-	15/	3-6	91	13		
LS-	30/	3-6	39	13		



## EB

### Product advantages

- self-adhesive on one side to facilitate application
- non-compressible
- dimensionally stable, even at high temperatures



### Technical information

#### Applications

The dimensionally stable sealing tape is used for thermal separation of structural components, e.g. the top flange of liner trays, to minimise heat build-up.

#### Material

- Non cross-linked, closed-cell polypropylene copolymer foam; flame-retardant.

#### Colour

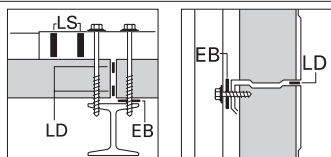
- Anthrazit

### Technical details

Item	DIN	Characteristics
Class of building material	4102	B2 (normally flammable)
Heat resistance		−30°C to +130°C
Compatibility with building	52453	granted
Processing temperature		+5°C to +50°C
Shelf life		2 years
Storage temperature		+1°C to +20°C
Thermal conductivity		B2 (normally flammable)

### Order information

Example order code						
EB-	30/	3				
Type	tape width	tape thickness	box capacity	m/roll		
EB-	30/	3	720	30		
EB-	60/	3	360	30		
EB-	80/	3	270	30		



## LD

**Product advantages**

- self-adhesive on one side to facilitate application
- good adjustment even with wide joint tolerances
- especially easy to compress
- no deformation of the steel profiles
- leak-tight to driving rain up to 600 Pa
- stress class BG1
- airtight
- seal permits vapour diffusion

**Technical information****Applications**

The pre-compressed tape is used for airtight sealing of joints, e.g. for longitudinal and transverse liner joints and joints between sandwich elements.

**Material**

- Soft polyurethane foam impregnated on the sides.

**Colour**

- Anthrazit

**Technical details**

Item	DIN	Characteristics
Class of building material	4102	B1 (flame-retardant)
Vapour diffusion resistance	EN ISO 12572	$\mu_f$ 100
Heat resistance		-30°C to +90°C
Compatibility with building	52453	granted
Joint permeability	18055	$a_f$ 0,1 m <sup>3</sup> / [h x m x (daPa)n]
Processing temperature		+1°C to +50°C
Shelf life		1 year
Storage temperature		+1°C to +20°C
Driving rain leak-tightness	18055	leak-tight to driving rain up to 600 Pa
Weathertightness	18542	Specification complied with

**Order information**

Example order code					
LD-	10/	1-3			
Type	tape width	joint height	box capacity	m/roll	
LD-	10/	1-3	240	30	
LD-	14/	1-3	330	30	
LD-	10/	1-4	176	22	
LD-	10/	2-6	270	18	
LD-	14/	2-6	198	18	
LD-	14/	3-9	132	12	
LD-	18/	6-18	48	6	





## 8

Applications	Product code	Page
<b>Steel, aluminium and timber substructure</b>	<b>TDA-S / TDB-S TDC-S</b>	► 8.3
<b>Steel, aluminium and timber substructure</b>	<b>TDA-T / TDB-T</b>	► 8.6
<b>Steel substructures</b>	<b>TDBL-T</b>	► 8.8
<b>Anchoring</b>	<b>GA-AS, GA-BS</b>	► 8.10
<b>Predrilling steel and wood</b>	<b>HSS</b>	► 8.12

### Simple, reliable fixing in high tensile steel.

Increasing demands in terms of security and product durability increasingly call for the use of high quality steel fasteners in industrial light construction.

Quite often, a range of different steel qualities are used on site. Conventional thread-forming screws may arrive at their working limits; or become extremely difficult to use.

But it's no problem for SFS intec thread-forming fasteners, which maintain their complete functionality in every steel grade from S 235 to S 355.

### The impressive features of the TDB-S fasteners

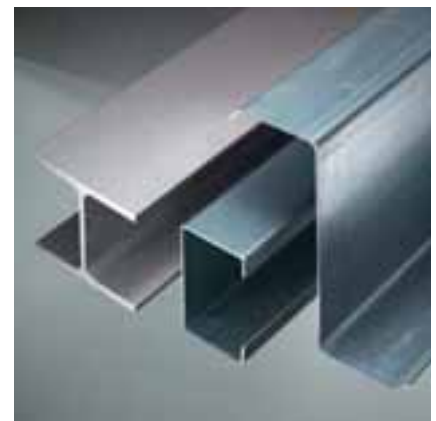


- Fully functional in every grade of steel; even S 355
- One fastener for a wide range of applications – a safe choice
- Available in a wide range of colours
- Maximum corrosion resistance



#### On the safe side with TDB-S fasteners

Many application faults can be eliminated by the use of TDB-S fasteners. For instance, the same pre-drilling diameter can be applied independently of the steel grade. Thread damage caused by improper pre-drilling or choosing the wrong fastener is a thing of the past.



#### One fastener for a wide range of substrates

By optimizing the production process of the TDB-S, it has been possible to further extend the application range of this widely used thread-forming fastener.

This makes the TDB-S the ideal choice for any steel support structure from S 235 (ST37) to S 355 (ST 52).

## TDA-S / TDB-S / TDC-S



## Technical information

## Applications

**TDA-S:** fastening into timber and thin steel < 3.0 mm

**TDB-S:** fastening into steel with a thickness > 1.5 mm

**TDC-S:** repair fastener

## Material

## Fastener

- TDA-S / TDB-S / TDC-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301), or grade AISI 316 (Europe-  
an Standard 1.4401) on request.

## Washer

- **S** = Stainless steel, grade AISI 304  
(European Standard 1.4301)  
**A** = Aluminium  
with vulcanised EPDM

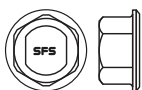
## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Hexagon 8 mm A/F



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## DI 600



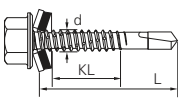


- Lightweight power screwgun for  
installing self drilling and self  
tapping fasteners.

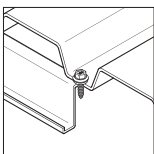
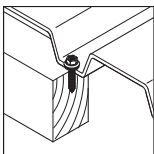



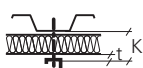

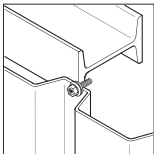
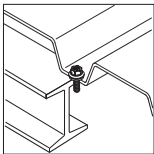



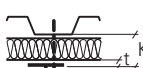

## E480

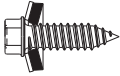


- The E480 setting tool is recom-  
mended for installing self drilling  
fasteners with the hexagon head.

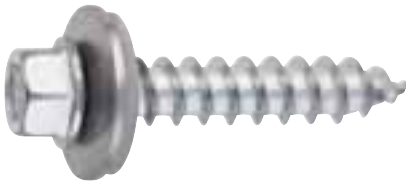
## Order information

	Hexagon 8 mm A/F 	 Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium	<b>* Select Washer</b> <b>Ø 12-16 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>				

		Example order code						
		TDA-S- S16- 6,5x 19						
Applications	Product	Approval	Type	W*	d	L	KL	Application range
 			TDA-S-	S16-	6,5x	19	<b>7</b>	
			TDA-S-	S16-	6,5x	25	<b>13</b>	
			TDA-S-	S16-	6,5x	32	<b>20</b>	
			TDA-S-	S16-	6,5x	38	<b>26</b>	
			TDA-S-	S16-	6,5x	45	<b>33</b>	
			TDA-S-	S16-	6,5x	51	<b>39</b>	
			TDA-S-	S16-	6,5x	64	<b>52</b>	
			TDA-S-	S16-	6,5x	76	<b>64</b>	
			TDA-S-	S16-	6,5x	90	<b>78</b>	
			TDA-S-	S16-	6,5x	100	<b>88</b>	
			TDA-S-	S16-	6,5x	115	<b>103</b>	
			TDA-S-	S16-	6,5x	127	<b>115</b>	
			TDA-S-	S16-	6,5x	152	<b>140</b>	
			TDA-S-	S16-	6,5x	178	<b>166</b>	
			TDA-S-	S16-	6,5x	215	<b>203</b>	
			TDA-S-	S16-	6,5x	250	<b>238</b>	
			TDA-S-	S16-	6,5x	300	<b>288</b>	
							Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins or liner trays min. = 1,0 mm max. = 3,0 mm	
							Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,0– 1,25 4,50 1,5– 3,00 5,00 wood 4,80	
 			TDB-S-	S16-	6,3x	19	<b>9</b>	
			TDB-S-	S16-	6,3x	25	<b>15</b>	
			TDB-S-	S16-	6,3x	32	<b>22</b>	
			TDB-S-	S16-	6,3x	38	<b>28</b>	
			TDB-S-	S16-	6,3x	45	<b>35</b>	
			TDB-S-	S16-	6,3x	51	<b>41</b>	
			TDB-S-	S16-	6,3x	64	<b>54</b>	
			TDB-S-	S16-	6,3x	76	<b>66</b>	
			TDB-S-	S16-	6,3x	90	<b>80</b>	
			TDB-S-	S16-	6,3x	100	<b>90</b>	
			TDB-S-	S16-	6,3x	115	<b>105</b>	
			TDB-S-	S16-	6,3x	127	<b>117</b>	
			TDB-S-	S16-	6,3x	145	<b>135</b>	
			TDB-S-	S16-	6,3x	152	<b>142</b>	
			TDB-S-	S16-	6,3x	178	<b>168</b>	
			TDB-S-	S16-	6,3x	215	<b>205</b>	
			TDB-S-	S16-	6,3x	265	<b>255</b>	
			TDB-S-	S16-	6,3x	285	<b>275</b>	
							Determining overall fastener length L: thickness of all materials fastened KL+10 mm.	
							Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5–4,0 5,30 4,1–6,0 5,50 6,0–10,0 5,70 > 10,0 5,80	

			Example order code					
			TDA-S-	S16-	6,5x	19		
Applications	Product	Approval	Type	W*	d	L	KL	Application range
	<p>● Stainless steel</p> 		TDC-S-	S19-	7,1x	19	<b>7</b>	<p><b>Repair fastener in purlin:</b> The 7,1x19 repair fastener can be used to repair overdriven fasteners in purlins. However, in that case the existing hole has to be enlarged to 6,55 mm. Only suitable for steel purlin up to 3 mm.</p> <p><b>Repair fastener in side lap applications</b></p> <ol style="list-style-type: none"> <li>1. Take out over torqued fastener</li> <li>2. Insert TDC-S fastener in the same hole</li> <li>3. Tighten and seal (carefully tighten using engineers hand brace)</li> </ol>
			TDC-S-	S29-	7,1x	25	<b>7</b>	

## TDA-T / TDB-T



### Technical information

#### Applications

**TDA-T:** fastening into timber and thin steel < 3.0 mm

**TDB-T:** fastening into steel with a thickness > 1.5 mm

#### Material

##### Fastener

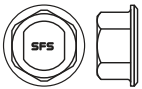
- TDA-T / TDB-T  
Plated carbon steel, case hardened

##### Washer

- **T** = Carbon steel
- **A** = Aluminium with vulcanised EPDM

#### HD headform / drive

- Hexagon 8 mm A/F



#### Accessories

##### DI 600



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

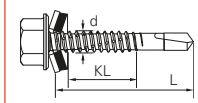

##### E480

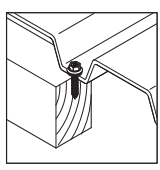


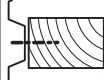
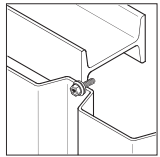




- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

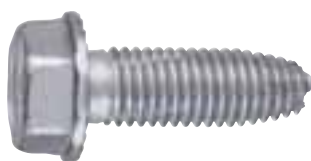


## Order information

	Hexagon 8 mm A/F 	<b>W: Washer material</b> <b>T</b> Carbon Steel <b>A</b> Aluminium  <b>* Select Washer</b> <b>Ø 12-16 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>		

		Example order code				KL	Application range
Applications	Product	Type	W*	d	L		
  <b>■ Carbon steel</b>		TDA-T-	T16-	6,5x	19	<b>7</b>	  Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins or liner trays min. = 1,0 mm max. = 3,0 mm  Recommended pilot hole diameter: <b>t</b> in mm:    pilot hole in mm: 1,0– 1,25    4,50 1,5– 3,00    5,00 wood        4,80
		TDA-T-	T16-	6,5x	25	<b>13</b>	
		TDA-T-	T16-	6,5x	32	<b>20</b>	
		TDA-T-	T16-	6,5x	38	<b>26</b>	
		TDA-T-	T16-	6,5x	45	<b>33</b>	
		TDA-T-	T16-	6,5x	51	<b>39</b>	
		TDA-T-	T16-	6,5x	64	<b>52</b>	
		TDA-T-	T16-	6,5x	76	<b>64</b>	
		TDA-T-	T16-	6,5x	90	<b>78</b>	
		TDA-T-	T16-	6,5x	100	<b>88</b>	
		TDA-T-	T16-	6,5x	127	<b>115</b>	
		TDA-T-	T16-	6,5x	152	<b>140</b>	
		TDA-T-	T16-	6,5x	178	<b>166</b>	
		TDA-T-	T16-	6,5x	215	<b>203</b>	
  <b>■ Carbon steel</b>		TDB-T-	T16-	6,3x	19	<b>9</b>	 Determining overall fastener length L: thickness of all materials fastened KL+10 mm.  Recommended pilot hole diameter: <b>t</b> in mm:    pilot hole in mm: 1,5–4,0        5,30 4,1–6,0        5,50 6,0–10,0       5,70 > 10,0         5,80
		TDB-T-	T16-	6,3x	25	<b>15</b>	
		TDB-T-	T16-	6,3x	32	<b>22</b>	
		TDB-T-	T16-	6,3x	38	<b>28</b>	
		TDB-T-	T16-	6,3x	45	<b>35</b>	
		TDB-T-	T16-	6,3x	51	<b>41</b>	
		TDB-T-	T16-	6,3x	64	<b>54</b>	
		TDB-T-	T16-	6,3x	76	<b>66</b>	
		TDB-T-	T16-	6,3x	90	<b>80</b>	
		TDB-T-	T16-	6,3x	100	<b>90</b>	
		TDB-T-	T16-	6,3x	127	<b>117</b>	
		TDB-T-	T16-	6,3x	152	<b>142</b>	
		TDB-T-	T16-	6,3x	178	<b>168</b>	
		TDB-T-	T16-	6,3x	215	<b>205</b>	

## TDBL-T



### Technical information

#### Applications

Fastening steel purlins to steel structure.

