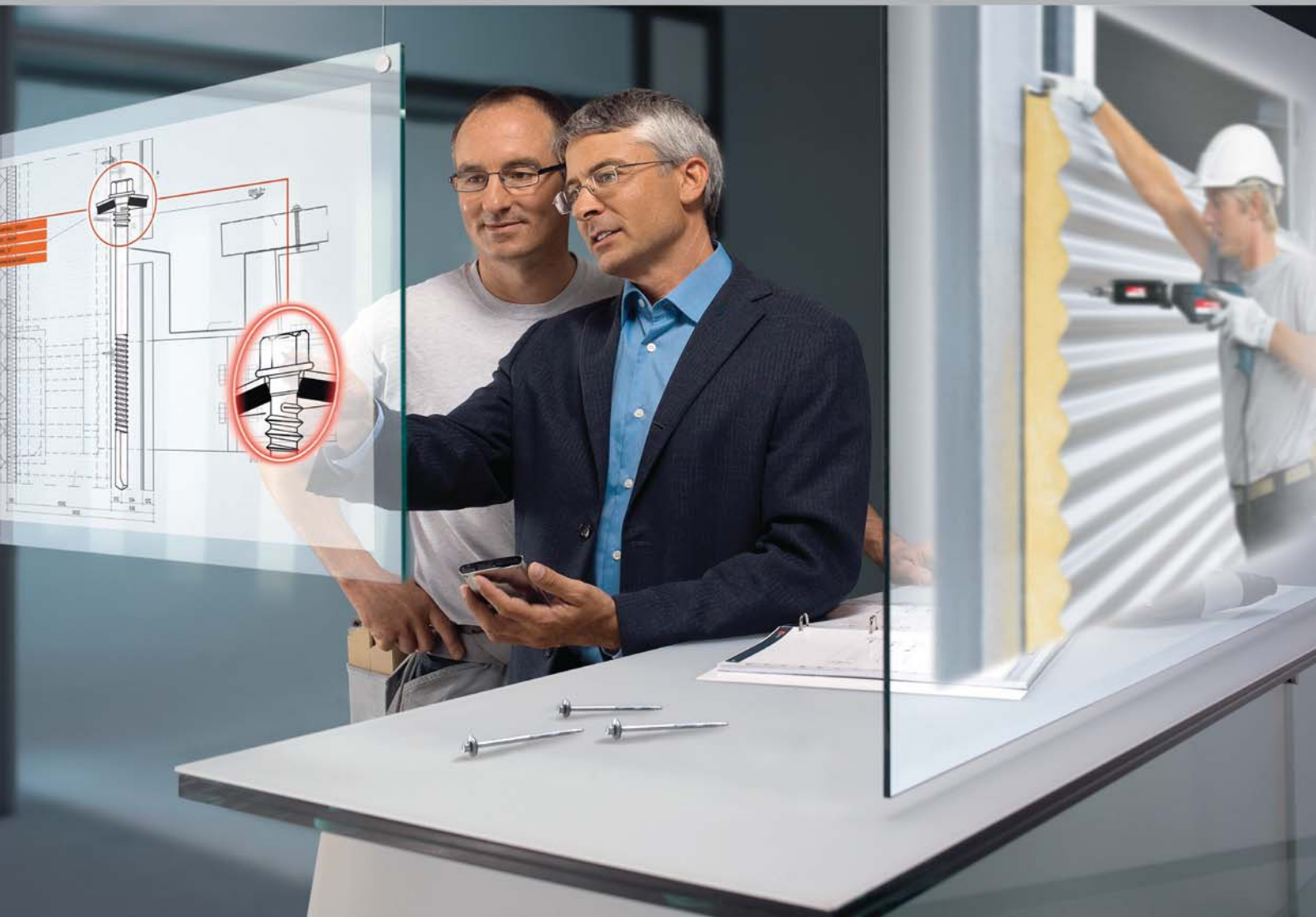


UK Catalogue
Innovative fastening systems
and application expertise



Business Solutions



1

Roofing and Cladding



2

Flat Roofing



3

Solar Fastening Systems



4

Business Solutions



SFS intec Business Solutions:
Demanding goals need partners that apply joined-up thinking.



We live in a complex, constantly changing business environment which presents us with numerous challenges in our day-to-day work. Simple, lean processes, enhancing efficiency and – not least – cost and time savings are important themes.

SFS intec is a committed partner, adopting a holistic approach and not merely supplying products. Our efforts are directed towards successfully addressing the challenges arising in day-to-day business with tailor-made supplementary services.

SFS intec can offer a thoughtfully devised portfolio of Business Solutions to meet the differing requirements of market participants. Whether for small, medium or large sized businesses, industrial customers, dealers or system manufacturers: Business Solutions by SFS intec cater to a wide diversity of needs. Furthermore, they are designed in such a way that they can be adapted individually to your specific requirements.

Business Solutions by SFS intec offer you the following benefits:



Easy



Cost-saving

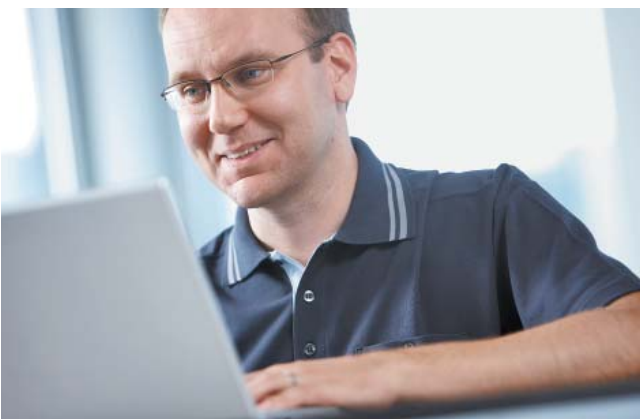


Secure



Time-saving

Electronic ordering: Fast, simple, faultless.



eFormat

Accelerate and secure the order process!

Conversion of orders into electronic messages.

- Orders take priority
- Faster order processing
- No transmission errors

EDI

Stay connected constantly!

Electronic data interchange between both customer's and SFS intec's ERP systems.

- Continuous link
- Fast, simple process
- No transmission errors

eScan

Simplify your stock management!

Electronic ordering using a barcode scanner.

- Optimal inventory organisation and efficient ordering, including analysis and consultancy by SFS intec
- Lower procurement costs
- Fast, efficient ordering

eShop

Order quickly and easily online!

Website for online orders around the clock.

- Order quickly and easily
- Irrespective of time and place
- Important information at a glance (e.g. product range, previous orders, invoices)

Electronic information: Always up-to-date.



ePost

Receive your documents immediately!

Electronic mailing of order acknowledgment, delivery note and invoice.

- Real-time information
- Information transmitted directly to the person responsible
- Paperless filing possible



SMS Service

Delivering confidence!

Notification and confirmation of deliveries to the construction site via SMS.

- High degree of transparency regarding deliveries
- No more missed deliveries
- Less time-wasting, no standstills on the construction site



ePortal Track and Trace

Information at your fingertips!

Orders and all related documents are accessible at all times, including delivery status and delivery confirmation.

- Full Transparency
- Information available at any time or place
- Accessibility for all defined users



ePortal Data Dashboard

Business Information at the touch of a button!

Manage your business more efficiently with accurate, up to the minute data.

Ideal management tool that offers:

- Measurement of KPI's
- Easy access to key business data
- Bespoke report capability

Our customer site service: Higher on-site efficiency.



The Tech Team

Save cost with the most effective solution!

- Specialist site application technicians
- Wind load calculation and take-off service
- Office and site based training facility - mobile training units
- Web-based podcasts

Technical Helpline 0113 208 5578

ePullout

Profit from an online management platform!

Pullout requests and reporting handled with an online management platform

- Smooth and transparent process
- Fast, efficient reporting - data is entered directly on site and is available immediately
- Reports include roof / wall plan and photographs

i-Van Training

Profit from knowledge!

Product and technical training for back-office-staff

- A unique training experience at your own office
- "Hands-on" tooling demonstrations
- Avoid potential site problems
- Discover easy, fast, and cost effective solutions

Job2Job

Save costs, improve efficiency!

You order per job, we do the rest: storage, order picking, packaging, labelling, forwarding.

- Major cost savings in procurement
- Reduced inventories
- Greater convenience

Dependable and reliable customer service:
Meeting your business needs - tailored solutions from SFS intec.



Partners who really understand you:
Expert product Knowledge.



The secure route to the right fastener solution:
Simple, efficient specification assistance at every stage of the project.



Always one step ahead:
Local presence linked to an international network.



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.



Excellence in supply chain management is our passion:
Total supply chain management.



**Partners who really understand you:
Expert product Knowledge.**



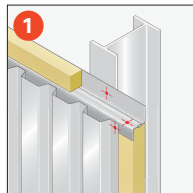
Comprehensive application knowledge from one partner

From component wall or roof fastening systems through to specialised door and window hinges, SFS intec can offer innovative, quality, competitive solutions.

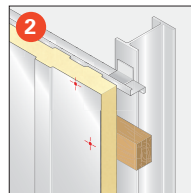
Experienced sector specialists are tuned into the requirements of each individual market sector to ensure dedicated product solutions, advice and good back-up.

Why not take advantage of our expertise:

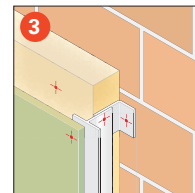
- More than 50 years experience
- Technical application professionals available for on-site support
- Know-how database from research, development, manufacturing and application engineering



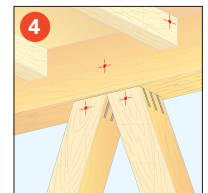
Fastening cassette systems



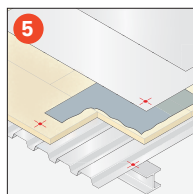
Fastening composite panels



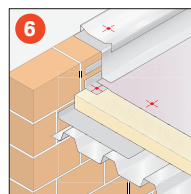
Ventilated curtain walling



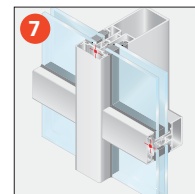
Structural timber and glulam beams



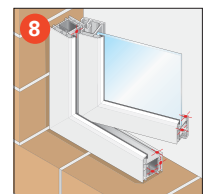
Fastening flat roofs



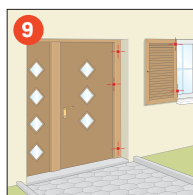
Perimeter zones



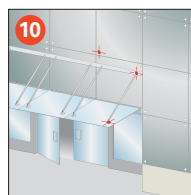
Glazing systems



Fastening systems for doors and windows



Hinge systems for doors and windows



Glass attachment



**The secure route to the right fastener solution:
Simple, efficient specification assistance at every stage of the project.**



Specification assistance from SFS intec:

- Technical Helpline 0113 208 5578
- Technical Advisors - office or on site
- CPD Seminars
- Prescriptive specifications (projects)
- Staff training - at your place of work or visit our technical training centre
- Designers Guide - download from our web site: www.airtight-security.co.uk



Talking to the fastening technology specialists

Whatever the phase of your project, SFS intec can offer assistance to determine the appropriate specification. Solutions will be to individual product requirements and provide for long term security, functionality and real aesthetic appeal.

Use our expertise to ensure that important specification issues such as corrosion risk and airtightness are fully addressed. Also to make certain that your fasteners have a meaningful warranty.

SFS intec offer RIBA accredited CPD technical seminars. Further details are available on request.

SFS intec austenitic stainless steel products are listed within NBS Plus.





Always one step ahead:
Local presence linked to an international network.



SFS intec Limited

SFS intec Limited is the UK's leading manufacturer of fasteners for the construction industry. Fasteners have been manufactured at the UK site in Leeds for over 100 years. The new £6m production and logistics facility is unrivalled in the UK industry.

SFS intec offers engineered, application optimised fasteners that meet the modern demands of the construction industry. Backed by the extensive resources of a successful international group, SFS intec offers architects, designers,

consulting engineers and contractors a proven commitment to product quality, innovation, sound technical solutions and efficient service. The company has in-depth knowledge gained from working on many UK and international construction projects with the world's leading OEM's.

SFS intec Limited is an active member of the following UK trade associations:



SFS intec is able to exchange know-how amongst a vast international network of industry specialists and thereby seek out bespoke, quality solutions for its customers.





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



Complete systems from SFS intec are outstanding due to:

- Perfectly matched installation equipment and accessories for fast, efficient assembly
- Simple, ergonomic working
- Tried and tested long-term viability
- Approved for the most diverse applications
- A comprehensive range to meet every application
- In-house development department



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 installation torque. Design details that ensure every solution is perfectly fit for purpose. We also offer those essential complementary products such as rivets, pipe flashings, sealing tapes and concrete anchors - 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 supply chain are there to ensure quality in every aspect of our products and services.

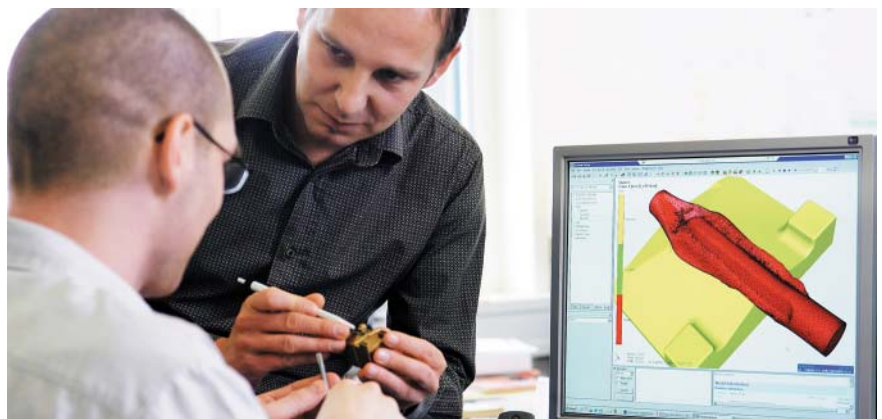
Every SFS intec site has its own accreditation to ISO 9001 quality management standard. Moreover, a complete network of manufacturing and logistics support centres means maximum product availability.

Our main manufacturing plant has gained the ISO 14001 environmental standard along with VDA No6. From production through to packaging, we do not just aim to meet quality, environmental and safety requirements - we work to exceed them.



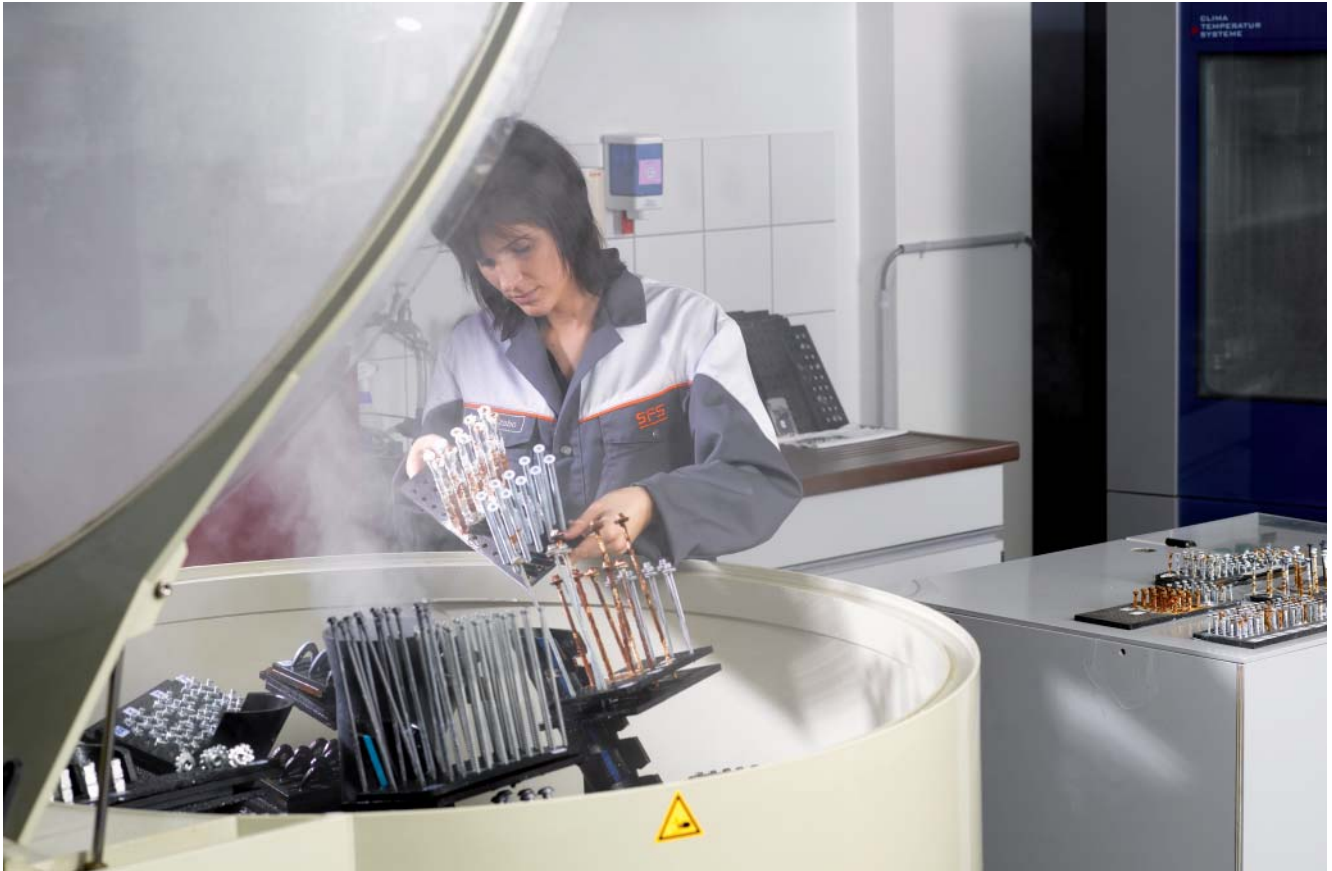
SFS intec business partners profit from:

- Certified quality from our own production plants
- 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:

- Long-term behaviour under static and dynamic loading
- Corrosion resistance
- Ease-of-use and perfect functioning on site
- Compliance with Building Regulations or appropriate code of practice requirements
- Colour fastness and effective seal



Future-focused fastener systems

Are the fasteners up to the anticipated static and dynamic loads? Is the fastener seal secure for life? Will wind forces be safely transmitted to the sub-structure? How long will the fastener material last? What warranty? Such questions confront SFS intec experts daily.

New solutions are extensively tested at our own in-house laboratories including critical checks for fulfilment of the latest energy conservation requirements. Through a combination of in-house research and close collaboration with leading system suppliers, SFS intec is at the forefront of new concepts and ideas.





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



Absolute fastener security

Incoming legislation and related building control guidelines, including enhanced safety requirements increasingly require changes in traditional work practice. Ergonomic and aesthetic considerations are additionally becoming important considerations on most construction projects.

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.

Our technical support team is only a phone call away! Our comprehensive website www.airtight-security.co.uk additionally provides a wealth of information on optimum fastener technology. Draw upon our many years of experience in every aspect of fastening to assist you with your project requirements.



Call the SFS Tech Team:

- Technical Helpline 0113 208 5578
- Specialist site application technicians
- Wind load calculations
- Pullout testing
- Site toolbox training
- Web based podcasts

web site: www.airtight-security.co.uk



www.airtight-security.co.uk



**Excellence in supply chain management is our passion:
Total supply chain management.**



Fast efficient customer service:

- Tailored supply chain management solutions
- Dedicated customer service and technical advisor contacts
- High stock levels on standard product ranges
- Fast, reliable delivery service



Fast, reliable service wherever you need it

We provide excellent service and tailored solutions to all of our customers to achieve total satisfaction.

With our highly competent and passionate team we guarantee an advanced supply chain management which meets all business requirements.

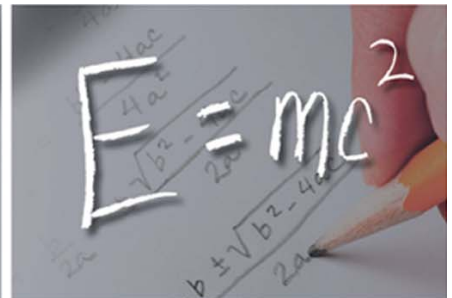
We pledge to our customers reliability and comfort beyond their expectations.



COMPLEXITY



CONSULTANCY



SOLUTIONS

Roofing and Cladding



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 Security ⊕

14 Attachment

How to find the right solution?

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

Table of Contents		
Roofing and cladding	Applications index	1
	Product index	2
Single and twin skin construction	• Stainless steel self drilling fasteners	3
	• Carbon steel self drilling fasteners	4
Standing seam	• Stainless steel self drilling fasteners	5
	• Stainless steel self drilling fasteners	6
Composite panels	• Carbon steel self drilling fasteners	7
Steel and timber construction	Trapping fasteners	8
Corrugated fibre cement sheet	Self drilling and tapping fasteners	9
Side lap stitching	Roofs	10
Rainscreen cladding	Fasteners and bolts	11
Tools and accessories	Tools and accessories	12
	Security ⊕	13
	Attachment	14

Search by Table of contents

A fast way to get an overview over the applications and products is this compact table of contents.

1 Application index

Application	Material	Quantity
1.1	Stainless steel	1
1.2	Carbon steel	2
1.3	Stainless steel	3
1.4	Carbon steel	4
1.5	Stainless steel	5
1.6	Carbon steel	6
1.7	Stainless steel	7
1.8	Carbon steel	8

Search by Application index

With the application guide, you can search a product and the corresponding chapter via the application.

2 Product index

Product	Material	Quantity
2.1	Stainless steel	1
2.2	Carbon steel	2
2.3	Stainless steel	3
2.4	Carbon steel	4
2.5	Stainless steel	5
2.6	Carbon steel	6
2.7	Stainless steel	7
2.8	Carbon steel	8

Search by Product index

A comprehensive specification aid with product drawings and corresponding chapters.

Contact information

SFS intec Ltd.
153 Kirkstall Road
Leeds LS4 2AT



T +44 (0) 113 2085 500, F +44(0) 113 2085 573
uk.leeds@sfsintec.biz, www.airtight-security.co.uk

Roofing and cladding	Application index	1	
	Product index	2	
Single and twin skin construction	<ul style="list-style-type: none"> Stainless steel self drilling fasteners 	SX / SXP / SXW / SW2-S / SW-A SL2-S / SLP2-S / SL2-A	3
	<ul style="list-style-type: none"> Carbon steel self drilling fasteners 	SD / SDP / SDL / SD-H15 / SW-T / SW3-T SL2-T / SDL / SL / SL-H15 / SLP / SC SCN / SCS	4
Standing seam	<ul style="list-style-type: none"> Stainless steel self drilling fasteners 	SDK-S / SX / SL3/2-5-S / TDA-S TDB-S / TDC-S / RV6604	5
Composite panels	<ul style="list-style-type: none"> Stainless steel self drilling fasteners 	SXC / SXCP / SX / SXCW / SL2-S SLP-S / SD2-S / SX-D10	6
	<ul style="list-style-type: none"> Carbon steel self drilling fasteners 	SDTP / SDT / SD / SL2-T SLP / SD-D10 / SW-D10	7
Steel and timber construction	Tapping fasteners	TDC-S / TDA-S / TDB-S / TDA-T / TDC-T TDBL-T / GA-AS / GA-BS / HSS	8
Corrugated fibre cement sheet	Self drilling and tapping fasteners	SCFW / SCFW-S / TDA-S / TDB-S HG-S / HG-T / LL-S / LLP-T / HSS	9
Side lap stitching	Rivets	RV6604 / RV6603 / RV6605 / ATO / ASO TTO / SSO / ATOM / ATC / ASC / SSC AAC / HSS	10
Rainscreen cladding	Fasteners and rivets	TI / SDS / MBRK / MBR / MDD / MDD-S MDS / MDP / MIDS / MIDSr / SLA / SDA SN / SX / SD2-S / TW-S / TW-A4 / SCFW-S SDF2-S / AP / ASO / GA-AS / GA-BS / TU-S	11
Tools and accessories	Tools and accessories	DI 650 / CF 55 / CF 40 / DB 620 AccuBird® / PowerBird® / BF414 / BF419 Lazy tongs RM-25 and Lever tool RM-20	12
	Security ⊕		13
	Attachment		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.

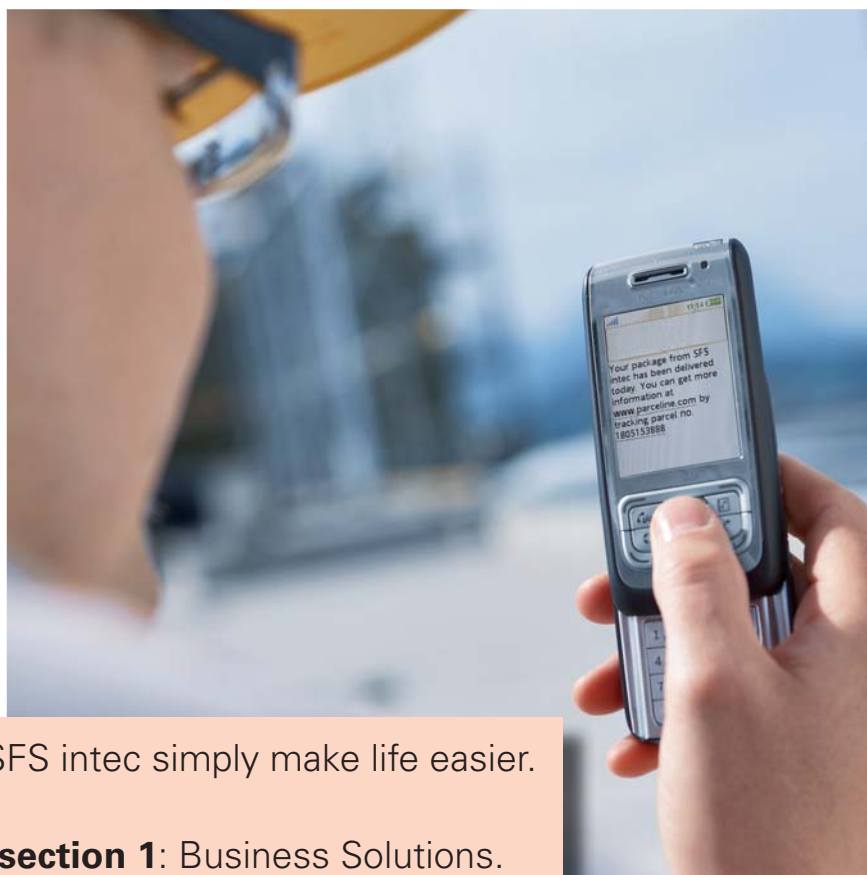
See **Section 1**: SFS intec Business Solutions and learn more about how working with SFS intec can make your job so much easier.

Innovative Business Solutions for individual customers

Working together and thereby improving efficiency throughout the supply chain can result in:

- reduced costs
- optimised processes
- Transparent information flows

We are able to work closely with you and thereby address your specific needs; developing optimum solutions for your particular requirements.



Business Solutions from SFS intec simply make life easier.

For more information see **section 1**: Business Solutions.

Important: Note for specifiers

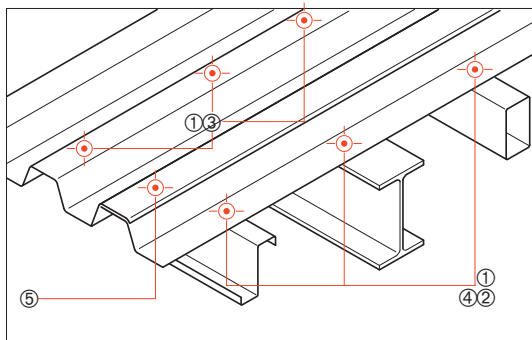
In line with our policy of constant innovation and development, SFS intec reserves the right to make technical changes on all products. We accept no responsibility for misprints.

For other applications please contact our technical team.

1 Application index

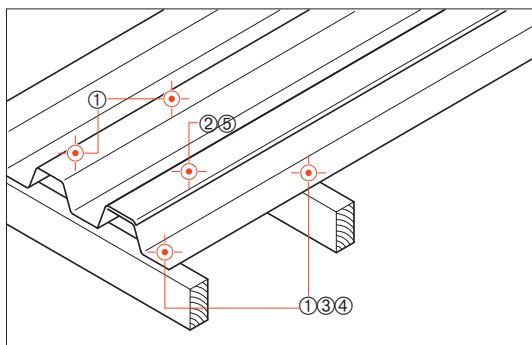
Pitched roofing and cladding

Single skin sheet to steel purlins



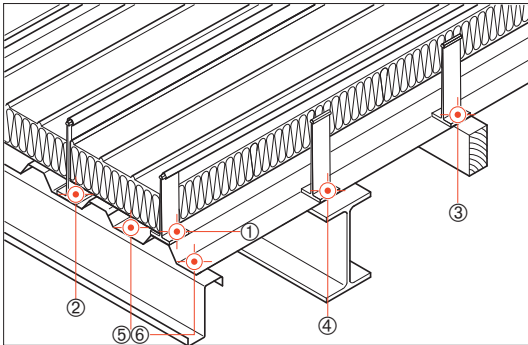
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
2	SXP	●	-	-	3
3	SL2-S	●	-	-	3
4	SLP2-S	●	-	-	3
4	SD	-	■	-	4
4	SDP	-	■	-	4
5	SL2-T	-	■	-	4
5	SLP2-T	-	■	-	4

Single skin sheet to timber purlins



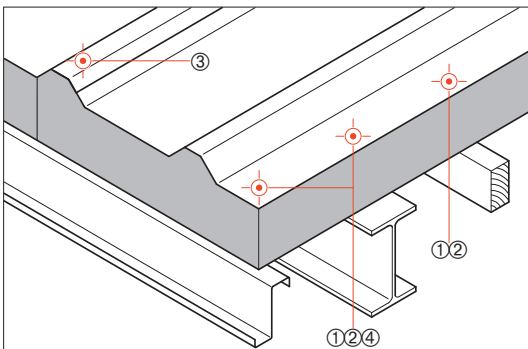
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXW	●	-	-	3
2	SL2-S	●	-	-	3
3	SW2-S	●	-	-	3
4	SW-T	-	■	-	4
4	SW-A	-	-	▲	3
5	SL2-T	-	■	-	4

Standing seam system to steel purlins and structural deck



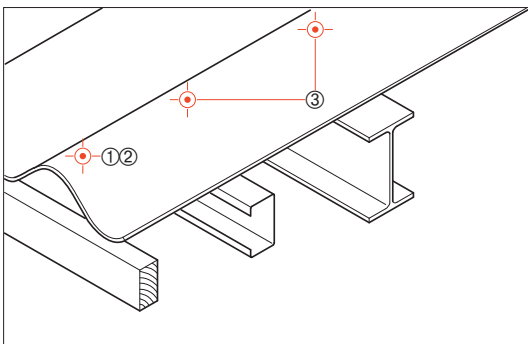
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		Stainless steel	Carbon steel	Aluminium	
1	SDK2-S	●	-	-	5
2	SDK3-S	●	-	-	5
3	TDA-S	●	-	-	5
4	TDB-S	●	-	-	5
5	SX	●	-	-	3/5
6	SD	-	■	-	4

Composite panel to timber and steel purlins



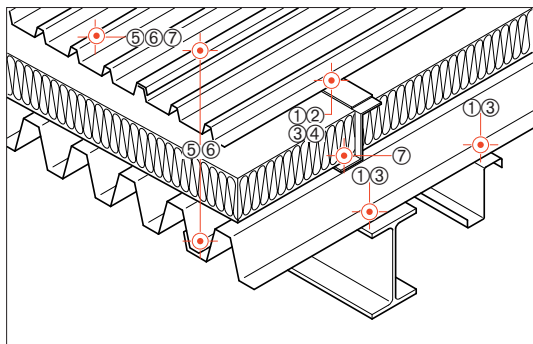
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXC	●	-	-	6
2	SXCP	●	-	-	6
3	SL2-S	●	-	-	6
3	SLP2-S	●	-	-	6
3	SL2-T	-	■	-	7
3	SLP2-T	-	■	-	7
4	SDT	-	■	-	7
4	SDTP	-	■	-	7

Fibre cement sheet to timber and steel purlins



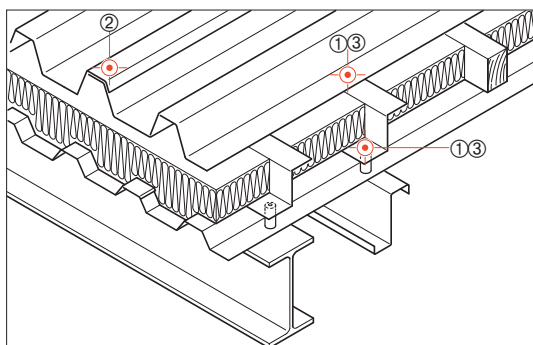
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SCFW	-	■	-	9
2	SCFW-S	●	-	-	9
3	TD-S	●	-	-	9

Built-up construction using zed bars on structural metal deck



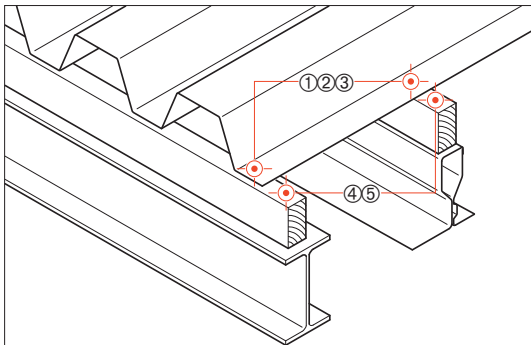
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3 / 5 / 6
2	SXP	●	-	-	4 / 7
3	SD	-	■	-	6
4	SDP	-	■	-	4
5	SL2-S	●	-	-	3
6	SLP2-S	●	-	-	3
6	SL2-T	-	■	-	4
6	SLP2-T	-	■	-	4
7	RV6604	-	-	▲	5 / 10

Twin skin construction



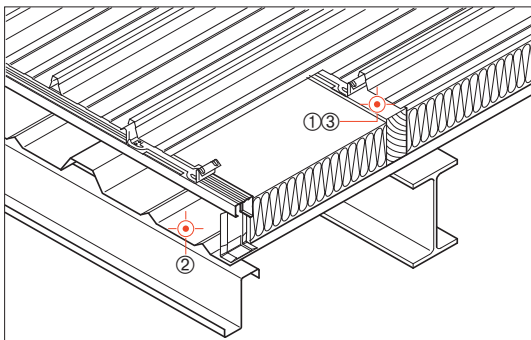
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	3
2	SL2-S	●	-	-	3
2	SLP2-S	●	-	-	3
2	SL2-T	-	■	-	4
3	SD	-	■	-	4
3	SDP	-	■	-	4
3	SDL	-	■	-	4

Timber to steel purlins and sheet to timber purlins



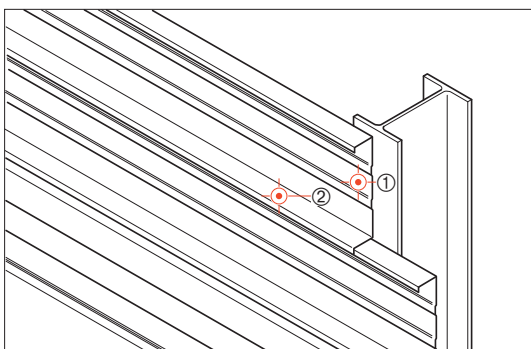
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXW	●	-	-	3
2	SW2-S	●	-	-	3
3	SW-T	-	■	-	4
4	SCN2	-	■	-	4
5	SC	-	■	-	4

Clipfix system to timber and steel purlins



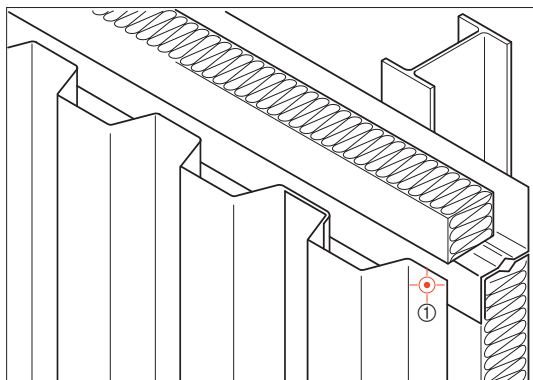
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX-D12	●	-	-	5
2	SD	-	■	-	4
3	SC	-	■	-	4

Liner tray to steel rails



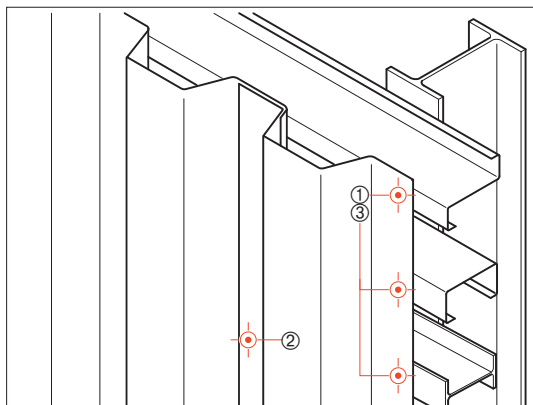
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SD	-	■	-	4
1	SX	●	-	-	3
2	SL	●	■	-	3/4