#### Material

##### Fastener

- TDBL-T  
Plated carbon steel, case  
hardened

#### HD headform / drive

- Hexagon  
Fastener Ø 8,6 : Hexagon 13 mm A/F  
Fastener Ø 10,6 : Hexagon 16 mm A/F



#### Accessories

##### BF414



- Lightweight impact screw gun  
Magnetic socket E 313 Hex 13 mm

##### BF419



- Lightweight impact screw gun  
Magnetic socket E 316 Hex 16 mm

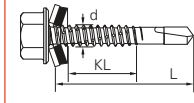

##### E313/E316

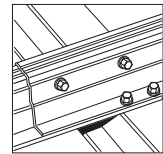


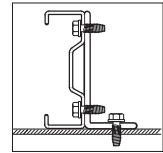
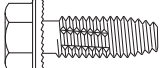



- Magnetic socket E313 / E316  
E313: Drive 1/4" Hex 13 mm  
E316: Drive 1/2" Square,  
Hex 16 mm



## Order information

	<p>Hexagon</p> 	
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

		Example order code			KL	Application range
Applications	Product	Type	d	L		
	<p>■ Carbon steel</p> 	TDBL-T-	8,6x	16		 <p>t min. steel: 2 x 0,9 - 2 x 1,2 mm</p> <p>t &lt; 3,0 mm = hole Ø 7,5 mm t &gt; 3,0 mm = hole Ø 8,0 mm</p> <p><b>Recommendations for use</b> Overdriving-proof in thin steel 2 x 0,9 to 2 x 1,2 mm</p> <p><b>Assembly instructions</b> The attachment must always be made from the appropriate direction (thin on to thick) The diameter of the punched or drilled hole must match the fastener</p>
	<p>■ Carbon steel</p> 	TDBL-T-	10,6x	30		 <p>t min. steel: 2 x 1,5 mm</p> <p>t &lt; 3,0 mm = hole Ø 10,0 mm t &gt; 3,0 mm = hole Ø 10,0 mm</p> <p><b>Recommendations for use</b> overdriving-proof in thin steel 1,0 + 2,0 mm or 1,5 + 1,5 mm</p> <p><b>Assembly instructions</b> the attachment must always be made from the appropriate direction (thin on to thick) the diameter of the punched or drilled hole must match the fastener</p>

## GA-AS / GA-BS



### Technical information

#### Applications

**GA-AS:** fastening into timber and thin steel < 3.0 mm

**GA-BS:** fastening into steel with a thickness > 1.5 mm

#### Material

##### Fastener

- GA-AS / GA-BS  
Stainless steel, grade AISI 304  
(European Standard 1.4301)

##### Washer

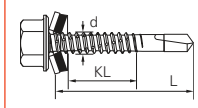

- **S** = Stainless steel, grade AISI 304  
(European Standard 1.4301)  
**A** = Aluminium  
with vulcanised EPDM

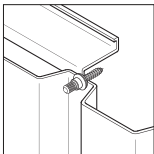
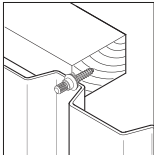
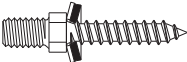
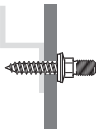
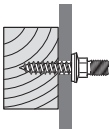
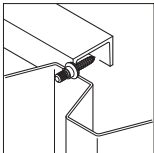
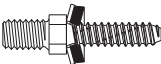
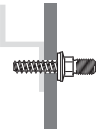
#### HD headform / drive

- Hexagon 3/8" ~ 9,5 mm AF
- Special socket required: E 395

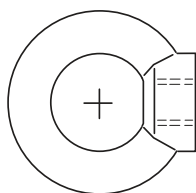


## Order information

	<p>Hexagon 8 mm A/F</p> 	<p><b>W: Washer material</b></p> <p><b>S</b> Stainless Steel <b>A</b> Aluminium</p> <p><b>* Select Washer</b></p> <p>Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights</p>
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

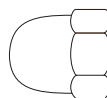
		Example order code															
		GA-AS-	S16-	6,5x	32												
Applications	Product	Type	W*	d	L	KL	Application range										
 	● Stainless steel 	GA-AS- GA-AS- GA-AS-	S16- S16- S16-	6,5x 6,5x 6,5x	32 45 76	 	<p>Hex drive: 3/8" ~ 9,5 mm AF Threaded part: M8 x 11 mm</p> <p>Recommended pilot hole diameter:</p> <table><tr><td>t in mm:</td><td>pilot hole in mm:</td></tr><tr><td>1,0– 1,25</td><td>4,50</td></tr><tr><td>1,5– 3,00</td><td>5,00</td></tr><tr><td>wood</td><td>4,80</td></tr></table>	t in mm:	pilot hole in mm:	1,0– 1,25	4,50	1,5– 3,00	5,00	wood	4,80		
t in mm:	pilot hole in mm:																
1,0– 1,25	4,50																
1,5– 3,00	5,00																
wood	4,80																
	● Stainless steel 	GA-BS- GA-BS- GA-BS-	S16- S16- S16-	6,3x 6,3x 6,3x	25 32 51		<p>Hex drive: 3/8" ~ 9,5 mm AF Threaded part: M8 x 11 mm</p> <p>Recommended pilot hole diameter:</p> <table><tr><td>t in mm:</td><td>pilot hole in mm:</td></tr><tr><td>1,5–4,0</td><td>5,30</td></tr><tr><td>4,1–6,0</td><td>5,50</td></tr><tr><td>6,0–10,0</td><td>5,70</td></tr><tr><td>&gt; 10,0</td><td>5,80</td></tr></table>	t in mm:	pilot hole in mm:	1,5–4,0	5,30	4,1–6,0	5,50	6,0–10,0	5,70	> 10,0	5,80
t in mm:	pilot hole in mm:																
1,5–4,0	5,30																
4,1–6,0	5,50																
6,0–10,0	5,70																
> 10,0	5,80																

## Eye nut / Acorn nut



## Eye nut M8

Carbon steel, 25 mm Ø  
Stainless steel, 25 mm Ø



## Acorn nut M8

Stainless steel

## Order information



**d** diameter | **L** overall length | **F** work length | **t** thickness of structure | **All measures in mm**

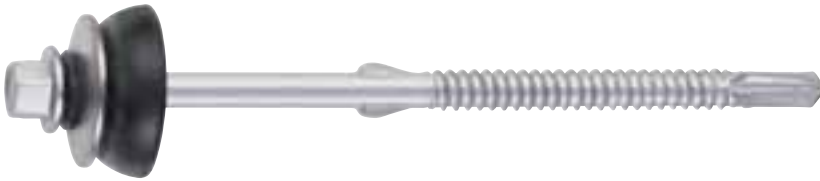
Example order code			KL	Application range
HSS-	4,1x	60/		
Type	d	L		
HSS-	4,8x	L		
HSS-	4,5x	L		
HSS-	5,0x	60		
HSS-	5,0x	95		
HSS-	5,0x	125		
HSS-	5,0x	175		
HSS-	5,0x	220		
HSS-	5,0x	250		
HSS-	5,3x	60		
HSS-	5,3x	95		
HSS-	5,3x	125		
HSS-	5,3x	175		
HSS-	5,3x	220		
HSS-	5,3x	250		
HSS-	5,3x	290		
HSS-	5,5x	60		
HSS-	5,5x	95		
HSS-	5,5x	125		
HSS-	5,5x	175		
HSS-	5,5x	220		
HSS-	5,5x	250		
HSS-	5,5x	290		
HSS-	5,7x	60		
HSS-	5,7x	95		
HSS-	5,7x	125		
HSS-	5,7x	175		
HSS-	5,7x	220		
HSS-	5,7x	250		
HSS-	5,7x	290		
HSS-	5,8x	60		
HSS-	5,8x	75		
HSS-	5,8x	100		
HSS-	5,8x	125		
HSS-	5,8x	150		
HSS-	5,8x	180		
HSS-	5,8x	200		
HSS-	5,8x	230		
HSS-	5,8x	260		

## 9

Applications	Product code	Page
Fibre cement sheet to steel or timber structure	SCF / SCFW SCFW-S	► 9.2
Steel, aluminium and timber substructure	TDA-S / TDB-S HG-S / HG-T LL-S	► 9.4
Predrilling steel and wood	HSS	► 9.7



## SCF / SCFW / SCFW-S



### Technical information

#### Applications

Direct fastening of fibre cement sheet to timber or steel. The approved fastener and setting tool for securing corrugated fibre cement sheets.

#### Material

##### Fastener

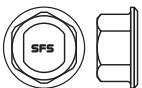
- SCF  
Case hardened carbon steel, Duro-coat coated
- SCFW  
Case hardened, carbon steel, hot dipped galvanised
- SCFW-S  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301)

##### Washer

- BAZ = EPDM sealing material with austenitic stainless steel metal washer

#### HD headform / drive

- Hexagon 8 mm A/F



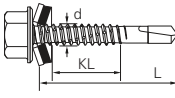

#### Accessories

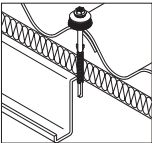
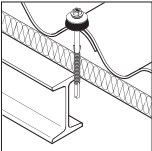
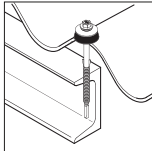
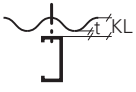
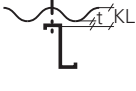

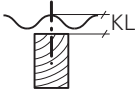
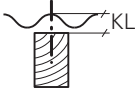
##### CF 40



- A purpose designed setting tool for installing fibre cement fasteners. The extension drive bar and nose piece eliminates over driving and subsequent cracking of the fibre cement sheet.

## Order information

	Hexagon 8 mm A/F 	
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>		

		Example order code							
		SCF	8- BAZ- 6,3x 115						
Applications	Product	Type	VD	W*	d	L	KL	Application range	
  	■ Carbon steel	SCF	8-	BAZ-	6,3x	115		   <b>Max. roof pitch:</b> Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch – 140–200 mm = 15° max. pitch	
	■ Carbon steel	SCFW-		BAZ-	6,5x	95		 <b>Max. roof pitch:</b> Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch – 140–200 mm = 15° max. pitch	
	● Stainless steel	SCFW-S-		BAZ-	6,5x	130		 <b>Max. roof pitch:</b> Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch – 140–200 mm = 15° max. pitch	

## TDA-S / TDB-S / HG-S / HG-T / LL-S



### Technical information

#### Applications

Fastening fibre cement sheet to steel or timber structure

**TDA-S:** Fastening into timber and steel < 3.0 mm

**TDB-S:** Fastening into steel 3.1 mm above

When corrosion resistance is required, we recommend the use of austenitic stainless steel fasteners.

#### Material

##### Fastener

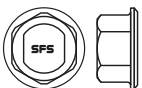
- TDA-S / TDB-S / HG-S / HG-T  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.
- LL-S  
Stainless steel, grade AISI 304 (European Standard 1.4301)

##### Washer

- BAZ = EPDM sealing material with austenitic stainless steel metal washer
- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)
- A** = Aluminium with vulcanised EPDM

#### HD headform / drive

- Hexagon 8 mm A/F



#### Accessories

##### DI 600



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

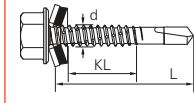

##### E480

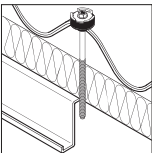
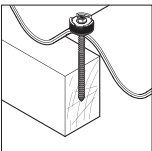
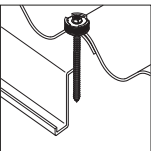
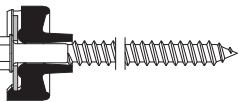

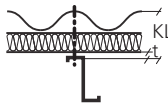

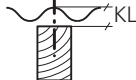
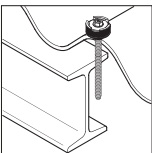
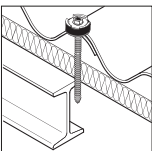

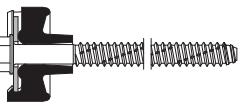


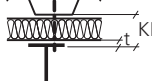




- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

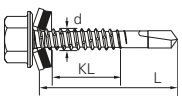



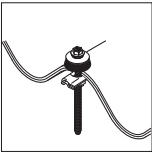
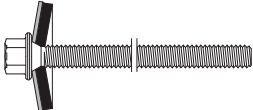
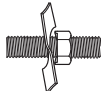
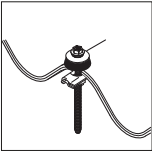
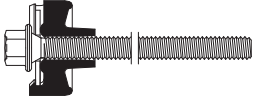
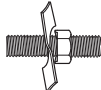
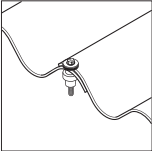
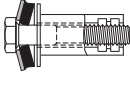
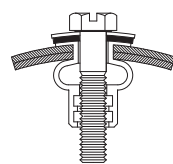
## Order information