Single skin sheet to liner tray



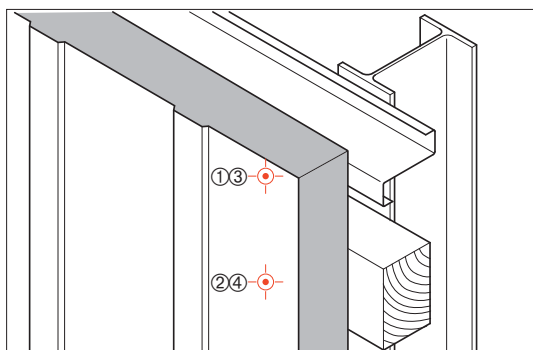
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	3
1	SD	-	■	-	4
1	SDP	-	■	-	4

Single skin sheet to steel rails



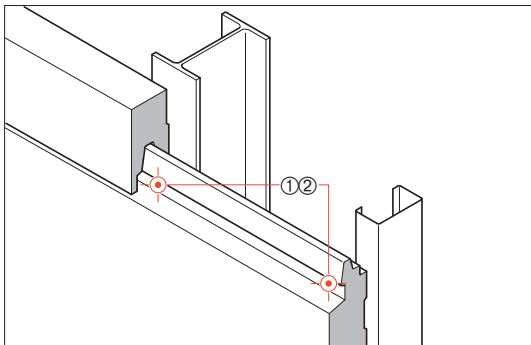
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	3
2	SL2-T	-	■	-	4
2	SLP2-S	●	-	-	4
3	SD	-	■	-	4
3	SDP	-	■	-	4

Composite wall panel to steel and timber rails



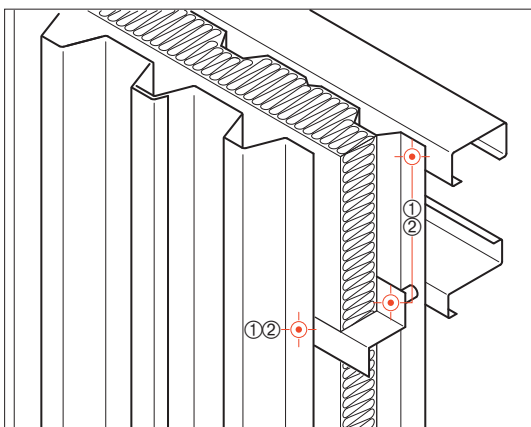
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SXC	●	-	-	6
2	SXCP	●	-	-	6
3	SDT	-	■	-	7
4	SDTP	-	■	-	7

Concealed fixing of composite wall panels to steel rails



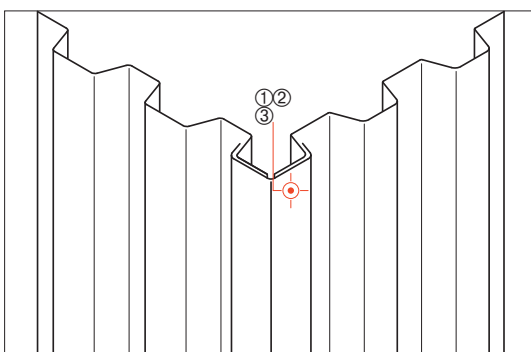
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	6
1	SXC	●	-	-	6
2	SD	-	■	-	7
2	SDT	-	■	-	7

Built-up construction using ferrules and zed bars



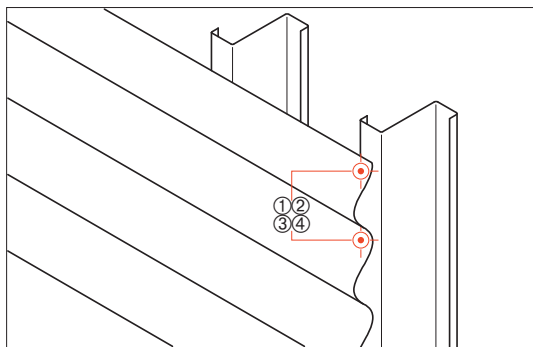
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	4
2	SD	-	■	-	4
2	SDP	-	■	-	4

Side lap stitching and flashing



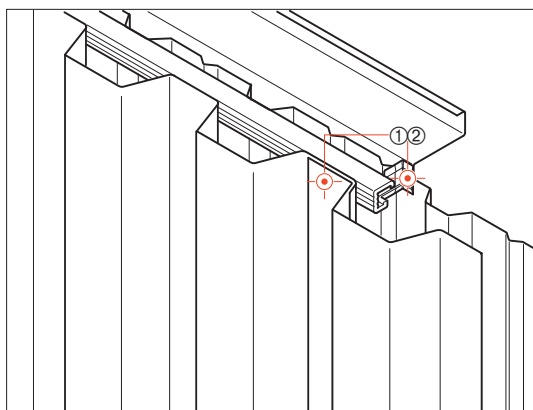
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SL2-S	●	-	-	3
1	SLP2-S	●	-	-	3
1	SL2-T	-	■	-	4
2	ATO	●	■	▲	10
3	RV6604	-	-	▲	5 / 10

Architectural profiled sheet to steel rails



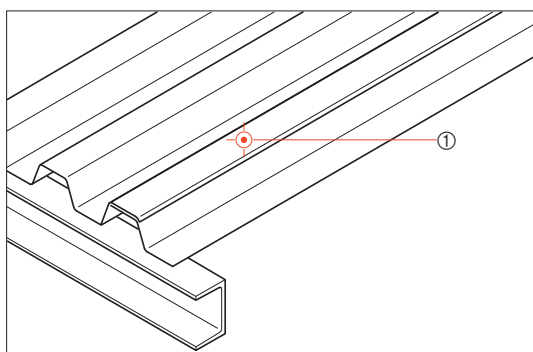
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	11
2	SXP	●	-	-	11
3	SD	-	■	-	4
4	SDP	-	■	-	4

Twin skin construction to steel



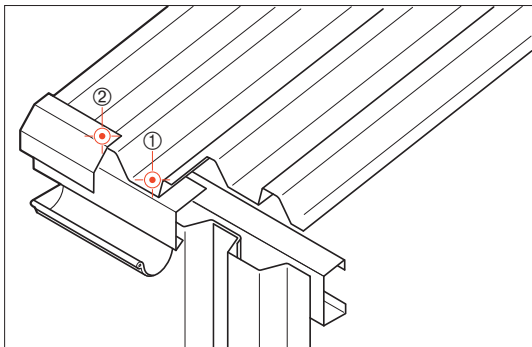
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	3
2	SD	-	■	-	4
2	SDP	-	■	-	4

Side lap stitching GRP and PVC



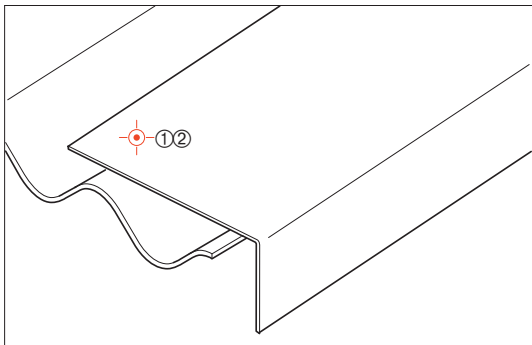
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	LL-S	●	-	-	9
1	LLP-T	-	■	-	9

Side lap stitching profile metal sheet



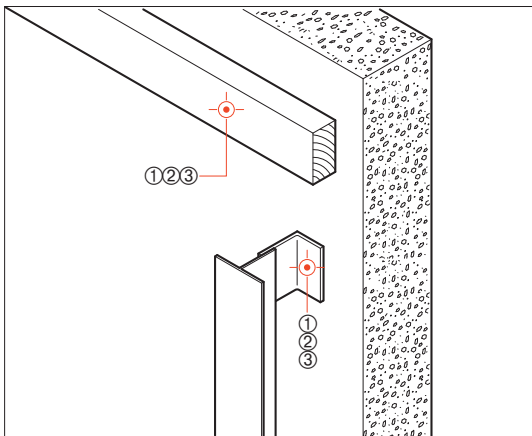
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	3
1	SXP	●	-	-	3
2	SL2-S	●	-	-	3
2	SLP2-T	-	■	-	4

Side lap stitching fibre cement sheet



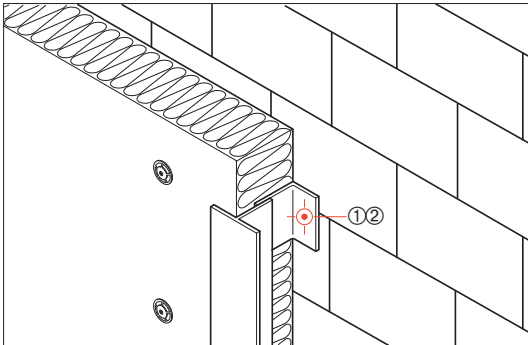
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	HG-S	●	-	-	9
2	HG-T	-	■	-	9

Wood, aluminium or steel framework to concrete



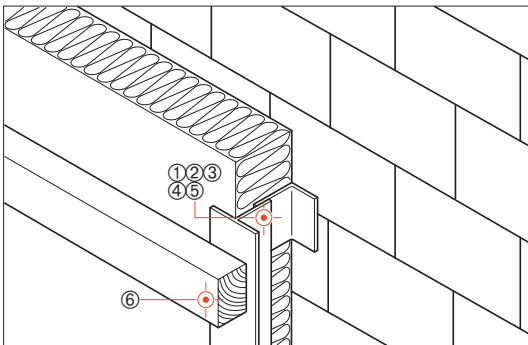
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TI-T	-	■	-	11
2	MBR	●	-	-	11
3	MBRK	●	-	-	11

Aluminium or steel framework to brickwork



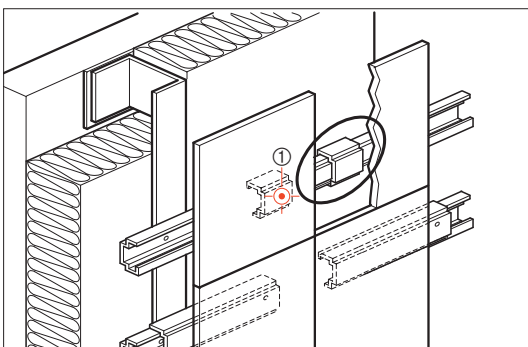
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	MBR	●	-	-	11
2	MBK	●	-	-	11

Aluminium or steel framework



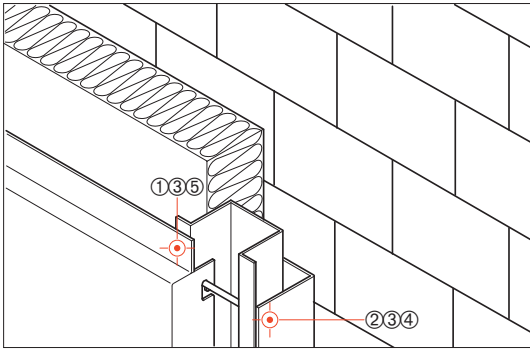
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SDA	●	-	-	11
2	SLA	●	-	-	11
3	ASO	-	-	▲	10
4	RV6604	-	-	▲	10
5	SX	●	-	-	11
6	SDA3	●	-	-	11

Blind attachment of HPL panels



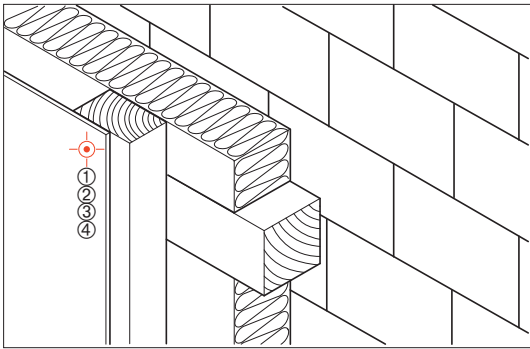
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TU-S	●	-	-	11

Aluminium sections to aluminium framework



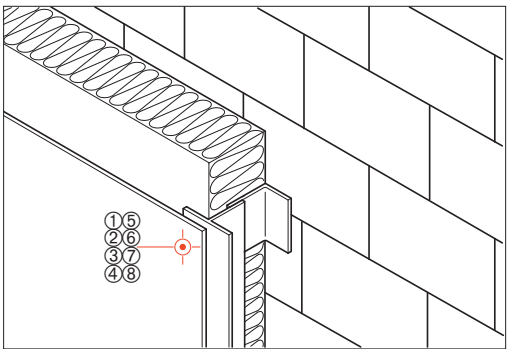
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	RV6604	-	-	▲	10
2	SDA	●	-	-	11
3	ASO	-	-	▲	10
4	SLA	●	-	-	11
5	SX3	●	-	-	11

High performance cladding panel to timber batten



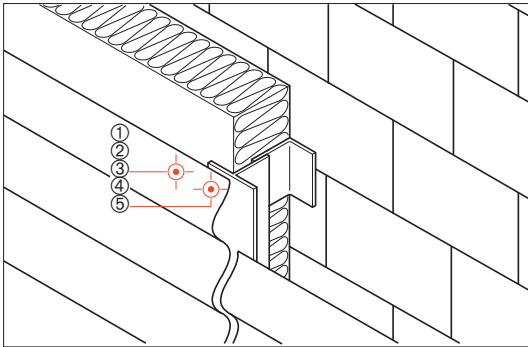
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	TW-A4	●	-	-	11
2	TW-S	●	-	-	11
3	SCFW-S	●	-	-	11
4	GAZ	●	-	▲	11

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
5	SDA	●	-	-	11
6	SLA	●	-	-	11
7	GAZ	●	-	▲	11
8	SX	●	-	-	11



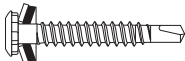
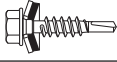





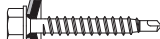


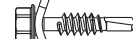

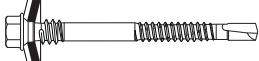
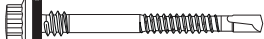
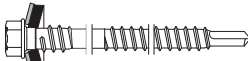


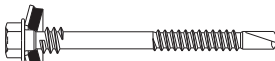
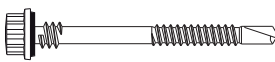
Architectural profile sheet to aluminium or steel structure

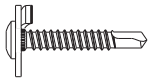
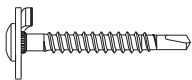
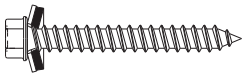
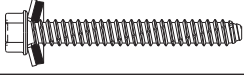
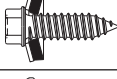

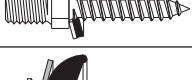
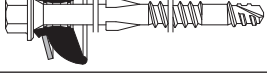
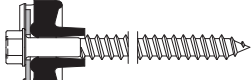
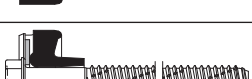
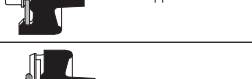

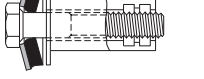
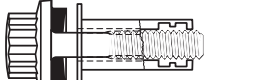
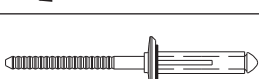
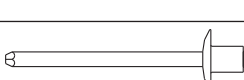
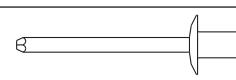



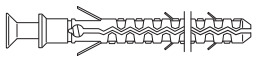






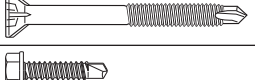
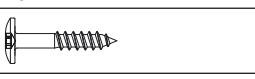
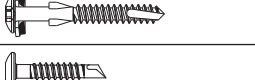
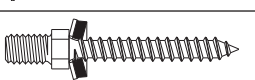
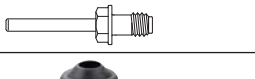





Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
1	SX	●	-	-	11
2	RV6604	-	-	▲	10
3	AP11	-	-	▲	11
4	AP14	-	-	▲	11
5	GAZ	●	-	▲	11

2 Product index

Pitched roofing and cladding

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
SX		●	-	-	3/5/6/11
SXP		●	-	-	3
SXW SW2-S SW-A		●	-	▲	3
SL2-S SL2-A		●	-	▲	3/4/6/7
SLP2-S SLP2		●	■	-	3/4
SD		-	■	-	4/7
SDP		-	■	-	4
SDL		-	■	-	4
SD-H15		-	■	-	4
SW-T SW3-T		-	■	-	4
SL2-T SL		-	■	-	4/7
SC/SCS SCN2		-	■	-	4
SL3-S		●	-	-	5
SDK2-S SDK3-S		●	-	-	5
SXC		●	-	-	6
SXCP		●	-	-	6
SXCW		●	-	-	6
SD2-S-D7 SD2-S-S10/T20		●	-	-	6/11
SX-D10-S19/C9		●	-	-	6
SDT		-	■	-	7
SDTP		-	■	-	7

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium	
SD-D10-T19/C9		-	■	-	7
SW-D10-T19/C9		-	■	-	7
TDA-S TDA-T		●	■	-	5/8
TDB-S TDB-T		●	■	-	5/8
TDC-S/TDC-T		●	■	-	5/8
TDBL-T		-	■	-	8
GA-AS GA-BS		●	-	-	8
SCFW SCFW-S		●	■	-	9
TDA-S-BAZ		●	-	-	9
TDB-S-BAZ		●	-	-	9
HG-S HG-T		●	■	-	9
LL-S		●	-	-	9
LLP-T		■	-	-	9
RV6604 RV6603 RV6605		-	-	▲	5/10
ATO, ASO TTO, SSO, ATOM		●	■	▲	10/11
ATC, ASC SSC, AAC		●	-	▲	10
AP		-	-	▲	11
TI		-	■	-	11

Type	Description	Material			Chapter
		Stainles steel	Carbon steel	Plastic	
MBR MBRK		●	-	-	11
MDD		-	-	●	11
MDD-S		-	-	●	11
MDS		-	-	●	11
MDP		-	-	●	11
MIDS, MIDSr		●	■	-	11
SLA		●	-	-	11
SDA		●	-	-	11
SN		●	-	-	11
TW-S TW-A4		●	-	-	11
SCFW-S		●	-	-	11
SDF2-S		●	-	-	11
GA-AS GA-BS		●	-	-	11
TU-S		●	-	-	11
MF MF-R		-	-	-	13
Butyl PVC tape		-	-	-	13
Silicone Sealant		-	-	-	13

2

Type	Description	Material			Chapter
		Stainles steel	Carbon steel	Aluminium	
CF 55		-	-	-	12
CF 40		-	-	-	12
DI 650		-	-	-	12
DB 620		-	-	-	12
AccuBird® Power Bird®		-	-	-	12
BF414 BF419		-	-	-	12
Lazy tongs RM-25 Lever tool RM-20		-	-	-	12
HSS		-	■	-	8/9/10
SDS		-	■	-	11

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Applications	Product code	Page
Sheet to steel structure	SX / SXP	▶ 3.3
Sheet to timber structure	SXW / SW2-S SW-A	▶ 3.8
Side lap clamping	SL2-S / SLP2-S SL2-A	▶ 3.11



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

Quality demands in 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 the construction industry is a new range of austenitic stainless steel fasteners. 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 steel like S355
- Fully tested by leading OEM's
- Complete system solutions with fully matched installation tools
- A wide range of fasteners to fix every application
- Maintenance free
- Available in any coloured heads
- 25 year warranty:
austenitic stainless steel fasteners
pink strip air sealing butyl



Fast drilling 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.



Reduced wastage with increased aesthetics 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 colour matched.

SX / SXP



3

Technical information

Applications

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

Material

Fastener

- SX / SXP
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

- S = Stainless steel, grade AISI 304
(European Standard 1.4301)

Drill point

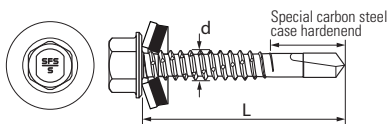
- Case hardened, special
carbon steel

Coloured fastener

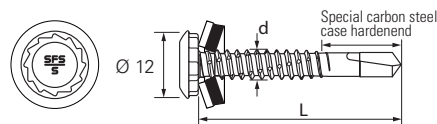


- Coloured fasteners available.
Colour heads are achieved
through powder coating.

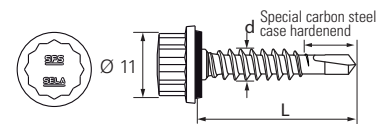
HD headform / drive

■ *irius*® Ø 12 mm

■ Hexagon 8 mm A/F



■ Sela 11 mm A/F



Washer recommendation



Ø 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



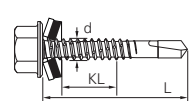

- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

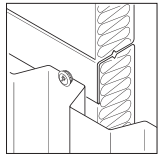
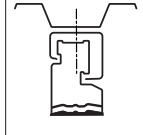
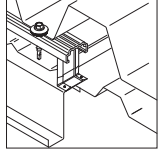

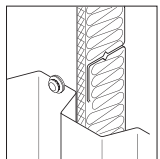
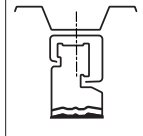
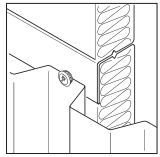
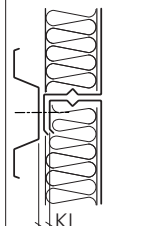
E420 / E380 / E311



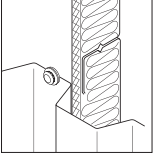
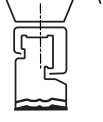
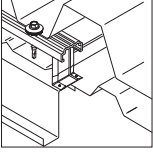
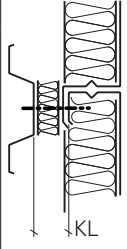
- The setting tool is required for
installing self drilling fasteners with
the *irius*® system and the hexagon
head.

Order information

	irus® Ø 12 mm	Hexagon 8 mm A/F	Sela 11 mm A/F	 Coloured fastener	W: Washer material S Stainless Steel	* Select Washer Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm						

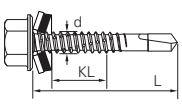

Applications	Product	Order code								KL	Application range	
		SX	3/	9-	L12-	S16-	6,0x	29				
	● Stainless steel	SX	3/	9-	L12-	S16-	6,0x	29		9		VD max. steel: 3,0 mm
	● Stainless steel	SX	3/	9-		S16-	6,0x	29*		9		t min. steel: 2 x 0,63 - 0,9 mm t max. steel: 2,5 mm t min. alu: 1,0 mm
	● Stainless steel	SXP	3/	12-		S16-	6,0x	35		12		VD max. steel: 3,0 mm
												t min. steel: 2 x 0,63 - 0,9 mm t min. alu: 1,0 mm

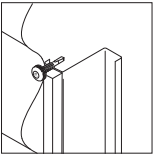
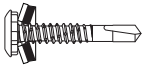
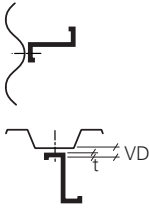
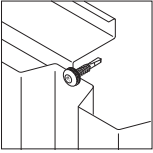


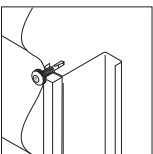
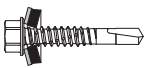
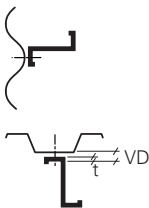
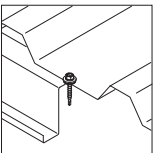
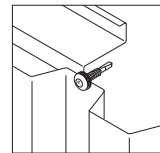
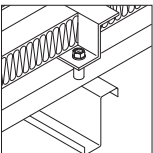
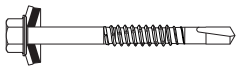
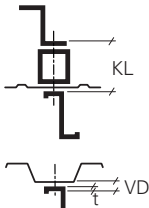
* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

Applications	Product	Order code								KL	Application range
		SX	3/	15-	L12-	S16-	6,0x	40			
		Type	VD	KL	HD	W*	d	L			
	● Stainless steel	SX	3/	15-	L12-	S16-	6,0x	40	15		VD max. steel: _____ 3,0 mm
	● Stainless steel	SX	3/	9-		S16-	6,0x	29*	9*		t min. steel: _____ 2 x 0,63 - 0,9 mm
		SX	3/	15-		S16-	6,0x	40	15		t max. steel: _____ 2,5 mm
		SX	3/	20-		S16-	6,0x	50	20		t min. alu: _____ 1,0 mm

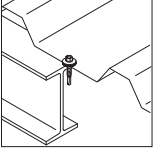
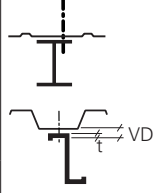
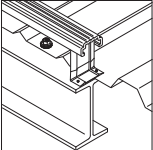

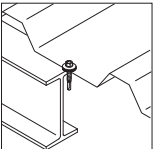
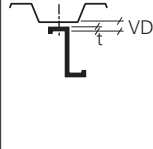
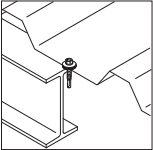
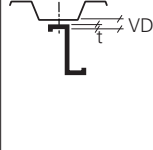
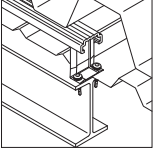
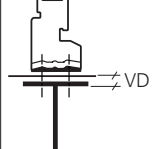
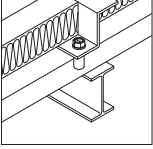
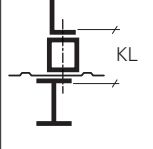
* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

Order information

	irus® Ø 12 mm	Hexagon 8 mm A/F	Sela 11 mm A/F	 Coloured fastener	W: Washer material S Stainless Steel	* Select Washer Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>						

Applications	Product	Order code							KL	Application range	
		SX	5/	8-	L12-	S16-	5,5x	33			
		● Stainless steel	SX	5/	8-	L12-	S16-	5,5x	31	8	 <p>VD max. steel: _____ 5,0 mm</p> <p>t min. steel: _____ 1,5 mm</p> <p>t max. steel: _____ 4,0 mm</p>
		SX	5/	12-	L12-	S16-	5,5x	35	12		
		SX	5/	18-	L12-	S16-	5,5x	41	18		
		SX	5/	38-	L12-	S16-	5,5x	61	38		
		SX	5/	55-	L12-	S16-	5,5x	78	55		
		● Stainless steel	SXP	5/	8-		S16-	5,5x	31	8	 <p>t min. alu: _____ 2,0 mm</p> <p>t max. alu: _____ 4,0 mm</p>
		● Stainless steel	SX	5/	8-		S16-	5,5x	31*	8	 <p>VD max. steel: _____ 5,0 mm</p> <p>t min. steel: _____ 1,5 mm</p> <p>t max. steel: _____ 4,0 mm</p>
		SX	5/	12-		S16-	5,5x	35*	12		
		SX	5/	18-		S16-	5,5x	41	18		
		SX	5/	38-		S16-	5,5x	61	38		
											<p>t min. alu: _____ 2,0 mm</p> <p>t max. alu: _____ 4,0 mm</p>
		● Stainless steel	SX	5/	30-		S16-	5,5x	52	20 - 30	 <p>VD max. steel: _____ 5,0 mm</p> <p>t min. steel: _____ 1,5 mm</p> <p>t max. steel: _____ 4,0 mm</p>
		SX	5/	55-		S16-	5,5x	78	15 - 55		
		SX	5/	70-		S16-	5,5x	93	30 - 70		
		SX	5/	85-		S16-	5,5x	108	45 - 85		
		SX	5/	115-		S16-	5,5x	138	75 - 115		
										<p>t min. alu: _____ 2,0 mm</p> <p>t max. alu: _____ 4,0 mm</p>	

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

Applications	Product	Order code								KL	Application range
		Type	VD	KL	HD	W*	d	L	KL		
	● Stainless steel	SX	14/	12-	L12-	S16-	5,5x	40	12		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm
	● Stainless steel	SX	14/	12-		S16-	5,5x	40*	12		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm
	● Stainless steel	SXP	14/	12-		S16-	5,5x	40	12		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm
	● Stainless steel	SX	14/	20- 38- 58- 75-		S16-	5,5x	48 66 86 103	20 38 58 75		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm
	● Stainless steel	SX	14/	12- 20-			5,5x	40* 48	12 20		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm
	● Stainless steel	SX	14/	38- 58- 75-			5,5x	66 86 103	38 58 75		VD max. steel: 14,0 mm t min. steel: 4,0 mm t min. alu: 5,0 mm

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

SXW / SW2-S / SW-A



Technical information

Applications

Austenitic 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

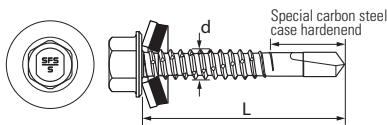
Coloured fastener



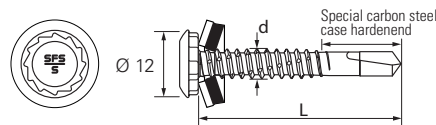
Coloured fasteners available.
Colour heads are achieved
through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- **irus**[®] Ø 12 mm



Washer recommendation



Ø 16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



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

E420 / E380



- The setting tool is required for
installing self drilling fasteners with
the **irus**[®] system and the hexagon
head.

Order information

	irus® Ø 12 mm	Hexagon 8 mm A/F		Coloured fastener	W: Washer material S Stainless Steel A Aluminium	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>						

Applications	Product	Order code						KL	Application range
		SXW-	L12-	S16-	6,5x	50			
	● Stainless steel	SXW-	L12-	S16-	6,5x	50			VD max. steel: 2 x1,0 mm
	● Stainless steel	SXW-		S16-	6,5x	50			
	● Stainless steel	SXW-	L12-	S16-	5,5x	44			VD max. steel: 2 x1,0 mm
	● Stainless steel	SXW-		S16-	5,5x	44			
	● Stainless steel	SW2-S-		A14-	4,8x	35			VD max. steel: 2 x0,9 mm
	▲ Aluminium	SW-A-		A19-	6,0x	35			VD max. alu: 3 x0,7 mm 2 x0,9 mm
									Only for aluminium sheet

The secure and speedy way to clamp sidelaps.

The SL self drilling fastener range, specially developed for clamping profile sheets together.

The unique features of this fastener ensures the pink sidelap butyl is compressed first time and every time to ensure an airtight building.

The impressive airtight features of the SL clamping fastener



- Purposed designed
- To work everytime
- 100 % functionality from start to finish
- 3 mm 40 thick shore EPDM washer ensure effective weather sealing
- Colour matched to colour of the profile sheet



Self drilling fasteners for fast, efficient clamping

These fasteners are designed specifically for their application and offer a range of benefits.

The optimum clamping strength results from careful matching of the drill point to the thread diameter. Moreover, the special under-head design prevents over-torquing as well as unwinding under dynamic loads. 3 mm thick 40 shore EPDM washer seals around the fastener to provide an air and water-tight solution.



SL2-S / SLP2-S / SL2-A



Technical information

Applications

Austenitic 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 / SLP2-S
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301)
- 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

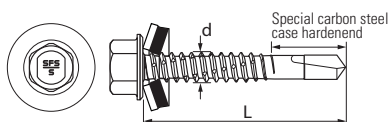
Coloured fastener



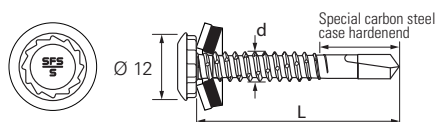
- Coloured fasteners available. Colour heads are achieved through powder coating.

HD headform / drive

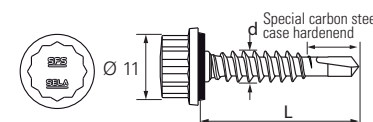
- Hexagon 8 mm A/F



- **irus**® Ø 12 mm



- Sela 11 mm A/F



Accessories

DI 650



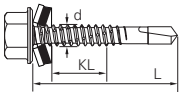

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

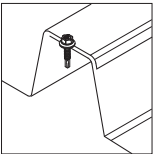

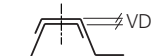

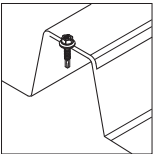
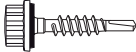
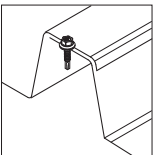
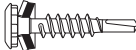


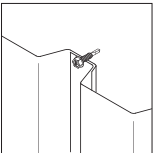
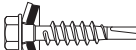
E420 / E380 / E311



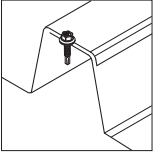
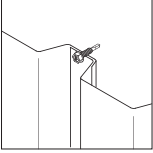
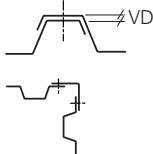
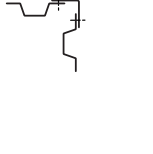
- The setting tool is required for installing self drilling fasteners with the **irus**® system and the hexagon head.

Order information

	Hexagon 8 mm A/F	Sela 11 mm A/F	<i>irus</i> [®] Ø 12 mm	 Coloured fastener	W: Washer material S Stainless Steel A Aluminium
VD max. drill capacity KL effective thread 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	Order code						KL	Application range
		Type	HD	W*	d	L			
	● Stainless steel 	SL2-S-		S14-	4,8x	22		 VD max. steel: <u> </u> 2 x1,0 mm  t min. steel: <u> </u> 2 x0,4 mm Only for steel sheet	
		SL2-S-		S14-	5,5x	27*			
	● Stainless steel 	SLP2-S-		S14-	5,5x	27		VD max. steel: <u> </u> 2,0 mm t min. steel: <u> </u> 2 x0,4 mm t max. steel: <u> </u> 2 x1,0 mm Only for steel sheet	
	● Stainless steel 	SL2-S-	L12-	S14-	6,3x	28		 VD max. steel: <u> </u> 2 x1,0 mm  t min. steel: <u> </u> 2 x0,4 mm	
		SL2-S-		S16-	6,3x	28			
	● Stainless steel 	SL2-S-		S16-	6,3x	28			

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

Applications	Product	Order code						KL	Application range
		SL2-A-	HD	W*	d	L	A14- 5,5x 20		
 	▲ Aluminium	SL2-A-		A14-	5,5x	20		  Only for aluminium sheet	VD max. alu: 2,0 mm t min. alu: 2 x0,4 mm t max. alu: 2 x0,9 mm

4

Applications	Product code	Page
Sheet to steel structure	SD / SDP SDL	▶ 4.2
Metal deck to steel structure	SD-H15 / SD	▶ 4.6
Sheet to timber structure	SW-T / SW3-T	▶ 4.9
Side lap clamping	SL2-T / SD SDL / SL SL-H15 / SLP	▶ 4.13
Timber to steel	SC / SCN SCS	▶ 4.16



SD / SDP / SDL



Technical information

4

Applications

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

Material


Fastener

- SD / SDP / SDL
Plated carbon steel, case hardened

Washer

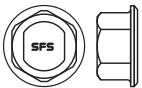
- T = Steel zinc plated with vulcanised EPDM

Coloured fastener

-  Coloured fasteners available. Colour heads are achieved through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- Sela 11 mm A/F



- *irus* Ø 12 mm



Washer recommendation



Ø 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



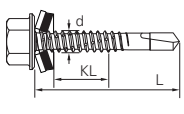

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

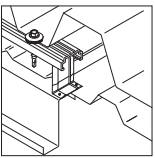
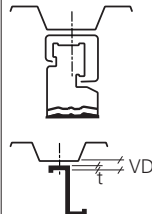
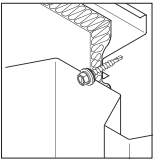
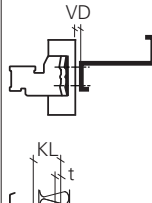
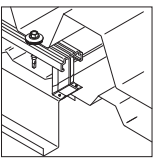
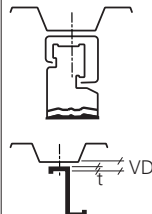
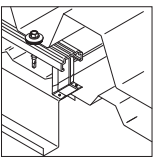
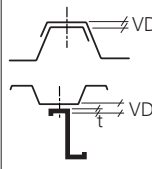
E420 / E380 / E311



- The setting tool is required for installing self drilling fasteners with the *irus*[®] system and the hexagon head.