	Hexagon 8 mm A/F 	
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>		

			Example order code				KL	Application range
Applications	Product	Approval	TDA-S-	BAZ-	6,5x	90		
  	<b>Stainless steel</b> 		TDA-S-	BAZ-	6,5x	90	<b>67</b>	   <p>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins or liner trays min.= 1,0 mm max. = 3,0 mm Please note: 11 mm clearance hole is recommended in fibre cement sheet</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,0– 1,25 4,50 1,5– 3,00 5,00 wood 4,80</p>
			TDA-S-	BAZ-	6,5x	100	<b>77</b>	
			TDA-S-	BAZ-	6,5x	115	<b>92</b>	
			TDA-S-	BAZ-	6,5x	127	<b>104</b>	
			TDA-S-	BAZ-	6,5x	152	<b>129</b>	
			TDA-S-	BAZ-	6,5x	178	<b>155</b>	
			TDA-S-	BAZ-	6,5x	215	<b>192</b>	
  	<b>Stainless steel</b> 		TDB-S-	BAZ-	6,3x	90	<b>60</b>	    <p>Determining overall fastener length L: thickness of all materials fastened KL+10 mm. Please note: 11 mm clearance hole is recommended in fibre cement sheet</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5–4,0 5,30 4,1–6,0 5,50 6,0–10,0 5,70 &gt; 10,0 5,80</p>
			TDB-S-	BAZ-	6,3x	100	<b>70</b>	
			TDB-S-	BAZ-	6,3x	115	<b>85</b>	
			TDB-S-	BAZ-	6,3x	127	<b>97</b>	
			TDB-S-	BAZ-	6,3x	152	<b>122</b>	
			TDB-S-	BAZ-	6,3x	178	<b>148</b>	
			TDB-S-	BAZ-	6,3x	215	<b>185</b>	

## Order information

	Hexagon 8 mm A/F 	
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>		

		Example order code <b>TDA-S- BAZ- 6,5x 90</b>				KL	Application range
Applications	Product	Approval	Type	W*	d	L	
	● Stainless steel 		HG-S- HG-T-	S29- S29-	6,0x 6,0x	80 80	 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	● Stainless steel 		HG-S- HG-T-	BAZ- BAZ-	6,0x 6,0x	80 80	 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	● Stainless steel 		LL-S-	S16-	9,5x	25	 The lap-lox is a purpose developed GRP/PVC grommet fastener. The EPDM grommet is designed to pull the materials together without overdriving and cracking of the sheet. The Sela lap-lox in poppy red is recommended for meeting manufacturers recommendations in respect of the CDM and building regulations. Pilot hole: Ø 9,5 mm

Order information



d diameter | L overall length | F work length | t thickness of structure | All measures in mm

Example order code				KL	Application range
Type	d	L			
HSS- 4,50x 60	4,50x	60			
HSS- 5,00x 60	5,00x	60			
HSS- 4,80x 60	4,80x	60			
HSS- 5,30x 60	5,30x	60			
HSS- 5,50x 60	5,50x	60			
HSS- 5,70x 60	5,70x	60			
HSS- 5,80x 60	5,80x	60			
HSS- 9,50x 75	9,50x	75			
HSS- 9,50x 125	9,50x	125			
HSS- 11,0x 150	11,0x	150			



10

Applications	Product code	Page
Aluminium sections to aluminium and steel framework	RV6604 RV6603 RV6605	► 10.2
Blind rivets, open	ATO / ASO TTO / SSO	► 10.4
Blind rivets, closed end	ATC / ASC SSC	► 10.6
Predrilling steel and wood	HSS	► 10.8

10

## RV6604 / RV6603 / RV6605



### Technical information

#### Applications

Side lap stitching steel and aluminium sheets together securely. The three load bearing legs ensure all materials are clamped together.

#### Speciality

The fastening is weather resistant due to the integral sealing washer. Additional colour caps are available in various colours to match the profiled sheet.

#### Material

##### Fastener

- RV6604 / RV6603 / RV6605

**Body:** Aluminium AlMg5

**Mandrel:** Al Cu Mg 1

##### Washer

- EPDM

#### Accessories

##### AccuBird®



- For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

##### PowerBird®



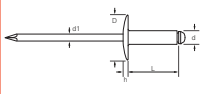
- For standard blind rivets and Bulb-tite® rivets diameter up to 7,7 mm

##### RV 28GA

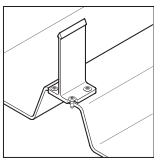
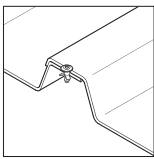
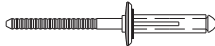

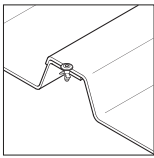
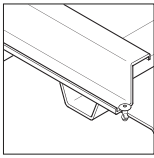

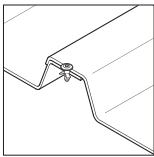
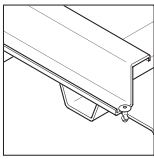



- For standard blind rivets and Bulb-tite® rivets diameter 6,3 - 7,7 mm

## Order information



**d** Rivet diameter in 1/32" | **KL** Max. Grip range in 1/16" | **t** thickness of structure | **All measures in mm**

		Example order code						Application range
		RV6604- 6- 3 W						
Applications	Product	Approval	Type	d	KL	W*	KL	
 	▲ Aluminium 	 DTU 40.35 DTU 40.36	RV6604- RV6604- RV6604- RV6604- RV6604- RV6604-	6- 6- 6- 6- 8- 6-	3 4 6 8 10 12	W W W W W W	<b>0,5 - 4,7</b> <b>1,5 - 6,3</b> <b>4,7 - 9,5</b> <b>8,0 - 12,7</b> <b>8,0 - 12,7</b> <b>14,3- 19,0</b>	Head diameter D: 11,5 mm  Pilot hole: Ø 5,3 mm
 	▲ Aluminium 		RV6603- RV6603-	9- 9-	6 10	W W	<b>1,2 - 9,5</b> <b>6,3 - 12,7</b>	Head diameter D: 15,7 mm  Pilot hole: Ø 7,9 mm
 	▲ Aluminium 		RV6605- RV6605-	9- 9-	6 10	W W	<b>1,2 - 9,5</b> <b>6,3 - 12,7</b>	Head diameter D: 19,4 mm  Pilot hole: Ø 7,9 mm

## ATO / ASO / TTO / SSO

### Technical information

#### Applications

Joining metal to metal in side laps and flashing applications.

#### Material

##### Fastener

■ ATO / ASO / TTO / SSO

##### Mandrel:

A = Aluminium

S = Stainless steel

T = Carbon steel

##### Rivet:

A = Aluminium

S = Stainless steel

T = Carbon steel

##### Code System

■ A T O - D - 48080

1 2 3 4 5 6

1 = aluminium body

2 = carbon steel mandrel

3 = open type

4 = dome head

5 = Ø of body 4,8 mm

6 = length 8,0 mm

#### Accessories

##### AccuBird®



■ For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

##### RM-20



■ Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

##### RM-25

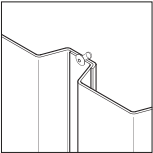
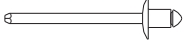
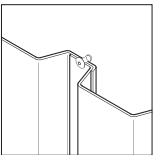
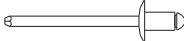
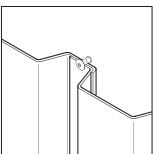

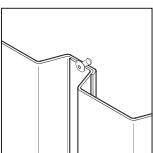
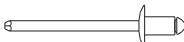


■ Including 4 rivet nozzles  
For rivet diameter: 3-5 mm



## Order information

HD headform / drive | t thickness of structure | All measures in mm

Applications	Product	Example order code			Grip range	Rivet Dimension	Application range
		Type	HD	Code			
	▲ Aluminium 	ATO-	D-	48060	1,0 - 3,0	4,8 x 6,0	Pilot hole: Ø 4,9 mm
		ATO-	D-	48080	2,5 - 5,0	4,8 x 8,0	
		ATO-	D-	48100	4,5 - 6,5	4,8 x 10,0	
		ATO-	D-	48120	6,0 - 8,0	4,8 x 12,0	
	▲ Aluminium 	ASO-	D-	48080	2,5 - 5,0	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		ASO-	D-	48100	4,5 - 6,5	4,8 x 10,0	
		ASO-	D-	48120	6,0 - 8,0	4,8 x 12,0	
		ASO-	D-	48140	7,5 - 10,0	4,8 x 14,0	
	■ Carbon steel 	TTO-	D-	48080	3,0 - 4,5	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		TTO-	D-	48090	4,0 - 5,5	4,8 x 9,0	
		TTO-	D-	48100	5,0 - 6,5	4,8 x 10,0	
		TTO-	D-	48120	6,0 - 8,0	4,8 x 12,0	
		TTO-	D-	48140	8,0 - 10,0	4,8 x 14,0	
	● Stainless steel 	SSO-	D-	48080	1,5 - 4,0	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		SSO-	D-	48120	6,0 - 8,0	4,8 x 12,0	

## ATC / ASC / SSC

### Technical information

#### Applications

Joining metal to metal in side laps and flashing applications.

#### Material

##### Fastener

- ATC / ASC / SSC

##### Mandrel:

A = Aluminium  
S = Stainless steel  
T = Carbon steel

##### Rivet:

A = Aluminium  
S = Stainless steel  
T = Carbon steel

##### Code System

- A T O - D - 48080

1 2 3 4 5 6

1 = aluminium body  
2 = carbon steel mandrel  
3 = closed type  
4 = dome head  
5 = Ø of body 4,8 mm  
6 = length 8,0 mm

#### Accessories

##### AccuBird®



- For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

##### RM-20



- Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

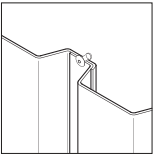
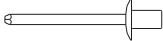
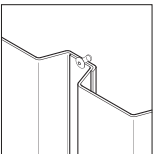
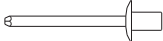
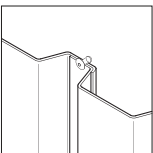
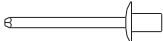
##### RM-25




- Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

## Order information

HD headform / drive | t thickness of structure | All measures in mm

Applications	Product	Example order code			Grip range	Rivet Dimension	Application range
		ATC-	D-	Code			
	▲ Aluminium 	ATC-	D-	48080	0,5 - 3,5	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		ATC-	D-	48095	3,0 - 5,0	4,8 x 9,5	
		ATC-	D-	48110	4,5 - 6,5	4,8 x 11,0	
		ATC-	D-	48125	6,0 - 8,0	4,8 x 12,5	
		ATC-	D-	48140	7,5 - 9,5	4,8 x 14,0	
	▲ Aluminium 	ASC-	D-	48080	1,0 - 3,5	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		ASC-	D-	48095	3,0 - 5,0	4,8 x 9,5	
		ASC-	D-	48110	4,5 - 6,5	4,8 x 11,0	
		ASC-	D-	48125	6,0 - 8,0	4,8 x 12,5	
		ASC-	D-	48140	7,5 - 9,5	4,8 x 14,0	
	● Stainless steel 	ASC-	D-	48160	9,0 - 11,0	4,8 x 16,0	
		SSC-	D-	48080	0,5 - 3,0	4,8 x 8,0	Pilot hole: Ø 4,9 mm
		SSC-	D-	48100	2,5 - 5,0	4,8 x 10,0	
		SSC-	D-	48120	4,5 - 6,5	4,8 x 12,0	

Order information



d diameter | L overall length | F work length | t thickness of structure | All measures in mm

Example order code			KL	Application range
HSS-	5,30x	L		
Type	d	L		
HSS-	4,90x	60		I C
HSS-	5,30x	60		
HSS-	7,90x	117		

Applications	Product code	Page
Concrete and brickwork	TI / DT	► 11.2
Drill bits	SDS	► 11.4
Hollow brick, masonry	MB / MBK	► 11.6
Concrete, solid brick	MBR / MBRK	► 11.9
Concrete, high performance	MBR-X MBRK-X	► 11.12
Aluminium framework	SLA / SX SDA	► 11.14
Non metallic high performance cladding panel to timber batten	TW-S / TW-A4	► 11.17
Non metallic high performance cladding panel to timber batten	SCFW-S	► 11.19
Non metallic high performance cladding to steel framework	SDF2-S	► 11.21
Steel substructure	SX	► 11.23
High performance cladding to aluminium and steel framework	AP / ASO	► 11.25
Aluminium composite panels	SLA	► 11.27
Special aesthetical fastening	GA-AS GA-BS	► 11.29
Blind fastening of HPL-cladding panels	TU-S	► 11.31

## TI / SPIKE® twister DT



### Technical information

#### Applications

Fastening steel, aluminium and timber battens to concrete and brickwork.

#### Material

##### Fastener

- TI  
Carbon Steel with permaseal coating
- SPIKE® twister DT  
Heat treated carbon steel with durocoat

#### HD headform / drive

- Hexagon 8 mm A/F



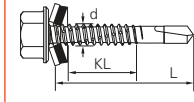

#### Accessories

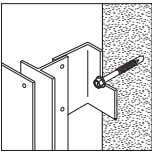
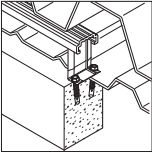
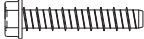

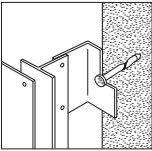
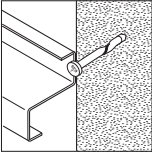
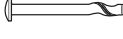

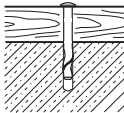
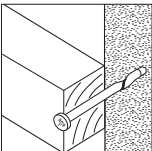
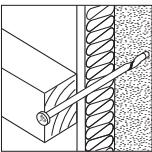
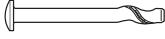

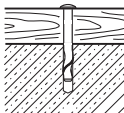
##### DB 620



- Pneumatic hammer drilling machine for pre-drilling concrete and masonry

## Order information

	Hexagon 8 mm A/F 	
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>		

			Example order code			KL	Application range
Applications	Product	Approval	TI-T-	d	L		
 	<b>■ Carbon steel</b> 		TI-	6,3x	32	<b>7</b>	 Min. embedment 25 mm Drill 10 mm deeper than embedment
			TI-	6,3x	45	<b>20</b>	
			TI-	6,3x	55	<b>30</b>	
			TI-	6,3x	65	<b>40</b>	
			TI-	6,3x	75	<b>50</b>	
			TI-	6,3x	85	<b>60</b>	
			TI-	6,3x	95	<b>80</b>	
			TI-	6,3x	115	<b>90</b>	
 	<b>■ Carbon steel</b> 		DT-	4,8x	28	<b>3</b>	 Depth of pilot hole to be 10 mm more than length of SPIKE® twister.
			DT-	4,8x	32	<b>7</b>	
			DT-	4,8x	38	<b>13</b>	
			DT-	4,8x	51	<b>26</b>	
			DT-	4,8x	64	<b>39</b>	
			DT-	4,8x	76	<b>51</b>	
			DT-	4,8x	89	<b>64</b>	
			DT-	4,8x	102	<b>77</b>	
			DT-	4,8x	115	<b>90</b>	
			DT-	4,8x	127	<b>102</b>	
			DT-	4,8x	140	<b>115</b>	
			DT-	4,8x	152	<b>127</b>	
 	<b>■ Carbon steel</b> 		DT-	6,3x	38	<b>6</b>	 Depth of pilot hole to be 10 mm more than length of SPIKE® twister.
			DT-	6,3x	51	<b>19</b>	
			DT-	6,3x	102	<b>70</b>	
			DT-	6,3x	127	<b>95</b>	
			DT-	6,3x	140	<b>108</b>	
			DT-	6,3x	152	<b>120</b>	
			DT-	6,3x	165	<b>133</b>	
			DT-	6,3x	178	<b>146</b>	
			DT-	6,3x	191	<b>159</b>	
			DT-	6,3x	203	<b>171</b>	
			DT-	6,3x	216	<b>184</b>	
			DT-	6,3x	229	<b>197</b>	
			DT-	6,3x	241	<b>209</b>	
			DT-	6,3x	254	<b>222</b>	

## Order information



**4Plus:** Carbide-geometry  
Dynamic, chisel-shaped drill bit head  
Multi-fluted, spacious KVS-spiral  
Unique KVS-flute design

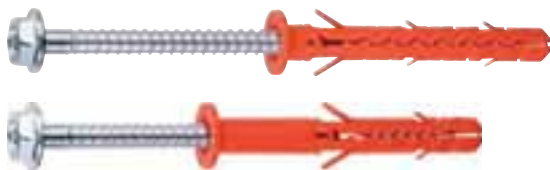
**d** diameter | **L** overall length | **F** work length | **t** thickness of structure | **All measures in mm**

Example order code					KL	Application range
SDS-	4,8x	110/	50-	4PLUS		
Type	d	L	F	CODE		
SDS-	4,8x	110/	50-	4PLUS	<b>50</b>	4,8 mm for SPIKE® twister and TI
SDS-	5,0x	110/	50-	4PLUS	<b>50</b>	5, 6, 7, 8, 10 and 12 mm for diverse applications
SDS-	5,0x	160/	100-	4PLUS	<b>100</b>	
SDS-	5,0x	210/	150-	4PLUS	<b>150</b>	
SDS-	5,2x	160/	100-	4PLUS	<b>100</b>	5,2 mm for TI-screw on hard concrete
SDS-	5,2x	210/	150-	4PLUS	<b>150</b>	
SDS-	5,2x	260/	200-	4PLUS	<b>200</b>	
SDS-	5,2x	310/	310-	4PLUS	<b>250</b>	
SDS-	5,2x	360/	300-	4PLUS	<b>300</b>	
SDS-	6,0x	160/	100-	4PLUS	<b>100</b>	5, 6, 7, 8, 10 and 12 mm for diverse applications
SDS-	6,3x	110/	50-	4PLUS	<b>50</b>	6,3 mm for SPIKE® twister and IE
SDS-	6,3x	210/	150-	4PLUS	<b>150</b>	
SDS-	6,3x	285/	225-	4PLUS	<b>225</b>	
SDS-	6,5x	210/	150-	4PLUS	<b>150</b>	6,3 mm for SPIKE® twister and IE
SDS-	6,5x	260/	200-	4PLUS	<b>200</b>	
SDS-	6,5x	310/	250-	4PLUS	<b>250</b>	
SDS-	8,0x	160/	100-	4PLUS	<b>100</b>	5, 6, 7, 8, 10 and 12 mm for diverse applications
SDS-	8,0x	210/	150-	4PLUS	<b>150</b>	



Example order code						KL	Application range
SDS-	4,8x	110/	50-	4PLUS			
Type	d	L	F	CODE			
SDS-	10,0x	160/	100-	4PLUS	<b>100</b>	5, 6, 7, 8, 10 and 12 mm for diverse applications	
SDS-	10,0x	210/	150-	4PLUS	<b>150</b>		
SDS-	10,0x	260/	200-	4PLUS	<b>200</b>		
SDS-	10,0x	250/	250-	4PLUS	<b>250</b>		

## MB / MBK



### Technical information

#### Applications

Anchoring facade structure of metal or timber:

- vertically perforated brick
- chalky sandstone
- chalky perforated sandstone
- full brick of light concrete
- foam mortar

#### Material

##### Fastener

- MB / MBK

##### Anchor sleeve:

High value Polyamide

##### Screw:

**S** = Stainless steel, grade AISI 316  
(European Standard 1.4401)

**T** = Steel 5.8, electrogalvanize

##### Drive:

T40 = Countersunk Torx T40

HX = Hexagonal 13 mm

#### HD headform / drive

- Countersunk T40



- Hexagon 13 mm A/F



- Hexagon H18 13 mm A/F



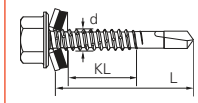
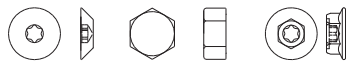
#### Accessories

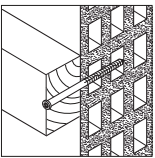
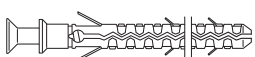

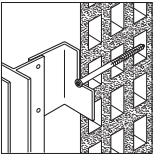
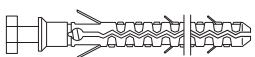

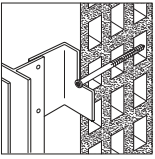
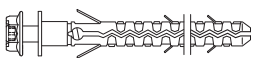

##### DB 620



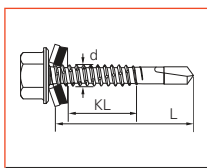
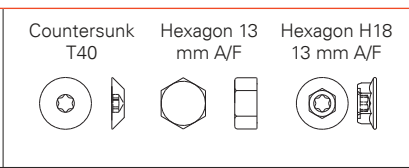
- Pneumatic hammer drilling machine for pre-drilling concrete and masonry

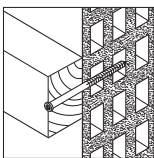
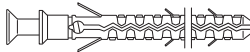

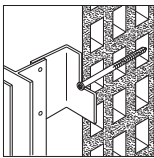
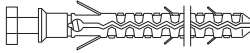

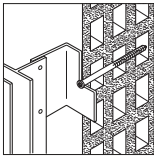
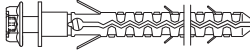

## Order information

	<p>Countersunk T40    Hexagon 13 mm A/F    Hexagon H18 13 mm A/F</p> 	
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

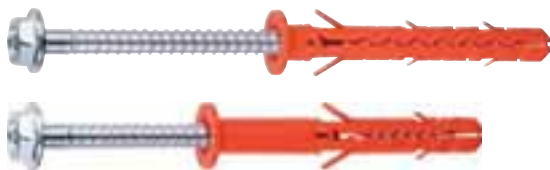
			Example order code				KL	Application range
Applications	Product	Approval	MB-S4-	T40-	10,0x	80		
	<p>● Stainless steel</p> 		MB-S4-	T40-	10,0x	80	<b>10</b>	<p>Anchoring depth min. 70 mm</p> <p><b>Area of application</b></p> <ul style="list-style-type: none"> <li>- Vertically perforated brick</li> <li>- Chalky perforated sandstone</li> <li>- Hollow concrete</li> <li>- Full brick of light concrete</li> </ul>
			MB-S4-	T40-	10,0x	100	<b>30</b>	
			MB-S4-	T40-	10,0x	120	<b>50</b>	
			MB-S4-	T40-	10,0x	140	<b>70</b>	
			MB-S4-	T40-	10,0x	160	<b>90</b>	
			MB-S4-	T40-	10,0x	200	<b>130</b>	
			MB-S4-	T40-	10,0x	240	<b>170</b>	
			MB-S4-	T40-	10,0x	280	<b>210</b>	
			MB-S4-	T40-	10,0x	300	<b>230</b>	
	<p>● Stainless steel</p> 		MB-S4-	HX-	10,0x	80	<b>10</b>	<p>Anchoring depth min. 70 mm</p> <p><b>Area of application</b></p> <ul style="list-style-type: none"> <li>- Vertically perforated brick</li> <li>- Chalky perforated sandstone</li> <li>- Hollow concrete</li> <li>- Full brick of light concrete</li> </ul>
			MB-S4-	HX-	10,0x	100	<b>30</b>	
			MB-S4-	HX-	10,0x	120	<b>50</b>	
			MB-S4-	HX-	10,0x	140	<b>70</b>	
			MB-S4-	HX-	10,0x	160	<b>90</b>	
			MB-S4-	HX-	10,0x	200	<b>130</b>	
			MB-S4-	HX-	10,0x	240	<b>170</b>	
	<p>● Stainless steel</p> 		MBK-S4-	H18-	10,0x	80	<b>10</b>	<p>Anchoring depth min. 70 mm</p> <p><b>Area of application</b></p> <ul style="list-style-type: none"> <li>- Vertically perforated brick</li> <li>- Chalky perforated sandstone</li> <li>- Hollow concrete</li> <li>- Full brick of light concrete</li> </ul>
			MBK-S4-	H18-	10,0x	100	<b>30</b>	

## Order information

	<p>Countersunk T40    Hexagon 13 mm A/F    Hexagon H18 13 mm A/F</p> 	
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

		Example order code						
		MB-S4- T40- 10,0x 80						
Applications	Product	Approval	Type	HD	d	L	KL	Application range
	■ Carbon steel 		MB-	T40-	10,0x	80	<b>10</b>	Anchoring depth min. 70 mm  <b>Area of application</b> - Vertically perforated brick - Chalky perforated sandstone - Hollow concrete - Full brick of light concrete
			MB-	T40-	10,0x	100	<b>30</b>	
			MB-	T40-	10,0x	120	<b>50</b>	
			MB-	T40-	10,0x	140	<b>70</b>	
			MB-	T40-	10,0x	160	<b>90</b>	
			MB-	T40-	10,0x	200	<b>130</b>	
			MB-	T40-	10,0x	240	<b>170</b>	
			MB-	T40-	10,0x	280	<b>210</b>	
			MB-	T40-	10,0x	300	<b>230</b>	
	■ Carbon steel 		MB-	HX-	10,0x	80	<b>10</b>	Anchoring depth min. 70 mm  <b>Area of application</b> - Vertically perforated brick - Chalky perforated sandstone - Hollow concrete - Full brick of light concrete
			MB-	HX-	10,0x	100	<b>30</b>	
			MB-	HX-	10,0x	120	<b>50</b>	
			MB-	HX-	10,0x	140	<b>70</b>	
			MB-	HX-	10,0x	160	<b>90</b>	
			MB-	HX-	10,0x	200	<b>130</b>	
			MB-	HX-	10,0x	240	<b>170</b>	
			MB-	HX-	10,0x	280	<b>210</b>	
			MB-	HX-	10,0x	300	<b>230</b>	
	■ Carbon steel 		MBK-	H18-	10,0x	80	<b>10</b>	Anchoring depth min. 70 mm  <b>Area of application</b> - Vertically perforated brick - Chalky perforated sandstone - Hollow concrete - Full brick of light concrete
			MBK-	H18-	10,0x	100	<b>30</b>	
			MBK-	H18-	10,0x	120	<b>50</b>	

## MBR / MBRK



## Technical information

## Applications

Anchoring facade structure of metal or timber:

- concrete
- solid brick
- hollow concrete

## Material

## Fastener

- MBR / MBRK

**Anchor sleeve:**

High value Polyamide

**Screw:**

**S** = Stainless steel, grade AISI 316

(European Standard 1.4401)

**T** = Steel 5.8, electrogalvanize

**Drive:**

T40 = Countersunk Torx T40

HX = Hexagonal 13 mm

## HD headform / drive

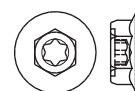
- Countersunk T40



- Hexagon 13 mm A/F



- Hexagon H18 13 mm A/F



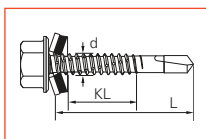
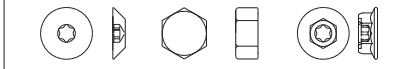
## Accessories

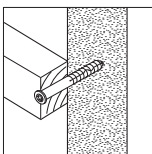
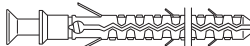

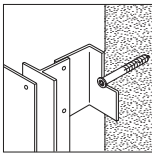
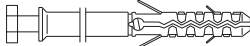

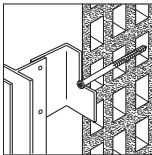
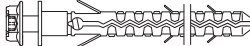

## DB 620

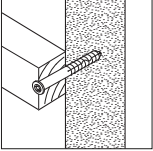
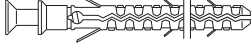

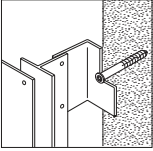
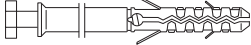

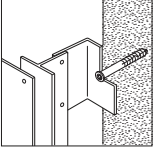
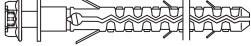



- Pneumatic hammer drilling machine for pre-drilling concrete and masonry

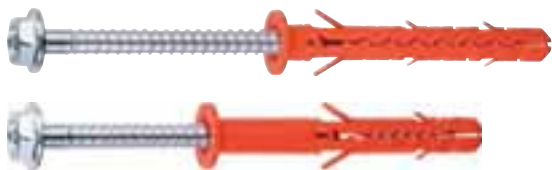
## Order information

	<p>Countersunk T40    Hexagon 13 mm A/F    Hexagon H18 13 mm A/F</p> 	
<p><b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b></p>		