Order information

	Hexagon 8 mm A/F	Sela 11 mm A/F	<i>irus</i> [®] Ø 12 mm		W: Washer material T Carbon Steel	* Select Washer Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm						

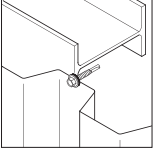
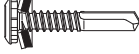
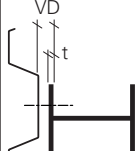
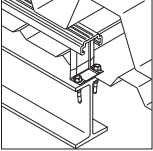

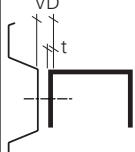
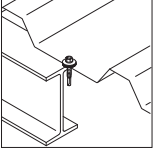

Applications	Product	Order code							KL	Application range		
		SD	3-	T15-	5,5x	25						
	■ Carbon steel	SD	3-	T15-	5,5x	25			10		VD max. steel: _____	
		SD	3-	T16-	6,3x	25					7	t min. steel: _____
	■ Carbon steel	SD	3-	T15-	5,5x	32			12		VD max. steel: _____	
		SD	3-	T15-	5,5x	38					15	t min. steel: _____
	■ Carbon steel	SDP	3-	T16-	5,5x	25			8		VD max. steel: _____	
		SDP	3-	T16-	5,5x	32					12	t min. steel: _____
		SDP	3-	T16-	5,5x	38					15	t max. steel: _____
	■ Carbon steel	SDL	3-	L12-	T15-	5,5x	25		8		VD max. steel: _____	
										t min. steel: _____		
										1,2 -2 x0,63 cm		
										Dual purpose fastener		

Order information

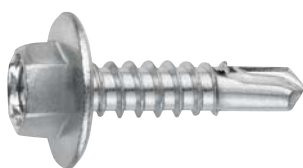
	Hexagon 8 mm A/F	Sela 11 mm A/F	<i>irus</i> [®] Ø 12 mm		W: Washer material T Carbon Steel	* Select Washer Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm						

4

Applications	Product	Order code							KL	Application range
		SD	5-	HD	T15-	5,5x	25	25		
 	■ Carbon steel	SD	5-		T15-	5,5x	25	12	 VD max. steel: <u> </u> 5,0 mm t min. steel: <u> </u> 1,5 mm	
	■ Carbon steel	SD	8-	L12-	T15-	5,5x	25	8	 VD max. steel: <u> </u> 8,0 mm t min. steel: <u> </u> 2,0 mm	
	■ Carbon steel	SD	8-		T15-	5,5x	25	8		

Applications	Product	Order code							KL	Application range
		SD	14-	L12-	T15-	5,5x	32			
	 <p>■ Carbon steel</p>	SD	14-	L12-	T15-	5,5x	32	13	 <p>VD max. steel: _____ 14,0 mm</p> <p>t min. steel: _____ 4,0 mm</p>	
		SD	14-		T15-	5,5x	32			13
		SD	14-		T15-	5,5x	46			
	 <p>■ Carbon steel</p>	SD	14-		T15-	5,5x	56	5 - 35		
		SD	14-		T15-	5,5x	66			15 - 45
		SD	14-		T15-	5,5x	76			
		SD	14-		T15-	5,5x	86			35 - 65
			 <p>■ Carbon steel</p>	SD	14-		T15-			
SDP	14-				T16-	5,5x	36			

SD-H15 / SD



Technical information

4

Applications

Fastening 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 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



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

E380



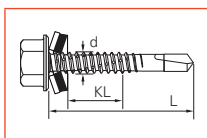

- The setting tool is required for installing self drilling fasteners with the hexagon head.

Order information

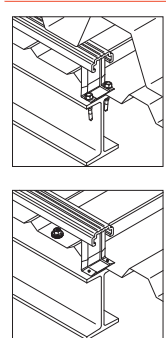
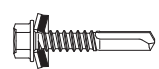
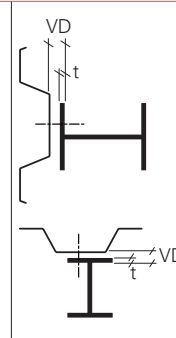
	Hexagon 8 mm A/F 	W: Washer material	* Select Washer
		T Carbon Steel	Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm			

Applications	Product	Order code							KL	Application range
		Type	VD	HD	W*	d	L			
	■ Carbon steel 	SD	5-	H15-		5,5x	22	12	 VD max. steel: _____ 5,0 mm t min. steel: _____ 1,5 mm	
	■ Carbon steel 	SD	8-	H15-		5,5x	25	9	 VD max. steel: _____ 8,0 mm t min. steel: _____ 2,0 mm	
	■ Carbon steel 	SD	14-	H15-		5,5x	32	14	 VD max. steel: _____ 14,0 mm t min. steel: _____ 4,0 mm	
	■ Carbon steel 	SD	3-	T15-		5,5x	25	10	 VD max. steel: _____ 3,0 mm t min. steel: _____ 1,2 mm t max. steel: _____ 3,0 mm	
	■ Carbon steel 	SD	8-	T15-		5,5x	25	8	 VD max. steel: _____ 8,0 mm t min. steel: _____ 2,0 mm	

Order information

	<p>Hexagon 8 mm A/F</p> 		<p>W: Washer material * Select Washer</p> <p>T Carbon Steel Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights</p>
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>			

4

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

SW-T / SW3-T



Technical information

Applications

Fastening profile steel sheeting to timber in one operation.

Material

Fastener

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

Washer

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

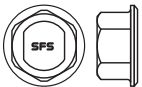
Coloured fastener



Coloured fasteners available. Colour heads are achieved through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



Washer recommendation



Ø 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



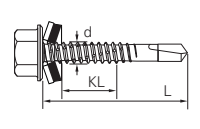


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

E380

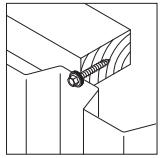

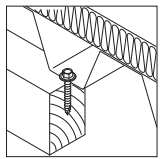
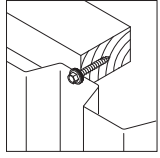
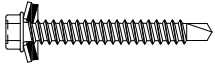
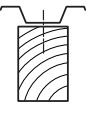


- The setting tool is required for installing self drilling fasteners with the hexagon head.

Order information

	<p>Hexagon 8 mm A/F</p> 	 Coloured fastener	<p>W: Washer material * Select Washer</p> <p>T Carbon Steel Ø 15-16 mm for cladding A Aluminium Ø 19 mm for roofing Ø 32 mm for rooflights</p>
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>			

4

		Order code				KL	Application range
Applications	Product	SW-T-	A14-	4,8x	35		
	<p>■ Carbon steel</p> 	SW-T-	A14-	4,8x	35		<p>VD max. steel: 1 x1,0 mm 4 x0,75 mm</p>
 	<p>■ Carbon steel</p> 	SW3-T-	T16-	6,5x	50		<p>VD max. steel: 2 x1,25 mm 4 x0,75 mm</p>

The secure and speedy way to clamp sidelaps.

The SL self drilling fastener range, specially developed for clamping profile sheets together.

The unique features of this fastener ensures the pink sidelap butyl is compressed first time and every time to ensure an airtight building.

The impressive airtight features of the SL clamping fastener

4



- Purposed designed
- To work everytime
- 100 % functionality from start to finish
- 3 mm 40 thick shore EPDM washer ensure effective weather sealing
- Colour matched to colour of the profile sheet



Self drilling fasteners for fast, efficient clamping

These fasteners are designed specifically for their application and offer a range of benefits.

The optimum clamping strength results from careful matching of the drill point to the thread diameter. Moreover, the special under-head design prevents over-torquing as well as unwinding under dynamic loads. 3 mm thick 40 shore EPDM washer seals around the fastener to provide an air and water-tight solution.



SL2-T / SD / SDL / SL / SL-H15 / SLP



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 control.

Material

Fastener

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

Washer

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

Drill point

- Case hardened, special carbon steel

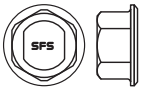
Coloured fastener



Coloured fasteners available. Colour heads are achieved through powder coating.

HD headform / drive

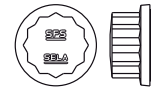
- Hexagon 8 mm A/F



- **irus**[®] Ø 12 mm



- Sela 11 mm A/F



Accessories

DI 650



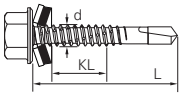

- Lightweight power screwgun for installing self drilling and self tapping fasteners.

E420 / E380

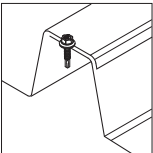

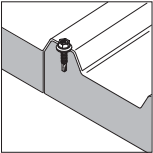
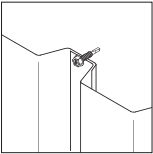
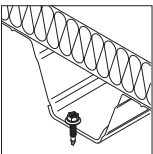
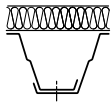
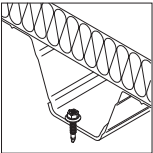
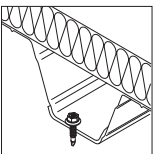
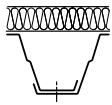


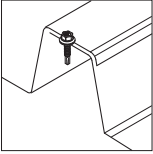
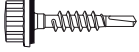

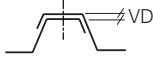

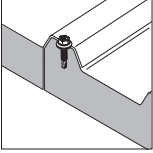
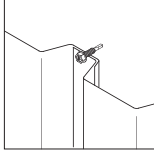
- The setting tool is required for installing self drilling fasteners with the **irus**[®] system and the hexagon head.

Order information

	Hexagon 8 mm A/F	<i>irus</i> [®] Ø 12 mm	Sela 11 mm A/F	 Coloured fastener	W: Washer material T Carbon Steel A Aluminium
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm					

4

Applications	Product	Order code							KL	Application range	
		SL	2-T-	A14-4,8x	20	VD	HD	W*			d
	■ Carbon steel	SL	2-T-	A14-4,8x	20						 VD max. steel: _____ 2 x1,0 mm t min. steel: _____ 2 x0,4 mm
		SD	3-	T16-6,3x	25					7	
	■ Carbon steel	SDL	3-	L12-T15-5,5x	25						8
											
	■ Carbon steel	SL	2-	4,8x	20						 VD max. steel: _____ 2,0 -2 x1,0 mm t min. steel: _____ 2 x0,6 mm Only for steel sheet
	■ Carbon steel	SL	2- H15-	6,3x	20						
	■ Carbon steel	SL	3- H15-	6,3x	32						 VD max. steel: _____ 3,0 -2 x1,5 mm t min. steel: _____ 2 x1,1 mm For high sheer load

Applications	Product	Order code							KL	Application range
		SLP	2-	A14- 4,8x		20				
		Type	VD	HD	W*	d	L			
	<p>■ Carbon steel</p> 	SLP	2-		A14-	4,8x	20		 <p>VD max. steel: _____ 2,0 mm</p>  <p>t min. steel: _____ 2 x0,4 mm</p>  <p>t max. steel: _____ 2 x1,0 mm</p> <p>Only for steel sheet</p>	
		SLP	3-		T16-	8,0x	30			
										

SC / SCN / SCS



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 / SCN
Plated carbon steel, case
hardened
- SCS
Austenitic stainless steel

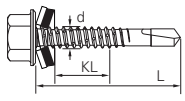
Accessories

DI 650



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

Order information



VD max. drill capacity | KL effective thread 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	Order code							KL	Application range	
		SC	3/	25-	PH2-	4,8x	35				
	■ Carbon steel 	SC	3/	25-	PH2-	4,8x	35	25		VD max. steel: _____	
		SC	3/	35-	PH2-	4,8x	45			35	t min. steel: _____
		SC	3/	55-	PH2-	4,8x	65			55	1,0 mm
	■ Carbon steel 	SC	5/	31-	DS12-	5,5x	45	31		VD max. steel: _____	
		SC	5/	36-	DS12-	5,5x	50			36	t min. steel: _____
		SC	5/	46-	DS12-	5,5x	60			46	1,5 mm
		SC	5/	66-	DS12-	5,5x	80			66	
		SC	5/	101-	DS12-	5,5x	115			45 - 101	
	■ Carbon steel 	SCN	2/	25-	SR2-	4,2x	38	10 - 25		VD max. steel: _____	
		SCN	2/	57-	SR2-	4,2x	70			40 - 57	t min. steel: _____
	● Stainless steel 	SCS	3/	27-7982/PH2-	4,8x	42		t max. steel: _____			
		SCS	3/	57-7982/PH2-	4,8x	72				2 x 0,7 mm	
											2 x 1,0 mm

5

Applications	Product code	Page
Halters and clips to steel or timber structure	SDK-S / SX SL3-S / TDA-S TDB-S / TDC-S	▶ 5.3
Aluminium halters to aluminium and steel decks	RV6604	▶ 5.6



Easy installation of halters for standing seam roofs.

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

Purpose designed fasteners that are user friendly, giving easy installation are key to installing these systems initially and for the duration of the building life.

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

The impressive features of SDK fasteners



- Fully tested and approved by the leading standing seam manufacturers
- 100 % reliability during installation
- Complete system with purpose designed DS-K setting tool
- Maintenance free fastener
- Full range of fasteners for all substrates
- 25 year warranty



Secure, efficient fixing of halters to metal decks

With their propensity to over-driving and unwinding, conventional fasteners are inappropriate for fixing into metal decks. Using SDK fasteners, over driving and subsequent failure is simply not possible.

A completely thought-through system

The SDK fastener with its square drive is held in a special drive bar. When the fastener reaches a pre-determined torque the peg snaps-off, ensuring the fastener is installed correctly. Extensive laboratory tests have proven that the connection to metal deck can withstand high dynamic loads without the risk of unwinding giving you extra security and peace of mind.



SDK-S / SX / SL3-S / TDA-S / TDB-S / TDC-S



Technical information

Applications

Fastening halters and clips to steel and timber structure.

Material

Fastener

- SDK-S / SX / SL3-S
TDA-S / TDB-S / TDC-S
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

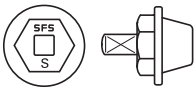
- **A** = Aluminium with vulcanised
EPDM
- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

Drill point

- Case hardened, special carbon
steel

HD headform / drive

- Special SDK head



- Hexagon 8 mm A/F



- Low profile Ø 12 mm



Accessories

DI 650



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

DS-K185 / DS-K265



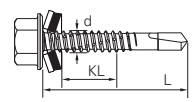



- The DS-K185 / DS-K265 setting
tool is required for installing SDK
fasteners.

E380 / Tx25

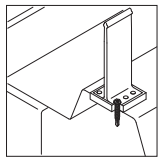

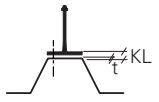
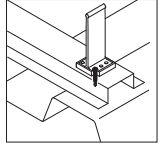

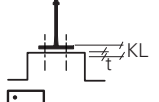
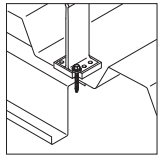

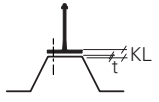
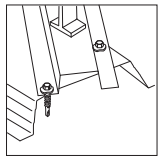
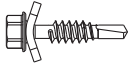



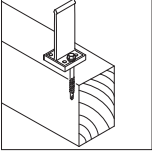
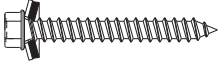
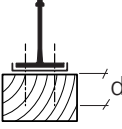

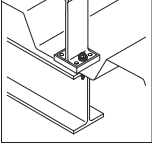
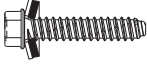
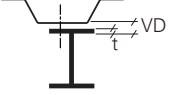
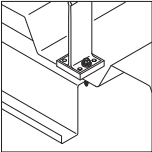
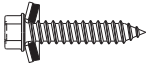
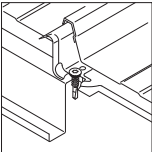

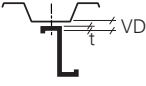
- The setting tool is required for
installing self drilling fasteners
with the hexagon head.

Order information

	Special SDK head 	Hexagon 8 mm A/F 	Low profile Ø 12 mm 		W: Washer material S Stainless Steel A Aluminium
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>					

5

Applications	Product	Order code							KL	Application range
		SDK Type	VD	KL	HD	W*	d	L		
	● Stainless steel 	SDK	2-S-	377-		6,0x	35	6	- 18	 VD max. steel: <u> </u> 1,25 mm VD max. alu: <u> </u> 2,5 mm t min. steel: <u> </u> 0,63 mm t min. alu: <u> </u> 0,9 mm Hole: ø 6,1±0,1 Effective insertion depth [thread] min. 23 mm d = min. 30 mm drill-tip
		SDK	2-S-	377-		6,0x	45	6	- 28	
	● Stainless steel 	SDK	3-S-	377-		6,0x	30	6	- 13	 VD max. steel: <u> </u> 2,5 mm VD max. alu: <u> </u> 3,2 mm t min. steel: <u> </u> 1,6 mm t min. alu: <u> </u> 2,0 mm Hole: ø 6,1±0,1
		SDK	3-S-	377-		6,0x	45	6	- 28	
	● Stainless steel 	SX	2/	18-	A16-	5,8x	38	18		 VD max. steel: <u> </u> 3,0 mm t min. steel: <u> </u> 1,2 mm
		SX	2/	28-	A16-	5,8x	48	28		
	● Stainless steel 	SL	3/	2-5-S-	SV16-	6,0x	27	2	- 4	 VD max. steel: <u> </u> 3,0 mm VD max. alu: <u> </u> 4,8 mm t min. steel: <u> </u> 0,6 mm

Applications	Product	Order code							KL	Application range
		TDA-S-	VD	KL	HD	W*	d	L		
	<p>● Stainless steel</p> 	TDA-S-				S16-	6,5x	64	52	  <p>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins</p> <p>min. = 1,0 mm max. = 3,0 mm</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80</p>
		TDA-S-				S16-	6,5x	76	64	
	<p>● Stainless steel</p> 	TDB-S-				S16-	6,3x	32	22*	 <p>Determining overall fastener length L: thickness of all materials fastened KL+10 mm.</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5-3,0 4,90 3,1-5,0 5,30 5,1-10,0 5,80 > 10,0 5,90</p>
		TDB-S-				S16-	6,3x	38	28*	
		TDB-S-				S16-	6,3x	51	41*	
	<p>● Stainless steel</p> 	TDC-S-				S16-	6,3x	32	20	<p>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins</p> <p>min. = 1,0 mm max. = 3,0 mm</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80</p>
		TDC-S-				S16-	6,3x	38	26	
		TDC-S-				S16-	6,3x	51	39	
	<p>● Stainless steel</p> 	SX	5/	12-D12-		5,5x	35	12	 <p>VD max. steel: 5,0 mm t min. steel: 1,5 mm t max. steel: 4,0 mm t min. alu: 2,0 mm t max. alu: 4,0 mm</p> <p>Bit: T25W</p>	

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

RV6604

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.

Material

Fastener

- RV6604

Body: Aluminium AlMg5

Mandrel: Al Cu Mg 1

Washer

- EPDM

Accessories

AccuBird®



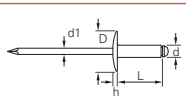
- For standard blind rivets 2 - 5 mm and for Bulb-tite® rivets 4 - 6,3 mm.

PowerBird®



- For standard blind rivets 4 - 7 mm and for Bulb-tite® rivets 7,7 mm.

Order information



d Rivet diameter in 1/32" | KL Grip range | W EPDM washer | d x L diameter / length | t thickness of structure | All measures in mm

Applications	Product	Order code				KL min. max.	d x L	Application range
		RV6604-	6-	3	W			
	▲ Aluminium 	Type	d	KL	W*			
		RV6604-	6-	3	W	0,5 - 4,7	5,2 x 17,5	Head diameter D: 11,5 mm Pilot hole: Ø 5,3 mm
		RV6604-	6-	4	W	1,5 - 6,3	5,2 x 19,1	
		RV6604-	6-	6	W	4,7 - 9,5	5,2 x 22,2	
		RV6604-	6-	8	W	8,0 - 12,7	5,2 x 25,4	
		RV6604-	6-	10	W	11,1 - 15,9	5,2 x 29,7	
		RV6604-	6-	12	W	14,3 - 19,0	5,2 x 31,8	
		RV6604-	6-	14	W	17,4 - 22,2	5,2 x 34,9	
		RV6604-	6-	16	W	20,6 - 25,4	5,2 x 38,1	
		RV6604-	6-	18	W	23,8 - 28,6	5,2 x 41,3	

RV 6604 - 6 - 3 W

- Type / Head Ø 11,5 mm
- Shank Ø in 1/32" = 5,2 mm
- KL max. in 1/16" = 4,7 mm
- Sealing element

Material code

Body: AlMg 5
Mandrel: AlCuMg 1

6

Applications	Product code	Page
Composite panel to steel substructure	SXC / SXCP SX	▶ 6.3
Composite panel to timber substructure	SXCW	▶ 6.7
Side lap clamping	SL2-S / SLP-S SX / SD2-S	▶ 6.11
Pre engineered insulated panel to substructure	SX-D10	▶ 6.14



Fast and comfortable fixing of composite panels.

An increasing awareness of environmental and energy issues and ever-tighter building regulations all mean that the operating environment in industrial construction is changing.

Using state-of-the-art composite 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



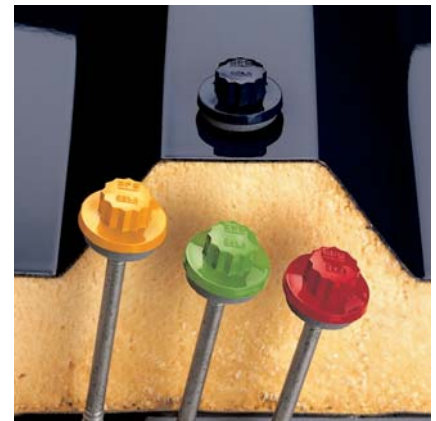
- Fast, efficient assembly using self-drilling fastening technology
- The right fastener for each individual substrate
- A complete system, featuring the CF 55 setting tool
- No need to swap setting tools, as one tool does everything
- A depth stop, coupled with sealing washer and special under-head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

6



Fixing composite panels in one operation

SFS intec SXC self drilling fasteners have been specially developed for composite panel systems. Dynamic stress caused by temperature changes, foot traffic or wind load simply won't affect fastener performance. The supporting top 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 and easy installation of the composite panel fastener. This is particularly useful where extremely long fasteners are required. The depth locator also inhibits dimpling of the sheet, as well as water ingress.



A multiplicity of colours

To meet the requirements of architectural aesthetics, SFS intec offers these fasteners in any colour. The tried and trusted sela heads accurately matches the exact colour of the composite panels being used.

SXCP / SXC / SX



Technical information

Applications

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

Material

Fastener

- SXCP / SXC / SX
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

Drill point

- Case hardened, special
carbon steel

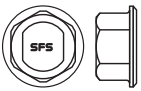
Coloured fastener



Coloured fasteners available.
Colour heads are achieved
through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- Sela 11 mm A/F



Washer recommendation



Ø 16 mm for cladding



Ø 19 mm for roofing



Ø 32 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 650



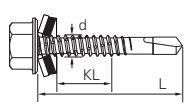



- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

E311 / E380 / Tx25-175

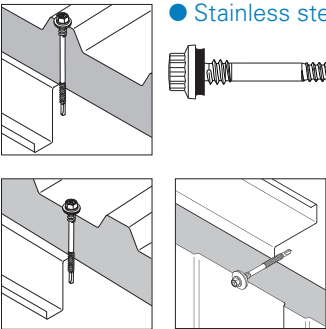
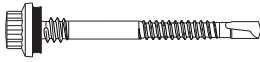

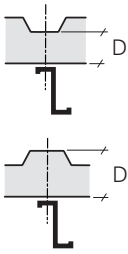
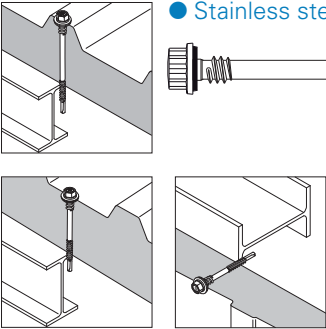
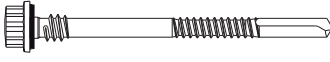

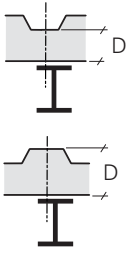


- The setting tool is required for
installing self drilling fasteners with
the sela head and the hexagon
head.

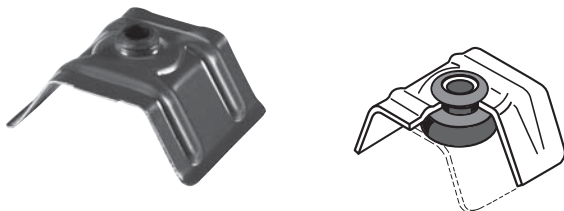
Order information

	Sela 11 mm A/F 	Hexagon 8 mm A/F 	 Coloured fastener	W: Washer material S Stainless Steel A Aluminium	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity D panel thickness HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm					

6

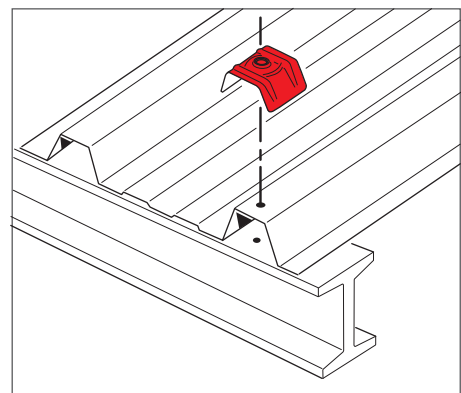
Applications	Product	Approval	Order code						D	Application range
			SXCP	5-	S19-	5,5x	82			
			SXCP 5-	S19- 5,5x	82	39 - 56		VD max. steel: <u> </u> 5,0 mm t min. steel: <u> </u> 1,5 mm		
			SXCP 5-	S19- 5,5x	92	49 - 66				
			SXCP 5-	S19- 5,5x	113	70 - 87				
			SXCP 5-	S19- 5,5x	133	90 - 107				
			SXCP 5-	S19- 5,5x	163	120 - 137				
			SXCP 5-	S19- 5,5x	193	129 - 167				
			SXCP 5-	S19- 5,5x	236	157 - 210				
			SXCP 5-	S19- 5,5x	261	182 - 235				
SXCP 5-	S19- 5,5x	286	207 - 260							
			SXCP 14-	S19- 5,5x	80	20 - 48		VD max. steel: <u> </u> 14,0 mm t min. steel: <u> </u> 4,0 mm		
			SXCP 14-	S19- 5,5x	99	39 - 67				
			SXCP 14-	S19- 5,5x	118	58 - 86				
			SXCP 14-	S19- 5,5x	138	85 - 106				
			SXCP 14-	S19- 5,5x	168	115 - 136				
			SXCP 14-	S19- 5,5x	193	115 - 160				
			SXCP 14-	S19- 5,5x	218	140 - 185				
			SXCP 14-	S19- 5,5x	243	165 - 210				
			SXCP 14-	S19- 5,5x	268	190 - 235				
			SXCP 14-	S19- 5,5x	293	215 - 260				

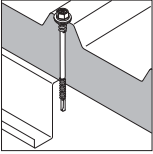

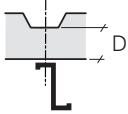
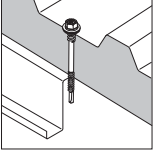
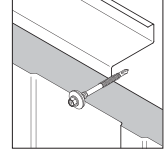
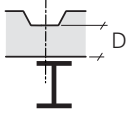
Saddle washer for Kingspan polycarbonate rooflight



Order code:

CA-Type-E-RAL 2002 poppy red

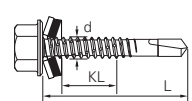




Applications	Product	Approval	Order code						D	Application range
			SXC	5-	S19-	5,5x	75			
 	● Stainless steel		SXC	5-	S19-	5,5x	75	29 - 47	 VD max. steel: _____ 5,0 mm t min. steel: _____ 1,5 mm	
			SXC	5-	S19-	5,5x	95	39 - 67		
			SXC	5-	S19-	5,5x	115*	59 - 87		
			SXC	5-	S19-	5,5x	135*	79 - 107		
			SXC	5-	S19-	5,5x	160*	94 - 132		
			SXC	5-	S19-	5,5x	185	119 - 157		
			SXC	5-	S19-	5,5x	210	144 - 182		
			SXC	5-	S19-	5,5x	235	169 - 207		
			SXC	5-	S19-	5,5x	270	199 - 237		
			SXC	5-	S19-	5,5x	300	229 - 267		
 	● Stainless steel		SXC	14-	S19-	5,5x	80	29 - 47	 VD max. steel: _____ 14,0 mm t min. steel: _____ 4,0 mm	
			SXC	14-	S19-	5,5x	100	39 - 67		
			SXC	14-	S19-	5,5x	120*	59 - 87		
			SXC	14-	S19-	5,5x	140	79 - 107		
			SXC	14-	S19-	5,5x	165	94 - 132		
			SXC	14-	S19-	5,5x	190	119 - 157		
			SXC	14-	S19-	5,5x	215	144 - 182		
			SXC	14-	S19-	5,5x	240	169 - 207		
			SXC	14-	S19-	5,5x	275	199 - 237		
			SXC	14-	S19-	5,5x	305	229 - 267		

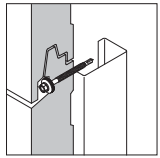
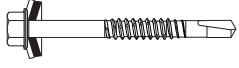
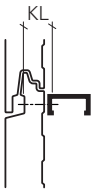
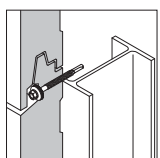

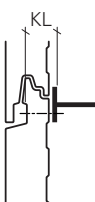
* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

SXCP / SXC / SX

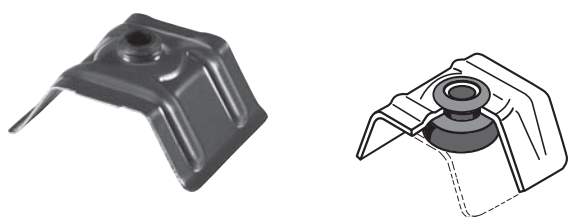
Order information

	Hexagon 8 mm A/F 	 Coloured fastener	W: Washer material S Stainless Steel A Aluminium	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity D panel thickness HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm				

6

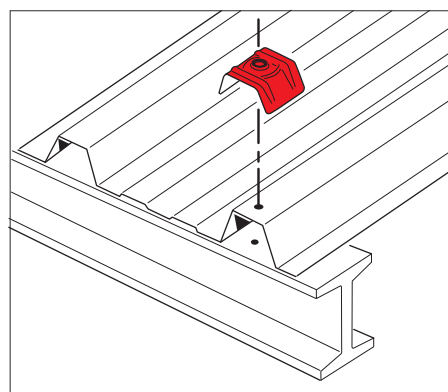
Applications	Product	Approval	Order code							D	Application range		
			SX	5/	30-	S16-	5,5x	52					
	● Stainless steel 		SX	5/	30-	S16-	5,5x	52	20 - 30		VD max. steel: 5,0 mm		
			SX	5/	55-	S16-	5,5x	78				15 - 55	t min. steel: 1,5 mm
			SX	5/	70-	S16-	5,5x	93				30 - 70	t max. steel: 4,0 mm
			SX	5/	85-	S16-	5,5x	108				45 - 85	t min. alu: 2,0 mm
			SX	5/	115-	S16-	5,5x	138				75 - 115	t max. alu: 4,0 mm
	● Stainless steel 		SX	14/	20-	S16-	5,5x	48	20		VD max. steel: 14,0 mm		
			SX	14/	38-	S16-	5,5x	66				38	t min. steel: 4,0 mm
			SX	14/	58-	S16-	5,5x	86				58	t min. alu: 5,0 mm
			SX	14/	75-	S16-	5,5x	103				75	

Saddle washer for Kingspan polycarbonate rooflight



Order code:

CA-Type-E-RAL 2002 poppy red



SXCW



Technical information

Applications

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

Material

Fastener

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

Washer

- S = Stainless steel, grade AISI 304
(European Standard 1.4301)

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 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

CF 55



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

DI 650



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

E380



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

SXCW

Order information

	<p>Hexagon 8 mm A/F</p>	<p>Coloured fastener</p>	<p>W: Washer material * Select Washer</p> <p>S Stainless Steel Ø 16 mm for cladding A Aluminium Ø 19 mm for roofing Ø 32 mm for rooflights</p>
<p>VD max. drill capacity D panel thickness HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>			

6

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

The secure and speedy way to clamp sidelaps.

The SL self drilling fastener range, specially developed for clamping profile sheets together.

The unique features of this fastener ensures the pink sidelap butyl is compressed first time and every time to ensure an airtight building.

The impressive airtight features of the SL clamping fastener



- Purposed designed
- To work everytime
- 100 % functionality from start to finish
- 3 mm 40 thick shore EPDM washer ensure effective weather sealing
- Colour matched to colour of the profile sheet

6



Self drilling fasteners for fast, efficient clamping

These fasteners are designed specifically for their application and offer a range of benefits.

The optimum clamping strength results from careful matching of the drill point to the thread diameter. Moreover, the special under-head design prevents over-torquing as well as unwinding under dynamic loads. 3 mm thick 40 shore EPDM washer seals around the fastener to provide an air and water-tight solution.



SL2-S / SLP-S / SX / SD2-S



Technical information

Applications

Austenitic 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 / SLP-S / SX / SD2-S
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

Drill point

- Case hardened, special carbon
steel

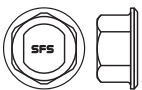
Coloured fastener



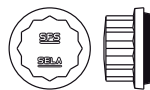
- Coloured fasteners available.
Colour heads are achieved
through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- Sela 11 mm A/F



- Countersunk T25



Accessories

DI 650



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

E420 / E380 / E311 / SR1



- The setting tool is required for
installing self drilling fasteners with
the **irus**[®] system and the hexagon
head.

T25 Bit



SL2-S / SLP-S / SX / SD2-S

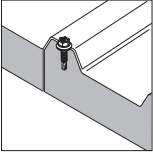
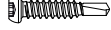

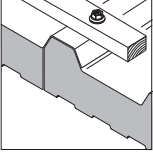

Order information

	<p>Hexagon 8 mm A/F</p>	<p>Sela 11 mm A/F</p>	<p>Countersunk T25</p>	<p>Coloured fastener</p>	<p>W: Washer material</p> <p>S Stainless Steel A Aluminium</p>
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>					

6

Applications	Product	Order code							KL	Application range
		SL2-S-	VD	KL	HD	W*	d	L		
	● Stainless steel	SL2-S-				S14-	4,8x	22	8	 VD max. steel: <u> </u> 2 x1,0 mm t min. steel: <u> </u> 2 x0,4 mm Only for steel sheet
		SL2-S-				S14-	5,5x	27*		
	● Stainless steel	SL2-S-			L12-	S14-	6,3x	28	8	 VD max. steel: <u> </u> 2 x1,0 mm t min. steel: <u> </u> 2 x0,4 mm
	● Stainless steel	SL2-S-				S16-	6,3x	28		
	● Stainless steel	SLP-S-				S14-	5,5x	27	8	 VD max. steel: <u> </u> 2,0 mm t min. steel: <u> </u> 2 x0,4 mm t max. steel: <u> </u> 2 x1,0 mm Only for steel sheet
	● Stainless steel	SX	2/	8-	D9-		4,8x	22	8	 VD max. steel: <u> </u> 2,0 mm t min. steel: <u> </u> 1,2 mm Low profile cold store clamping fastener SR1 drive

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

Applications	Product	Order code					KL	Application range
		SD2-S- Type	D7- HD	W* 4,8x	d 23	L 23		
	● Stainless steel 	SD2-S-	D7-	4,8x	23		 VD max. steel: _____ 2,0 mm t min. steel: _____ 2 x 0,4 mm t max. steel: _____ 2 x 1,0 mm	
	● Stainless steel 	SD2-S	S10/T20-	6,0x	45		Only for steel sheet	

SX-D10



Technical information

Applications

Pre engineered insulated panel to substructure.

Material

Fastener

- SX-D10
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

HD headform / drive

- Low profile Ø 10 mm



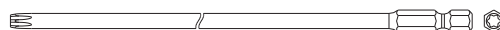
Accessories

DI 650



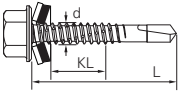

- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

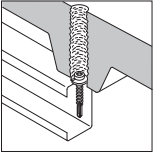

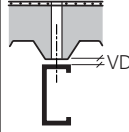
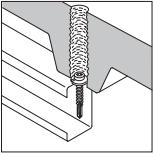
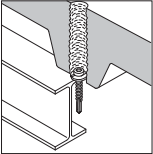

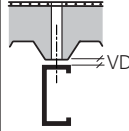
Tx25-175 drive bit



- The setting tool is required for
installing self drilling fasteners.

Order information

	Low profile Ø 10 mm 
VD max. drill capacity KL effective thread 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	Order code							KL	Application range
		Type	VD	HD	W*	d	L			
	● Stainless steel 	SX	5-	D10-	S19/C9-	5,5x	39		 VD max. steel: <u> </u> 5,0 mm t min. steel: <u> </u> 1,2 mm t max. steel: <u> </u> 3,0 mm Bit: T25W	
 	● Stainless steel 	SX	14-	D10-	S19/C9-	5,5x	53		 VD max. steel: <u> </u> 14,0 mm t min. steel: <u> </u> 4,0 mm Bit: T25W	

7

Applications	Product code	Page
Composite panel to steel substructure	SDTP / SDT SD	▶ 7.2
Side lap clamping	SL2-T / SLP	▶ 7.7
Pre engineered insulated panel to substructure	SD-D10 SW-D10	▶ 7.9



SDTP / SDT / SD



Technical information

Applications

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

Material

Fastener

- SDTP / 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

- Sela 11 mm A/F



- Hexagon 8 mm A/F



Washer recommendation



Ø 16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

CF 55



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

DI 650



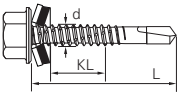



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

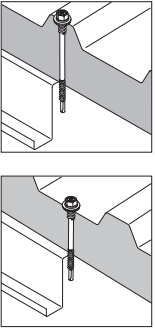
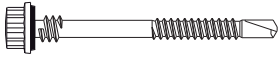

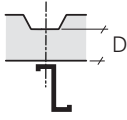
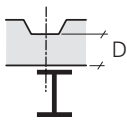
E380 / E311



- The setting tool is required for installing self drilling fasteners with a sela or hexagon head.

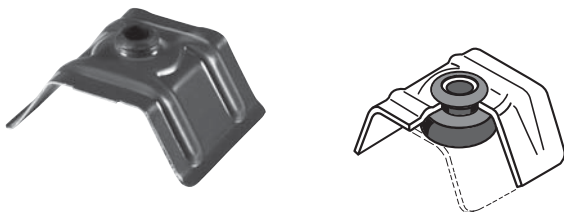
Order information

	Sela 11 mm A/F 	Hexagon 8 mm A/F 	 Coloured fastener	W: Washer material A Aluminium	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
<p>VD max. drill capacity D panel thickness HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>					

Applications	Product	Approval	Order code							D	Application range
			SDTP	VD	HD	W*	d	L			
 <p>■ Carbon steel</p>			SDTP 5-	A19- 5,5x	67	31 - 45		VD max. steel: _____ 5,0 mm t min. steel: _____ 1,5 mm			
			SDTP 5-	A19- 5,5x	77	39 - 55					
			SDTP 5-	A19- 5,5x	97	49 - 75					
			SDTP 5-	A19- 5,5x	112	54 - 90					
			SDTP 5-	A19- 5,5x	137	69 - 115					
			SDTP 5-	A19- 5,5x	162	110 - 137					
			SDTP 5-	A19- 5,5x	182	114 - 160					
			SDTP 5-	A19- 5,5x	226	158 - 204					
			SDTP 5-	A19- 5,5x	276	208 - 254					
			SDTP 5-	A19- 5,5x	74	38 - 48				VD max. steel: _____ 14,0 mm t min. steel: _____ 4,0 mm	
			SDTP 14-	A19- 5,5x	93	48 - 67					
			SDTP 14-	A19- 5,5x	113	68 - 87					
			SDTP 14-	A19- 5,5x	132	87 - 106					
			SDTP 14-	A19- 5,5x	160	94 - 134					
SDTP 14-	A19- 5,5x	186	122 - 160								
SDTP 14-	A19- 5,5x	212	147 - 185								
SDTP 14-	A19- 5,5x	233	167 - 207								
SDTP 14-	A19- 5,5x	280	214 - 254								

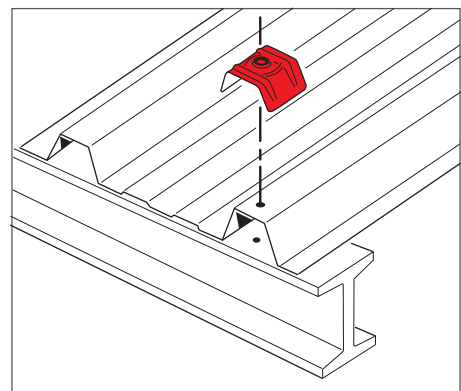
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Saddle washer for Kingspan polycarbonate rooflight

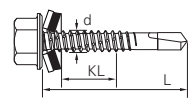






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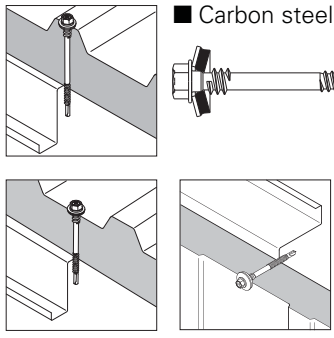
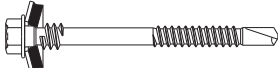

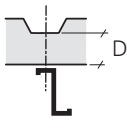
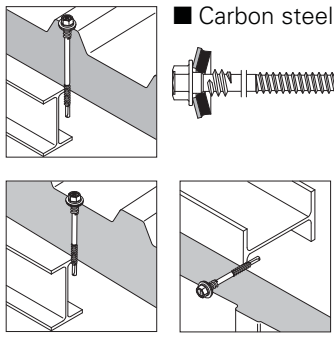
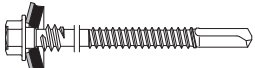

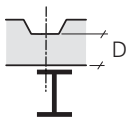
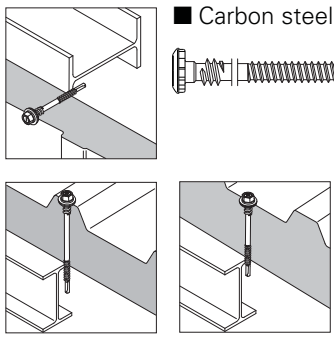
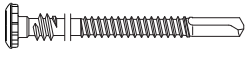

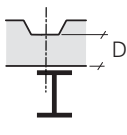
CA-Type-E-RAL 2002 poppy red

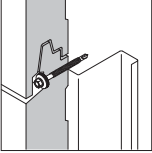
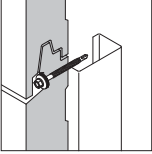
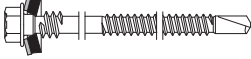


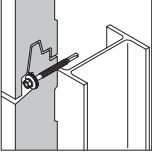
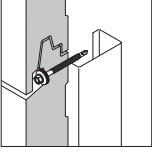
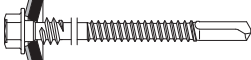


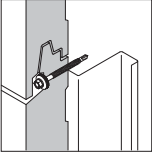
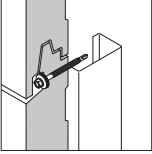



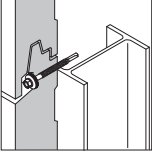
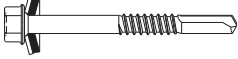

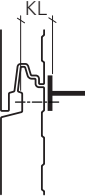


Order information

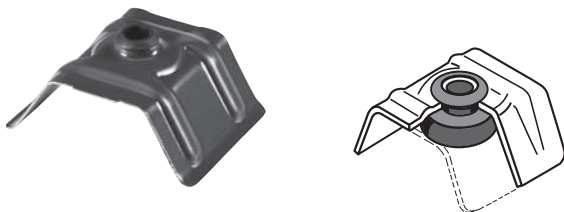
	Sela 11 mm A/F 	Hexagon 8 mm A/F 	irus® Ø 12 mm 	 Coloured fastener	W: Washer material A Aluminium	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. drill capacity D panel thickness HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm						

7

Applications	Product	Approval	Order code							D	Application range
			SDT	5-	HD	W*	d	L			
			SDT	5-		A19- 5,5x	67		36 - 45		VD max. steel: _____ 5,0 mm t min. steel: _____ 1,5 mm
			SDT	5-		A19- 5,5x	77		39 - 55		
			SDT	5-		A19- 5,5x	97		49 - 75		
			SDT	5-		A19- 5,5x	112		54 - 90		
			SDT	5-		A19- 5,5x	137		69 - 112		
			SDT	5-		A19- 5,5x	162		110 - 137		
			SDT	5-		A19- 5,5x	182		114 - 160		
			SDT	5-		A19- 5,5x	226		158 - 204		
SDT	5-		A19- 5,5x	276		208 - 254					
			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					
			SDT	14-	L12-	5,5x	212		147 - 185		VD max. steel: _____ 14,0 mm t min. steel: _____ 4,0 mm
			SDT	14-	L12-	5,5x	273		185 - 244		
Envirodeck products IF-6,3x203 IL-C-82x40											

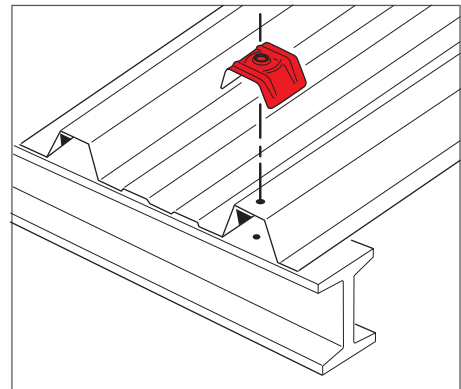
Applications	Product	Approval	Order code						D	Application range	
			SDT	5-	A16- 5,5x 97						
 			SDT	5-						<u>VD max. steel:</u> 5,0 mm <u>t min. steel:</u> 1,5 mm	
			SDT	5-							49 - 75
			SDT	5-							54 - 90
			SDT	5-							69 - 112
			SDT	5-							110 - 137
			SDT	5-							114 - 160
SDT	5-					158 - 204					
 			SDT	14-						<u>VD max. steel:</u> 14,0 mm <u>t min. steel:</u> 4,0 mm	
			SDT	14-							48 - 67
			SDT	14-							68 - 87
			SDT	14-							87 - 116
			SDT	14-							94 - 134
			SDT	14-							122 - 160
SDT	14-					167 - 207					
 			SD	3-						<u>VD max. steel:</u> 3,0 mm <u>t min. steel:</u> 1,2 mm <u>t max. steel:</u> 2,5 mm	
			SD	3-							29
			SD	3-							44
			SD	3-							54
			SD	3-							64
			SD	3-							84
			SD	14-						<u>VD max. steel:</u> 14,0 mm <u>t min. steel:</u> 4,0 mm	
			SD	14-							5 - 35
			SD	14-							15 - 45
			SD	14-							25 - 55
SD	14-					35 - 65					

Saddle washer for Kingspan polycarbonate rooflight



Order code:

CA-Type-E-RAL 2002 poppy red



The secure and speedy way to clamp sidelaps.

The SL self drilling fastener range, specially developed for clamping profile sheets together.

The unique features of this fastener ensures the pink sidelap butyl is compressed first time and every time to ensure an airtight building.

The impressive airtight features of the SL clamping fastener



- Purposed designed
- To work everytime
- 100 % functionality from start to finish
- 3 mm 40 thick shore EPDM washer ensure effective weather sealing
- Colour matched to colour of the profile sheet

7



Self drilling fasteners for fast, efficient clamping

These fasteners are designed specifically for their application and offer a range of benefits.

The optimum clamping strength results from careful matching of the drill point to the thread diameter. Moreover, the special under-head design prevents over-torquing as well as unwinding under dynamic loads. 3 mm thick 40 shore EPDM washer seals around the fastener to provide an air and water-tight solution.



SL2-T / SLP



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 control.

Material

Fastener

- SL2-T / SLP
Plated carbon steel, case hardened

Washer

- **A** = Aluminium with vulcanised EPDM

Drill point

- Case hardened, special carbon steel

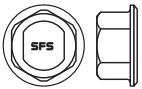
Coloured fastener



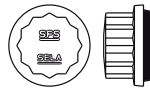
- Coloured fasteners available. Colour heads are achieved through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- Sela 11 mm A/F



Accessories

DI 650



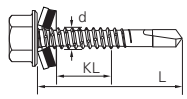



- Lightweight power screwgun for installing self drilling and self tapping fasteners.

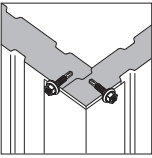
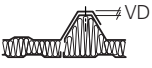
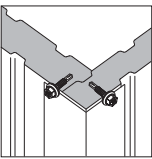
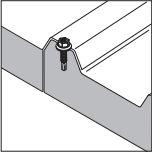

E380 / E311



- The setting tool is required for installing self drilling fasteners with a sela or hexagon head.

Order information

	Hexagon 8 mm A/F	Sela 11 mm A/F				W: Washer material T Carbon Steel A Aluminium
VD max. drill capacity KL effective thread 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	Order code					KL	Application range
		SL	2-	A14-	4,8x	20		
	■ Carbon steel	SL	2-	A14-	4,8x	20		 VD max. steel: _____ 2,0 -2x1,0 mm t min. steel: _____ 2 x0,4 mm
		SLP	2-	A14-	4,8x	20		
 	■ Carbon steel	SLP	3-	T16-	8,0x	30		 VD max. steel: _____ 3,0 mm t min. steel: _____ 2 x0,4 mm t max. steel: _____ 2 x1,0 mm Only for steel sheet

SD-D10 / SW-D10



Technical information

Applications

Pre engineered insulated panel to substructure.

Material

Fastener

- SD-D10 / SW-D10
Plated carbon steel, case hardened

Washer

- T = Steel zinc plated

HD headform / drive

- Low profile Ø 10 mm



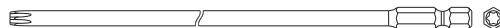
Accessories

DI 650



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

Tx25-175 Bit



- The setting tool is required for installing self drilling fasteners.

Order information

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

Applications	Product	Order code							KL	Application range
		SD	3-	D10-	T19/C9-	5,5x	30			
	<p>■ Carbon steel</p>	SD	3-	D10-	T19/C9-	5,5x	30		<p>VD max. steel: <u> </u> 3,0 mm</p> <p>t min. steel: <u> </u> 2 x 0,63 mm</p> <p>t max. steel: <u> </u> 1,2 mm</p> <p>Bit: T25W - 175mm Dual purpose</p>	
	<p>■ Carbon steel</p>	SD	14-	D10-	T19/C9-	5,5x	46		<p>VD max. steel: <u> </u> 14,0 mm</p> <p>t min. steel: <u> </u> 4,0 mm</p> <p>Bit: T25W - 175mm</p>	
	<p>■ Carbon steel</p>	SW	2-	D10-	T19/C9	5,5x	55		<p>VD max. steel: <u> </u> 2x1,0 mm</p> <p>Bit: T25W - 175mm</p>	

7

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Applications	Product code	Page
Steel, aluminium and timber structure	TDC-S / TDA-S TDB-S	▶ 8.3
Steel, aluminium and timber structure	TDA-T / TDC-T	▶ 8.6
Steel to steel structure	TDBL-T	▶ 8.8
Anchoring	GA-AS GA-BS	▶ 8.10
Drill bits for steel and timber	HSS	▶ 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 construction. Quite often, a range of different steel hardness grades are used on site.

Conventional thread-forming screws may not thread form in these harder steel. Often the threads will collapse during installation and become extremely difficult to use.

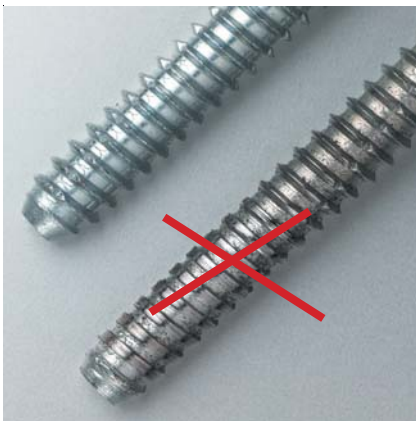
But it's no problem for SFS intec thread-forming fasteners, which maintain their complete functionality in every steel grade from S 235 to S 355.

The impressive features of the TDB-S fasteners



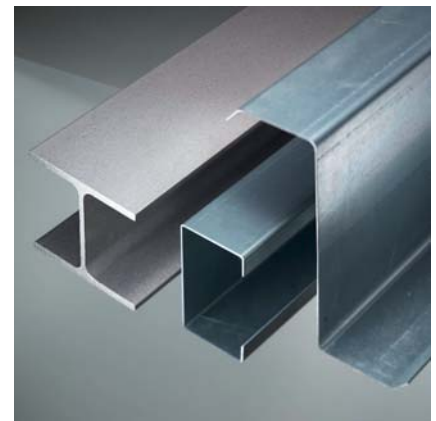
- Fully functional in every grade of steel; even S 355
- One fastener for a wide range of applications – a safe choice
- Available in a wide range of colours
- Maximum corrosion resistance

8



On the safe side with TDB-S fasteners

Many application problems can be eliminated by the use of TDB-S fasteners. For instance, pilot hole can be used for every steel grade. Thread collapse in hard grade steel is eliminated so there are no need to change pilot hole sizes.



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).

TDC-S / TDA-S / TDB-S



Technical information

Applications

TDA-S / TDC-S: fastening into timber and thin steel < 3,0 mm

TDB-S: fastening into steel with a thickness > 3,1 mm

Material

Fastener

- TDC-S / TDA-S / TDB-S
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

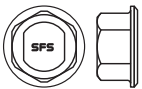
Coloured fastener



Coloured fasteners available.
Colour heads are achieved
through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



- **irius**[®] Ø 12 mm



Washer recommendation



Ø 16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Accessories

DI 650



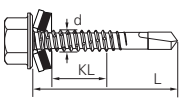



- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

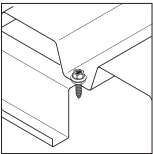
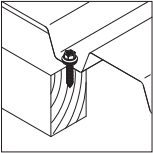
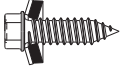

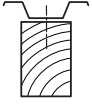
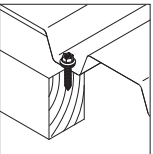
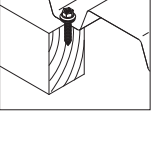
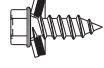
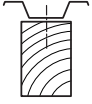
E420 / E380

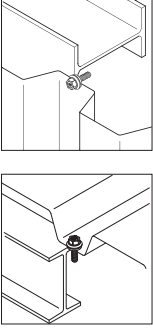

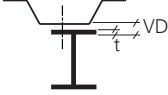
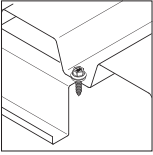
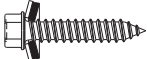

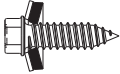



- The setting tool is required for instal-
ling self drilling fasteners with the
irius[®] system and hexagon head.

Order information

	Hexagon 8 mm A/F	<i>irus</i> ® Ø 12 mm				W: Washer material S Stainless Steel	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>							

Applications	Product	Order code						KL	Application range
		TDC-S- Type	HD	W* W*	d	L			
 	<p>● Stainless steel</p> 	TDC-S-		S16- 6,3x	19	7	  <p>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins</p> <p>min. = 1,0 mm max. = 3,0 mm</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80</p>		
		TDC-S-		S16- 6,3x	25	13			
		TDC-S-		S16- 6,3x	32	20			
		TDC-S-		S16- 6,3x	38	26			
		TDC-S-		S16- 6,3x	51	39			
		TDC-S-		S16- 6,3x	64	52			
		TDC-S-		S16- 6,3x	100	88			
 	<p>● Stainless steel</p> 	TDA-S-		S16- 6,5x	19	7	 <p>Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins</p> <p>min. = 1,0 mm max. = 3,0 mm</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80</p>		
		TDA-S-		S16- 6,5x	25	13			
		TDA-S-		S16- 6,5x	32	20			
		TDA-S-		S16- 6,5x	38	26			
		TDA-S-		S16- 6,5x	45	33			
		TDA-S-		S16- 6,5x	51	39			
		TDA-S-		S16- 6,5x	64	52			
		TDA-S-		S16- 6,5x	76	64			
		TDA-S-		S16- 6,5x	90	78			
		TDA-S-		S16- 6,5x	100	88			
		TDA-S-		S16- 6,5x	115	103			
		TDA-S-		S16- 6,5x	127	115			
		TDA-S-		S16- 6,5x	152	140			
		TDA-S-		S16- 6,5x	178	166			
		TDA-S-		S16- 6,5x	215	203			
		TDA-S-		S16- 6,5x	250	238			
TDA-S-		S16- 6,5x	300	288					

Applications	Product	Order code					KL	Application range										
		TDB-S- Type	HD	S16- W*	6,3x d	19 L												
	<p>● Stainless steel</p> 	TDB-S-		S16-	6,3x	19	9	 <p>Determining overall fastener length L: thickness of all materials fastened KL+10 mm.</p> <p>Recommended pilot hole diameter:</p> <table border="1"> <tr> <td>t in mm:</td> <td>pilot hole in mm:</td> </tr> <tr> <td>1,5 – 3,0</td> <td>4,90</td> </tr> <tr> <td>3,1 – 5,0</td> <td>5,30</td> </tr> <tr> <td>5,1 – 10,0</td> <td>5,80</td> </tr> <tr> <td>> 10,0</td> <td>5,90</td> </tr> </table>	t in mm:	pilot hole in mm:	1,5 – 3,0	4,90	3,1 – 5,0	5,30	5,1 – 10,0	5,80	> 10,0	5,90
		t in mm:	pilot hole in mm:															
		1,5 – 3,0	4,90															
		3,1 – 5,0	5,30															
		5,1 – 10,0	5,80															
		> 10,0	5,90															
		TDB-S-		S16-	6,3x	25	15											
		TDB-S-		S16-	6,3x	32	22											
		TDB-S-		S16-	6,3x	38	28											
		TDB-S-		S16-	6,3x	45	35											
		TDB-S-		S16-	6,3x	51	41											
		TDB-S-		S16-	6,3x	64	54											
		TDB-S-		S16-	6,3x	76	66											
		TDB-S-		S16-	6,3x	90	80											
		TDB-S-		S16-	6,3x	100	90											
		TDB-S-		S16-	6,3x	115	105											
		TDB-S-		S16-	6,3x	127	117											
TDB-S-		S16-	6,3x	145	135													
TDB-S-		S16-	6,3x	152	142													
TDB-S-		S16-	6,3x	178	168													
TDB-S-		S16-	6,3x	215	205													
TDB-S-		S16-	6,3x	265	255													
TDB-S-		S16-	6,3x	285	275													
	<p>● Stainless steel</p> 	TDC-S-		S16-	6,3x	32	20	- Mat. 14547										
		TDB-S-		S16-	6,3x	32	22	- Mat. 14547										
		TDA-S-		S16-	6,5x	64	20	- Mat. 14547										
								<p>Super stainless steel for swimming pools</p>  <p>Recommended pilot hole diameter:</p> <table border="1"> <tr> <td>t in mm:</td> <td>pilot hole in mm:</td> </tr> <tr> <td>< 2,0</td> <td>4,00</td> </tr> <tr> <td>2,1 – 4,0</td> <td>5,30</td> </tr> <tr> <td>4,0 – 10,0</td> <td>5,80</td> </tr> </table>	t in mm:	pilot hole in mm:	< 2,0	4,00	2,1 – 4,0	5,30	4,0 – 10,0	5,80		
t in mm:	pilot hole in mm:																	
< 2,0	4,00																	
2,1 – 4,0	5,30																	
4,0 – 10,0	5,80																	
<p>● Stainless steel</p> 	<p>● Stainless steel</p> 	TDC-S-		S19-	7,1x	19	7	<p>Repair fastener in purlin: The Ø 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 Ø 6,55 mm. Only suitable for steel purlin up to 3 mm.</p>										
		TDC-S-	L12-	S19-	7,1x	19	7											

TDA-T / TDC-T



Technical information

Applications

TDA-T: fastening into timber and steel < 3,0 mm

TDC-T: fastening into timber and steel

Material

Fastener

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

Washer

- T = Carbon steel

Coloured fastener



Coloured fasteners available.
Colour heads are achieved through powder coating.

HD headform / drive

- Hexagon 8 mm A/F



Accessories

DI 650



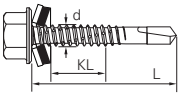


- Lightweight power screwgun for installing self drilling and self tapping fasteners.

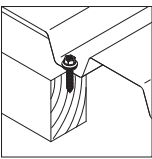


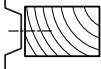
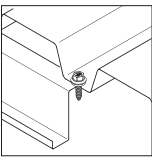
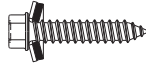
E380



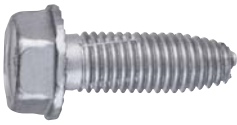
- The setting tool is required for installing self drilling fasteners with a hexagon head.

Order information

	Hexagon 8 mm A/F 	 Coloured fastener	W: Washer material T Carbon Steel	* Select Washer Ø 16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>				

Applications	Product	Order code				KL	Application range
		Type	W*	d	L		
  ■ Carbon steel	TDA-T-	T16-	6,5x	19	7	  Determining overall fastener length L: thickness of all materials fastened KL+12 mm. Thickness of the steel purlins min. = 1,0 mm Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80	
	TDA-T-	T16-	6,5x	25	13		
	TDA-T-	T16-	6,5x	32	20		
	TDA-T-	T16-	6,5x	38	26		
	TDA-T-	T16-	6,5x	45	33		
	TDA-T-	T16-	6,5x	51	39		
	TDA-T-	T16-	6,5x	64	52		
	TDA-T-	T16-	6,5x	76	64		
	TDA-T-	T16-	6,5x	90	78		
	TDA-T-	T16-	6,5x	100	88		
	TDA-T-	T16-	6,5x	127	115		
	TDA-T-	T16-	6,5x	152	140		
	TDA-T-	T16-	6,5x	178	166		
	TDA-T-	T16-	6,5x	215	203		
	  ■ Carbon steel	TDC-T-	T16-	6,3x	25		13
TDC-T-		T16-	6,3x	38	26		
TDC-T-		T16-	6,3x	51	39		
TDC-T-		T16-	6,3x	64	52		
TDC-T-		T16-	6,3x	76	64		
TDC-T-		T16-	6,3x	76	64		

TDBL-T



Technical information

Applications

Fastening steel purlins to steel structure.

A Design Engineer must verify the structural calculations for the TDBL fastener in structural applications.

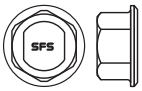
Material

Fastener

- TDBL-T
Plated carbon steel, case
hardened

HD headform / drive

- Hexagon 13 mm A/F



- Hexagon 16 mm A/F



Accessories

BF414



- Lightweight impact screw gun
1/4" hexagonal drive.

BF419



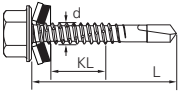


- Lightweight impact screw gun
1/2" square drive.

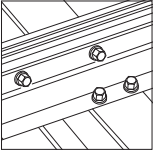


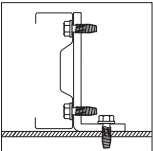
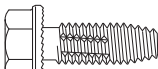

E313 / E316



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

Order information

	Hexagon 13 mm A/F Hexagon 16 mm A/F
	
VD max. drill capacity KL effective thread 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	Order code			KL	Application range
		Type	d	L		
	■ Carbon steel 	TDBL-T-	8,6x	16		 <u>t min. steel:</u> 2 x 0,9 mm t < 3,0 mm = hole Ø 7,5 mm t > 3,0 mm = hole Ø 8,0 mm Recommendations for use Overdriving-proof in thin steel 2 x 0,9 to 2 x 1,2 mm Assembly instructions The attachment must always be made from the appropriate direction (thin to thick)
	■ Carbon steel 	TDBL-T-	10,6x	30		 <u>t min. steel:</u> 2 x 1,5 mm t < 3,0 mm = hole Ø 10,0 mm t > 3,0 mm = hole Ø 10,0 mm Recommendations for use Overdriving-proof in thin steel 1,0 + 2,0 mm or 1,5 + 1,5 mm Assembly instructions The attachment must always be made from the appropriate direction (thin to thick)

GA-AS / GA-BS



Technical information

Applications

GA-AS: fastening into timber and steel < 3,0 mm

GA-BS: fastening into steel > 3,1 mm

Material

Fastener

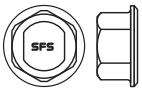
- GA-AS / GA-BS
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

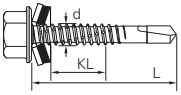

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

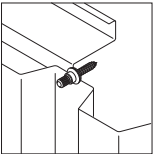
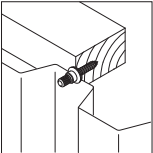
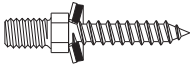
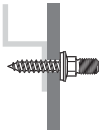
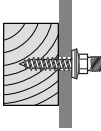
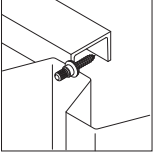
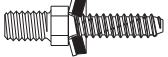
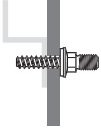
HD headform / drive

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

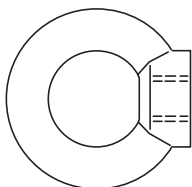


Order information

	Hexagon: 3/8" ~ 9,5 mm A/F 
VD max. drill capacity KL effective thread 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	Order code				KL	Application range
		Type	W*	d	L		
 	<p>● Stainless steel</p> 	GA-AS-	S16-	6,5x	32		  Hexagon: 3/8" ~ 9,5 mm A/F Threaded part: M8 x 11 mm Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80
		GA-AS-	S16-	6,5x	45		
	<p>● Stainless steel</p> 	GA-BS-	S16-	6,3x	25		 Hexagon: 3/8" ~ 9,5 mm A/F Threaded part: M8 x 11 mm Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5 – 3,0 4,90 3,1 – 5,0 5,30 5,1 – 10,0 5,80 > 10,0 5,90
		GA-BS-	S16-	6,3x	32		

Eye nut / Acorn nut M8

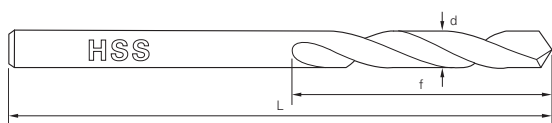


Eye nut M8
Carbon steel, 25 mm Ø
Stainless steel, 25 mm Ø



Acorn nut M8
Stainless steel

Order information



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

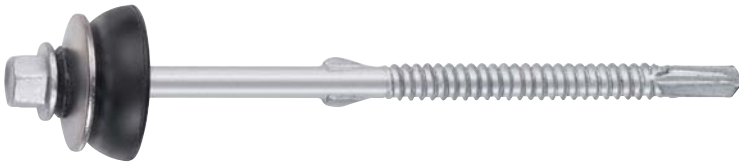
Example order code				KL	Application range
Type	d	L	F		
HSS- 3,2x 49/ 18-					
HSS-	3,2x	49/	18		Stub
HSS-	3,3x	49/	18		
HSS-	4,0x	55/	22		
HSS-	4,9x	62/	26		
HSS-	5,1x	86/	52		
HSS-	5,3x	62/	26		
HSS-	5,8x	66/	28		
HSS-	5,9x	66/	28		
HSS-	7,0x	74/	34		
HSS-	4,0x	75/	43		
HSS-	4,9x	86/	52		
HSS-	5,1x	86/	52		
HSS-	5,3x	86/	52		
HSS-	5,8x	93/	57		
HSS-	5,9x	93/	57		
HSS-	7,9x	117/	75		
HSS-	9,5x	125/	81		
HSS-	4,9x	132/	87		Long series
HSS-	5,3x	132/	87		
HSS-	5,8x	139/	91		
HSS-	5,9x	139/	91		
HSS-	5,05x	150/	25		
HSS-	5,8x	200/	32		
HSS-	7,0x	200			

9

Applications	Product code	Page
Fibre cement sheet timber structure	SCFW SCFW-S	▶ 9.2
Steel, aluminium and timber structure	TDA-S-BAZ TDB-S-BAZ HG-S / HG-T LL-S / LLP-T	▶ 9.4
Drill bits for steel and timber	HSS	▶ 9.9



SCFW / SCFW-S



Technical information

Applications

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

Material

Fastener

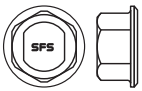
- SCFW
Case hardened, carbon steel, hot dipped galvanised
- SCFW-S
Austenitic stainless steel, grade AISI 304 (European Standard 1.4301)

Washer

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

HD headform / drive

- Hexagon 8 mm A/F



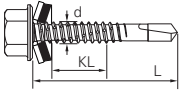

Accessories

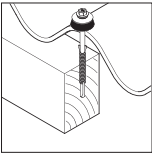
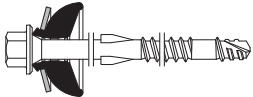
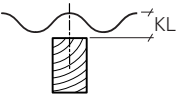
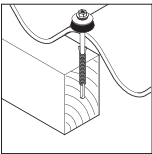
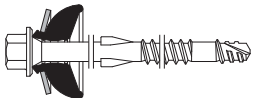
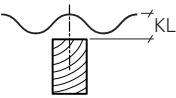
CF 40



- 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

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

Applications	Product	Order code				KL	Application range
		SCFW-	BAZ- 6,5x	95	130		
	<p>■ Carbon steel</p> 	<p>SCFW- SCFW-</p>	<p>BAZ- 6,5x BAZ- 6,5x</p>	<p>95 130</p>		 <p>Max. roof pitch: Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch</p>	
	<p>● Stainless steel</p> 	<p>SCFW-S-</p>	<p>BAZ- 6,5x</p>	<p>130</p>		 <p>Max. roof pitch: Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch</p>	

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



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

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

Material

Fastener

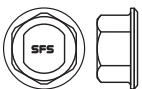
- TDA-S / TDB-S / HG-S / LL-S
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)
- HG-T / LLP-T
Plated carbon steel, case
hardened

Washer

- **BAZ** = EPDM sealing material with
austenitic stainless steel metal
washer
- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)
- **T** = Steel zinc plated

HD headform / drive

- Hexagon 8 mm A/F
- Sela 11 mm A/F



Accessories

Di 650



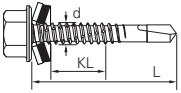

- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

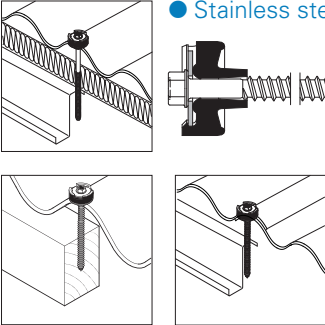
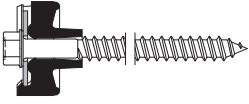
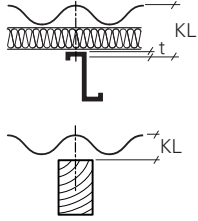
E420 / E380



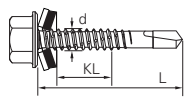

- The setting tool is required for
installing self drilling fasteners with
the **irius**® system and the hexagon
head.

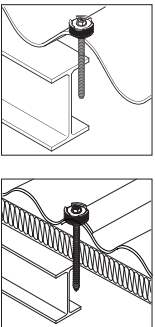
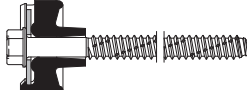
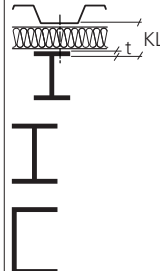
Order information

	Hexagon 8 mm A/F 
VD max. drill capacity KL effective thread 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	Order code				KL	Application range
		TDA-S-	BAZ-	6,5x	90		
	● Stainless steel 	TDA-S-	BAZ-	6,5x	90	67	 <p>Max. roof pitch: Fastener length upto - 120 mm = 30° max. pitch - 120-140 mm = 20° max. pitch - 140-200 mm = 15° max. pitch</p> <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 - 3,0 4,90 3,1 - 5,0 5,30 5,1 - 10,0 5,80 > 10,0 5,90</p> <p>Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80</p>
		TDA-S-	BAZ-	6,5x	100	77	
		TDA-S-	BAZ-	6,5x	115	92	
		TDA-S-	BAZ-	6,5x	127	104	
		TDA-S-	BAZ-	6,5x	152	129	
		TDA-S-	BAZ-	6,5x	178	155	
		TDA-S-	BAZ-	6,5x	215	192	

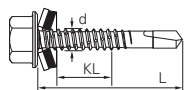

Order information

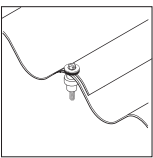
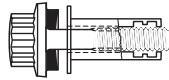
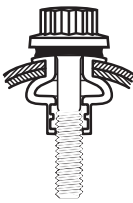
	Hexagon 8 mm A/F 
VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm	

Applications	Product	Order code				KL	Application range
		TDB-S-	BAZ- 6,3x	90			
	● Stainless steel 	TDB-S-	BAZ- 6,3x	90	60	 <p>Max. roof pitch: Fastener length upto – 120 mm = 30° max. pitch – 120–140 mm = 20° max. pitch – 140–200 mm = 15° max. pitch</p> <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 – 3,0 4,90 3,1 – 5,0 5,30 5,1 – 10,0 5,80 > 10,0 5,90</p>	
		TDB-S-	BAZ- 6,3x	100	70		
		TDB-S-	BAZ- 6,3x	115	85		
		TDB-S-	BAZ- 6,3x	127	97		
		TDB-S-	BAZ- 6,3x	152	122		
		TDB-S-	BAZ- 6,3x	178	148		
		TDB-S-	BAZ- 6,3x	215	185		

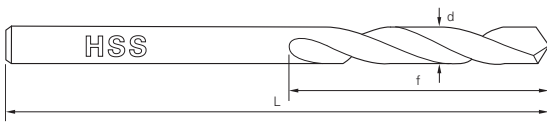
Applications	Product	Order code				KL	Application range
		HG-S- Type	S29- W*	6,0x d	80 L		
	● Stainless steel 	HG-S-	S29-	6,0x	80		 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	● Stainless steel 	HG-S-	BAZ-	6,0x	80		 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	■ Carbon steel 	HG-T-	S29-	6,0x	80		 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	■ Carbon steel 	HG-T-	BAZ-	6,0x	80		 Side lap stitching fibre cement Pilot hole: Ø 11 mm
	● Stainless steel 	LL-S-	S16-	9,5x	25	2 - 15	 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

	<p>Sela 11 mm A/F</p> 	<p>W: Washer material T Carbon Steel</p>
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>		

Applications	Product	Order code				KL	Application range
		LLP-T-	T16-	9,5x	25		
	<p>■ Carbon steel</p> 	LLP-T-	T16-	9,5x	25	2 - 15	 <p>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.</p> <p>The Sela lap-lox in poppy red is recommended for meeting manufacturers recommendations in respect of the CDM and building regulations.</p> <p>Pilot hole: Ø 9,5 mm</p>

Order information



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

Example order code				KL	Application range
Type	d	L	F		
HSS- 3,2x 49/ 18-					
HSS-	3,2x	49/	18		Stub
HSS-	3,3x	49/	18		
HSS-	4,0x	55/	22		
HSS-	4,9x	62/	26		
HSS-	5,1x	86/	52		
HSS-	5,3x	62/	26		
HSS-	5,8x	66/	28		
HSS-	5,9x	66/	28		
HSS-	7,0x	74/	34		
HSS-	4,0x	75/	43		
HSS-	4,9x	86/	52		
HSS-	5,1x	86/	52		
HSS-	5,3x	86/	52		
HSS-	5,8x	93/	57		
HSS-	5,9x	93/	57		
HSS-	7,9x	117/	75		
HSS-	9,5x	125/	81		
HSS-	4,9x	132/	87		Long series
HSS-	5,3x	132/	87		
HSS-	5,8x	139/	91		
HSS-	5,9x	139/	91		
HSS-	5,05x	150/	25		
HSS-	5,8x	200/	32		
HSS-	7,0x	200			

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Applications	Product code	Page
Aluminium halters to aluminium and steel decks	RV6604 RV6603 RV6605	▶ 10.2
Blind rivets, open	ATO / ASO TTO / SSO ATOM	▶ 10.4
Blind rivets, cap end	ATC / ASC SSC / AAC	▶ 10.6
Drill bits for steel and timber	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.