		Example order code						
		MBR-S4- T40- 10,0x 60						
Applications	Product	Approval	Type	HD	d	L	KL	Application range
	● Stainless steel 		MBR-S4-	T40-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-S4-	T40-	10,0x	100	<b>50</b>	
			MBR-S4-	T40-	10,0x	120	<b>70</b>	
			MBR-S4-	T40-	10,0x	140	<b>90</b>	
	● Stainless steel 		MBR-S4-	HX-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-S4-	HX-	10,0x	80	<b>30</b>	
			MBR-S4-	HX-	10,0x	100	<b>50</b>	
			MBR-S4-	HX-	10,0x	120	<b>70</b>	
			MBR-S4-	HX-	10,0x	140	<b>90</b>	
			MBR-S4-	HX-	10,0x	160	<b>110</b>	
			MBR-S4-	HX-	10,0x	200	<b>150</b>	
			MBR-S4-	HX-	10,0x	240	<b>190</b>	
	● Stainless steel 		MBRK-S4-	H18-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete

Applications	Product	Approval	Example order code				KL	Application range
			MBR-S4-	T40-	10,0x	60		
	<b>■ Carbon steel</b> 		MBR-	T40-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-	T40-	10,0x	80	<b>30</b>	
			MBR-	T40-	10,0x	100	<b>50</b>	
			MBR-	T40-	10,0x	120	<b>70</b>	
			MBR-	T40-	10,0x	140	<b>90</b>	
			MBR-	T40-	10,0x	160	<b>110</b>	
			MBR-	T40-	10,0x	180	<b>130</b>	
			MBR-	T40-	10,0x	200	<b>150</b>	
			MBR-	T40-	10,0x	240	<b>190</b>	
	<b>■ Carbon steel</b> 		MBR-	HX-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-	HX-	10,0x	80	<b>30</b>	
			MBR-	HX-	10,0x	100	<b>50</b>	
			MBR-	HX-	10,0x	120	<b>70</b>	
			MBR-	HX-	10,0x	140	<b>90</b>	
			MBR-	HX-	10,0x	160	<b>110</b>	
			MBR-	HX-	10,0x	200	<b>150</b>	
			MBR-	HX-	10,0x	240	<b>190</b>	
	<b>■ Carbon steel</b> 		MBRK-	H18-	10,0x	60	<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBRK-	H18-	10,0x	80	<b>30</b>	
			MBRK-	H18-	10,0x	100	<b>50</b>	

## MBR-X / MBRK-X



### Technical information

#### Applications

Anchoring facade structure of metal or timber:

- concrete
- solid brick
- hollow concrete

#### Material

##### Fastener

- MBR-X / MBRK-X

##### Anchor sleeve:

High value Polyamide

##### Screw:

**S** = Stainless steel, grade AISI 316  
(European Standard 1.4401)

**T** = Steel 5.8, electrogalvanize

##### Drive:

T40 = Countersunk Torx T40

HX = Hexagonal 13 mm

#### HD headform / drive

- Countersunk T40



- Hexagon H18 13 mm A/F



#### Accessories

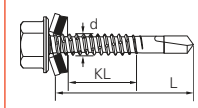

##### DB 620

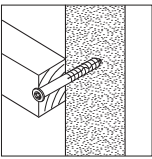
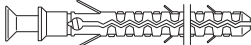

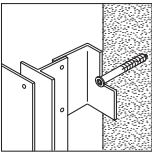
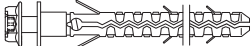

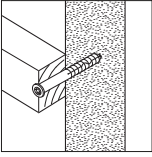
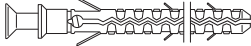

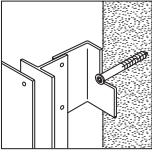
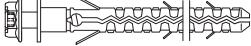



- Pneumatic hammer drilling machine for pre-drilling concrete and masonry

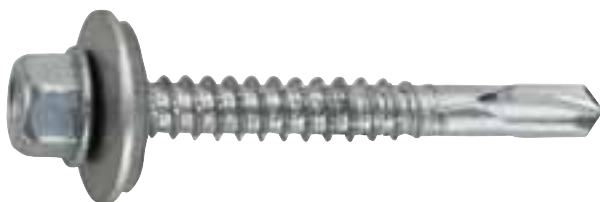


## Order information

	Countersunk T40    Hexagon H18 13 mm A/F 	
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>		

			Example order code					
			MBR-X-S4	T40- 10,0x	60		KL	Application range
Applications	Product	Approval	Type	HD	d	L		
	<b>● Stainless steel</b> 		MBR-X-S4	T40- 10,0x	60		<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-X-S4	T40- 10,0x	80		<b>30</b>	
			MBR-X-S4	T40- 10,0x	100		<b>50</b>	
			MBR-X-S4	T40- 10,0x	120		<b>70</b>	
			MBR-X-S4	T40- 10,0x	140		<b>90</b>	
			MBR-X-S4	T40- 10,0x	160		<b>110</b>	
			MBR-X-S4	T40- 10,0x	200		<b>150</b>	
			MBR-X-S4	T40- 10,0x	240		<b>190</b>	
	<b>● Stainless steel</b> 		MBRK-X-S4	H18- 10,0x	60		<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBRK-X-S4	H18- 10,0x	80		<b>30</b>	
	<b>■ Carbon steel</b> 		MBR-X-	T40- 10,0x	60		<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBR-X-	T40- 10,0x	80		<b>30</b>	
			MBR-X-	T40- 10,0x	100		<b>50</b>	
			MBR-X-	T40- 10,0x	120		<b>70</b>	
			MBR-X-	T40- 10,0x	140		<b>90</b>	
			MBR-X-	T40- 10,0x	160		<b>110</b>	
			MBR-X-	T40- 10,0x	200		<b>150</b>	
			MBR-X-	T40- 10,0x	240		<b>190</b>	
	<b>■ Carbon steel</b> 		MBRK-X	H18- 10,0x	60		<b>10</b>	Anchoring depth min. 50 mm  <b>Area of application</b> - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete
			MBRK-X-	H18- 10,0x	80		<b>30</b>	

## SLA / SX / SDA



### Technical information

#### Applications

Fastening aluminium framework together and steel framework together within over cladding and curtain wall applications.

#### Material

##### Fastener

- SLA / SDA  
Austenitic stainless steel, grade AISI 316 (European Standard 1.4578)
- SX  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request

##### Washer

- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)
- **A** = Aluminium with vulcanised EPDM

##### Drill point

- Case hardened, special carbon steel
- milled drill point

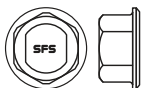
##### Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

#### HD headform / drive

- Hexagon 8 mm A/F



- Low profile Ø 12 mm



#### Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

#### Accessories

##### CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

##### DI 600



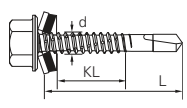

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

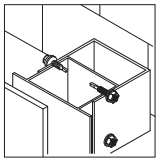

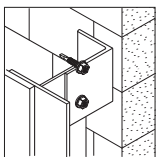

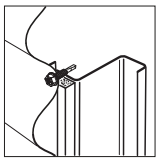

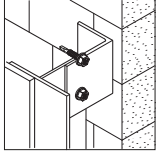
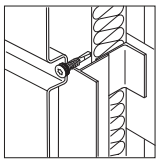

##### E480



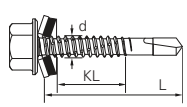

- The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

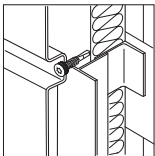
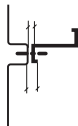
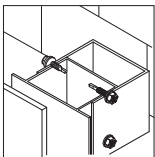

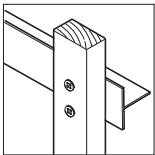
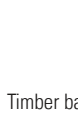
## Order information

	Hexagon 8 mm A/F	Low profile Ø 12 mm		Coloured fastener	<b>W: Washer material</b> S Stainless Steel A Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm						

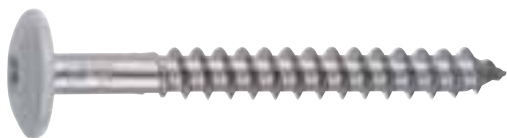
			Example order code										
			SLA	5/	6-	S4-		6,0x	19				
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL		Application range	
	● Stainless steel		SLA	5/4-	6-	S4-		6,0x	19	4	-	6	VD max. alu
			SLA	5/6-	8-	S4-		6,0x	21				6
													t min. alu:
													1,8 mm
													Only for aluminium framework
	● Stainless steel	 DTU 40.35 DTU 40.36	SX	3/	9-		S16-	6,0x	29	9			VD max. steel
													t min. steel:
													2 x 0,6 mm
													0,9 mm
													t min. alu:
													1,0 mm
	● Stainless steel	 DTU 40.35 DTU 40.36	SX	5/	8-		S16-	5,5x	33	8			VD max. steel
			SX	5/	12-		S16-	5,5x	37				12
													t min. steel:
													1,5 mm
													t min. alu:
													2,0 mm
													
	● Stainless steel		SX	3/	10-	D12-		5,5x	28	10			VD max. steel
													VD max. alu
													3,0 mm
													t min. steel:
													2 x 0,6 mm
													1,5 mm
													t min. alu:
													2,0 mm
													TORX® T25W

## Order information

	Hexagon 8 mm A/F	Low profile Ø 12 mm		Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium	<b>* Select Washer</b> <b>Ø 12-16 mm</b> for cladding <b>Ø 19 mm</b> for roofing <b>Ø 29 mm</b> for rooflights
<b>VD</b> max. penetration   <b>KL</b> clamping length   <b>HD</b> headform / drive   <b>W</b> washer material and diameter   <b>d</b> thread diameter   <b>L</b> overall length   <b>t</b> thickness of structure   <b>All measures in mm</b>						

		Example order code											
		SLA	5/	6-	S4-	6,0x		19				KL	Application range
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L				
	● Stainless steel		SX	6/	6-	D12-	A12-	5,5x	26				 VD max. steel 6,0 mm VD max. alu 6,0 mm t min. steel: 2,0 mm t min. alu: 3,0 mm TORX® T25W
			SX	6/	12-	D12-	A12-	5,5x	32				
	● Stainless steel		SDA	3-		S4-	A14-	4,8x	19				 VD max. alu: 3,0 mm t min. alu: 2,0 mm Only for aluminium framework
	● Stainless steel		SDA	3/	25-40-	S10-	SR2-	4,8x	48				 VD max. alu 3,0 mm Timber batten to aluminium

## TW-S / TW-A4



## Technical information

## Applications

High performance non metallic cladding panels to timber battens.

## Material

## Fastener

- TW-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301) with powder coated colour  
finish.
- TW-A4  
Austenitic stainless steel, grade  
AISI 316 (European Standard  
1.4578)

## Washer

- **A** = Aluminium with vulcanised  
EPDM

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Low profile Ø 12 mm



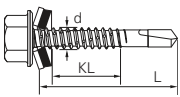


## Accessories

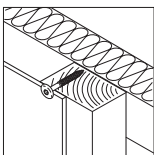
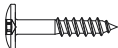
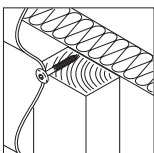

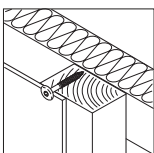

## DI 600



- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

## Order information

	Low profile Ø 12 mm 	 Coloured fastener	
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>			

		Example order code						
		TW-S-	D12-	4,8x	25			
Applications	Product	Type	HD	W*	d	L	KL	Application range
	● Stainless steel 	TW-S-	D12-		4,8x	25		TORX® T20W
		TW-S-	D12-		4,8x	30		
		TW-S-	D12-		4,8x	38		
		TW-S-	D12-		4,8x	44		
		TW-S-	D12-		4,8x	60		
	● Stainless steel 	TW-S-	D12-	A10-	4,8x	38		TORX® T20W
	● Stainless steel 	TW-A4-	D12-		4,8x	38		TORX® T20W

## SCFW-S



## Technical information

## Applications

Self drilling fastener for non metallic high performance cladding panel to steel framework.

## Material

## Fastener

- SCFW-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301)

## Washer

- **A** = Aluminium with vulcanised  
EPDM

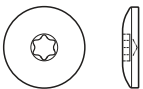
## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Low profile Ø 10 mm



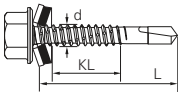


## Accessories

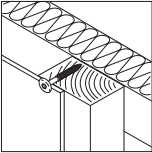
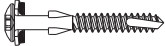
## DI 600



- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

Order information

	Low profile Ø 10 mm 	 Coloured fastener	
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm			

		Example order code							
		SCFW-S- D10K- A12- 5,0x 40							
Applications	Product	Type	HD	W*	d	L	KL	Application range	
	● Stainless steel 	SCFW-S-	D10K-	A12-	5,0x	40	8	TORX® T20W  Wings diameter: 6,2 mm	



## SDF2-S



## Technical information

## Applications

Self drilling fastener for non metallic high performance cladding panel to steel framework.

## Material

## Fastener

- SDF2-S  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301) with powder coated colour  
finish.

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Low profile Ø 10 mm



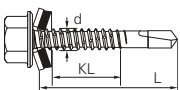


## Accessories

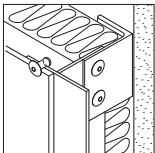
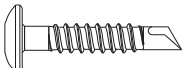
## DI 600



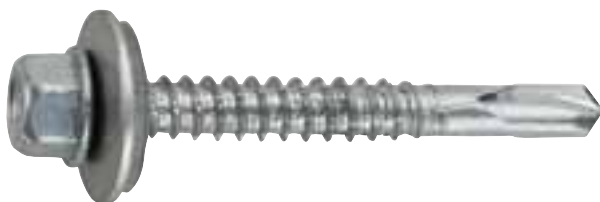
- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

## Order information

	Low profile Ø 10 mm 	 Coloured fastener	
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>			

		Example order code <b>SDF2-S- D10- 4,5x 24</b>				KL	Application range
Applications	Product	Type	HD	d	L		
	<p>● <b>Stainless steel</b></p> 	SDF2-S-	D10-	4,5x	24	<b>6 - 14</b>	<p>VD max. steel 1,2 mm</p> <p>t min. steel: 0,7 mm</p> <p>Excentric drill point enables the fibre cement panel to be penetrated at any point - no lifting of the fibre cement panel Thread forming after penetration of the subframe Secure, durable attachment of fibre cement panels</p> <p>TORX® T20W</p>

## SX



## Technical information

## Applications

The SX-L12 self drilling fastener has been specifically developed for architectural profiled sheets on the cladding. The low profile L12 has a flat head to enable the fastener head to blend into the cladding colour.

## Material

## Fastener

- SX  
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301), or grade AISI 316 (European Standard 1.4401) on request.

## Washer

- A = Aluminium with vulcanised EPDM

## Drill point

- Case hardened, special carbon steel

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved through powder coating

## HD headform / drive

- **irus®** Ø 12 mm



- Hexagon 8 mm A/F



## Washer recommendation



Ø 12-16 mm for cladding



Ø 19 mm for roofing



Ø 29 mm for rooflights

## Accessories

## CF 400



- Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

## DI 600



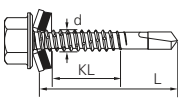

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

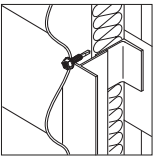


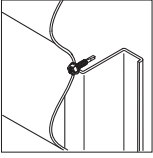


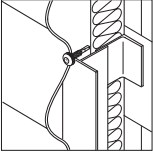


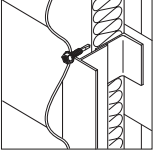


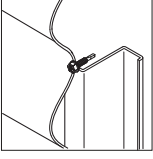


## E420 / E480



- The E420 setting tool is required for installing self drilling fasteners with the **irus®** system. The E480 setting tool is recommended for installing self drilling fasteners with the hexagon head.

## Order information

	<b>irus®</b> Ø 12 mm	Hexagon 8 mm A/F	 Coloured fastener	<b>W: Washer material</b> <b>S</b> Stainless Steel <b>A</b> Aluminium	<b>* Select Washer</b> Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   All measures in mm					

		Example order code											
		SX		3/	10-	L12-	HD	W*	d	L	KL		
Applications	Product	Approval	Type	VD	KL	HD	W*	d	L	KL	Application range		
	● Stainless steel		SX	3/	10-	L12-		5,5x	28	10		VD max. steel 3,0 mm 2,0 mm t min. steel: 2 x0,6 mm 0,9 mm t min. alu: 2,0 mm	
	● Stainless steel	 DTU 40.35 DTU 40.36	SX SX	5/ 5/	8- 12-	L12- L12-	A12- A12-	5,5x 5,5x	33 37	8 12		VD max. steel 5,0 mm t min. steel: 1,5 mm t min. alu: 2,0 mm	
	● Stainless steel	 DTU 40.35 DTU 40.36	SX	14/	12-	L12-	A12-	5,5x	40	12		VD max. steel 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm	
	● Stainless steel	 DTU 40.35 DTU 40.36	SX	3/	9-		A12-	6,0x	29	9		VD max. steel 3,0 mm t min. steel: 2 x0,6 mm 0,9 mm t min. alu: 1,0 mm	
	● Stainless steel	 DTU 40.35 DTU 40.36	SX SX	5/ 5/	8- 12-		A12- A12-	5,5x 5,5x	33 37	8 12		VD max. steel 5,0 mm t min. steel: 1,5 mm t min. alu: 2,0 mm	

## AP / ASO



## Technical information

## Applications

Face fixing of high performance cladding panel to aluminium framework.

## Material

## Fastener

- AP  
**Body:** Aluminium AlMg5  
**Mandrel:** Stainless steel 1.4541
- ASO  
**Body:** Aluminium AlMg3  
**Mandrel:** Stainless steel 1.4541

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## Accessories

## AccuBird®



- For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

## RM-20



- Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

## RM-25



- Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

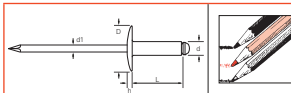


- Special nosepiece for AP and ASO rivets.  
Fits to AccuBird® and PowerBird®.



- Handle for centered drill bit  
Ø 5,1 mm

## Order information



Coloured fastener

HD headform / drive | t thickness of structure | All measures in mm

Applications	Product	Example order code			Grip range	Eyelet	Application range
		Type	HD	Code			
	▲ Aluminium	AP11-		50120-S	<b>4,0 - 8,0</b>	<b>5,0 x12,0</b>	Head diameter D: 11,0 mm  Pilot hole: Ø 5,1 mm
		AP11-		50180-S	<b>9,5 - 13,5</b>	<b>5,0 x18,0</b>	
	▲ Aluminium	AP14-		50120-S	<b>4,0 - 8,0</b>	<b>5,0 x12,0</b>	Head diameter D: 14,0 mm  Pilot hole: Ø 5,1 mm
		AP14-		50160-S	<b>8,0 - 12,0</b>	<b>5,0 x16,0</b>	
		AP14-		50180-S	<b>9,5 - 13,5</b>	<b>5,0 x18,0</b>	
		AP14-		50210-S	<b>12,5 - 16,5</b>	<b>5,0 x21,0</b>	
	▲ Aluminium	AP16-		50160-S	<b>8,0 - 12,0</b>	<b>5,0 x16,0</b>	Head diameter D: 16,0 mm  Pilot hole: Ø 5,1 mm
		AP16-		50180-S	<b>9,5 - 13,5</b>	<b>5,0 x18,0</b>	
		AP16-		50210-S	<b>12,5 - 16,5</b>	<b>5,0 x21,0</b>	
	▲ Aluminium	ASO-	D11-	50120	<b>6,0 - 8,0</b>	<b>5,0 x12,0</b>	Head diameter D: 11,0 mm  Pilot hole: Ø 5,1 mm
		ASO-	D11-	50140	<b>8,0 - 10,0</b>	<b>5,0 x14,0</b>	
		ASO-	D11-	50160	<b>10,0 - 12,0</b>	<b>5,0 x16,0</b>	
		ASO-	D11-	50180	<b>12,0 - 14,0</b>	<b>5,0 x18,0</b>	
	▲ Aluminium	ASO-	D14-	50120	<b>6,0 - 8,0</b>	<b>5,0 x12,0</b>	Head diameter D: 14,0 mm  Pilot hole: Ø 5,1 mm
		ASO-	D14-	50140	<b>8,0 - 10,0</b>	<b>5,0 x14,0</b>	
		ASO-	D14-	50160	<b>10,0 - 12,0</b>	<b>5,0 x16,0</b>	
		ASO-	D14-	50180	<b>12,0 - 14,0</b>	<b>5,0 x18,0</b>	

## SLA

## Technical information

## Applications

Selfdrilling fastener for aluminium composite panels to aluminium framework.

## Material

## Fastener

- SLA  
Austenitic stainless steel, grade  
AISI 304 (European Standard  
1.4301)

## Coloured fastener



Coloured fasteners available  
Colour heads are achieved  
through powder coating

## HD headform / drive

- Low profile Ø 12 mm



## Accessories

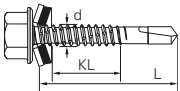


## DI 600

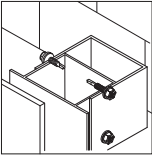



- Lightweight power screwgun  
for installing self drilling and  
self tapping fasteners.

SLA

Order information

	Low profile Ø 12 mm 	 Coloured fastener	
VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b>			

		Example order code								
		SLA	3/	6-	D12-	4,8x	19			
Applications	Product	Type	VD	KL	HD	d	L	KL	Application range	
	● Stainless steel 	SLA	3/	6-	D12-	4,8x	19	6	<div>VD max. alu 3,0 mm</div> Only for aluminium framework 4 mm alu composite on 2 mm alu profile Torx® T20W	



## GA-AS / GA-BS



## Technical information

## Applications

To fix any kind of cladding panels to timber, steel or aluminium sub-frames

## A choice of colours and shapes for fascinating effects

Choose from the range of shapes and colours to create special emphasis on internal or external surfaces. Achieve tonal features through the use of anodised aluminium and polished stainless materials.

The thread onto which the head element is screwed is coated with spedcaps micro-encapsulated liquid adhesive. The adhesive cures within a few hours of installation and the design element is secured against unwinding through dynamic loads. It cannot be removed manually after curing.

## Material

## Fastener

- GA-AS / GA-BS  
Stainless steel, grade AISI 304
- GAZ, design elements  
A = Aluminium anodised  
S = Stainless steel grade AISI 316,  
1.4404
- C = Spedcaps coating

## Washer

- **S** = Stainless steel, grade 304 (Euro-  
pean Standard 1.4301)
- A** = Aluminium  
with vulcanised EPDM

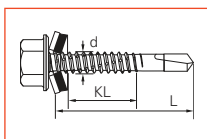

## HD headform / drive

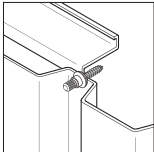
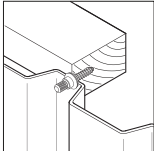
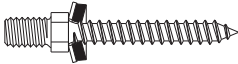
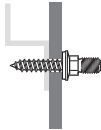
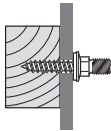
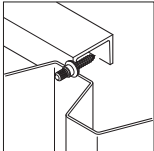
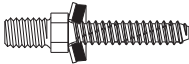
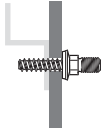
- Hexagon 3/8" ~ 9,5 mm A/F

Special socket required E395

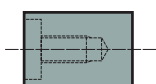


## Order information

	<p>Hexagon 9,5 mm A/F</p> 	<p><b>W: Washer material</b></p> <p><b>S</b> Stainless Steel <b>A</b> Aluminium</p> <p><b>* Select Washer</b></p> <p>Ø 12-16 mm for cladding Ø 19 mm for roofing Ø 29 mm for rooflights</p>
<p>VD max. penetration   KL clamping length   HD headform / drive   W washer material and diameter   d thread diameter   L overall length   t thickness of structure   <b>All measures in mm</b></p>		

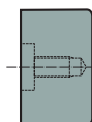
		Example order code															
		<b>GA-AS- S16- 6,5x 45</b>															
Applications	Product	Type	W*	d	L	KL	Application range										
 	● Stainless steel 	GA-AS-	S16-	6,5x	45-C		  <p>Hex drive: 3/8" ~ 9,5 mm AF Threaded part: M8 x 11 mm</p> <p>Recommended pilot hole diameter:</p> <table><tr><td>t in mm:</td><td>pilot hole in mm:</td></tr><tr><td>1,0– 1,25</td><td>4,50</td></tr><tr><td>1,5– 3,00</td><td>5,00</td></tr><tr><td>wood</td><td>4,80</td></tr></table>	t in mm:	pilot hole in mm:	1,0– 1,25	4,50	1,5– 3,00	5,00	wood	4,80		
t in mm:	pilot hole in mm:																
1,0– 1,25	4,50																
1,5– 3,00	5,00																
wood	4,80																
	● Stainless steel 	GA-BS-	S16-	6,3x	32-C		 <p>Hex drive: 3/8" ~ 9,5 mm AF Threaded part: M8 x 11 mm</p> <p>Recommended pilot hole diameter:</p> <table><tr><td>t in mm:</td><td>pilot hole in mm:</td></tr><tr><td>1,5–4,0</td><td>5,30</td></tr><tr><td>4,1–6,0</td><td>5,50</td></tr><tr><td>6,0–10,0</td><td>5,70</td></tr><tr><td>&gt; 10,0</td><td>5,80</td></tr></table>	t in mm:	pilot hole in mm:	1,5–4,0	5,30	4,1–6,0	5,50	6,0–10,0	5,70	> 10,0	5,80
t in mm:	pilot hole in mm:																
1,5–4,0	5,30																
4,1–6,0	5,50																
6,0–10,0	5,70																
> 10,0	5,80																

GAZ-801-



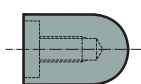
Ø 22 x 32 mm

GAZ-803-\*



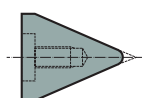
Ø 42 x 28 mm

GAZ-804-



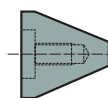
Ø 22 x 32 mm

GAZ-806-



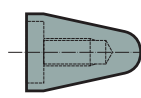
Ø 32 x 38 mm

GAZ-807-



Ø 32 x 32 mm

GAZ-811-



Ø 22 x 32 mm

Available in the following colors:

\*on special request

Aluminium:

Stainless steel:

red, blue, green, black, gold, silver

mill finish

## TU-S



## Technical information

## Applications

The TU-S blind fastener is superior to previous approaches to the attachment of HPL cladding panels with regards installation and long-term security.

## Material

## Fastener

## ■ TU-S

**Body:**

Stainless steel, grade AISI 316  
(European Standard 1.4401)

**Mandrel:**

Carbon steel  
(pulled of completely)

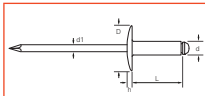
## Accessories

## PowerBird®

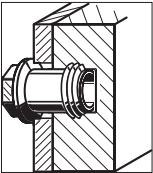
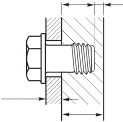



- For standard blind rivets and Bulb-tite® rivets diameter up to 7,7 mm

Order information



VD max. penetration | KL clamping length | HD headform / drive | W washer material and diameter | d thread diameter | L overall length | t thickness of structure | **All measures in mm**

		Example order code			KL	Application range
Applications	Product	Type	d	L		
	● Stainless steel	TU-S-	6,0x	9	<b>0.5 - 3.5</b>	  HSS blind hole drill, 6 mm dia. with depth stop Anchorage depth min. 6,5 mm HPL panels 8,0–13,0 mm thickness
		TU-S-	6,0x	11	<b>0.5 - 5.5</b>	
		TU-S-	6,0x	13	<b>2.5 - 7.5</b>	

## 12

Applications	Product code	Page
Belted fasteners	CF 400	► 12.2
Composite panel fasteners	CF 55	► 12.3
Fibre cement fasteners	CF 40	► 12.4
Self drilling and self tapping fasteners	DI 600	► 12.5
Concrete drilling	DB 620	► 12.6
For Rivets	AccuBird® PowerBird®	► 12.7
Thread forming fastener	BF414 / BF419	► 12.8
For Rivets	Lazy tongs RM-25 Lever tool RM-20	► 12.9
For Rivets	Crank handed tool RV 28GA	► 12.10
Accessories	Accessories	► 12.11



## CF 400



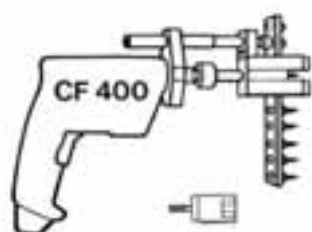
### Applications

Automatic setting tool for installing belted fasteners (10 pcs) with a maximum 16 mm diameter washer and upto a maximum length of 40 mm.