Material

Fastener

- RV6604 / RV6603 / RV6605

Body: Aluminium AlMg5

Mandrel: Al Cu Mg 1

Washer

- EPDM

Accessories

AccuBird®



- For standard blind rivets 2 - 5 mm and for Bulb-tite® rivets 4 - 6,3 mm
Stand-off nose piece required for flexible point.

PowerBird®



- For standard blind rivets 4 - 7 mm and for Bulb-tite® rivets 7,7 mm.

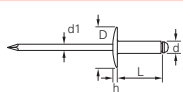
RV 6604 - 6 - 3 W



Material code

Body: AlMg 5
Mandrel: AlCuMg 1

Order information



d Rivet diameter in 1/32" | **KL** Grip range | **W** EPDM washer | **d x L** diameter / length | **All measures in mm**

Application	Product	Order code			KL min. max.	d x L	Application range
		Type	d	KL			
	▲ Aluminium 	RV6604- 6- 3 W			0,5 - 4,7	5,2 x 17,5	Head diameter D: 11,5 mm Pilot hole: Ø 5,3 mm
		RV6604- 6- 4 W			1,5 - 6,3	5,2 x 19,1	
		RV6604- 6- 6 W			4,7 - 9,5	5,2 x 22,2	
		RV6604- 6- 8 W			8,0 - 12,7	5,2 x 25,4	
		RV6604- 6- 10 W			11,1 - 15,9	5,2 x 29,7	
		RV6604- 6- 12 W			14,3 - 19,0	5,2 x 31,8	
		RV6604- 6- 14 W			17,4 - 22,2	5,2 x 34,9	
		RV6604- 6- 16 W			20,6 - 25,4	5,2 x 38,1	
		RV6604- 6- 18 W			23,8 - 28,6	5,2 x 41,3	
			▲ Aluminium 	RV6603- 9- 6 W			
RV6603- 9- 10 W					6,3 - 12,7	7,1 x 40,0	
	▲ Aluminium 	RV6605- 9- 6 W			1,2 - 9,5	7,1 x 33,7	Head diameter D: 19,4 mm Pilot hole: Ø 7,9 mm
		RV6605- 9- 10 W			6,3 - 12,7	7,1 x 40,0	

ATO / ASO / TTO / SSO / ATOM

Technical information

Applications

Joining side laps and flashing applications.

Material

Fastener

- ATO / ASO / TTO / SSO / ATOM

Mandrel:

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

Rivet:

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

Accessories

AccuBird®



- For standard blind rivets 2 - 5 mm and for Bulb-tite® rivets 4 - 6,3 mm
Stand-off nose piece required for flexible point.

Lever tool RM-20



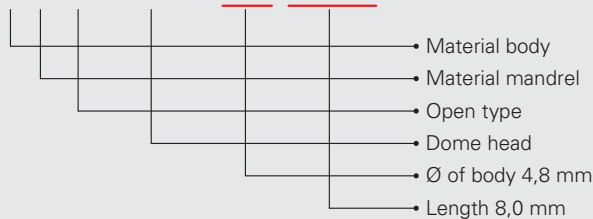
- Including 4 rivet nozzles
For rivet diameter: 3 - 5 mm.

Lazy tongs RM-25



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

ATO - D - 48080



Material code

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

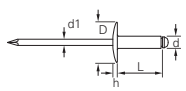
Type

- O = open
- C = cap end

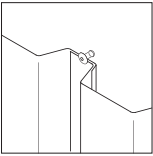
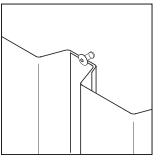
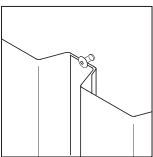
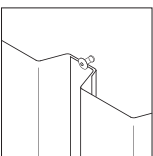
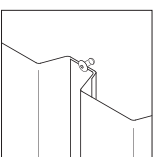
Head form

- D = Dome head Ø 9,5 mm
- D11 = Dome Ø 11 mm
- D16 = Dome Ø 16 mm

Order information



HD headform / drive | KL Grip range | d x L diameter / length | All measures in mm

Application	Product	Order code			KL min. max.	d x L	Application range
		ATO-	D-	48060			
	▲ 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-	48120	6,0 - 8,0	4,8 x 12,0	
		TTO-	D-	48140	8,0 - 10,0	4,8 x 14,0	
		TTO-	D-	32080	3,3 - 4,8	3,2 x 8,0	
	● 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	
	▲ Aluminium	ATOM-	D-	320140	0,7 - 6,5	3,2 x 10,4	Pilot hole: Ø 4,9 mm
		ATOM-	D-	32136	3,9 - 9,7	3,2 x 13,6	
		ATOM-	D-	48110	0,5 - 6,3	4,8 x 11,1	
		ATOM-	D-	48143*	6,0 - 11,1	4,8 x 15,4	
		ATOM-	D-	48175	7,6 - 12,7	4,8 x 17,0	

* Can be supplied painted

W – An EPDM washer can be supplied assembled on rivet.

Stainless steel rivets offer more resistance to the setting tool than aluminium rivets.

The mandrel is harder and can wear the jaws of the riveting tool.

Users should ensure that the tools' jaws are cleaned regularly and replaced as required to ensure smooth operation. Some rivets, for example bulb-tite rivets, require special nose pieces to set the rivet properly.

Sealed body rivets are very sensitive to correct hole diameters.

ATC / ASC / SSC / AAC

Technical information

Applications

Joining metal in side laps and flashing applications.

Material

Fastener

- ATC / ASC / SSC / AAC

Mandrel:

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

Rivet:

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

Accessories

AccuBird®



- For standard blind rivets 2 - 5 mm and for Bulb-tite® rivets 4 - 6,3 mm. Stand-off nose piece required for flexible point.

Lever tool RM-20



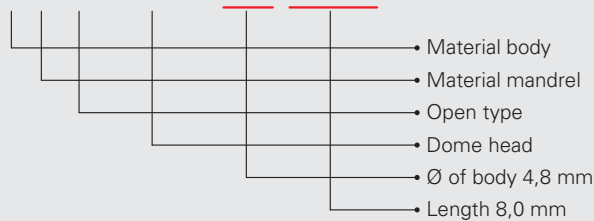
- Including 4 rivet nozzles. For rivet diameter: 3 - 5 mm.

Lazy tongs RM-25



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

ATC - D - 4 8 0 8 0 - W



Material code

- A = Aluminium
- S = Stainless steel
- T = Carbon steel

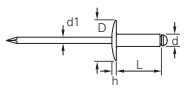
Type

- O = Open
- C = Cap end
- W = Sealing element

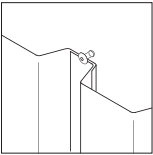
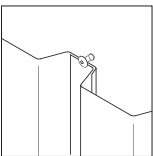
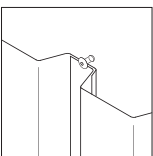
Head form

- D = Dome head Ø 9,5 mm
- D11 = Dome Ø 11 mm
- D16 = Dome Ø 16 mm

Order information



HD headform / drive | KL Grip range | d x L diameter / length | All measures in mm

Application	Product	Order code			KL min. max.	d x L	Application range
		ATC-	D-	48080			
	▲ 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	
	▲ 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	
		ASC-	D-	48160	9,0 - 11,0	4,8 x 16,0	
	● Stainless steel	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	
	▲ Aluminium	AAC-	D-	48095	3,0 - 5,0	4,8 x 9,5	Pilot hole: Ø 4,9 mm

W – An EPDM washer can be supplied assembled on rivet.

Stainless steel rivets offer more resistance to the setting tool than aluminium rivets.

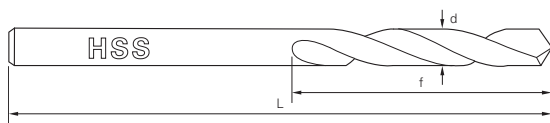
The mandrel is harder and can wear the jaws of the riveting tool.

Users should ensure that the tools' jaws are cleaned regularly and replaced as required to ensure smooth operation. Some rivets, for example bulb-tite rivets, require special nose pieces to set the rivet properly.

Sealed body rivets are very sensitive to correct hole diameters.

HSS

Order information



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

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

Applications	Product code	Page
Timber to concrete / Drill bits	TI / SDS	▶ 11.2
Concrete, solid brick, Hollow brick, masonry	MBRK / MBR	▶ 11.4
Insulation Anchors	MDD / MDD-S MDS / MDP	▶ 11.6
Insulation Anchors	MIDS / MIDSr	▶ 11.14
Aluminium framework	SLA / SDA / SN SX / SD2-S	▶ 11.17
Non metallic high performance cladding panel to timber batten	TW-S / TW-A4	▶ 11.20
Non metallic high performance cladding panel to timber batten	SCFW-S	▶ 11.22
Non metallic high performance cladding to steel framework	SDF2-S	▶ 11.24
Architectural profile sheet to aluminium and steel	SX	▶ 11.26
High performance cladding to aluminium and steel framework	AP / ASO	▶ 11.28
Special appearance fastening	GA-AS / GA-BS	▶ 11.30
Blind fastening of HPL-cladding panels	TU-S	▶ 11.32



TI / SDS



Technical information

Applications

Fastening steel and timber battens to concrete and brickwork.

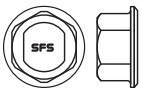
Material

Fastener

- TI
Hardened carbon steel
Durocoat® corrosion protection

HD headform / drive

- Hexagon 8 mm A/F

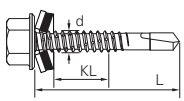



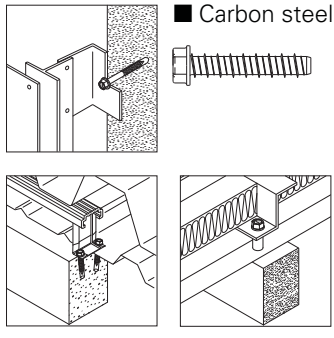
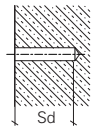
Accessories

DB 620

- Hammer drilling machine for predrilling concrete and masonry.

Order information

	Hexagon 8 mm A/F 
KL effective thread length d thread diameter L overall length t thickness of structure All measures in mm	

		Order code				Application range
		Type	d	L	KL	
	■ Carbon steel	TI-	6,3x	32	12	 Required tooling: Drive shaft ZA 1/4", Socket E 380, Depth locator Z 661/IF Min. embedment 25 mm Drill 10 mm deeper than embedment
		TI-	6,3x	45	25	
		TI-	6,3x	55	35	
		TI-	6,3x	65	45	
		TI-	6,3x	75	55	
		TI-	6,3x	85	65	
		TI-	6,3x	95	75	
		TI-	6,3x	115	95	

	4Plus: Carbide-geometry Dynamic, chisel-shaped drill bit head Multi-fluted, spacious KVS-spiral Unique KVS-flute design
d diameter L overall length F working length t thickness of structure All measures in mm	

Order code						KL	Application range
Type	d	L	F	Code			
SDS-	5,0x	110/	50-	4PLUS	50	5, 6, 7, 8, 10 and 12 mm for diverse applications	
SDS-	5,0x	160/	100-	4PLUS	100		
SDS-	5,0x	210/	150-	4PLUS	150		
SDS-	5,2x	160/	100-	4PLUS	100	5,2 mm for TI-screw on hard concrete	
SDS-	5,2x	210/	150-	4PLUS	150		
SDS-	5,2x	260/	200-	4PLUS	200		
SDS-	5,2x	310/	310-	4PLUS	250		
SDS-	5,2x	360/	300-	4PLUS	300		
SDS-	6,0x	160/	100-	4PLUS	100	5, 6, 7, 8, 10 and 12 mm for diverse applications	
SDS-	10,0x	160/	100-	4PLUS	100	5, 6, 7, 8, 10 and 12 mm for diverse applications	
SDS-	10,0x	210/	150-	4PLUS	150		
SDS-	10,0x	260/	200-	4PLUS	200		
SDS-	10,0x	250/	250-	4PLUS	250		

MBRK / MBR



Technical information

Applications

Anchoring facade structure of metal or timber:

- concrete
- solid brick
- hollow concrete

Material

Fastener

- MBRK / MBR

Anchor sleeve:

Nylon

Drive:

HX = Hexagonal 13 mm

Screw:

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

HD headform / drive

- Hexagon H18 13 mm A/F

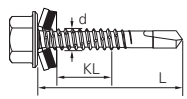



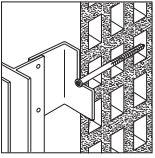

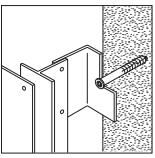
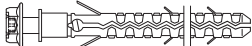
Accessories

DB 620

- Hammer drilling machine for pre-drilling concrete and masonry.

Order information

	<p>Hexagon H18 13 mm A/F</p> 	
<p>KL effective thread length HD headform / drive d thread diameter L overall length t thickness of structure All measures in mm</p>		

		Order code				KL	Application range
Applications	Product	Type	HD	d	L		
	<p>● Stainless steel</p> 	<p>MBRK-S4- H18- 10,0x 60</p>				<p>10</p>	<p>Anchoring depth min. 50 mm embedment</p> <p>Area of application - Concrete, solid brick</p> <p>MBRK requires a pilot hole typically 10 mm in concrete / masonry.</p> <p>It is recommended to carry out a pull-out test first to determine the ultimate anchor performance.</p>
	<p>● Stainless steel</p> 	<p>MBR-S4- H18- 10,0x 80</p>				<p>10</p>	<p>Anchoring depth min. 70 mm embedment</p> <p>Area of application - Concrete, solid brick - Chalky sandstone - Hollow concrete - Full brick of light concrete</p>
		<p>MBR-S4- H18- 10,0x 100</p>				<p>30</p>	

MDD



Technical information

Applications

Pressure-resistant insulating materials, polyurethane rigid foam board, polystyrene and mineral wool slab

- For general purpose use in hard and soft insulation boards
- Suitable for all substrates
- Suitable for insulation thickness up to 180 mm thick

Material

Fastener

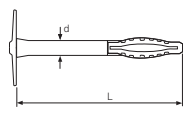
- MDD
- Plug:** Polyamide
- Pin:** Polyamide

Disc

- MDD-VS:
Disc for MDD Ø 90 mm
Polyamide



Order information



d thread diameter | L overall length | SD Setting depth | t thickness of structure | All measures in mm

Applications	Product	Order code			SD	Application range	
		Type	d	L			
	<p>● Plastic</p>						
			MDD-	10,0x	70	30	<ol style="list-style-type: none"> 1. Drill a pilot hole 2. Install plug until head lies flush on insulation surface 3. Drive-in the nail with a hammer 4. Nail has to be hammered into the head
			MDD-	10,0x	90	30	
			MDD-	10,0x	110	30	
			MDD-	10,0x	130	30	
			MDD-	10,0x	150	30	
			MDD-	10,0x	180	30	
	MDD-	10,0x	210	30			

MDD-S



Technical information

Applications

- Thermal insulation composite systems with rendering
- For general purpose use in hard and soft insulation boards
 - Suitable for all substrates
 - Suitable for insulation thickness up to 210 mm

Material

Fastener

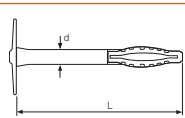
- MDD-S
Plug: Polyamide
Pin: Zinc plated steel

Disc

- MDD-VS:
Disc for MDD Ø 90 mm
Polyamide



Order information



d thread diameter | L overall length | SD Setting depth | t thickness of structure | All measures in mm

Applications	Product	Order code			SD	Application range
		MDD-S	8,0x	90		
	<p>● Plastic</p>	MDD-S-	8,0x	90	30	<ol style="list-style-type: none"> 1. Drill a pilot hole 2. Install plug until head lies fl ush on insulation surface 3. Drive-in the nail with a hammer 4. Nail has to be hammered into the head
		MDD-S-	8,0x	110	30	
		MDD-S-	8,0x	130	30	
		MDD-S-	8,0x	150	30	
		MDD-S-	8,0x	170	30	
		MDD-S-	8,0x	190	30	
		MDD-S-	8,0x	210	30	
		MDD-S-	8,0x	240	30	

MDS



Technical information

Applications

- Pressure-resistant insulating materials, mineral wool
- For general purpose use in soft insulation
 - Suitable for all substrates
 - Suitable for insulation thickness up to 140 mm

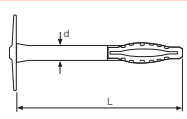
Material

Fastener

- MDS

Plug: Polyamide

Order information



d thread diameter | L overall length | SD Setting depth | t thickness of structure | All measures in mm

Applications	Product	Order code			SD	Application range
		Type	d	L		
	<p>● Plastic</p>	MDS-	8,0x	60	20	<p>1. Drill a pilot hole 2. Set plug until head lies flush on insulation</p>
		MDS-	8,0x	80	20	
		MDS-	8,0x	100	20	
		MDS-	8,0x	120	20	
		MDS-	8,0x	140	20	
		MDS-	8,0x	160	20	

MDP



Technical information

Applications

Pressure-resistant insulating materials, polyurethane rigid foam board, polystyrene and phenolic board

- For general purpose use in hard insulation
- Suitable for all substrates
- Suitable for insulation thickness up to 140 mm

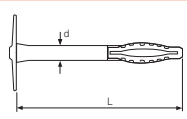
Material

Fastener

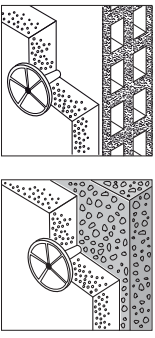

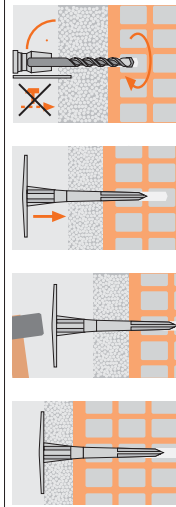
- MDP

Plug: Polyamide

Order information



d thread diameter | L overall length | SD Setting depth | t thickness of structure | All measures in mm

Applications	Product	Order code			SD	Application range
		Type	d	L		
	<p>● Plastic</p> 	MDP-	8,0x	60	20	
		MDP-	8,0x	80	20	
		MDP-	8,0x	100	20	
		MDP-	8,0x	120	20	
		MDP-	8,0x	140	20	
		MDP-	8,0x	160	20	

1. Drill a pilot hole
2. Set plug until head lies flush on insulation

MIDS / MIDSr



Technical information

Applications

- Pressure-resistant insulating materials, polyurethane rigid foam board, polystyrene and mineral wool slabs
- Suitable for all substrates
 - Use the additional large metal disc MDB for soft insulation boards

Material

Fastener

- MIDS
Steel, aluzinc plated
- MIDSr
Austenitic stainless steel
AISI 304 (European standard 1.4301)

Metal disc

- MDB (STVZ):
Metal disc for MIDS Ø 80 mm
Zinc plated steel
- MDB (Inox A2):
Metal disc for MIDSr Ø 80 mm
stainless steel A2

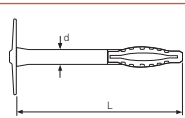


STVZ



Inox A2

Order information



d thread diameter | L overall length | SD Setting depth | t thickness of structure | All measures in mm

Applications	Product	Order code			SD	Application range
		Type	d	L		
	■ Carbon steel 	MIDS-	8,0x	90	30	 For perforated brick SD: 40 mm embedment 1. Drill a pilot hole 2. Assemble the nail to the collar together 3. Install the nail with a hammer 4. Drive the disc until the head is flush to the insulation
		MIDS-	8,0x	110	30	
		MIDS-	8,0x	140	30	
		MIDS-	8,0x	170	30	
		MIDS-	8,0x	200	30	
	● Stainless steel 	MIDSr-	8,0x	90	30	
		MIDSr-	8,0x	110	30	
		MIDSr-	8,0x	140	30	
		MIDSr-	8,0x	170	30	
		MIDSr-	8,0x	200	30	

SLA / SN / SDA / SX / SD2-S



Technical information

Applications

Fastening aluminium framework 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 / SD2-S / SN
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)

Washer

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

Drill point

- milled drill point
- Case hardened, special
carbon steel

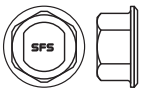
Coloured fastener



Coloured fasteners available.
Colour heads are achieved
through powder coating or
injection moulding.

HD headform / drive

- Hexagon 8 mm A/F



- Low profile Ø 12 mm



- Low profile Ø 10 mm



Accessories

DI 650



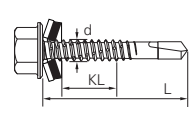




- Lightweight power screwgun for
installing self drilling and self
tapping fasteners.

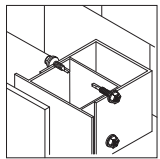

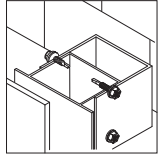

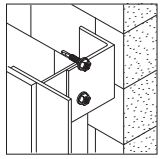

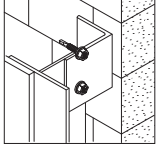



E420 / E380

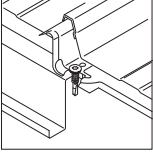

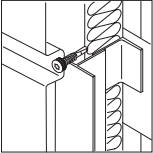

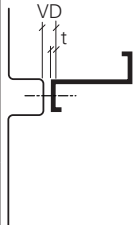


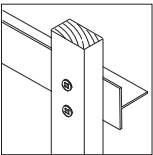
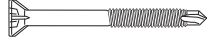



- The setting tool is required for
installing self drilling fasteners
with the *irius*[®] system and
hexagon head.

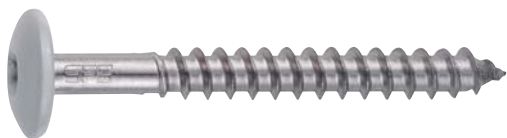
Order information

	Hexagon 8 mm A/F 	Low profile Ø 12 mm 	Low profile Ø 10 mm 	 Coloured fastener	W: Washer material S Stainless Steel A Aluminium
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>					

Applications	Product	Order code							KL	Application range
		SLA	5/	4-6-	S4-	6,0x	19			
	● Stainless steel 	SLA	5/	4-6-	S4-	6,0x	19	4 - 6	VD max. alu: _____ 5,0 mm	
		SLA	5/	6-8-	S4-	6,0x	21			6 - 8
	● Stainless steel 	SN	5/	12-		5,5x	22	6	Only for aluminium framework	
		SDA	3-		S4-	A14-	4,8x			19
	● Stainless steel 	SN	3/	9-		4,2x	16	6	t min. alu: _____ 2,0 mm	
		SN	3/	11-		4,8x	19			Only for aluminium framework
	● Stainless steel 	SX	3/	9-	S16-	6,0x	29	9	VD max. steel: _____ 3,0 mm	
	● Stainless steel 	SX	5/	8-	S16-	5,5x	31	8	t min. steel: _____ 2 x 0,63 - 0,9 mm	
		SX	5/	12-	S16-	5,5x	35			12
									t min. alu: _____ 1,0 mm	
									VD max. steel: _____ 5,0 mm	
									t min. steel: _____ 1,5 mm	
									t max. steel: _____ 4,0 mm	
									t min. alu: _____ 2,0 mm	

Applications	Product	Order code							KL	Application range
		SX	5/	12-	D12-	5,5x	35			
		Type	VD	KL	HD	W*	d	L		
	● Stainless steel 	SX	5/	12-	D12-		5,5x	35	12	<u>VD max. steel:</u> 5,0 mm <u>t min. steel:</u> 1,5 mm <u>t max. steel:</u> 4,0 mm <u>t min. alu:</u> 2,0 mm <u>t max. alu:</u> 4,0 mm
	● Stainless steel 	SX	5/	12-	D12-	A12-	5,5x	35	12	Bit: T25W  <u>VD max. steel:</u> 5,0 mm <u>t min. steel:</u> 2,0 mm <u>t min. alu:</u> 3,0 mm
	● Stainless steel 	SD2-S-			D7-		4,8x	23		Bit: T25W <u>t min. alu:</u> 3,0 mm
	● Stainless steel 	SX	2/	8-	D9-		4,8x	22	8	
	● Stainless steel A4 	SDA	3/	25-40-	S4-S10/	SR2-	4,8x	48	25 - 40	<u>VD max. steel:</u> 3,0 mm <u>VD max. alu:</u> 3,0 mm
	● Stainless steel 	SD2-S-			S10/T20-		6,0x	45		Timber batten to aluminium

TW-S / TW-A4



Technical information

Applications

Non metallic high performance cladding panel to timber batten.

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 or
injection moulding.

HD headform / drive

- Low profile Ø 12 mm



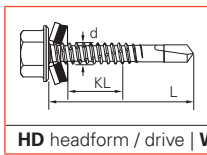


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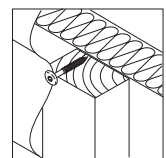
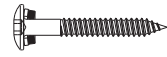
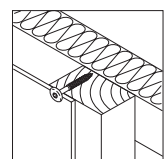
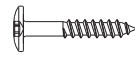
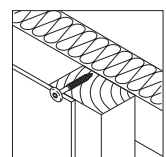
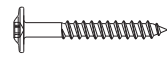
DI 650



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

Order information

	<p>Low profile Ø 12 mm</p> 	 <p>Coloured fastener</p>	
<p>HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>			

		Order code							
		TW-S- D12-A10-4,8x 38							
Applications	Product	Type	HD	W*	d	L	KL	Application range	
	<p>● Stainless steel</p> 	<p>TW-S-</p>	<p>D12-</p>	<p>A10-</p>	<p>4,8x</p>	<p>38</p>		<p>Bit: T20W</p>	
	<p>● Stainless steel</p> 	<p>TW-S-</p>	<p>D12-</p>		<p>4,8x</p>	<p>25 30 38 44 60</p>		<p>Bit: T20W</p>	
	<p>● Stainless steel A4</p> 	<p>TW-A4-</p>	<p>D12-</p>		<p>4,8x</p>	<p>38</p>		<p>Bit: T20W</p>	

SCFW-S



Technical information

Applications

Self drilling fastener for non metallic high performance cladding panel to timber batten.

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



- Wings produce the required
oversized hole in the cladding
panel.

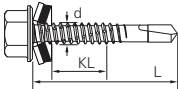


Accessories

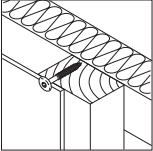
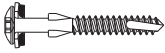
DI 650



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

Order information

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

		Order code							
		SCFW-S- D10K- A12- 5,0x 40							
Applications	Product	Type	HD	W*	d	L	KL	Application range	
	<p>● Stainless steel</p> 	SCFW-S-	D10K-	A12-	5,0x	40	8	<p>Bit: T20W</p> <p>Overall wings diameter: 6,2 mm</p>	

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



- A special off set drill tip provides
the required oversized hole in the
cladding panel.

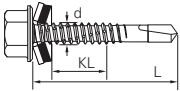


Accessories

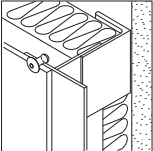

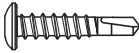
DI 650



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

Order information

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

		Order code							
		SDF2-S- D10- 4,5x 24							
Applications	Product	Type	HD	d	L	KL	Application range		
	<p>● Stainless steel</p> 	<p>SDF2-S- D10- 4,5x 24</p>	<p>6 - 14</p>	<p>VD max. steel: _____ 1,25 mm</p> <p>t min. steel: _____ 0,7 mm</p>					
	<p>● Stainless steel</p> 	<p>SX3- D10- 4,8x 24</p>	<p>6 - 14</p>	<ul style="list-style-type: none"> - Excentric drill point enables the fibre cement panel to be fixed at any point - No jacking of the fibre cement panel - Secure, durable attachment of fibre cement panels <p>SX3-D10 for fixed point with HPL/CP panels</p> <p>Bit: T20W</p>					

SX

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)

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



Accessories

DI 650



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

E420



- The setting tool is required for
installing self drilling fasteners
with the *irus*[®] system.

Order information

	<p>irus® Ø 12 mm</p>	<p>Coloured fastener</p>	<p>W: Washer material</p> <p>S Stainless Steel A Aluminium</p>
<p>VD max. drill capacity KL effective thread length HD headform / drive W washer material and diameter d thread diameter L overall length t thickness of structure All measures in mm</p>			

Applications	Product	Order code							KL	Application range
		SX	3/	9-	L12-	5,5x	28			
	<p>● Stainless steel</p>	SX	3/	9-	L12-	A12-	6,0x	29	9	<p>VD max. steel: <u> </u> 3,0 mm 2,0 mm</p> <p>t min. steel: <u> </u> 2 x0,6 -0,9 mm</p> <p>t min. alu: <u> </u> 2,0 mm</p>
	<p>● Stainless steel</p>	SX	5/	8-	L12-	A12-	5,5x	31	8	<p>VD max. steel: <u> </u> 5,0 mm</p> <p>t min. steel: <u> </u> 1,5 mm</p> <p>t max. steel: <u> </u> 4,0 mm</p> <p>t min. alu: <u> </u> 2,0 mm</p> <p>t max. alu: <u> </u> 4,0 mm</p>
	<p>● Stainless steel</p>	SX	14/	12-	L12-	A12-	5,5x	40	12	<p>VD max. steel: <u> </u> 14,0 mm</p> <p>t min. steel: <u> </u> 4,0 mm</p> <p>t min. alu: <u> </u> 5,0 mm</p>

AP / ASO



Technical information

Applications

Face fixing of high performance cladding panel to aluminium framework.

Material

Fastener

- AP
Body: Aluminium AIMg5
Mandrel: Stainless steel 1.4541
- ASO
Body: Aluminium AIMg3
Mandrel: Stainless steel 1.4541

Coloured fastener



Coloured fasteners available.
Colour heads are achieved through powder coating.

Accessories

AccuBird®



- For standard blind rivets 2 - 5 mm and for Bulb-tite® rivets 4 - 6,3 mm
Stand-off nose piece required for flexible point.

Lever tool RM-20



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

Lazy tongs RM-25



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

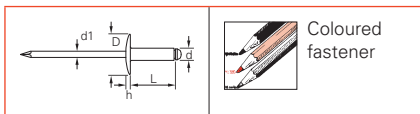


- Special stand-off nosepiece for AP and ASO rivets.
Fits to AccuBird® and PowerBird®.

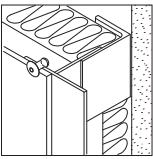

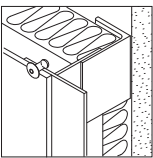
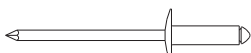
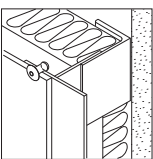
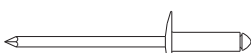
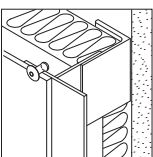
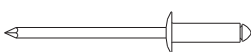
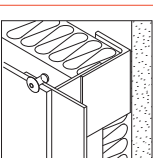
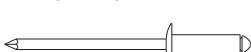


- Handle for centered drill bit
Ø 5,1 mm.

Order information



HD headform / drive | KL Grip range | d x L diameter / length | t thickness of structure | All measures in mm

Application	Product	Order code		KL min. max.	d x L	Application range		
		AP11-	50120-S					
	▲ Aluminium 	AP11-	50120-S	4,0 - 8,0	5,0 x12,0	Head diameter D: 11,0 mm Pilot hole: Ø 5,1 mm		
		AP11-	50180-S				9,5 - 13,5	5,0 x18,0
	▲ Aluminium 	AP14-	50120-S	4,0 - 8,0	5,0 x12,0	Head diameter D: 14,0 mm Pilot hole: Ø 5,1 mm		
		AP14-	50160-S				8,0 - 12,0	5,0 x16,0
		AP14-	50180-S				9,5 - 13,5	5,0 x18,0
		AP14-	50210-S				12,5 - 16,0	5,0 x21,0
	▲ Aluminium 	AP16-	50160-S	8,0 - 12,0	5,0 x16,0	Head diameter D: 16,0 mm Pilot hole: Ø 5,1 mm		
		AP16-	50180-S				9,5 - 13,5	5,0 x18,0
		AP16-	50210-S				12,5 - 16,0	5,0 x21,0
	▲ Aluminium 	ASO- D11-	50080	2,0 - 4,0	5,0 x 8,0	Head diameter D: 11,0 mm Pilot hole: Ø 5,1 mm		
		ASO- D11-	50100				4,0 - 6,0	5,0 x10,0
		ASO- D11-	50120				6,0 - 8,0	5,0 x12,0
		ASO- D11-	50140				8,0 - 10,0	5,0 x14,0
		ASO- D11-	50160				10,0 - 12,0	5,0 x16,0
		ASO- D11-	50180				12,0 - 14,0	5,0 x18,0
		ASO- D11-	50200				14,0 - 15,0	5,0 x20,0
	▲ Aluminium 	ASO- D14-	50080	2,0 - 4,0	5,0 x 8,0	Head diameter D: 14,0 mm Pilot hole: Ø 5,1 mm		
		ASO- D14-	50100				4,0 - 6,0	5,0 x10,0
		ASO- D14-	50120				6,0 - 8,0	5,0 x12,0
		ASO- D14-	50140				8,0 - 10,0	5,0 x14,0
		ASO- D14-	50160				10,0 - 12,0	5,0 x16,0
		ASO- D14-	50180				12,0 - 14,0	5,0 x18,0
		ASO- D14-	50200				14,0 - 15,0	5,0 x20,0

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
(European Standard 1.4301)
- C = Spedcaps coating

GAZ:

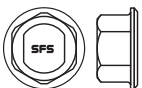
- design elements
A = Aluminium anodised
S = Stainless steel grade 316,
1.4404

Washer

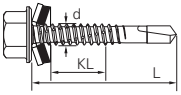

- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)

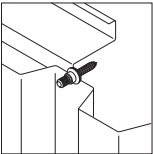
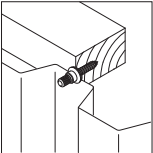
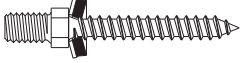
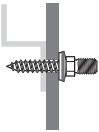
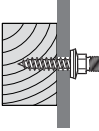
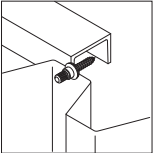
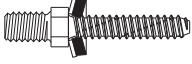
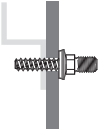
HD headform / drive

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



Order information

	Hexagon: 3/8"~ 9,5 mm A/F 
VD max. drill capacity KL effective thread 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	Order code				KL	Application range
		GA-AS-	S16-	6,5x	45-C		
 	● Stainless steel 	GA-AS-	S16-	6,5x	45-C		  Hexagon: 3/8"~ 9,5 mm A/F Threaded part: M8 x 11 mm Recommended pilot hole diameter: t in mm: pilot hole in mm: timber 4,80
	● Stainless steel 	GA-BS-	S16-	6,3x	32-C		 Hexagon: 3/8"~ 9,5 mm A/F Threaded part: M8 x 11 mm Recommended pilot hole diameter: t in mm: pilot hole in mm: 1,5 – 3,0 4,90 3,1 – 5,0 5,30 5,1 – 10,0 5,80 > 10,0 5,90

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 (removed completely)

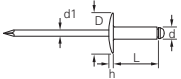

Accessories

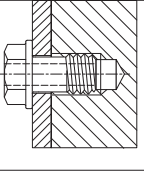
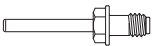
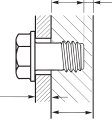
PowerBird®



- For standard blind rivets 4 - 7 mm
and for Bulb-tite® rivets 7,7 mm.

Order information

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

		Order code				
		TU-S- 6,0x 9				
Applications	Product	Type	d	L	KL	Application range
	<p>● Stainless steel A4</p> 	<p>TU-S- 6,0x 9 TU-S- 6,0x 11 TU-S- 6,0x 13</p>	<p>9 11 13</p>	<p>0.5 - 3.5 0.5 - 5.5 2.5 - 7.5</p>		<p>HSS pilot hole, 6 mm dia. with depth stop Min depth 6,5 mm For HPL panels between 8,0 - 13,0 mm thickness</p>

12

Applications	Product code	Page
Self drilling and self tapping fasteners	DI 650	▶ 12.2
Composite panel fasteners	CF 55	▶ 12.3
Fibre cement fasteners	CF 40	▶ 12.4
Concrete drilling	DB 620	▶ 12.5
For rivets	AccuBird®	▶ 12.6
For rivets	PowerBird®	▶ 12.6
Thread forming fastener	BF414	▶ 12.7
Thread forming fastener	BF419	▶ 12.7
For rivets	Lazy tongs RM-25	▶ 12.8
For rivets	Lever tool RM-20	▶ 12.8



DI 650



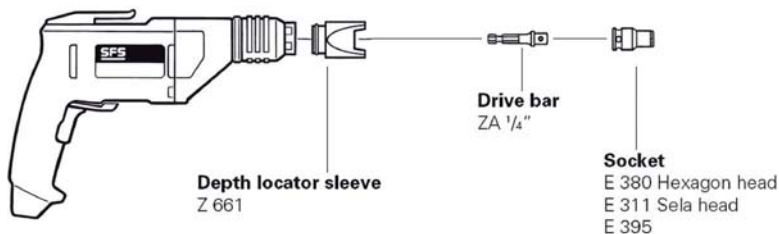
Applications

Lightweight power screwgun for installing self drilling and self tapping fasteners. With a quick release power cable.

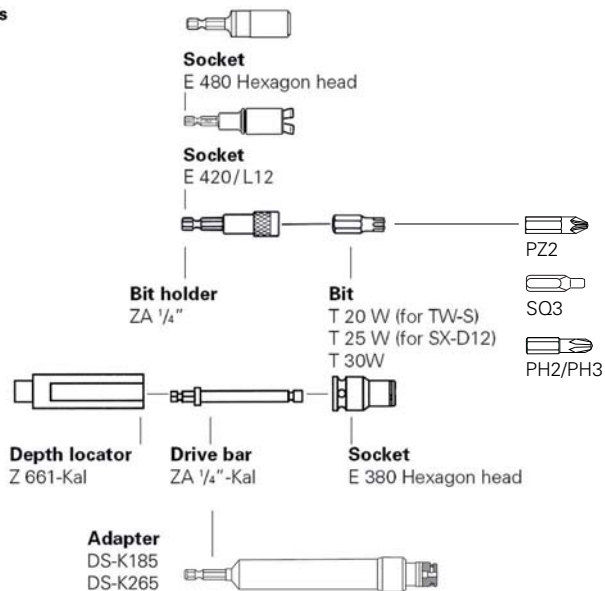
Technical details

Power Tool:	DI 650
Wattage:	650 W
Max. revs:	2000 rpm
Power Supply:	110 V / 220V
Max. torque:	19 N/mm ²
Overall length:	290 mm
Weight:	1,6 Kilogram

Accessories



Optional accessories



CF 55



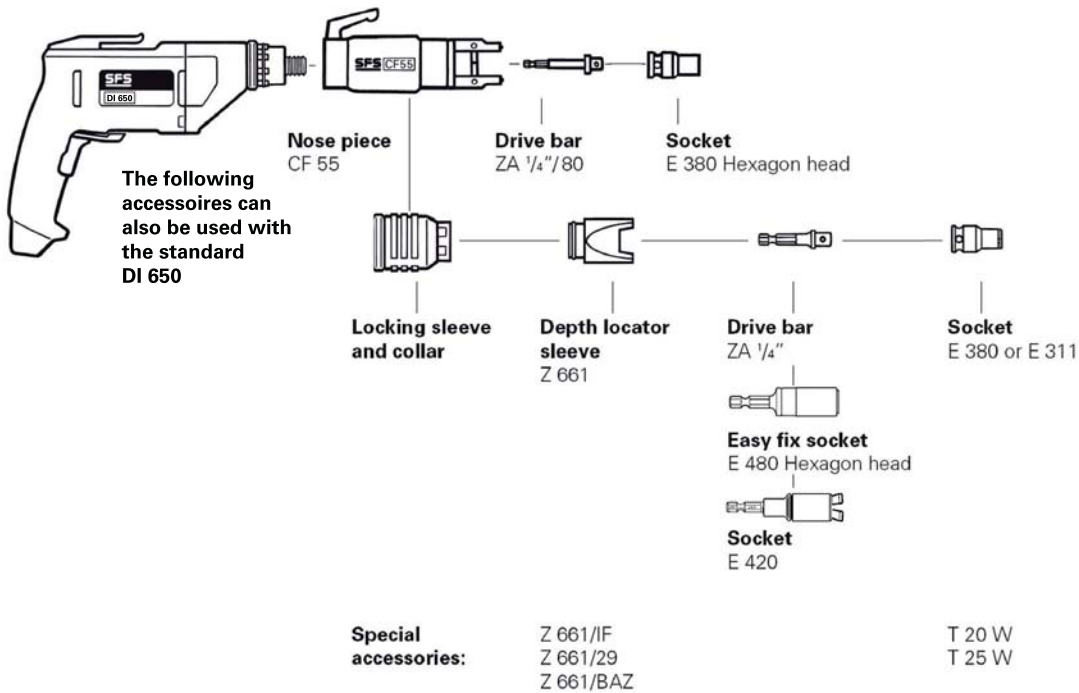
Applications

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

Technical details

Power Tool:	DI 650
Wattage:	650 W
Max. revs:	2000 rpm
Power Supply:	110 V / 220V
Overall length:	400 mm
Weight:	2,4 Kilogram

Accessories



CF 40



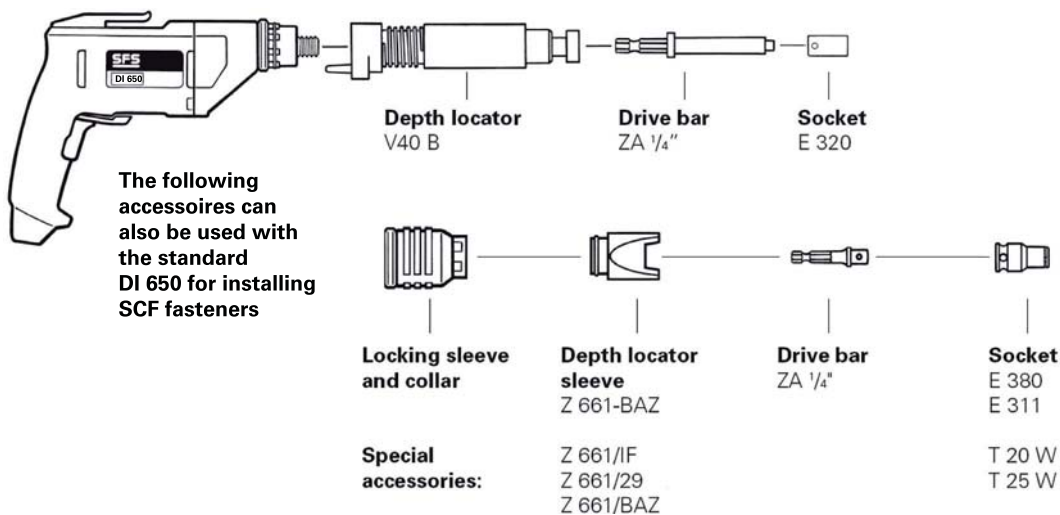
Applications

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 details

Power Tool:	DI 650
Wattage:	650 W
Max. revs:	2000 rpm
Power Supply:	110 V / 220V
Overall length:	465 mm
Weight:	2,2 Kilogram

Accessories



DB 620

**Applications**

Hammer drilling machine for pre-drilling concrete and masonry.

Technical details

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

AccuBird®



Applications

For standard blind rivets 2,0 - 5,0 mm and
for Bulb-tite® rivets 4,0 - 6,3 mm.

Technical details

Weight:	2,2 Kilogram
Pulling distance:	20 mm
Battery:	14,4 Volt, Li-Ion 1,3 Ah
Charging:	60 min.
Pulling strength:	8500 N
For Rivet diameter:	2,0 - 5,0 mm

PowerBird®



Applications

For standard blind rivets 4,0 - 7,0 mm
and for Bulb-tite® rivets 7,7 mm.

Technical details

Weight:	2,2 Kilogram
Pulling distance:	20 mm
Battery:	14,4 Volt, Li-Ion 2,6 Ah
Charging:	60 min.
Pulling strength:	13000 N
For Rivet diameter:	4,0 - 7,0 mm

BF414

**Applications**

Lightweight impact screw gun
1/4" hexagonal drive for TDBL 8,6 mm dia.

Technical details

Max. torque:	136 Nm
Battery:	14-Volt

BF419

**Applications**

Lightweight impact screw gun
1/2" square drive for TDBL 10,6 mm and 8,6 mm dia.

Technical details

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.

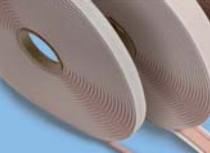

13

Applications	Product code	Page
Cartridge sealant and silicone	LMN / LMA / BR U9 / HM CV	▶ 13.2
Backing rod and fire rated foam	FF / Backing rod Expanding foam	▶ 13.3
Butyl strip, bead and polyband	Type A+ / Type A	▶ 13.4
PVC, aluminium, polycloth tapes	PVC / CW tape Foilband / C seal	▶ 13.5
Pipe flashers, shims and stick pins	MF / Stick pin Packers	▶ 13.6






Product	Order code SILFIX - LMN - Clear - 310ML	Additional Information
	SILFIX - LMN - Clear - 310ML SILFIX - LMN - White - 310ML SILFIX - LMN - Brown - 310ML SILFIX - LMN - Honey - 310ML	Low Modulus Silicone - neutral curing system Cartridge Cartridge Cartridge Cartridge
	SILFIX - LMA - Clear - 310ML SILFIX - LMA - White - 310ML SILFIX - LMA - Brown - 310ML SILFIX - LMA - Ivory - 310ML	Low Modulus Silicone - acetoxo curing system Cartridge Cartridge Cartridge Cartridge
	SEAMSEAL - BR - Grey - 380ML SEAMSEAL - BR - White 380ML	Butyl Rubber Sealant - non setting Cartridge Cartridge
	POLYSEAL - 40 - White - 310ML POLYSEAL - 40 - Black - 310ML POLYSEAL - 40 - Grey - 310ML	Polyurethane Sealant Cartridge Cartridge Cartridge
	SILFIX - U9 - White - 310ML SILFIX - U9 - Brown - 310ML SILFIX - U9 - Grey - 310ML SILFIX - U9 - Black - 310ML SILFIX - U9 - Translucent - 310ML	Low Modulus Silicone - neutral curing system Cartridge Cartridge Cartridge Cartridge Cartridge
	SILFIX - HM - Translucent - 310ML SILFIX - HM - White - 310ML SILFIX - HM - Black - 310ML SILFIX - HM - Brown - 310ML	High Modulus Silicone - acetoxo curing system Cartridge Cartridge Cartridge Cartridge
	SIKABOND - T1 - Grey - 310ML SIKABOND - T1 - Black - 310ML SEAMSEAL-CV - White - 380ML	Polyurethane adhesive compound - atmospheric moisture curing Cartridge Cartridge Butyl Sealant Cartridge

Product	Order code BACKING ROD 6MM x 1500M	Additional Information
	BACKING ROD 6MM x 1500M BACKING ROD 15MM x 550M BACKING ROD 20MM x 350M BACKING ROD 25MM x 200M BACKING ROD 30MM x 150M BACKING ROD 40MM x 80M	Roll Roll Roll Roll Supplied in 2M lengths Supplied in 2M lengths
	CONSTRUCTION FOAM HAND GRADE CONSTRUCTION FOAM GUN GRADE FIRE FOAM NOZZLE GRADE	Construction foam 750ML, canister 700ML, canister Fire rated foam 700ML, canister
	SKELETON-GUN-380ML SKELETON-GUN-310ML FOAM-GUN-CONTRACTOR FOAM-GUN-PROFESSIONAL CONSTRUCTION-FOAM-SOLVENT	Cartridge guns for sealants Cartridge Cartridge Applicator guns and cleaners

Product	Order code SFS BUTYL TYPE A+ 6x5MM	Additional Information
 <p>25 year warranted pink strip butyl</p>	<p>SFS BUTYL TYPE A+ 6x5MM SFS BUTYL TYPE A+ BEAD 3MM SFS BUTYL TYPE A+ BEAD 4MM SFS BUTYL TYPE A+ BEAD 6MM SFS BUTYL TYPE A+ BEAD 8MM</p> <p>POLYBAND A+ 50x100MMx35M</p>	<p>Pink strip butyl and bead Type - A+ 9,6M 12M 12M 8M 6M</p> <p>Pink Polyband - Type A+ 35M</p>
 <p>10 year warranted butyl</p>	<p>BUTYL TYPE A 6x5MM BUTYL TYPE A BEAD 4MM BUTYL TYPE A BEAD 6MM BUTYL TYPE A BEAD 8MM BUTYL STRIP TYPE A 6x2MM BUTYL STRIP TYPE A 9x3MM BUTYL STRIP TYPE A 19x2MM BUTYL STRIP TYPE A 20x3MM BUTYL STRIP TYPE A 38x3MM</p> <p>POLYBAND A+ 50x1MM</p>	<p>Butyl strip and bead - Type A 9,6M 12M 8M 6M 22,5M 15M 22,5M 15M 15M</p> <p>Polyband - Type A 35M</p>

Product	Order code PVC-TAPE-50MM-Black	Additional Information
	PVC-TAPE-50MM-BLACK PVC-TAPE-75MM-BLACK PVC-TAPE-100MM-BLACK	PVC Barrier Tape - self adhesive, (colour black) 33M 33M 33M
	PVC-TAPE-50MM-BLACK PVC-TAPE-75MM-BLACK	Clear Polyethylene „CW“ Tape (125mm micron) 30M 50M
	ALUMIN-FOIL-TAPE-50MM ALUMIN-FOIL-TAPE-75MM ALUMIN-FOIL-TAPE-100MM Metalized Polypropylene Type 50MM	Aluminium foil „CW“ Tape (30 micron) 45M 45M 45M Metalized Polypropylene „CW“ Tape (75 micron) 50M
	FOILBAND-50MM-Aluminium FOILBAND-100MM-Aluminium POLYCLOTH-TAPE-BLACK-50MM POLYCLOTH-TAPE-SILVER-50MM POLYCLOTH-TAPE-SILVER-75MM POLYCLOTH-TAPE-SILVER-100MM	Foilband Tape (colour Aluminium) 20M 10M Polycloth (colours Black and/or Silver) 50M, Black 50M, Silver 50M, Silver 50M, Silver
	PVC TAPE CLOSED CELL FOAM PVC TAPE CLOSED CELL FOAM PVC FOAM TAPE CLOSED CELL PVC FOAM TAPE CLOSED CELL PVC FOAM TAPE CLOSED CELL PVC FOAM TAPE CLOSED CELL PVC FOAM TAPE CLOSED CELL PVC FOAM TAPE CLOSED CELL	Anti-Vibration / Isolation Sealing Tapes, adhesive to one side only. (colour Black) 50 x 3MM x 20M 50 x 6MM x 10M Plain PVC Foam Tape - adhesive to one side only (colours White and/or Black) 9 x 3MM x 20M White 9 x 4MM x 15M White 9 x 4MM x 15M Black 19 x 2MM x 25M Black 50 x 3MM x 20M Black 50 x 6MM x 10M Black
	C-SEAL-STRIP-10x10MM C-SEAL-STRIP-10x15MM C-SEAL-STRIP-15x10MM C-SEAL-STRIP-20x20MM C-SEAL-STRIP-25x25MM C-SEAL-STRIP-25x50MM C-SEAL-STRIP-30x80MM C-SEAL-STRIP-40x15MM	„C“ Seal expanding foam tapes width x expanded thickness - length colour 8M Black 6M Black 8M Black 6M Black 4M Black 4M Black 3M Black 6M Black

Product	Order code MF1-6-50-EPDM-BLACK	Additional Information
	<p>MF1-6-50-EPDM-BLACK MF2-32-76-EPDM-BLACK MF3-6-102-EPDM-BLACK MF4-76-152-EPDM-BLACK MF5-102-178-EPDM-BLACK MF6-127-228-EPDM-BLACK MF7-152-280-EPDM-BLACK MF8-178-330-EPDM-BLACK MF9-254-467-EPDM-BLACK MF-M-330-660-EPDM-BLACK</p> <p>MF-FIXING-KIT</p>	<p>Masterflash - square base EPDM pipe flashings for temperatures from -65 deg C to 135 deg C (cold) colour black</p>
	<p>MF1-60-50-SILICONE-RED MF2-32-76-SILICONE-RED MF3-6-102-SILICONE-RED MF4-76-152-SILICONE-RED MF5-102-178-SILICONE-RED MF6-127-228-SILICONE-RED MF7-152-280-SILICONE-RED MF8-178-330-SILICONE-RED MF9-254-467-SILICONE-RED MF-M-330-660-SILICONE-RED</p> <p>MF-FIXING-KIT</p>	<p>Masterflash - square base silicone pipe flashings for temperatures from -74 deg C to 260 deg C (hot) colour - red</p>
	<p>STICK-PIN-62MM STICK-PIN-90MM STICK-PIN-110MM STICK-PIN-165MM</p> <p>PACKING-SHIM-PLASTIC 1MM PACKING-SHIM-PLASTIC 2MM PACKING-SHIM-PLASTIC 3MM PACKING-SHIM-PLASTIC 4MM PACKING-SHIM-PLASTIC 5MM PACKING-SHIM-PLASTIC 6MM PACKING-SHIM-PLASTIC 10MM</p>	<p>Insulation hangers 62mm, non perforated, self adhesive base 90mm, non perforated, self adhesive base 110mm, non perforated, self adhesive base 165mm, non perforated, self adhesive base</p> <p>Plastic packing shims - 62 x 53mm 1mm thick, grey 2mm, thick, yellow 3mm, thick, red 4mm, thick, mushroom 5mm, thick, green 6mm, thick, orange 10mm, thick, black</p>
	<p>NYLON-PLUG-70</p> <p>PL-TOUCH UP PAINT NON-STANDARD AEROSOL PAINT TOUCH UP PASTE</p>	<p>Nylon Plugs, 7mm diameter</p> <p>Touch up paints 500ML, tin 400ML, canister 132g, tube</p>



Flat Roofing



1 Application index

2 Product index

3 Flat roof fastening systems for steel deck

4 Flat roof fastening systems for concrete deck

5 Flat roof fastening systems for aerated concrete deck

6 Flat roof fastening systems for timber deck

7 Flat roof fastening systems for critical decks

8 Fastening of flashings, upstands and terminations

9 Fastening to steel and timber structure

10 Tools and accessories

11 Attachment

How to find the right solution?

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

Search by Table of contents

A fast way to get an overview over the applications and products is this compact table of contents.

Search by Application index

With the application guide, you can search a product and the corresponding chapter via the application.

Search by Product index

A comprehensive specification aid with product drawings and corresponding chapters.

Contact information

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uk.leeds@sfsintec.biz, www.airtight-security.co.uk

Flat roof	Application Index	1
	Product index	2
Flat roof fastening systems for steel deck	<ul style="list-style-type: none"> ■ Carbon steel ISO-TAK® BS / R45 / R75 / ST / TPP-FM isofast® IR2 / IR2-C / IF2-5,5 / IF2-6,1 ● Stainless steel ISO-TAK® BS-S / R45 / R75 isofast® IR2-S 	3
Flat roof fastening systems for concrete deck	<ul style="list-style-type: none"> ■ Carbon steel ISO-TAK® DT / CS-6,1 / TIA-T25 / R45 / R75 / ST isofast® DT / TI / IF2-6,1 ● Stainless steel ISO-TAK® DT-S / TI-S-Z10 / R45 / R75 isofast® DT-S 	4
Flat roof fastening systems for aerated concrete deck	<ul style="list-style-type: none"> ■ Carbon steel ISO-TAK® LBS-T25 / R45 / R75 isofast® IGR-T-T25 ● Stainless steel isofast® IGR-S-T25 	5
Flat roof fastening systems for timber deck	<ul style="list-style-type: none"> ■ Carbon steel ISO-TAK® TS-T25 / R45 / R75 / ST isofast® IG / IWF ● Stainless steel isofast® IW-S 	6
Flat roof fastening systems for critical decks	▲ Aluminium TPR-L	7
Fastening of flashings, upstands and terminations	<ul style="list-style-type: none"> ■ Carbon steel isofast® IR2 / DT / TI / RNR / MNA ● Stainless steel isofast® IR2-S / DT-S / IGR-S-T25 / IGF-S-T25 	8
Fastening to steel and timber structure	<ul style="list-style-type: none"> ■ Carbon steel SD-H15 / SD / SW3-T / SW3-T-H15 SL2 / SL2-H15 / SL3-H15 ● Stainless steel SX / SXW / SL2-S 	9
Tools and accessories	Various tools and accessories for isofast® and ISO-TAK®	10
	Attachment	11

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 phase, with a complete money-saving service package.

See **Section 1**: SFS intec Business Solutions and learn more about how working with SFS intec can make your job so much easier.

Innovative Business Solutions for individual customers

Working together and thereby improving efficiency throughout the supply chain can result in:

- reduced costs
- optimised processes
- Transparent information flows

We are able to work closely with you to address your specific business needs and thereby develop optimum solutions for your specific requirements.



Business Solutions from SFS intec simply make life easier.
For more information see **Section 1 : Business Solutions**

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.

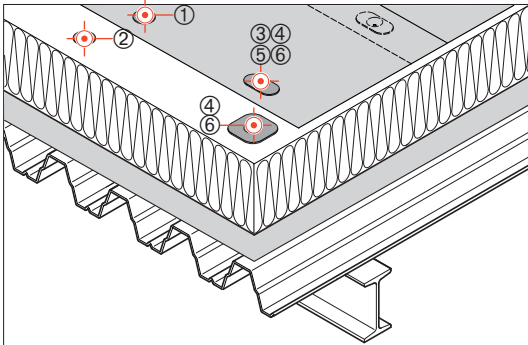
For other applications please contact our technical team.

1 Application index

1

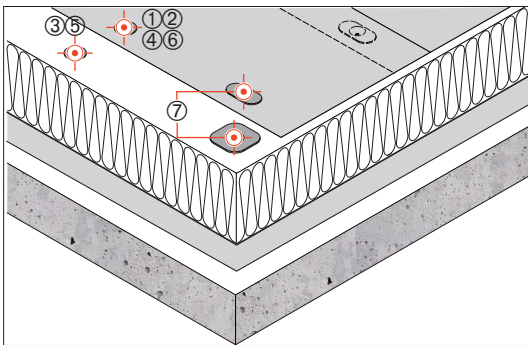
Flat roof fastening systems

Steel deck



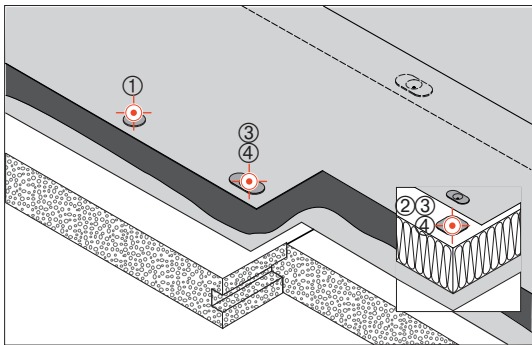
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1	BS / R45	-	■	●	3.3
	BS-S / R45	●	-	●	3.5
2	BS / R75	-	■	●	3.8
	BS-S / R75	●	-	●	3.10
3	BS / ST	-	■	●	3.13
	BS / TPP-FM	-	■	●	3.16
4	IR2	-	■	-	3.21
	IR2-S	●	-	-	3.24
5	IR2-C	-	■	-	3.27
6	IF2-5,5	-	■	-	3.29
	IF2-6,1	-	■	-	3.31

Concrete deck



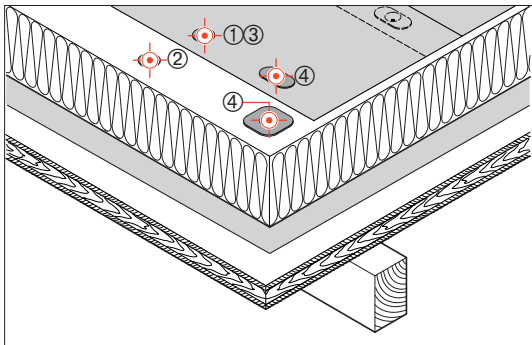
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		Stainless steel	Carbon steel	Plastic	
1	DT / R45	-	■	●	4.2
	CS-6,1 / R45	-	■	●	4.7
	TIA-T25 / R45	-	■	●	4.23
2	DT-S / R45	●	-	●	4.4
	TI-S-Z10 / R45	●	-	●	4.16
3	CS-6,1 / R75	-	■	●	4.10
	TIA-T25 / R75	-	■	●	4.25
4	CS-6,1 / ST	-	■	●	4.13
5	TI-S-Z10 / R75	●	-	●	4.19
6	TIA-T25 / ST	-	■	●	4.27
7	DT	-	■	-	4.35
	DT-S	●	-	-	4.38
	TI	-	■	-	4.43
	IF2-6,1	-	■	-	4.45

Aerated concrete



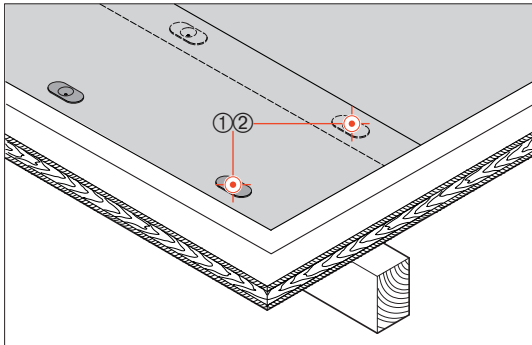
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		Stainless steel	Carbon steel	Plastic	
1	LBS-T25 / R45	-	■	●	5.2
2	LBS-T25 / R75	-	■	●	5.5
3	IGR-S-T25	●	-	-	5.8
4	IGR-T-T25	-	■	-	5.10

Timber deck



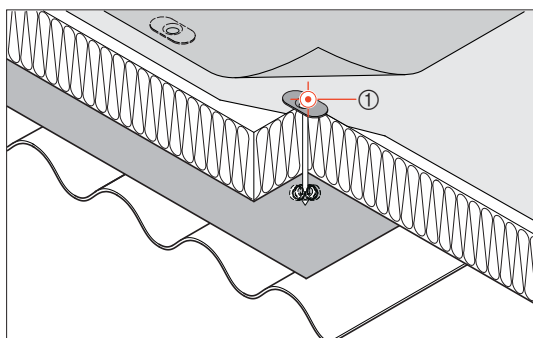
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Plastic	
1	TS-T25 / R45	-	■	●	6.3
2	TS-T25 / R75	-	■	●	6.6
3	TS-T25 / ST	-	■	●	6.9
4	IG	-	■	-	6.12

Timber deck



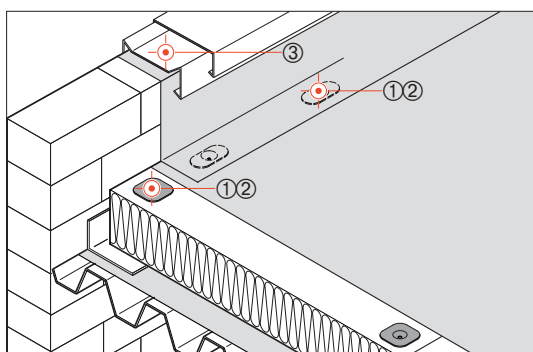
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1	IW-S	●	-	-	6.14
2	IWF	-	■	-	6.16

Critical deck



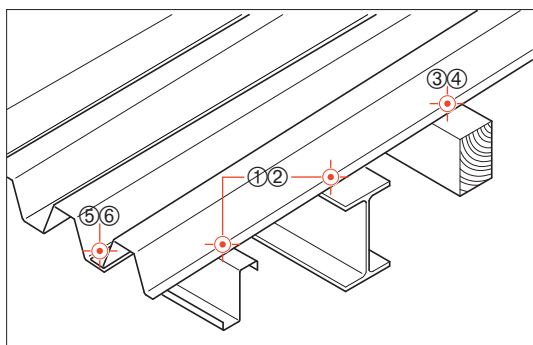
Pos-Nr.	Type	Material			Chapter
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1	TPR -L	-	-	▲	7.3

Flashing and upstands





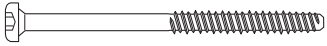

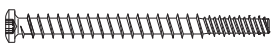

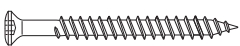
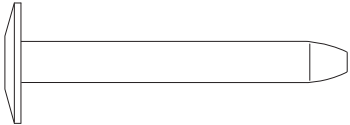
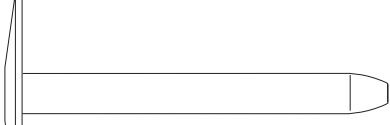
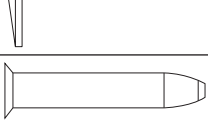
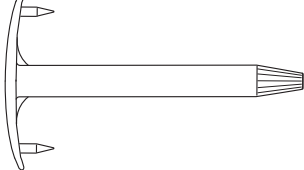



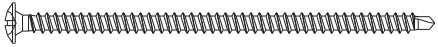

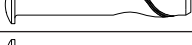
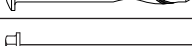
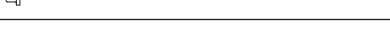
Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Plastic	
1	IR2	-	■	-	8.2
2	IR2-S	●	-	-	8.4
3	DT	-	■	-	8.6
	DT-S	●	-	-	8.9
	TI	-	■	-	8.11
	RNR	-	■	-	8.13
	MNA	-	■	●	8.15
	IGR-S-T25	●	-	-	8.17
	IGF-S-T25	●	-	-	8.19



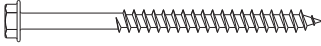
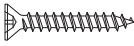

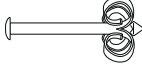

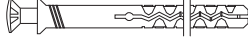




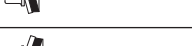









Fastening to steel and timber structure









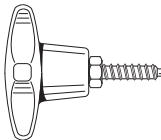


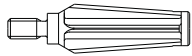

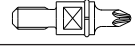






Pos-Nr.	Type	Material			Chapter
		Stainless steel	Carbon steel	Plastic	
1	SX	●	-	-	9.2
2	SD	-	■	-	9.4
3	SXW	●	-	-	9.6
4	SW3	-	■	-	9.6
5	SL-S	●	-	-	9.9
6	SL	-	■	-	9.9

2 Product index

Flat roof fastening systems					
Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium Plastic	
BS		-	■	-	3
BS-S		●	-	-	3
CS-6,1		-	■	-	4/8
TI-S-Z10		●	-	-	4
TIA-T25		-	■	-	4
LBS-T25		-	■	-	5
TS-T25		-	■	-	6
R45		-	-	●	4/5/6
R75		-	-	●	4/5/6
ST		-	-	●	3/4/6
TPP-FM		-	-	●	3
IR2		-	■	-	3/8
IR2-S		●	-	-	3/8
IR2-C		-	■	-	3
IF2-5,5		-	■	-	3
IF2-6,1		-	■	-	3/4
SPIKE® twister DT		-	■	-	4/8
SPIKE® twister DT-S		●	-	-	4/8
TI		-	■	-	4/8

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium Plastic	
IGR-S-T25		●	-	-	5/8
IGR-T-T25		-	■	-	5/8
IG		-	■	-	6
IW-S		●	-	-	6
IWF		-	■	-	6
TPR-L		-	-	▲	7
RNR		-	■	-	8
MNA		-	■	-	8
IGF-S-T25		●	-	-	8
SX		●	-	-	9
SD-H15		-	■	-	9
SD		-	■	-	9
SXW		●	-	-	9
SW3-T		-	■	-	9
SW3-T-H15		-	■	-	9
SL2-S / SL2		●	■	-	9
SL2-H15 / SL3-H15		-	■	-	9
HSS		-	■	-	7/10
SDS		-	■	-	4/7 8/10
ZVK-STOP		-	■	-	4/10
ZVK		-	■	-	4/10
ZAK-500 / ZAK-750		-	■	-	4/10

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium Plastic	
ISO-TAK® 260		-	-	-	3/10
IT19		-	-	-	3/4/10
DB 620		-	-	-	10
DF 21		-	-	-	4/8/10
DP 11		-	-	-	10
ZD 15		-	-	-	4/8/10
TPR 55		-	-	-	7/10
Lever tool RM-20		-	-	-	7/10
AJ60x130-TIA		-	-	-	4/10

Type	Description	Material			Chapter
		Stainless steel	Carbon steel	Aluminium Plastic	
AJ-M6		-	-	-	4/10
ZA1/4"-M6-300 ZA1/4"-M6-670		-	-	-	10
Insert bit		-	-	-	10
ZD-100		-	-	-	10
ZDM-1000		-	-	-	10
DI 650		-	-	-	3/4 6/10
IF 240		-	-	-	10
IF 80-L / IF 80-S		-	-	-	10
CF 400		-	-	-	10

3

ISO-TAK®	Product code	Page
Carbon steel / Plastic sleeve	BS / R45	▶ 3.3
Austenitic stainless steel / Plastic sleeve	BS-S / R45	▶ 3.5
Carbon steel / Plastic sleeve	BS / R75	▶ 3.8
Austenitic stainless steel / Plastic sleeve	BS-S / R75	▶ 3.10
Carbon steel / Plastic sleeve	BS / ST	▶ 3.13
Carbon steel / Plastic sleeve	BS / TPP-FM	▶ 3.16

isofast®	Product code	Page
Carbon steel	IR2	▶ 3.21
Austenitic stainless steel	IR2-S	▶ 3.24
Carbon steel	IR2-C	▶ 3.27
Carbon steel	IF2-5,5	▶ 3.29
Carbon steel	IF2-6,1	▶ 3.31

3

ISO-TAK® fastening systems: Cost effective solutions for increased insulation requirements

Energy saving directives have resulted in a growing trend for increased insulation thickness requirements for flat roofing. Conventional fasteners were not designed for these increased insulation requirements, where longer

fasteners imply additional heat loss through cold bridging of the insulation layer and thereby increased system costs. SFS intec offers an optimum solution for these demanding applications: a combination of a specially

designed fastener and plastic sleeve. This provides resistance to heat flow through the fastener together with a secure and cost effective application.

3

The convincing advantages of the ISO-TAK® system



- Simple, economic solution for increased thickness insulation systems
- Reduced energy loss due to the insulating sleeve
- Secure fixing
- Ergonomic installation with the automated setting tool ISO-TAK® 260
- Increased productivity, due to pre-assembled and magazine loaded fasteners



The ISO-TAK® System: fast, ergonomic and secure

The advantages of this highly reliable fixing method become most apparent with increased insulation thickness. The ISO-TAK® 260 setting tool is particularly effective when used on profiled metal decking. The magazine loaded fasteners are fed automatically and thereby providing a controlled installation process resulting in fast quality installation with complete repeatability.

A complete range

As well as stand-up setting tools for fitting single pre-assembled fastener and sleeve combinations, SFS intec offers a complete range of installation tools, including drills, drives and bits for each application. Efficient installation demands correct and effective tooling.



ISO-TAK® BS / R45



Technical information

Application

For the fastening of waterproof membrane to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material

Fastener

- BS
- Case hardened carbon steel

Sleeve

- R45
- High quality polypropylene, PP

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

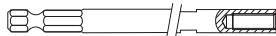
Environment friendly, free of chromium VI

Tools and accessories

DI 650



ZA $\frac{1}{4}$ "-M6-300/670



T25-32-M6



- Power screwdriver for manual installation of fasteners.