### Technical data

Power Tool:	CF 400
Wattage:	420 W
Max. revs:	1700 U/Min.
Power Supply:	110 V / 220V
Overall length:	370 mm
Weight:	2,1 Kilogram

### CF 400 accessories:



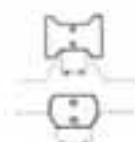
Socket  
E 340 Hexagon head



T-Handle



Extra large pouch  
for belted CF 400  
fasteners



Special profile guides are  
available for stitching in the  
top of the corrugation

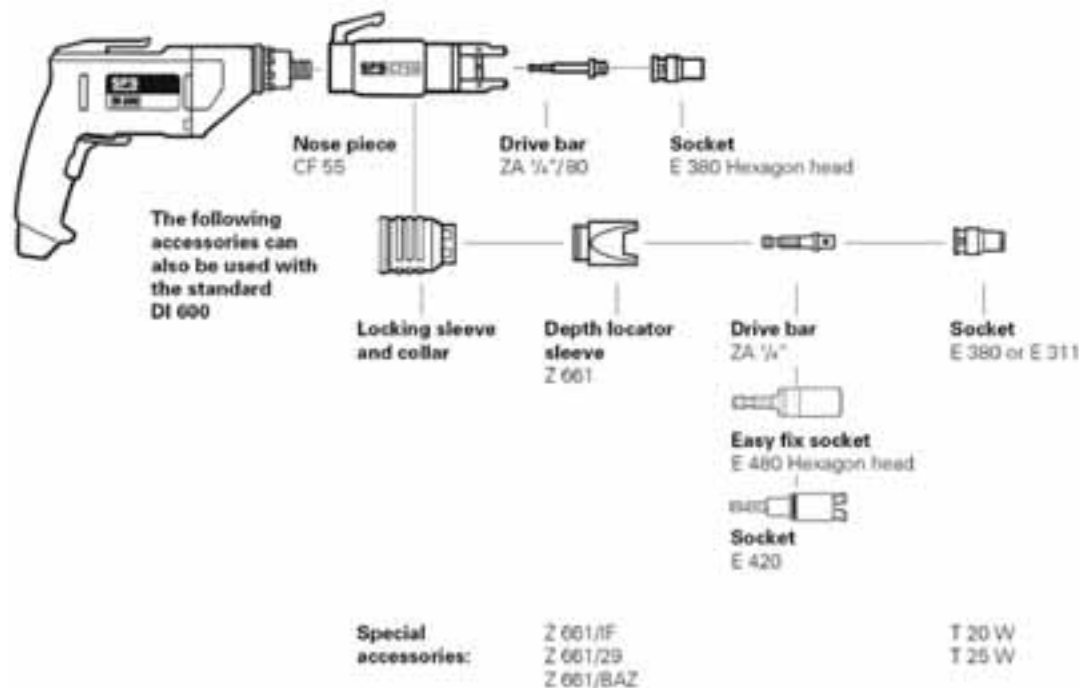
## CF 55

**Applications**

A purpose designed setting tool for installing long composite panel fasteners. The extension drive bar and nosepiece ensure the fasteners are installed correctly.

**Technical data**

Power Tool:	DI 600
Wattage:	600 W
Max. revs:	2000 U/Min.
Power Supply:	110 V / 220V
Overall length:	400 mm
Weight:	2,4 Kilogram

**CF 50 accessories:**

## CF 40



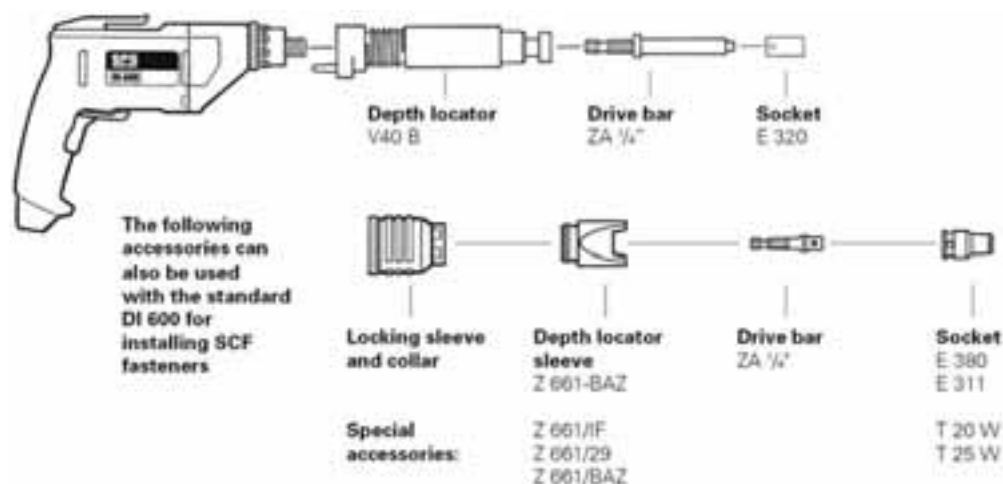
### Applications

A purpose designed setting tool for installing fibre cement fasteners. The extension drive bar and nose piece eliminates over driving and subsequent cracking of the fibre cement sheet.

### Technical data

Power Tool:	DI 600
Wattage:	600 W
Max. revs:	2000 U/Min.
Power Supply:	110 V / 220V
Overall length:	465 mm
Weight:	2,2 Kilogram

### CF 40 accessories:





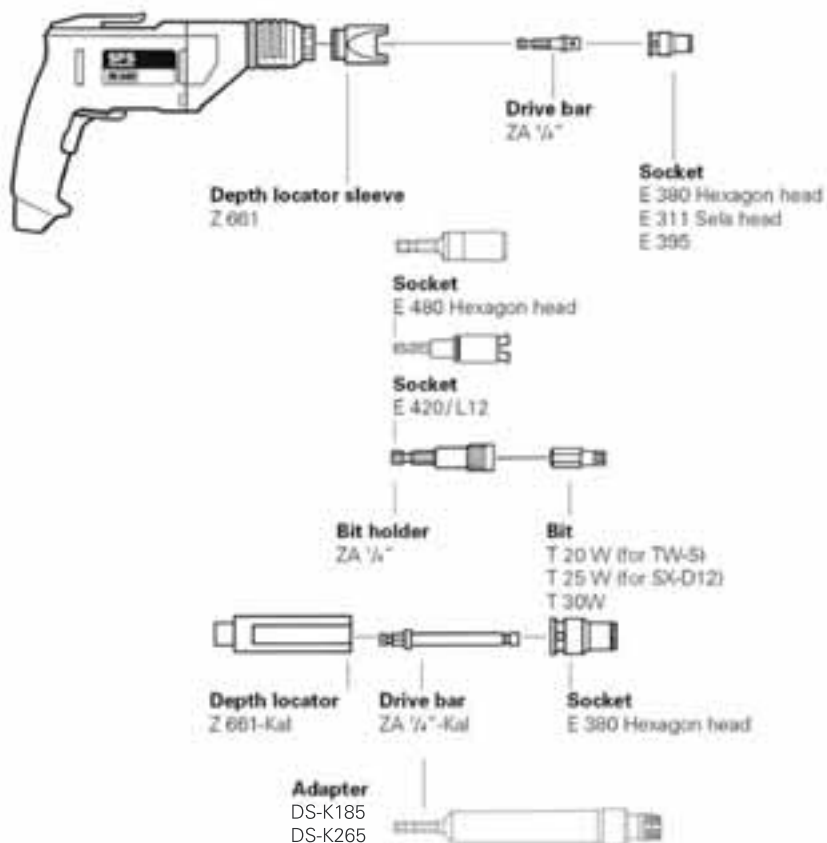
## DI 600

**Applications**

Lightweight power screwgun for installing self drilling and self tapping fasteners.

**Technical data**

Power Tool:	DI 600
Wattage:	600 W
Max. revs:	2000 U/Min.
Power Supply:	110 V / 220V
Max. torque:	19 N/mm <sup>2</sup>
Overall length:	290 mm
Weight:	1,6 Kilogram

**DI 600 accessories:**

DB 620



**Applications**

Pneumatic hammer drilling machine for pre-drilling concrete and masonry

**Technical data**

Wattage:	620 W
Max. revs:	870 U/Min.
Power Supply:	110 V / 220V
Weight:	2,4 Kilogram
Drive connection:	SDS-Plus

**AccuBird®****Applications**

For standard blind rivets and Bulb-tite® rivets diameter 4 - 6,3 mm

**Technical data**

Weight:	2,2 Kilogram
Pulling distance:	20 mm
Battery:	12-Volt
Charging:	60 min.
Pulling strenght:	8500 N
For Rivet diameter:	2-5 mm

**PowerBird®****Applications**

For standard blind rivets and Bulb-tite® rivets diameter up to 7,7 mm

**Technical data**

Weight:	2,2 Kilogram
Pulling distance:	20 mm
Battery:	12-Volt
Charging:	60 min.
Pulling strenght:	13000 N
For Rivet diameter:	4-7 mm

## BF414



### Applications

Lightweight impact screw gun  
¼" hexagonal drive

### Technical data

Max. torque:	136 Nm
Battery:	14-Volt

## BF419



### Applications

Lightweight impact screw gun  
½" square drive

### Technical data

Max. torque:	410 Nm
Battery:	19-Volt

**Lazy tongs RM-25****Applications**

Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

**Lever tool RM-20****Applications**

Including 4 rivet nozzles  
For rivet diameter: 3-5 mm

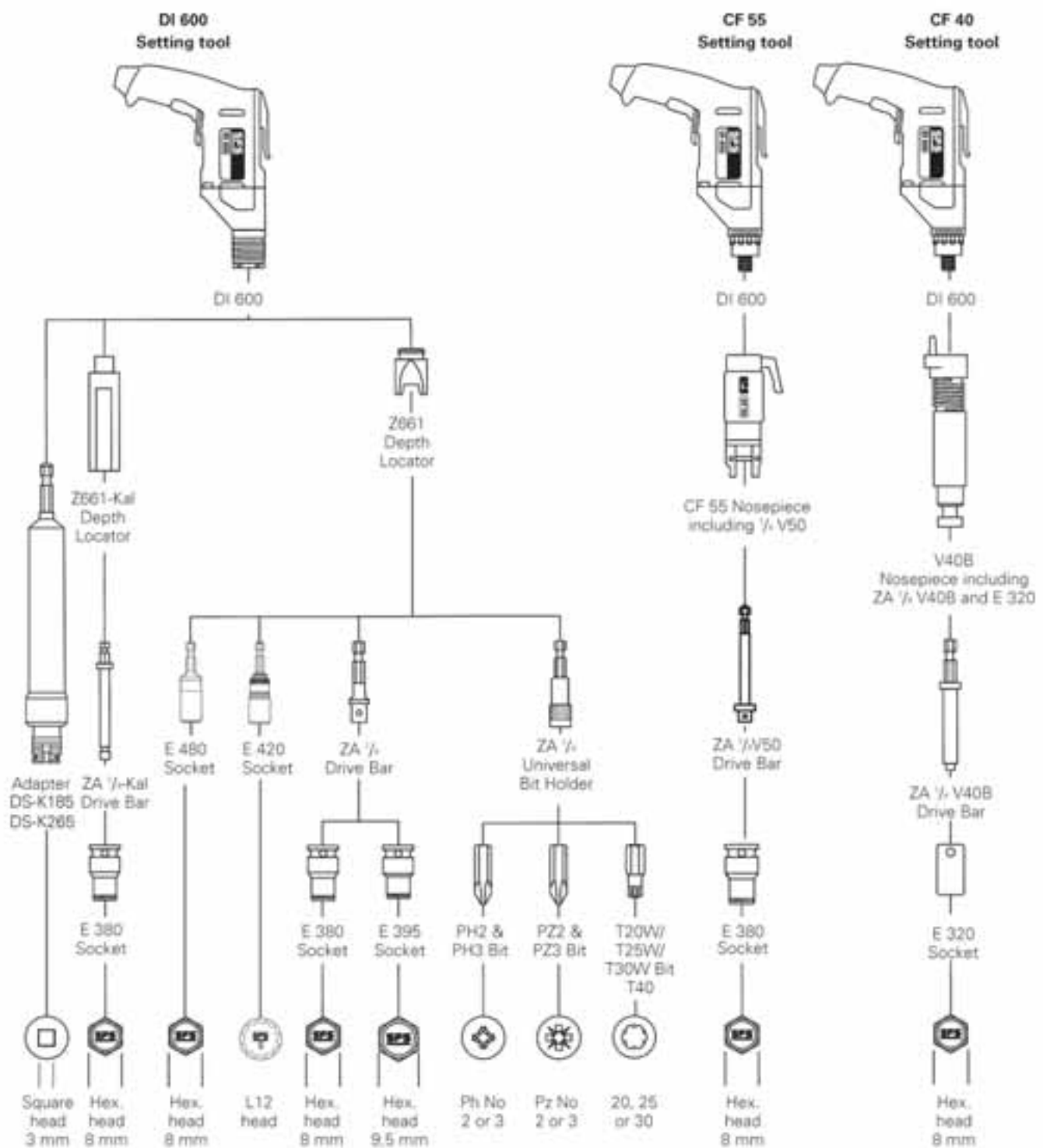
## Crank handed tool RV 28GA



### Applications

For standard blind rivets and Bulb-tite® rivets diameter 6,3 - 7,7 mm

## Setting tool and accessories







Dependably well served:**Meeting your business needs - tailored solutions from SFS intec.**Partners who really understand you:**Experts for architectural exteriors.**The secure route to the right fastener solution:**Simple, efficient planning aids at every step of the project.**Always one step ahead:**An international network with local knowledge in every field.**Economy and security built in:**Complete systems for every application.**Quality you can depend on:**A network of quality-certified plants.**Reliable performance:**Tested in-house, confirmed on site.**The right fastening system every time:**Technical advice and support any time, anywhere.**More efficiency:**Optimised supply chain management.**



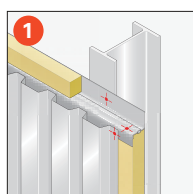
**Partners who really understand you:**  
**Experts for architectural exteriors.**



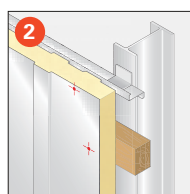
### **Comprehensive application knowledge from one Partner**

For every aspect of architectural exteriors - from fixings to special hinges for doors and windows – SFS intec understands your business. We help make our global customer base more competitive.