IT 19



- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

ISO-TAK® BS / R45

Order information

T25 recess Ø 8,9 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

3

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> <p>CE ETA 05/0170</p> <p>FM APPROVED</p>		BS-	4,8x	50	<p>t min. steel: 0,63 mm</p> <p>t max. steel: 2 x 1,25 mm</p>	
			BS-	4,8x		60
			BS-	4,8x		70
			BS-	4,8x		80
			BS-	4,8x		90
			BS-	4,8x		100
			BS-	4,8x		110
			BS-	4,8x		120
			BS-	4,8x		130
			BS-	4,8x		140
			BS-	4,8x		150
			BS-	4,8x		170
			BS-	4,8x		190
			BS-	4,8x		200
			BS-	4,8x		220
			BS-	4,8x		240
			BS-	4,8x		260
			BS-	4,8x		300
		BS-	4,8x	320		
		BS-	4,8x	360		
<p>● Plastic</p> <p>CE ETA 06/0170</p> <p>SINTEF</p>		R	45x	15	KL see combination table	
			R	45x		35
			R	45x		65
			R	45x		85
			R	45x		105
			R	45x		135
			R	45x		165
			R	45x		185
			R	45x		195
			R	45x		225
			R	45x		255
			R	45x		285
		R	45x	325		
		R	45x	365		
		R	45x	405		

Pre-assembly option

The R45 and BS-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

ISO-TAK® BS-S / R45



Technical information

Application

For the fastening of waterproof membrane to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,0 mm.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material

Fastener

- BS-S
Austenitic stainless steel, grade AISI 316, European Standard 1.4401, grade A4

Drill point and lead thread section

- Fused and hardened carbon steel, length 12 mm, corrosion protected

Sleeve

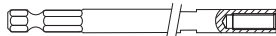
- R45
High quality polypropylene, PP

Tools and accessories

DI 650



ZA¼"-M6-300/670



T25-32-M6



- Power screwdriver for manual installation of fasteners.

IT 19



- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

ISO-TAK® BS-S / R45

Order information

T25 recess Ø 8,9 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

3

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>		BS-S- 4,8x 60				<p>t min. steel: 0,63 mm t max. steel: 2 x 1,0 mm</p>
		BS-S-	4,8x	60		
		BS-S-	4,8x	80		
		BS-S-	4,8x	100		
		BS-S-	4,8x	120		
		BS-S-	4,8x	140		
		BS-S-	4,8x	160		
		BS-S-	4,8x	180		
		BS-S-	4,8x	200		
		<p>● Plastic</p> <p>CE ETA 06/0170 SINTEF</p>		R		
R	45x			35		
R	45x			65		
R	45x			85		
R	45x			105		
R	45x			135		
R	45x			165		
R	45x			185		
R	45x			195		
R	45x			225		
R	45x			255		
R	45x			285		
R	45x			325		
R	45x			365		
R	45x			405		

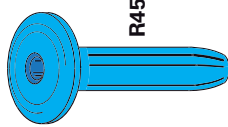
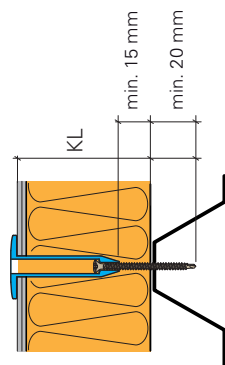
Pre-assembly option

The R45 and BS-S-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

Selection of the correct fastener and sleeve combination

Combination sleeve R45 x L and fastener BS-4,8xL
fastener BS-S-4,8xL *

KL (mm)



BS-4,8xL
BS-S-4,8xL



KL (mm)	Sleeve R45xL	Fastener: BS-4,8xL
3	Sleeve length 3	
4	Sleeve length 4	
5	Sleeve length 5	
6	Sleeve length 6	
7	Sleeve length 7	
8	Sleeve length 8	
9	Sleeve length 9	
10	Sleeve length 10	
11	Sleeve length 11	
12	Sleeve length 12	
13	Sleeve length 13	
14	Sleeve length 14	
15	Sleeve length 15	
16	Sleeve length 16	
17	Sleeve length 17	
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30	Sleeve length 30	
31	Sleeve length 31	
32	Sleeve length 32	
33	Sleeve length 33	
34	Sleeve length 34	
35	Sleeve length 35	
36	Sleeve length 36	
37	Sleeve length 37	
38	Sleeve length 38	
39	Sleeve length 39	
40	Sleeve length 40	
41	Sleeve length 41	
42	Sleeve length 42	
43	Sleeve length 43	
44	Sleeve length 44	
45	Sleeve length 45	
46	Sleeve length 46	
47	Sleeve length 47	
48	Sleeve length 48	
49	Sleeve length 49	
50	Sleeve length 50	

Calculation:
Example: Roof build-up (KL) 160 mm - Sleeve length (L) 135 mm = Type of fastener BS-4,8x60 / BS-S-4,8x60
+ 35 mm = min. length
+ 35 mm = 60 mm ->

ISO-TAK® BS / R75

ISO-TAK® BS / R75



Technical information

Application

For the fastening of insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material

Fastener

- BS
Case hardened carbon steel

Sleeve

- R75
High quality polypropylene, PP

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Tools and accessories

DI 650



- Power screwdriver for manual installation of fasteners.

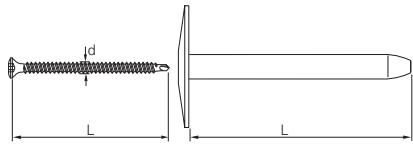
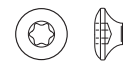
IT 19


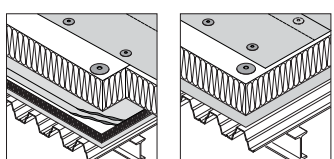


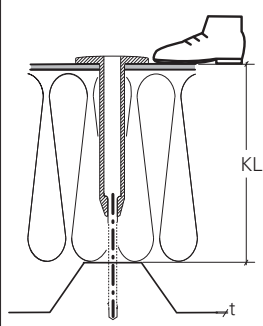
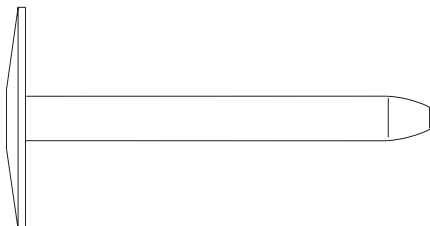




- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

Tools and accessories can be found in chapter 10

Order information

	<p>T25 recess Ø 8,9 mm</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  	 	BS-	4,8x	50	 <p>t min. steel: _____ 0,63 mm</p> <p>t max. steel: _____ 2 x 1,25 mm</p> <p>Pre-assembled fastening elements on request</p>	
		BS-	4,8x	60		
		BS-	4,8x	70		
		BS-	4,8x	80		
		BS-	4,8x	90		
		BS-	4,8x	100		
		BS-	4,8x	110		
		BS-	4,8x	120		
		BS-	4,8x	130		
		BS-	4,8x	140		
		BS-	4,8x	150		
		BS-	4,8x	170		
		BS-	4,8x	190		
		BS-	4,8x	200		
		BS-	4,8x	220		
		BS-	4,8x	240		
		BS-	4,8x	260		
		BS-	4,8x	300		
BS-	4,8x	320				
BS-	4,8x	360				
<p>● Plastic</p> 	 	R	75x	35	<p>KL see combination table</p>	
		R	75x	65		
		R	75x	85		
		R	75x	105		
		R	75x	135		
		R	75x	165		
		R	75x	185		
		R	75x	195		
R	75x	225				
R	75x	255				
R	75x	285				

Pre-assembly option

The R75 and BS-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

ISO-TAK® BS-S / R75

ISO-TAK® BS-S / R75



Technical information

Application

For the fastening of insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,0 mm.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material

Fastener

- BS-S
Austenitic stainless steel, grade
AISI 316, European Standard
1.4401, grade A4

Drill point and lead thread section

- Fused and hardened carbon steel,
length 12 mm, corrosion protected

Sleeve

- R75
High quality polypropylene, PP

Tools and accessories

DI 650



- Power screwdriver for manual
installation of fasteners.

IT 19



- Stand-up setting tool for the
installation of ISO-TAK® fasteners
and sleeves.

Order information

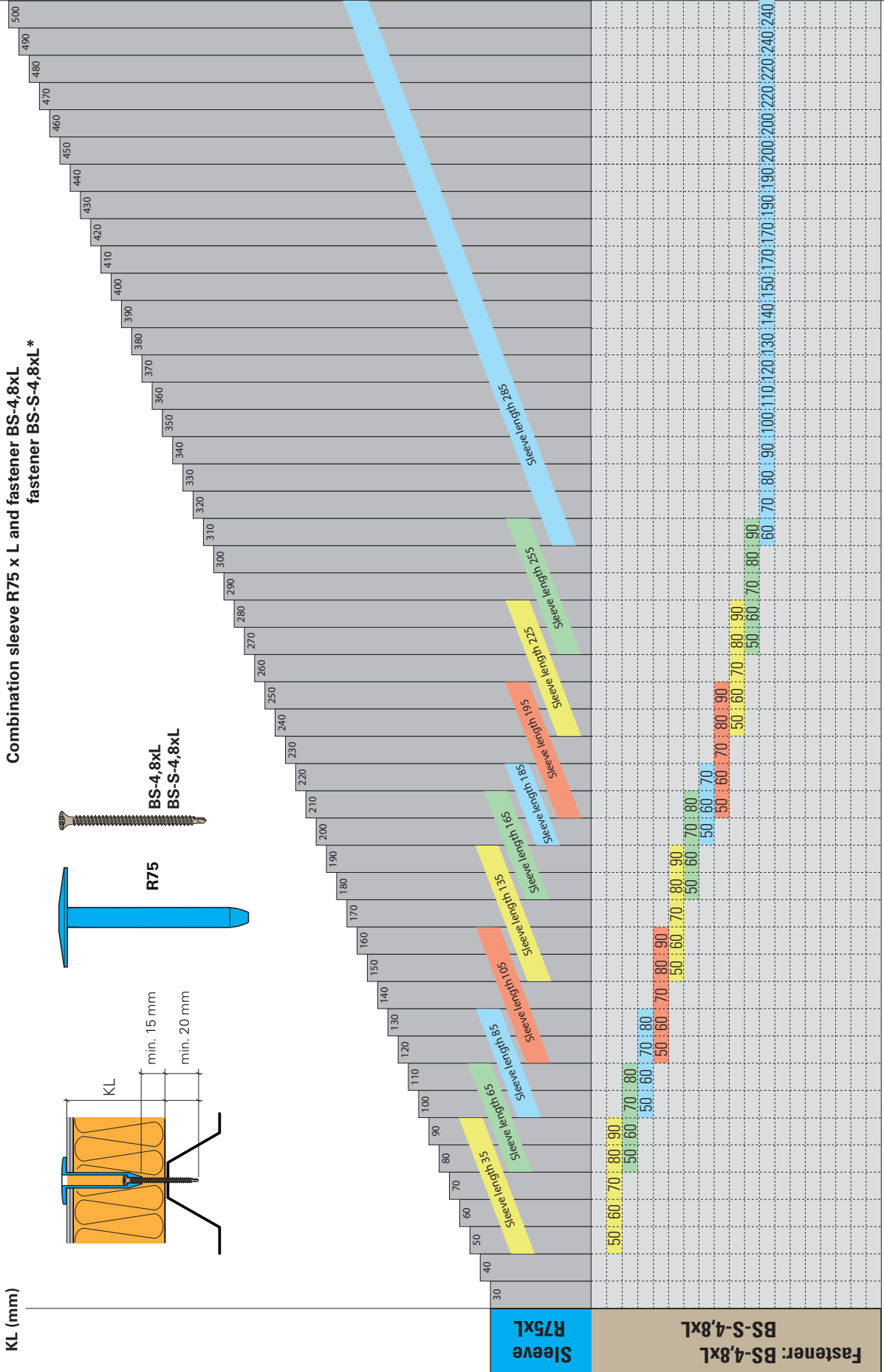
	T25 recess Ø 8,9 mm 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>		BS-S-	4,8x	60	<p>t min. steel: _____ 0,63 mm</p> <p>t max. steel: _____ 2 x 1,0 mm</p>	
		BS-S-	4,8x	80		
		BS-S-	4,8x	100		
		BS-S-	4,8x	120		
		BS-S-	4,8x	140		
		BS-S-	4,8x	160		
		BS-S-	4,8x	180		
		BS-S-	4,8x	200		
<p>● Plastic</p> <p>CE ETA 06/0170</p> <p>SINTEF</p>		R	75x	35		Pre-assembled fastening elements on request KL see combination table
		R	75x	65		
		R	75x	85		
		R	75x	105		
		R	75x	135		
		R	75x	165		
		R	75x	185		
		R	75x	195		
		R	75x	225		
		R	75x	255		
		R	75x	285		

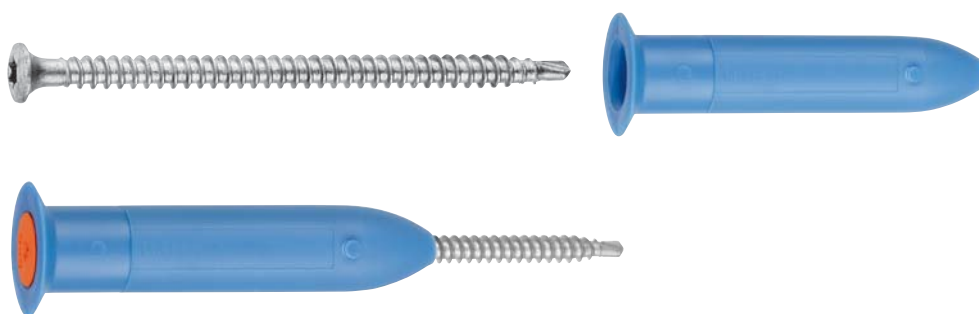
Pre-assembly option

The R75 and BS-S-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

Selection of the correct fastener and sleeve combination



ISO-TAK® BS / ST



Technical information

Application

For the fastening of insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm. ST sleeves are designed for use with Sika-Trocal® membranes, in conjunction with the appropriate Sika-Trocal® metal disc.

Alternatively the ST sleeve can be used to install compatible steel termination bar systems.

When used with the Sika-Trocal® metal disc, the R-CAP-11 plug should be inserted into the sleeve following installation.

Material**Fastener**

■ BS

Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

■ ST

High quality polypropylene, PP

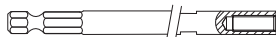
Cap

■ R-Cap-11

High quality polypropylene, PP

**Tools and accessories****DI 650**

ZA 1/4" - M6-300/670



T25-32-M6

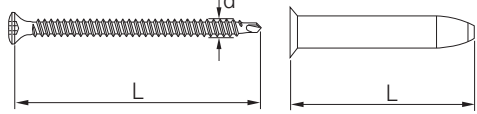
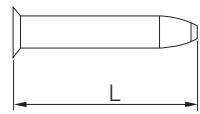
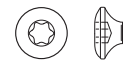


- Power screwdriver for manual installation of fasteners.


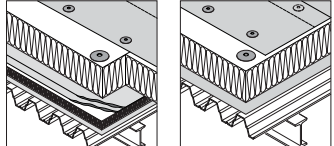


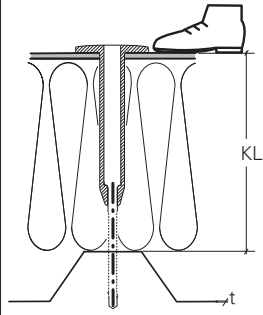
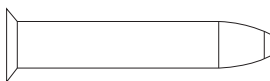

IT 19

- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

Order information

		T25 recess Ø 8,9 mm 
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

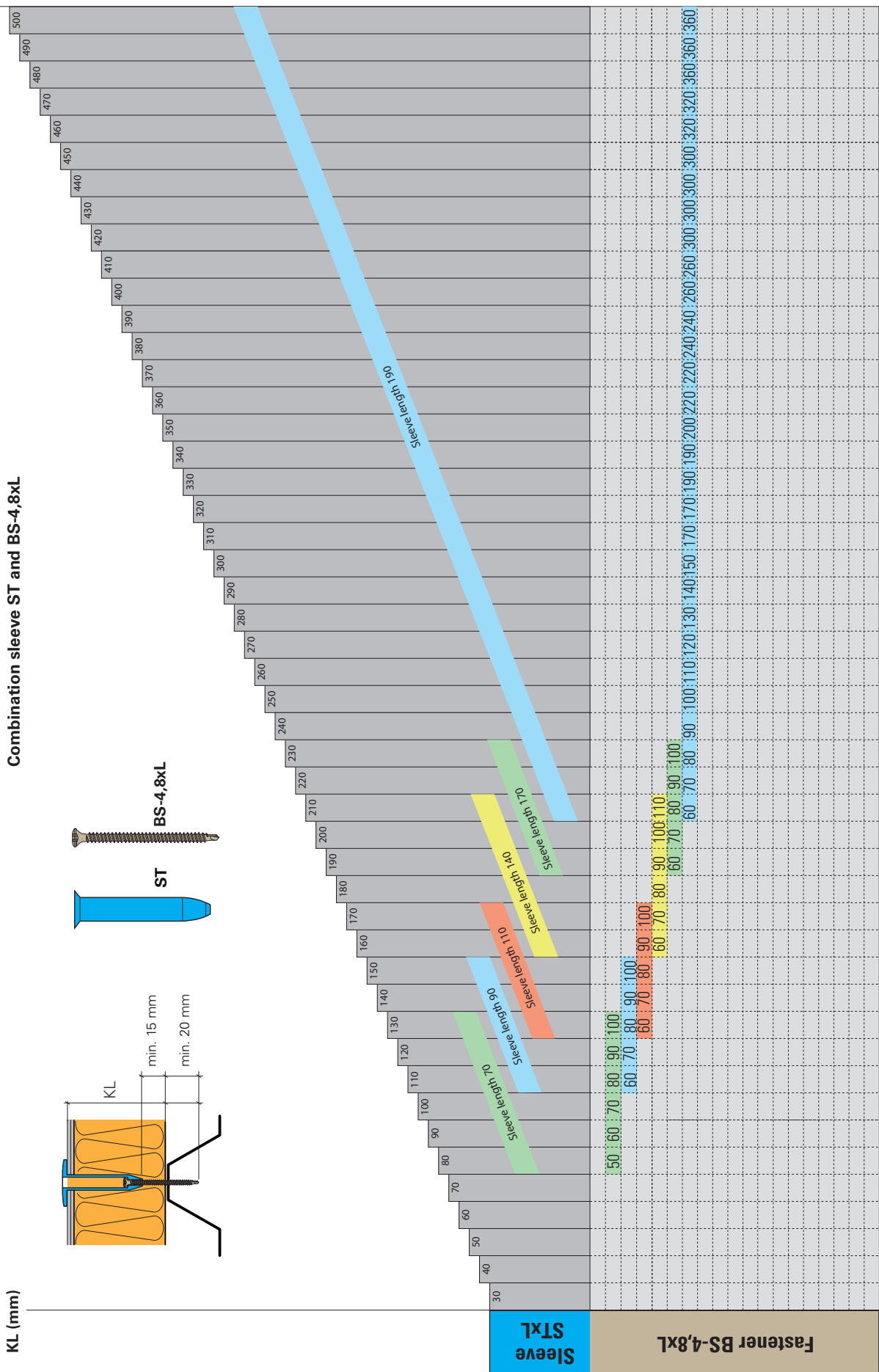
3

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
■ Carbon steel  	 	BS-	4,8x	50	 Pre-assembled fastening elements on request	$t_{\min. \text{ steel: }} \underline{\hspace{2cm}}$ 0,63 mm
		BS-	4,8x	60		$t_{\max. \text{ steel: }} \underline{\hspace{2cm}}$ 2 x 1,25 mm
		BS-	4,8x	70		
		BS-	4,8x	80		
		BS-	4,8x	90		
		BS-	4,8x	100		
		BS-	4,8x	110		
		BS-	4,8x	120		
		BS-	4,8x	130		
		BS-	4,8x	140		
		BS-	4,8x	150		
		BS-	4,8x	170		
		BS-	4,8x	190		
		BS-	4,8x	200		
		BS-	4,8x	220		
		BS-	4,8x	240		
		BS-	4,8x	260		
		BS-	4,8x	300		
		BS-	4,8x	320		
BS-	4,8x	360				
● Plastic 		ST	25x	70	KL see combination table	
		ST	25x	90		
		ST	25x	110		
		ST	25x	140		
		ST	25x	170		
		ST	25x	190		

Pre-assembly option

The ST and BS-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

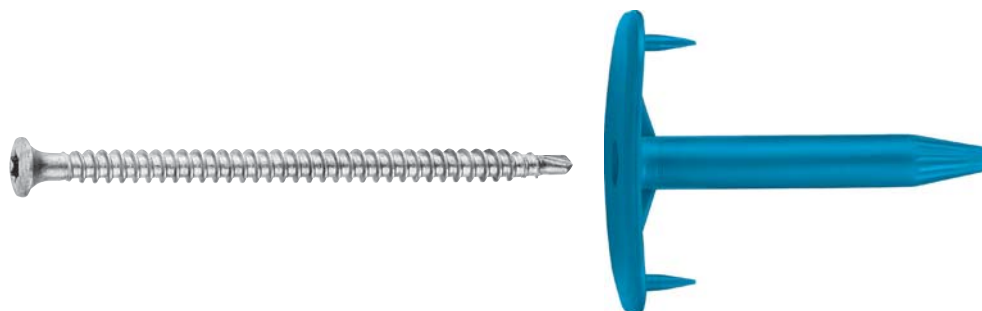
Selection of the correct fastener and sleeve combination



Tools and accessories can be found in chapter 10

ISO-TAK® BS / TPP-FM

ISO-TAK® BS / TPP-FM



Technical information

Application

For the fastening of waterproof membrane to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material

Fastener

- BS
Case hardened carbon steel

Sleeve

- TPP-FM
High quality polyamid, PA 6.6

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Tools and accessories

DI 650



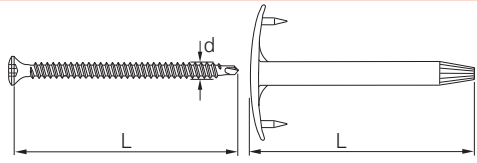
- Power screwdriver for manual installation of fasteners.

IT 19

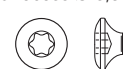


- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

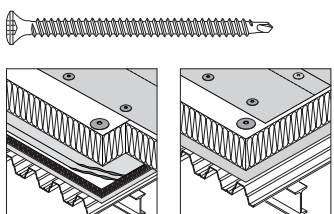
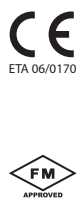
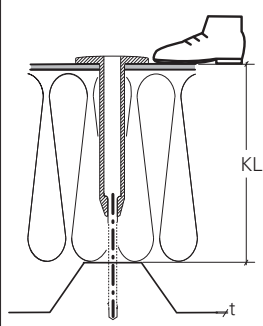
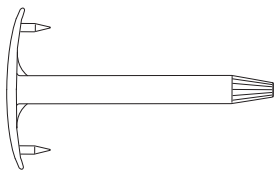

Order information



T25 recess Ø 8,9 mm



KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

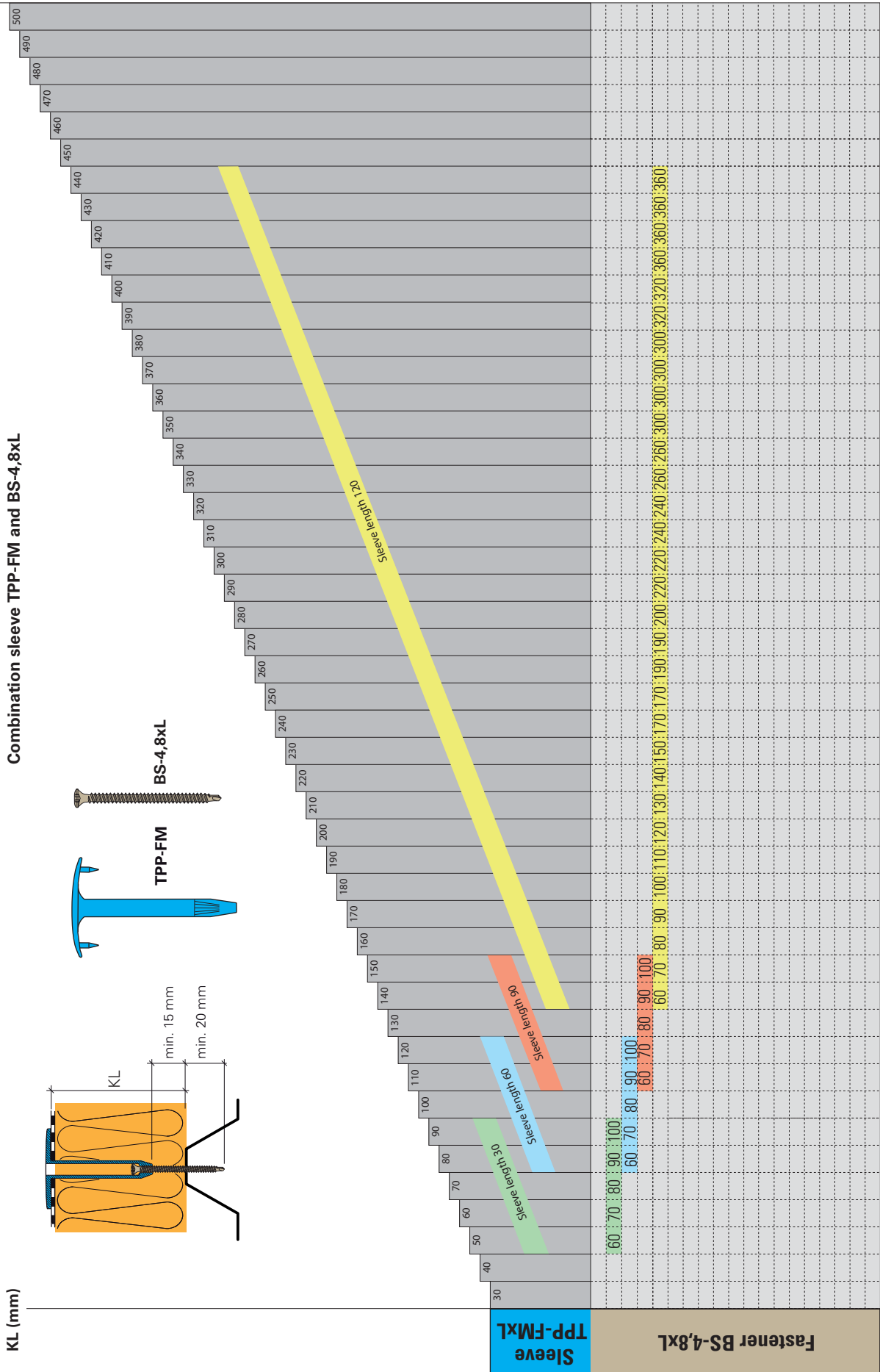
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> 		BS-	4,8x	50	 <p>Pre-assembled fastening elements on request</p>	<p>t min. steel: 0,63 mm</p> <p>t max. steel: 2 x 1,25 mm</p>
		BS-	4,8x	60		
		BS-	4,8x	70		
		BS-	4,8x	80		
		BS-	4,8x	90		
		BS-	4,8x	100		
		BS-	4,8x	110		
		BS-	4,8x	120		
		BS-	4,8x	130		
		BS-	4,8x	140		
		BS-	4,8x	150		
		BS-	4,8x	170		
		BS-	4,8x	190		
		BS-	4,8x	200		
		BS-	4,8x	220		
		BS-	4,8x	240		
		BS-	4,8x	260		
		BS-	4,8x	300		
		BS-	4,8x	320		
BS-	4,8x	360				
<p>● Plastic</p> 		TPP-FMx		30	<p>KL see combination table</p>	
		TPP-FMx		60		
		TPP-FMx		90		
		TPP-FMx		120		

3

Pre-assembly option

The TPP-FM and BS-4,8mm products can be supplied pre-assembled for use with the IT-19 stand up setting tool. Further details are available on request.

Selection of the correct fastener and sleeve combination



Tools and accessories can be found in chapter 10

Fastening systems: Quality, reliable long lasting and ergonomic performance

Today, more than ever, it is essential that the mechanical fastening of insulation and membrane on flat roofs is both fast and efficient. It is equally imperative that these fasteners are installed correctly and thereby function properly throughout the expected life of the roof

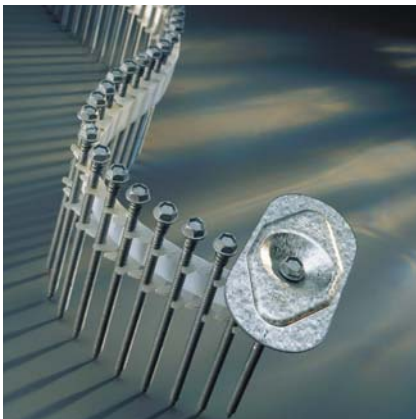
construction. Flat roof fastening systems are subjected to a wide range of thermal, static and dynamic stresses. Correct design is therefore essential to ensure that required performance criterion is achieved. Excellent corrosion resistance is also critical, with environmentally-

friendly coatings of increasing importance. SFS intec have been setting the standards for fastener performance in flat roof applications for many years. The complete fastening systems offer quality, cost effective and innovative fastening solutions.

The convincing advantages of the *isofast*® fastening systems



- A 'treadfast' fastener and stress plate combination ensures that the system is safe to walk on.
- The entire range is available in austenitic stainless steel.
- A complete system featuring the IF240 setting tool for rapid fixing of magazine loaded fasteners.
- Maximum corrosion resistance with safe, chromium VI-free Durocoat® coatings

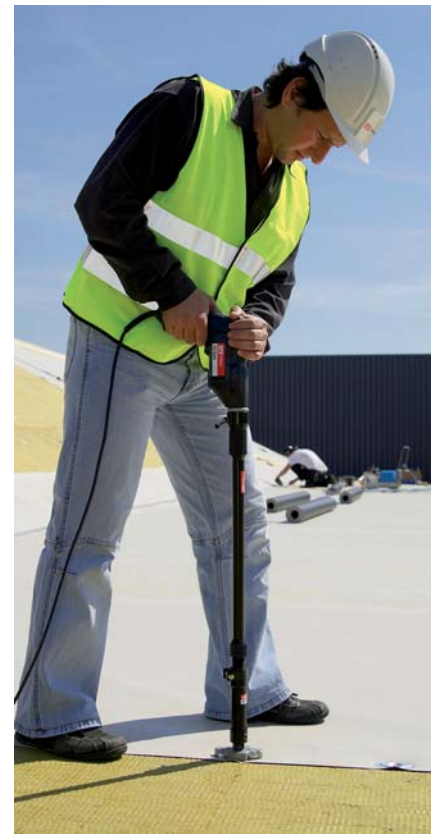


High speed installation due to the magazine fed fasteners

A significant part of the installation cost lies in the manual handling of the fasteners. The IF240 setting tool features automatic feeding of the fasteners and stress plates. This provides a completely automated and controlled installation process from beginning to end. The result is that the subsequent installation speed are many times faster than traditional means and the process offers substantial ergonomic benefits to the installer.

No chance for corrosion

Should fastener applications be required in a corrosive atmosphere (for example within buildings of high relative humidity, in acid or waste treatment plants, chloride or marine environments), austenitic stainless steel fasteners are recommended. For other applications, the Durocoat® chromium VI-free surface coating offers excellent protection, whilst meeting exacting current environmental standards.



isofast® IR2**Technical information****Application**

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material**Fastener**

- IR2
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

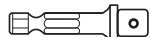
Stress plates

- IF-70x70 / IR-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

ZA 1/4" drive shank



E380



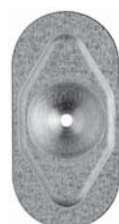
- Power screwdriver for manual installation of fasteners.

IF 240

- Automated setting tool for the installation of magazine loaded *isofast®* fasteners and stress plates.

Stress plates**IF-70x70**

- Stress plate for insulation

IR-82x40

- Stress plate for membrane

isofast® IR2

Order information

Hexagon 8 mm A/F

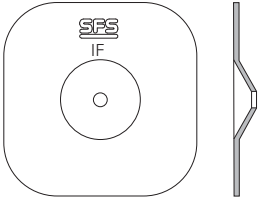
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

3

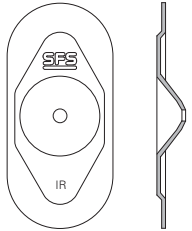
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>		IR2-	4,8x	60	40	<p>t min. steel: _____ 0,63 mm</p> <p>t max. steel: _____ 2 x 1,25 mm</p> <p>Screw length L: KL + 20 mm</p>
		IR2-	4,8x	70	50	
		IR2-	4,8x	80	60	
		IR2-	4,8x	90	70	
		IR2-	4,8x	100	80	
		IR2-	4,8x	110	90	
		IR2-	4,8x	120	100	
		IR2-	4,8x	130	110	
		IR2-	4,8x	140	120	
		IR2-	4,8x	150	130	
		IR2-	4,8x	160	140	
		IR2-	4,8x	180	160	
		IR2-	4,8x	200	180	
		IR2-	4,8x	220	200	
		IR2-	4,8x	240	220	
IR2-	4,8x	260	240			
IR2-	4,8x	280	260			
IR2-	4,8x	300	280			

Stress plates

IF-70X70

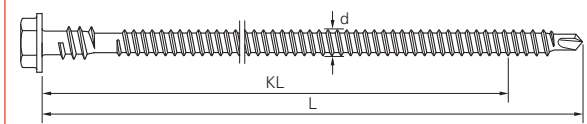





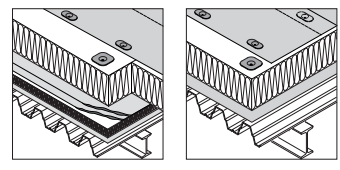
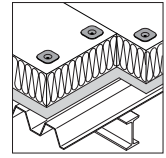
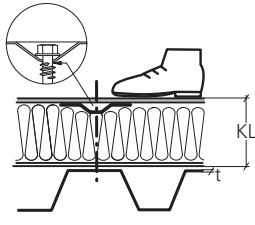
IR-82X40



Tools and accessories can be found in chapter 10

Order information

	<p>Hexagon 8 mm A/F</p> 	<p>magazine loaded</p> 
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

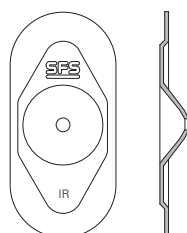
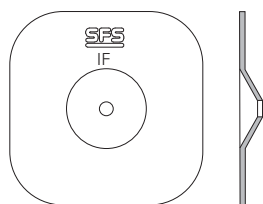
Product / Application	Approval	Order code				KL	Application range
		Type	M	d	L		
<p>■ Carbon steel</p>    <p>CE ETA 08/0321</p> <p>FM APPROVED</p>		IR2-	M-	4,8x	60	40	 <p>t min. steel: 0,63 mm</p> <p>t max. steel: 2 x 1,25 mm</p> <p>Screw length L: KL + 20 mm</p> <p>Attention: The magazine loaded fastener can only be used with the IF 240 setting tool.</p>
		IR2-	M-	4,8x	70	50	
		IR2-	M-	4,8x	80	60	
		IR2-	M-	4,8x	90	70	
		IR2-	M-	4,8x	100	80	
		IR2-	M-	4,8x	110	90	
		IR2-	M-	4,8x	120	100	
		IR2-	M-	4,8x	130	110	
		IR2-	M-	4,8x	140	120	
		IR2-	M-	4,8x	150	130	
		IR2-	M-	4,8x	160	140	
		IR2-	M-	4,8x	180	160	
	IR2-	M-	4,8x	200	180		
	IR2-	M-	4,8x	220	200		
	IR2-	M-	4,8x	240	220		

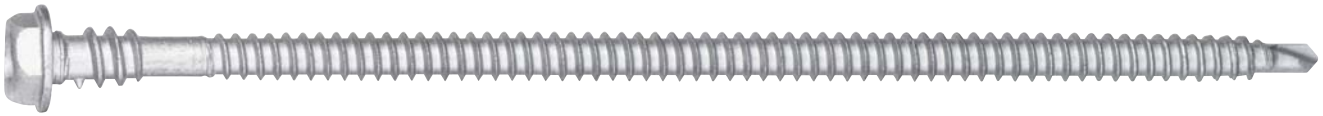
3

Stress plates

IF-70X70

IR-82X40



isofast® IR2-S**isofast® IR2-S****Technical information****3****Application**

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,0 mm.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions. For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material**Fastener**

- IR2-S
Austenitic stainless steel, grade AISI 316, European Standard 1.4401, grade A4

Drill point and lead thread section

- Fused and hardened carbon steel, length 12 mm, corrosion protected

Stress plates

- IF-70x70 / IR-82x40
Steel 1,0 mm, zinc plated
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

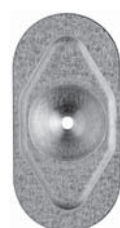
- Power screwdriver for manual installation of fasteners.

IF 240

- Automated setting tool for the installation of magazine loaded *isofast®* fasteners and stress plates.