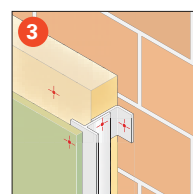
Experienced sector specialists tuned to the regional requirements of each individual market guarantee genuine local advice and support.



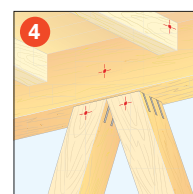
Fastening cassette systems



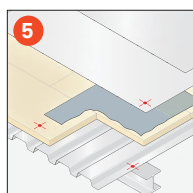
Fastening composite panels



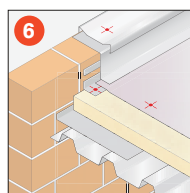
Ventilated curtain walling



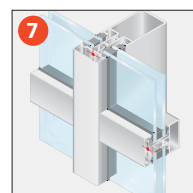
Structural timber and glulam beams



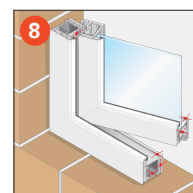
Fastening flat roofs



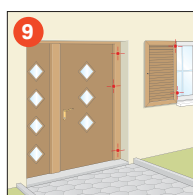
Perimeter zones



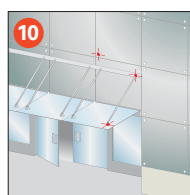
Post-and-rail joints



Fastening systems for doors and windows



Hinge systems for doors and windows



Glass attachment

### **Why not take advantage of our expertise:**

- More than 50 years experience
- Technical application professionals available for on-site support
- Know-how database from research, development, manufacturing and application engineering



**The secure route to the right fastener solution:**  
**Simple, efficient planning aids at every step of the project.**



#### Choose the planning aids you need

- User-friendly catalogues
- On-site or office advice
- Application technicians available by phone
- Product selector and project management aids at **[www.sfsintec.biz](http://www.sfsintec.biz)**
- Twenty-four hour online e-shop ordering



#### Talking to the specialists in fastener and fixing technology

Whatever phase your project is at, SFS intec offers you the right planning aids to determine the appropriate fastener and the matching accessories.

Your specific application does not have to be mentioned in our catalogues. Whatever the job, our specialists can help you find the right system quickly and simply. Our solutions are carefully matched to the requirements of each individual project to meet corrosion resistance, air-tightness and thermal insulation requirements.







**Always one step ahead:**

**An international network with local knowledge in every field.**



#### **Tried and trusted technologies matched to your specific requirements**

Somewhere in the world we will have already addressed the same tasks confronting you right now.

Our global team of experts is continuously working on new challenges which means our customers benefit from a massive pool of accumulated knowledge. So they are always one step ahead.

With your specific requirements in our hands, we exchange know-how among a vast international network of industry specialists, seeking out the right fastener solutions for you. Solutions to make your work easier and to help your business be more competitive.



#### **The services that can improve your competitive edge:**

- Local on-site support for overseas projects
- Years of experience on numerous international projects
- In-depth knowledge gained from our work with the world's leading OEM's
- People on site who speak your language, offering an international approach





**Economy and security built in:**  
**Complete systems covering every application.**



#### SFS intec complete systems

- Multi-functional fasteners
- Guaranteed long-life
- Simple and easy to use
- Intelligent installation tools enabling fast, efficient work
- System accessories including rivets, pipe flashings, sealing tapes and anchorages



#### More than just fastener systems

We work hand-in-hand with planners and specifiers everyday on sites around the world. This is the driver behind our constantly evolving products and services. The diverse messages coming in from the market place are converted by our design and development specialists into profitable solutions for our customers.

SFS intec offers more than just fasteners to its customers. We provide intelligent drive systems and coatings that optimise the insertion torque. Design details that ensure every solution is perfectly fit for purpose. We also offer those essential complementary products like rivets, pipe flashings, sealing tapes and anchorages – all fulfilling the most demanding requirements.







**Quality you can depend on:**  
**A network of quality-certified plants.**



#### Assured quality – fast delivery

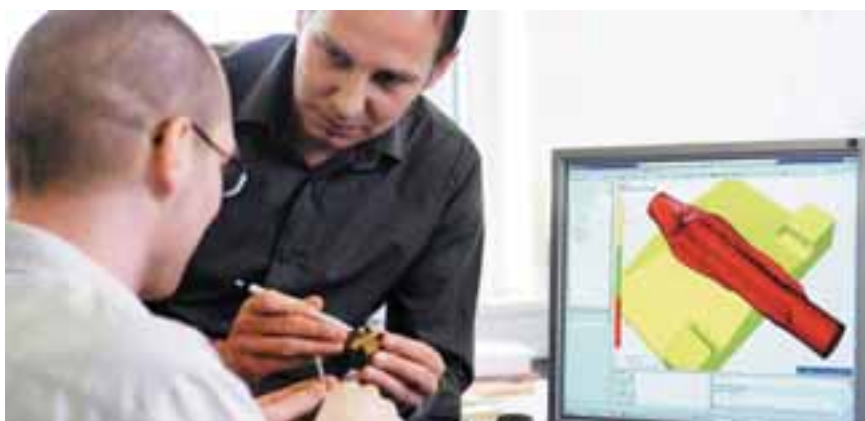
We never compromise when it comes to our application-optimised fasteners. Our trained specialists throughout the value-added chain are there to ensure quality in every aspect of our products and services.

Each and every manufacturing site is certified to the same uniform, comprehensive quality assurance system. What's more, this network of production sites ensures fast, efficient product availability.



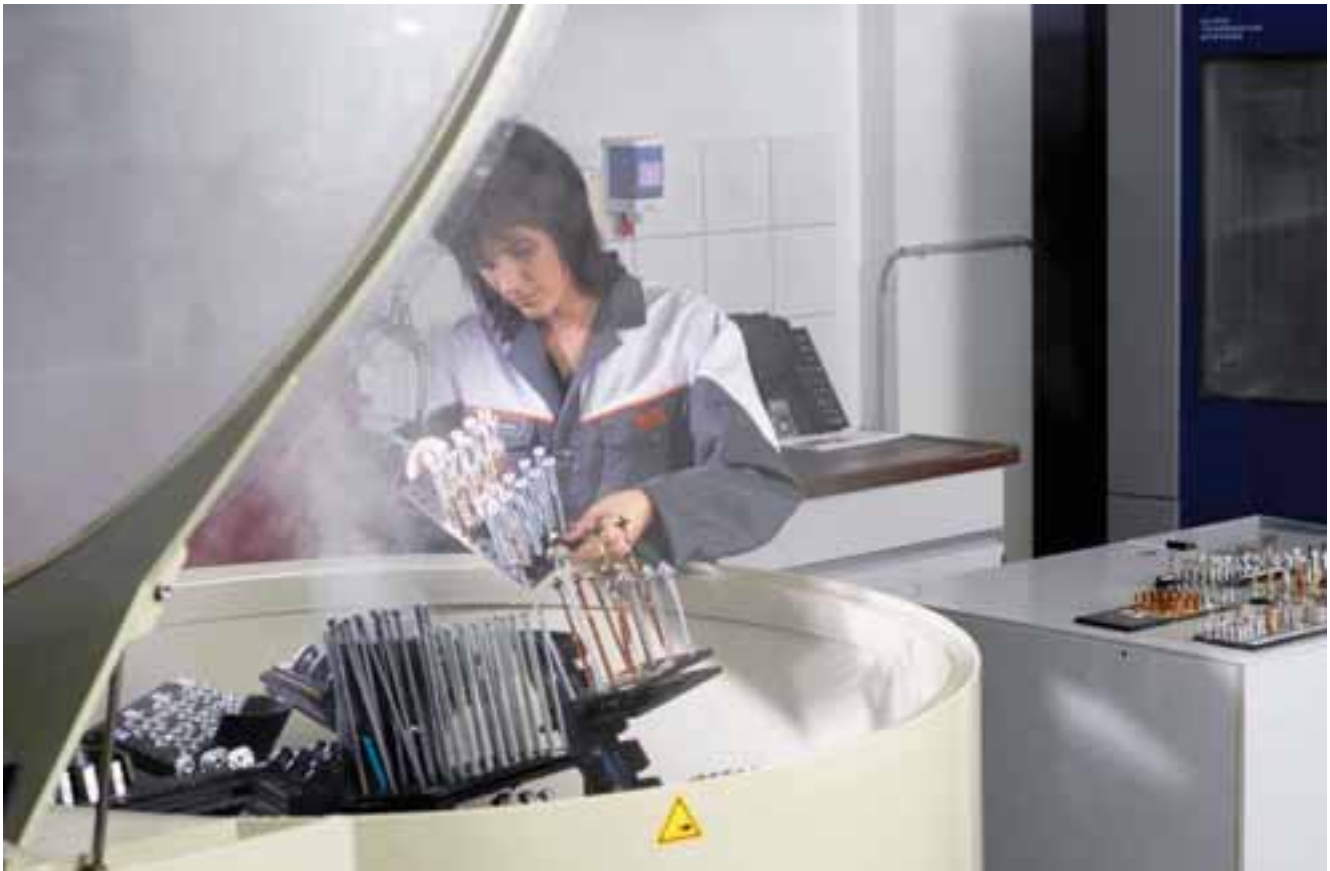
#### SFS intec business partners profit from:

- Certified quality from our own production centres
- Fast, efficient product availability from an international manufacturing and logistics network
- Flexible responses to individual needs that only the original manufacturer can truly provide





**Reliable performance:**  
**Tested in-house, confirmed on site.**



**SFS intec fastening systems are checked for:**

- Lifetime behaviour under static and dynamic loads
- Corrosion resistance
- Effective sealing
- Ease-of-use on site
- Resistance to UV and storm damage
- Colour fastness



**Fastening systems for tomorrow's needs**

Are the fasteners up to the static and dynamic loads? Is a long-term seal guaranteed? Or could heat treatment processes or surface treatments improve long-term behaviour? These are the questions confronting SFS intec specialists daily.

New solutions go through rigorous testing at our in-house laboratories including critical checks for the fulfilment of the latest energy conservation requirements. Through a combination of in-house research and close collaboration with system suppliers, SFS intec is at the forefront of new concepts.







**The right fastening system every time:**  
**Technical advice and support anytime, anywhere.**



#### **Absolute fastener security**

Increased safety requirements; economic, ergonomic and aesthetic considerations; meeting the relevant directives and building control guidelines: these and other factors are becoming increasingly important in industrial construction.

That's why choosing the right fastening system for each specific application is vital. We ensure specifiers, architects and installers have the advice and information needed to choose an appropriate system from the wide range of alternatives available.

Your support team is only a phone call away. Our comprehensive website **[www.sfsintec.biz](http://www.sfsintec.biz)** provides a wealth of information on optimum fastener technology. Draw on our years of experience in every aspect of fastening and fixing to put you in the driving seat when it comes to industrial building.



#### **Services ensuring a secure build**

- Choosing the appropriate fastening system at the planning stage
- Comprehensive analysis of your needs including on-site tests
- Optimum supply chain management from plant to site
- On-site personnel training







**More efficiency:  
Optimised supply chain management.**



**Efficiency improvements all along the value-added chain**

- Simple, streamlined order processes and reduced storage costs
- Detailed analysis of the materials management process
- A range of process optimisation solutions
- Transparent information flow



**Cutting the cost of materials management, optimising processes and enjoying completely transparent information flow.**

In today's complex economic environment with its ever-changing demands, the speed of response, accuracy and reliability of your business activities is crucial.

SFS intec can help you to meet these challenges and has developed a wide range of logistic support mechanisms to meet your business needs. These systems enable you to optimise your purchasing and materials management processes and to work simply and efficiently with us as your dedicated supply partner.



We offer a made-to-measure logistical solution tailored to your specific needs from simple solutions to specific problems. We will analyse your complete procurement, warehousing and despatch processes to suggest ways you can improve efficiency, enhance your sustainability objectives or cut costs.

**Focused market activities for a wide range of industries:  
Generating customer benefits as a joint corporate objective.**

**AutomotiveProducts**

Development and production partner for precision cold formed components and special fasteners for suppliers to the automotive industry operating worldwide.



**IndustrialProducts**

Development and production partner for precision cold formed components and special fasteners for manufacturing companies in different field of activities.



**FasteningSystems-Construction**

Mechanical fastening and jointing systems as well as systems accessories for lightweight industrial construction, ventilated curtain walling, flat roofs and structural timberwork.



**FasteningSystems-Industry**

Mechanical fastening systems for door and window manufacturers and the transport industry, glass cladding systems and hinge systems for doors and windows.