Stress plates**IF-70x70**

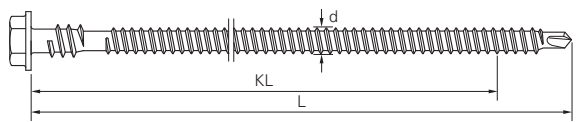
- Stress plate for insulation

IR-82x40

- Stress plate for membrane


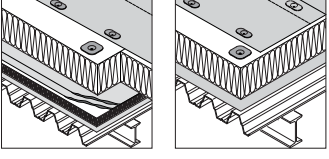
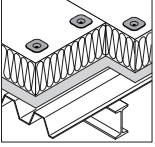

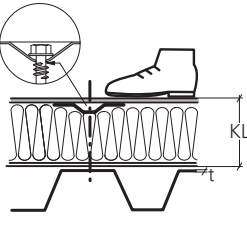
Tools and accessories can be found in chapter 10

Order information



Hexagon 8 mm A/F

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

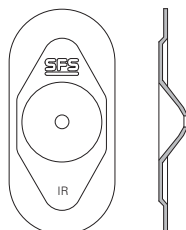
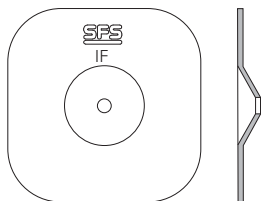
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>   		IR2-S-	4,8x	60	40	 <p>t min. steel: 0,63 mm</p> <p>t max. steel: 2 x 1,0 mm</p> <p>Screw length L: KL + 20 mm</p>
IR2-S-		4,8x	80	60		
IR2-S-		4,8x	100	80		
IR2-S-		4,8x	120	100		
IR2-S-		4,8x	140	120		
IR2-S-		4,8x	160	140		
IR2-S-		4,8x	180	160		
IR2-S-		4,8x	200	180		
IR2-S-		4,8x	220	200		
IR2-S-		4,8x	240	220		
IR2-S-		4,8x	260	240		
IR2-S-		4,8x	280	260		
IR2-S-		4,8x	300	280		

3

Stress plates

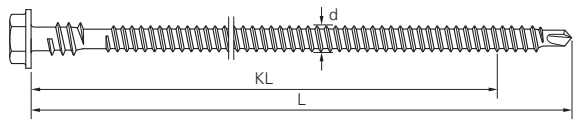
IF-70X70

IR-82X40




isofast® IR2-S


Order information



Hexagon 8 mm A/F


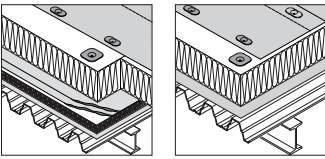
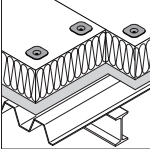

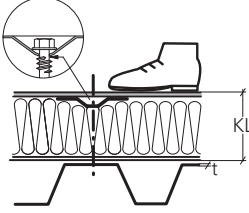


magazine loaded



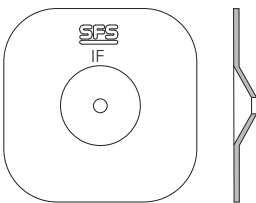
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

3

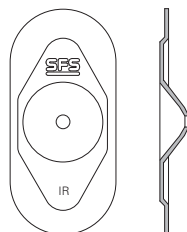
Product / Application	Approval	Order code				KL	Application range
		Type	M	d	L		
<p>● Stainless steel</p>   	 <p>ETA 08/0321</p>	IR2-S-	M-	4,8x	60	40	 <p>t min. steel: 0,63 mm</p> <p>t max. steel: 2 x 1,0 mm</p> <p>Screw length L: KL + 20 mm</p> <p>Attention: The magazine loaded fastener can only be used with the IF 240 setting tool.</p>
IR2-S-		M-	4,8x	80	60		
IR2-S-		M-	4,8x	100	80		
IR2-S-		M-	4,8x	120	100		
IR2-S-		M-	4,8x	140	120		
IR2-S-		M-	4,8x	160	140		
IR2-S-		M-	4,8x	180	160		
IR2-S-		M-	4,8x	200	180		
IR2-S-		M-	4,8x	220	200		
IR2-S-		M-	4,8x	240	220		

Stress plates

IF-70X70



IR-82X40



Tools and accessories can be found in chapter 10

isofast® IR2-C**Technical information****Application**

For the fastening of membrane over hard surface to steel deck. Also for fastening polymeric membrane coated metal and Sika-Trocal® disks over insulation to steel deck. For steel deck thicknesses of between min. 0,63 and max. 2x1,25 mm

Material**Fastener**

- IR2-C
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

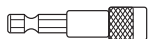
Stress plates

- IRC/W-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

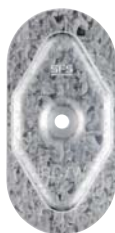
ZA¼" Universal bit holder



SQ3 bit



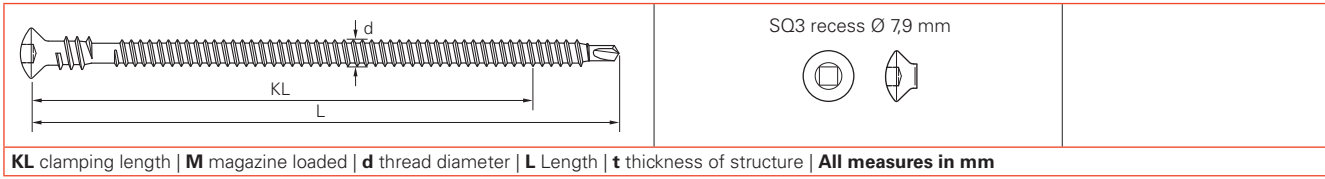
- Power screwdriver for manual installation of fasteners.

Stress plates**IRC/W-82x40**

- Stress plate for membrane

isofast® IR2-C

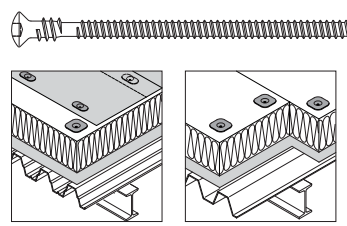

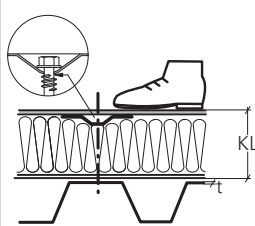
Order information



SQ3 recess Ø 7,9 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

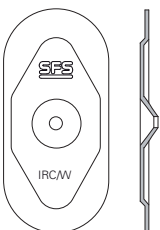
3

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
■ Carbon steel 		IR2-C-	4,8x	60	40	 <p>t min. steel: 0,63 mm t max. steel: 2 x 1,25 mm</p>
		IR2-C-	4,8x	80	60	
		IR2-C-	4,8x	100	80	
		IR2-C-	4,8x	120	100	
		IR2-C-	4,8x	140	120	
		IR2-C-	4,8x	160	140	
		IR2-C-	4,8x	180	160	
		IR2-C-	4,8x	200	180	

Screw length L: KL + 20 mm

Stress plates

IRC/W-82X40



Tools and accessories can be found in chapter 10

isofast® IF2-5,5**Technical information****Application**

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max 2 x 1,25 mm.

Material**Fastener**

- IF2-5,5
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

ZA 1/4" Universal bit holder



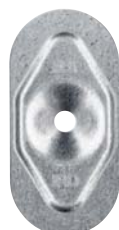
PH3 bit



- Power screwdriver for manual installation of fasteners.

Stress plates**ID-70x70**

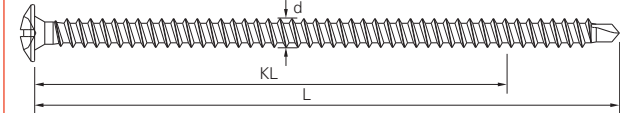
- Stress plate for insulation

IRD-82x40


- Stress plate for membrane

isofast® IF2-5,5

Order information

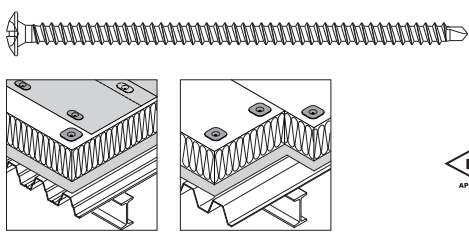

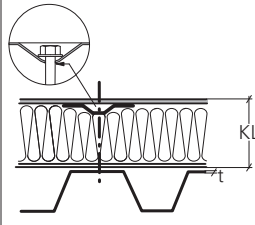


Pan - Phillips head PH 3



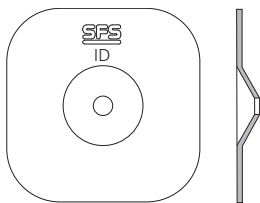
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

3

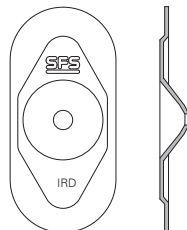
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		IF2-	5,5x	41	21	 <p>t min. steel: _____ 0,63 mm</p> <p>t max. steel: _____ 2 x 1,25 mm</p> <p>Screw length L: KL + 20 mm</p> <p>For use with rigid insulation only. If mineral wool or compressive insulation is incorporated use IR system which has treadfast facility.</p>
		IF2-	5,5x	57	37	
		IF2-	5,5x	73	53	
		IF2-	5,5x	83	63	
		IF2-	5,5x	95	75	
		IF2-	5,5x	114	94	
		IF2-	5,5x	127	107	
		IF2-	5,5x	152	132	
		IF2-	5,5x	178	158	

Stress plates

ID-70X70



IR-82X40



Tools and accessories can be found in chapter 10

isofast® IF2-6,1**Technical information****Application**

For the fastening of waterproof membrane and insulation to steel deck where higher pullout values are required in comparison to the IF2-5,5mm product. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material**Fastener**

- IF2-6,1
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IRD-82x40
Steel 1,0 mm, zinc plated

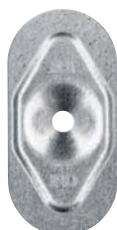
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

- Power screwdriver for manual installation of fasteners.

Stress plates**ID-70x70**

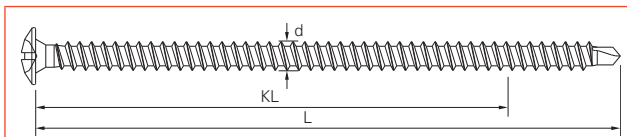
- Stress plate for insulation

IRD-82x40

- Stress plate for membrane

isofast® IF2-6,1

Order information



Pan - Phillips head PH 3



KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

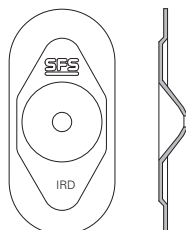
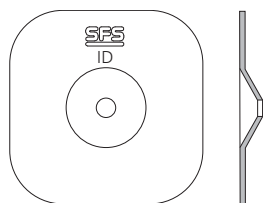
3

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> <p>FM APPROVED</p>		IF2-	6,1x	32	12	<p>t min. steel: _____ 0,63 mm</p> <p>t max. steel: _____ 2 x 1,25 mm</p> <p>Screw length L: KL + 20 mm</p> <p>For use with rigid insulation only. If mineral wool or compressive insulation is incorporated use IR system which has treadfast facility.</p>
		IF2-	6,1x	52	32	
		IF2-	6,1x	76	56	
		IF2-	6,1x	102	82	
		IF2-	6,1x	127	107	
		IF2-	6,1x	152	132	
		IF2-	6,1x	178	158	
		IF2-	6,1x	203	183	
		IF2-	6,1x	254	234	
		IF2-	6,1x	305	285	

Stress plates

ID-70X70

IR-82X40



Tools and accessories can be found in chapter 10

4

ISO-TAK®	Product code	Page
Carbon steel / Plastic sleeve	DT / R45	▶ 4.2
Austenitic stainless steel Plastic sleeve	DT-S / R45	▶ 4.4
Carbon steel / Plastic sleeve	CS-6,1 / R45 CS-6,1 / R75	▶ 4.7 ▶ 4.10
Carbon steel / Plastic sleeve	CS-6,1 / ST	▶ 4.13
Austenitic stainless steel Plastic sleeve	TI-S-Z10 / R45 TI-S-Z10 / R75	▶ 4.16 ▶ 4.19
Carbon steel / Plastic sleeve	TIA-T25 / R45 TIA-T25 / R75	▶ 4.23 ▶ 4.25
Carbon steel / Plastic sleeve	TIA-T25 / ST	▶ 4.27
Drill accessories	ZVK / ZAK	▶ 4.29

isofast®	Product code	Page
Carbon steel	DT	▶ 4.35
Austenitic stainless steel	DT-S	▶ 4.38
Carbon steel	TI	▶ 4.43
Carbon steel	IF2-6,1	▶ 4.45
Drill bits	SDS	▶ 4.47

4

ISO-TAK® SPIKE® twister DT / R45

ISO-TAK® SPIKE® twister DT / R45



Technical information

Application

For the fastening of waterproof membrane to solid, dense concrete of minimum grade C12/15.

Material

Fastener

- DT
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- R45
High quality polypropylene, PP

Tools and accessories

DB 620



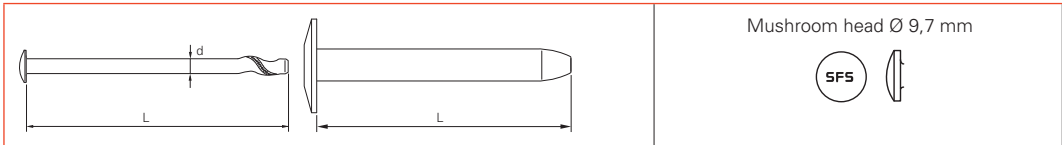
- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DT-M-500 / DT-M-750



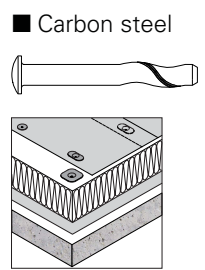

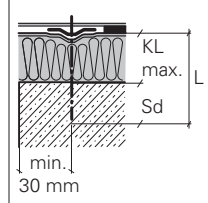
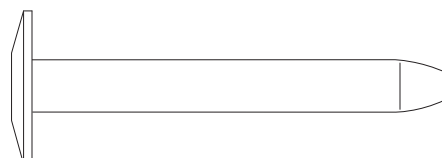

- Mechanical driving tool to hammer in the SPIKE® twister using the DB 620.

Order information



Mushroom head Ø 9,7 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> 		DT-	4,8x	64		 <p>Sd (Setting depth): min. 25 mm</p> <p>Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.</p>
		DT-	4,8x	76		
		DT-	4,8x	89		
		DT-	4,8x	102		
		DT-	4,8x	115		
		DT-	4,8x	127		
		DT-	4,8x	140		
		DT-	4,8x	152		
<p>● Plastic</p> 		R	45x	15		<p>KL see combination table</p>
		R	45x	35		
		R	45x	65		
		R	45x	85		
		R	45x	105		
		R	45x	135		
		R	45x	165		
		R	45x	185		
		R	45x	195		
		R	45x	225		
		R	45x	255		
		R	45x	285		
		R	45x	325		
R	45x	365				
R	45x	405				

ISO-TAK® SPIKE® twister DT-S / R45

ISO-TAK® SPIKE® twister DT-S / R45



Technical information

Application

For the fastening of waterproof membrane to solid, dense concrete of minimum grade C12/15.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material

Fastener

- DT-S
Austenitic stainless steel, grade
AISI 316, European Standard
1.4401, grade A4

Sleeve

- R45
High quality polypropylene, PP

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DT-M-500 / DT-M-750



- Mechanical driving tool to hammer in the SPIKE® twister using the DB 620.

Order information

	Mushroom head Ø 9,7 mm
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>		DT-S- 4,8x 64 DT-S- 4,8x 89 DT-S- 4,8x 115 DT-S- 4,8x 140			Sd (Setting depth): min. 25 mm Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm ² . Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.	
<p>● Plastic</p>		R 45x 15 R 45x 35 R 45x 65 R 45x 85 R 45x 105 R 45x 135 R 45x 165 R 45x 185 R 45x 195 R 45x 225 R 45x 255 R 45x 285 R 45x 325 R 45x 365 R 45x 405			KL see combination table	

4

ISO-TAK® CS-6,1 / R45



Technical information

Application

For the fastening of waterproof membrane to concrete and to thin sections of hollow core, pre cast concrete roof decks.

Material

Fastener

- CS
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- R45
High quality polypropylene, PP

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650



- Power screwdriver for manual installation of fasteners.

ISO-TAK® CS-6,1 / R45

Order information

KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

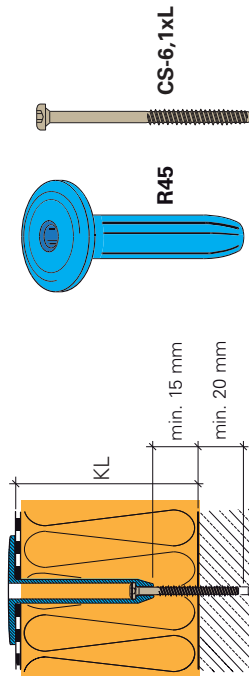
Product / Application	Approval	Order code			KL	Application range		
		Type	d	L				
Carbon steel 		CS-	6,1x	28	8	<p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>		
CS-		6,1x	40	20				
CS-		6,1x	50	30				
CS-		6,1x	60	40				
CS-		6,1x	70	50				
CS-		6,1x	80	60				
CS-		6,1x	90	70				
CS-		6,1x	100	80				
CS-		6,1x	120	100				
CS-		6,1x	140	120				
Plastic 			R	45x	15			KL see combination table
R			45x	35				
R	45x		65					
R	45x		85					
R	45x		105					
R	45x		135					
R	45x		165					
R	45x		185					
R	45x		195					
R	45x		225					
R	45x		255					
R	45x		285					
R	45x	325						
R	45x	365						
R	45x	405						

An alternative product to the CS-6,1 fastener is the TI-T25-6,3mm. Please ask for further details.

Selection of the correct fastener and sleeve combination

Combination sleeve R45 and CS-6,1xL

KL (mm)



KL (mm)	Sleeve R45xL	Fastener CS-6,1xL
30	Sleeve length 15	50 : 60 : 70 : 80
40	Sleeve length 35	50 : 60 : 70 : 80 : 90
50	Sleeve length 55	50 : 60 : 70 : 80 : 90
60	Sleeve length 75	50 : 60 : 70 : 80 : 90
70	Sleeve length 95	50 : 60 : 70 : 80 : 90
80	Sleeve length 115	50 : 60 : 70 : 80 : 90
90	Sleeve length 135	50 : 60 : 70 : 80 : 90
100	Sleeve length 155	50 : 60 : 70 : 80 : 90
110	Sleeve length 175	50 : 60 : 70 : 80 : 90
120	Sleeve length 195	50 : 60 : 70 : 80 : 90
130	Sleeve length 215	50 : 60 : 70 : 80 : 90
140	Sleeve length 235	50 : 60 : 70 : 80 : 90
150	Sleeve length 255	50 : 60 : 70 : 80 : 90
160	Sleeve length 275	50 : 60 : 70 : 80 : 90
170	Sleeve length 295	50 : 60 : 70 : 80 : 90
180	Sleeve length 315	50 : 60 : 70 : 80 : 90
190	Sleeve length 335	50 : 60 : 70 : 80 : 90
200	Sleeve length 355	50 : 60 : 70 : 80 : 90
210	Sleeve length 375	50 : 60 : 70 : 80 : 90
220	Sleeve length 395	50 : 60 : 70 : 80 : 90
230	Sleeve length 415	50 : 60 : 70 : 80 : 90
240	Sleeve length 435	50 : 60 : 70 : 80 : 90
250	Sleeve length 455	50 : 60 : 70 : 80 : 90
260	Sleeve length 475	50 : 60 : 70 : 80 : 90
270	Sleeve length 495	50 : 60 : 70 : 80 : 90
280	Sleeve length 515	50 : 60 : 70 : 80 : 90
290	Sleeve length 535	50 : 60 : 70 : 80 : 90
300	Sleeve length 555	50 : 60 : 70 : 80 : 90
310	Sleeve length 575	50 : 60 : 70 : 80 : 90
320	Sleeve length 595	50 : 60 : 70 : 80 : 90
330	Sleeve length 615	50 : 60 : 70 : 80 : 90
340	Sleeve length 635	50 : 60 : 70 : 80 : 90
350	Sleeve length 655	50 : 60 : 70 : 80 : 90
360	Sleeve length 675	50 : 60 : 70 : 80 : 90
370	Sleeve length 695	50 : 60 : 70 : 80 : 90
380	Sleeve length 715	50 : 60 : 70 : 80 : 90
390	Sleeve length 735	50 : 60 : 70 : 80 : 90
400	Sleeve length 755	50 : 60 : 70 : 80 : 90
410	Sleeve length 775	50 : 60 : 70 : 80 : 90
420	Sleeve length 795	50 : 60 : 70 : 80 : 90
430	Sleeve length 815	50 : 60 : 70 : 80 : 90
440	Sleeve length 835	50 : 60 : 70 : 80 : 90
450	Sleeve length 855	50 : 60 : 70 : 80 : 90
460	Sleeve length 875	50 : 60 : 70 : 80 : 90
470	Sleeve length 895	50 : 60 : 70 : 80 : 90
480	Sleeve length 915	50 : 60 : 70 : 80 : 90
490	Sleeve length 935	50 : 60 : 70 : 80 : 90
500	Sleeve length 955	50 : 60 : 70 : 80 : 90

KL (mm) - Roof buildup (KL) - 160 mm - Sleeve length (L) + 35 mm = min. length - 135 mm - Type of fastener CS-6,1x60

Calculation: Example:
 **Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.

ISO-TAK® CS-6,1 / R75

ISO-TAK® CS-6,1 / R75



Technical information

Application

For the fastening of insulation to concrete and to thin sections of hollow core, pre cast concrete roof decks.

Material

Fastener

- CS
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- R75
High quality polypropylene, PP

Tools and accessories

DB 620



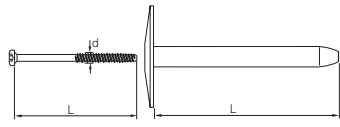
- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650




- Power screwdriver for manual installation of fasteners.


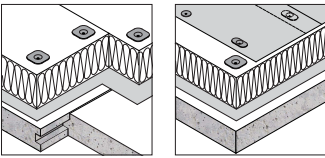

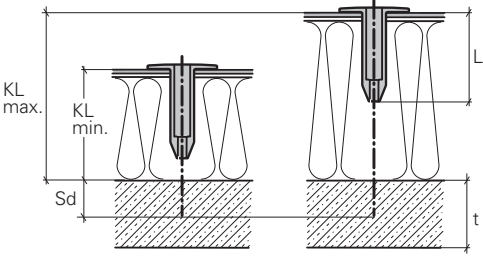
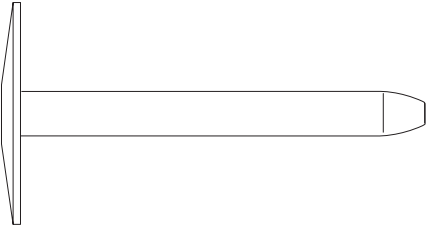

Order information



T25 Ø 10 mm



KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Application range		
		Type	d	L				
<p>■ Carbon steel</p>  		CS-	6,1x	28	8	 <p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>		
		CS-	6,1x	40	20			
		CS-	6,1x	50	30			
		CS-	6,1x	60	40			
		CS-	6,1x	70	50			
		CS-	6,1x	80	60			
		CS-	6,1x	90	70			
		CS-	6,1x	100	80			
		CS-	6,1x	120	100			
		CS-	6,1x	140	120			
		<p>● Plastic</p>  	R	75x	35			<p>KL see combination table</p>
			R	75x	65			
R	75x		85					
R	75x		105					
R	75x		135					
R	75x		165					
R	75x		185					
R	75x		195					
R	75x		225					
R	75x		255					
R	75x	285						

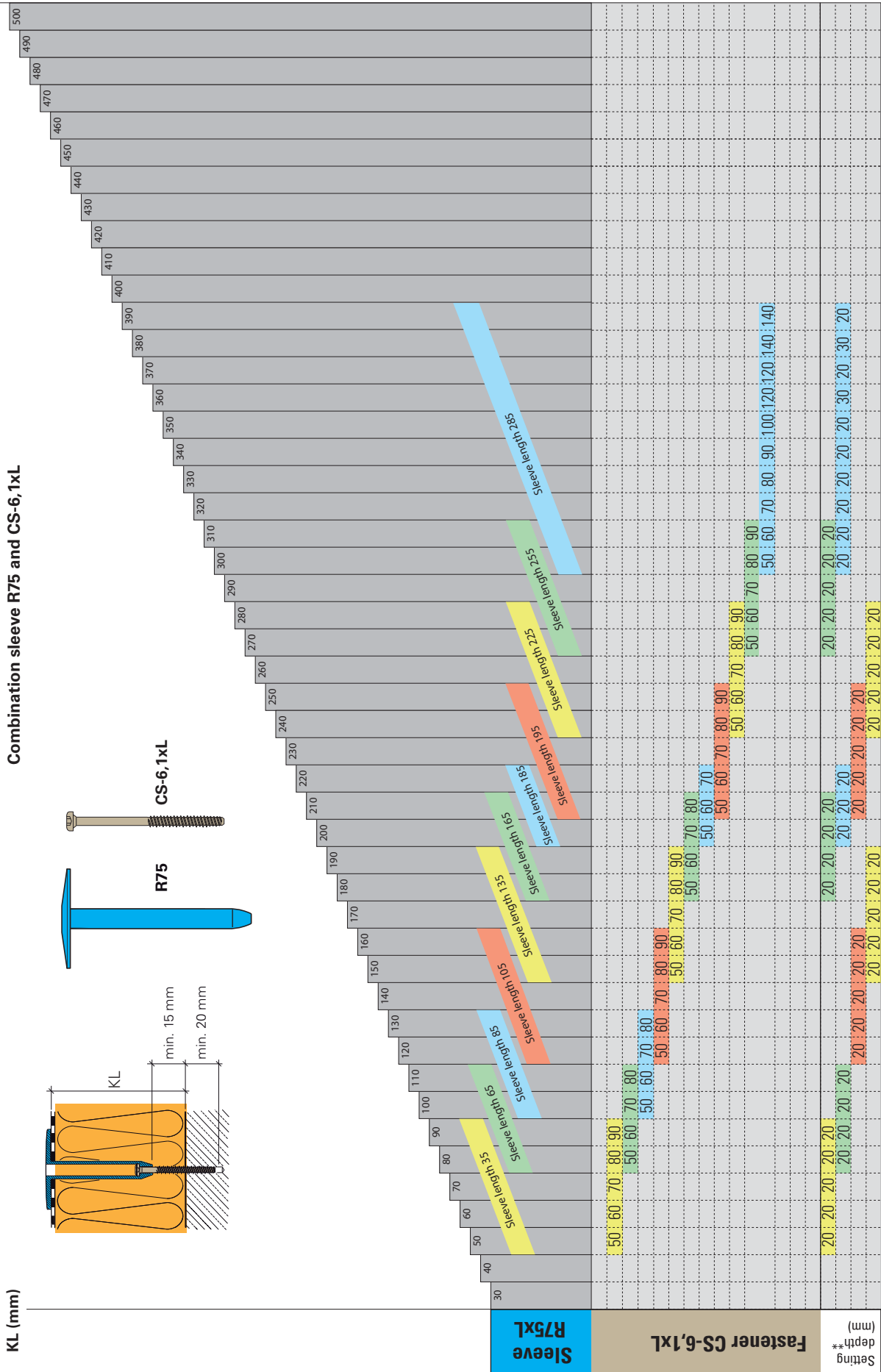
An alternative product to the CS-6,1 fastener is the TI-T25-6,3mm. Please ask for further details.

R75 / CS-6,1

4

Selection of the correct fastener and sleeve combination

Combination sleeve R75 and CS-6,1xL



KL (mm) - Roof buildup (KL) - 120 mm - Sleeve length (L) + 35 mm = min. length - 105 mm - Type of fastener CS-6,1x50

Calculation: Example:

**Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.

Tools and accessories can be found in chapter 10

ISO-TAK® CS-6,1 / ST



Technical information

Application

For the fastening of waterproof membrane to concrete and to thin sections of hollow core, pre cast concrete roof decks.

ST Sleeves are designed for use with Sika Trocal® membranes in conjunction with the appropriate metal disc.

Alternatively the ST sleeve can be used to install compatible steel termination bar systems.

When used with the Sika-Trocal® metal disc, the R-CAP-11 plug should be inserted into the sleeve following installation.

Material

Fastener

- CS
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- ST
High quality polypropylene, PP

Cap

- R-Cap-11
High quality polypropylene, PP



Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650



- Power screwdriver for manual installation of fasteners.

ISO-TAK® CS-6,1 / ST

Order information

T25 Ø 10 mm

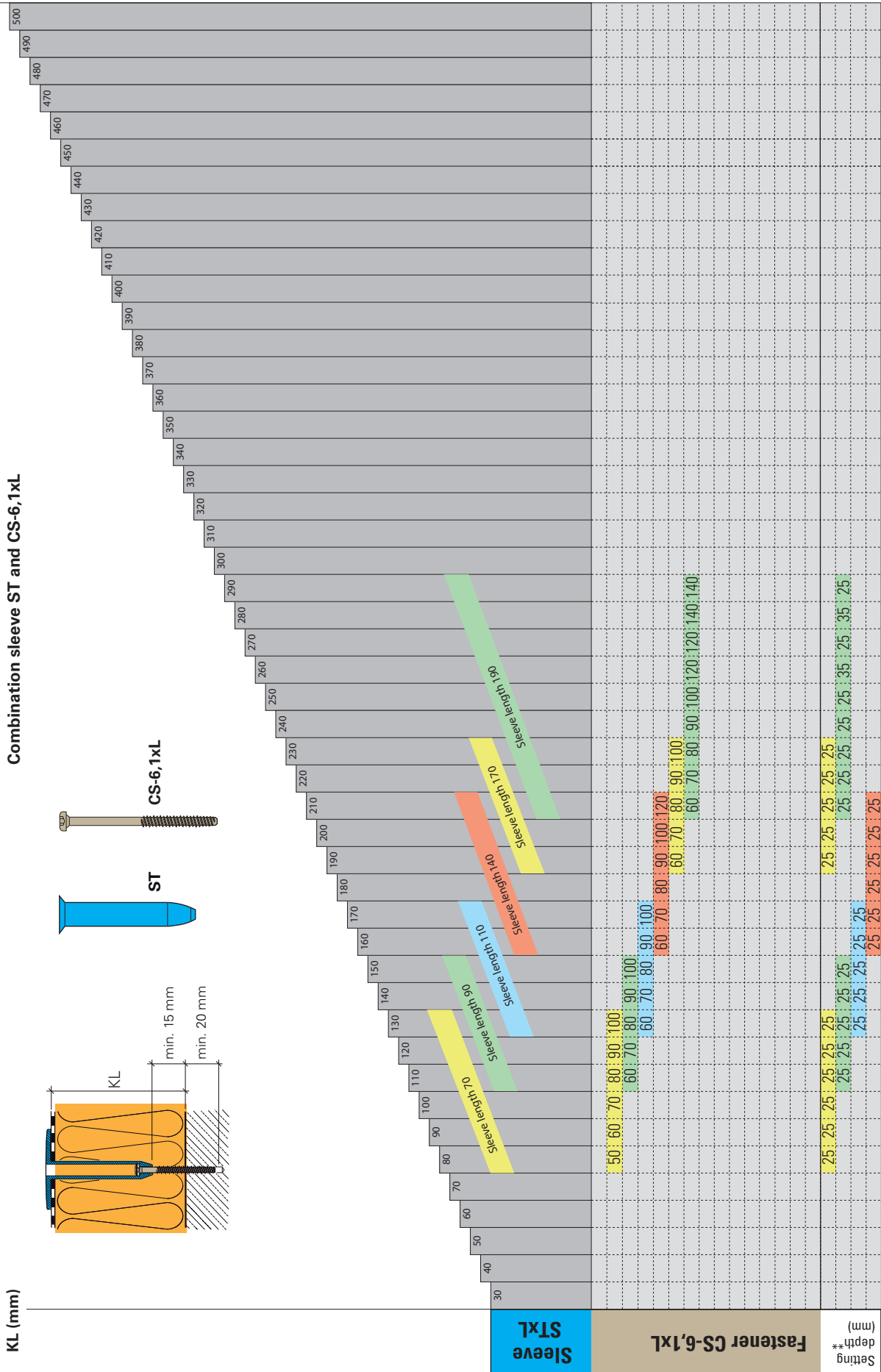
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

4

Product / Application	Approval	Order code			KL	Application range			
		Type	d	L					
<p>■ Carbon steel</p>		CS-	6,1x	28	8	<p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>			
		CS-	6,1x	40	20				
		CS-	6,1x	50	30				
		CS-	6,1x	60	40				
		CS-	6,1x	70	50				
		CS-	6,1x	80	60				
		CS-	6,1x	90	70				
		CS-	6,1x	100	80				
		CS-	6,1x	120	100				
		CS-	6,1x	140	120				
		<p>● Plastic</p>		ST	25x		70		<p>KL see combination table</p>
				ST	25x		90		
ST	25x			110					
ST	25x			140					
ST	25x			170					
ST	25x			190					

An alternative product to the CS-6,1 fastener is the TI-T25-6,3mm. Please ask for further details.

Selection of the correct fastener and sleeve combination



**Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.

Roof buildup (KL) - 120 mm

Sleeve length (L) - 90 mm

Calculation: + 35 mm = min. length

Example: + 35 mm = 65 mm ->

Type of fastener CS-6,1x70

ISO-TAK® TI-S-Z10 / R45

ISO-TAK® TI-S-Z10 / R45



Technical information

Application

For the fastening of waterproof membrane to concrete and to thin sections of hollow core, pre cast concrete roof decks.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing roof is not known or when the build up contains abrasive layers that that may damage the corrosion protection and make it ineffective.

Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (eg coastal environments).

Material**Fastener**

- TI-S-Z10
Austenitic stainless steel, grade
AISI 304, European Standard 1.4301,
grade A2

Sleeve

- R45
High quality polypropylene, PP

Tools and accessories**DB 620**

- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650

- Power screwdriver for manual installation of fasteners.

Order information

SQ3 recess Ø 7,9 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>		TI-S-Z10-	6,3x	45	<p>Sd (Setting depth): min. 20 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>	
		TI-S-Z10-	6,3x	75		
		TI-S-Z10-	6,3x	115		
<p>● Plastic</p>		R	45x	15	<p>KL see combination table</p>	
		R	45x	35		
		R	45x	65		
		R	45x	85		
		R	45x	105		
		R	45x	135		
		R	45x	165		
		R	45x	185		
		R	45x	195		
		R	45x	225		
		R	45x	255		
		R	45x	285		
		R	45x	325		
		R	45x	365		
R	45x	405				

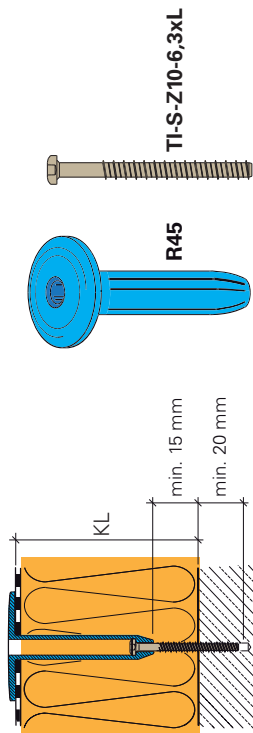
R45 / TI-S-Z10

4

Selection of the correct fastener and sleeve combination

Combination sleeve R45 and TI-S-Z10-6,3xL

KL (mm)



KL (mm)	Fastener TI-S-Z10-6,3xL	Sleeve R45xL	Roof buildup (KL) - 120 mm	Sleeve length (L) - 105 mm	Type of fastener
15					
30					
40					
50					
60					
70					
80					
90					
100					
110					
120					
130					
140					
150					
160					
170					
180					
190					
200					
210					
220					
230					
240					
250					
260					
270					
280					
290					
300					
310					
320					
330					
340					
350					
360					
370					
380					
390					
400					
410					
420					
430					
440					
450					
460					
470					
480					
490					
500					

**Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.

Calculation: Example: Roof buildup (KL) - 120 mm - Sleeve length (L) - 105 mm = Type of fastener TI-S-Z10-6,3x75

ISO-TAK® TI-S-Z10 / R75



Technical information

Application

For the fastening of insulation to concrete and to thin sections of hollow core, pre cast concrete roof decks.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing roof is not known or when the build up contains abrasive layers that that may damage the corrosion protection and make it ineffective.

Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (eg coastal environments).

Material

Fastener

- TI-S-Z10
Austenitic stainless steel, grade
AISI 304, European Standard 1.4301,
grade A2

Sleeve

- R75
High quality polypropylene, PP

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

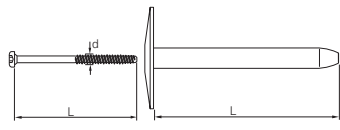

DI 650




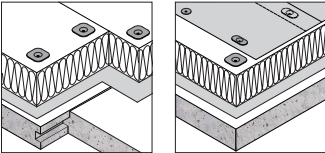

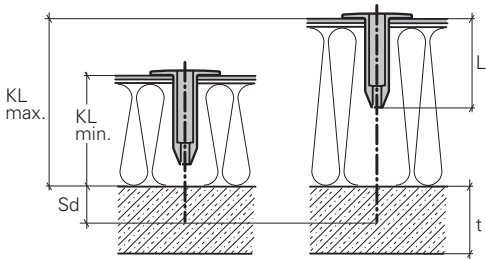



- Power screwdriver for manual installation of fasteners.

ISO-TAK® TI-S-Z10 / R75

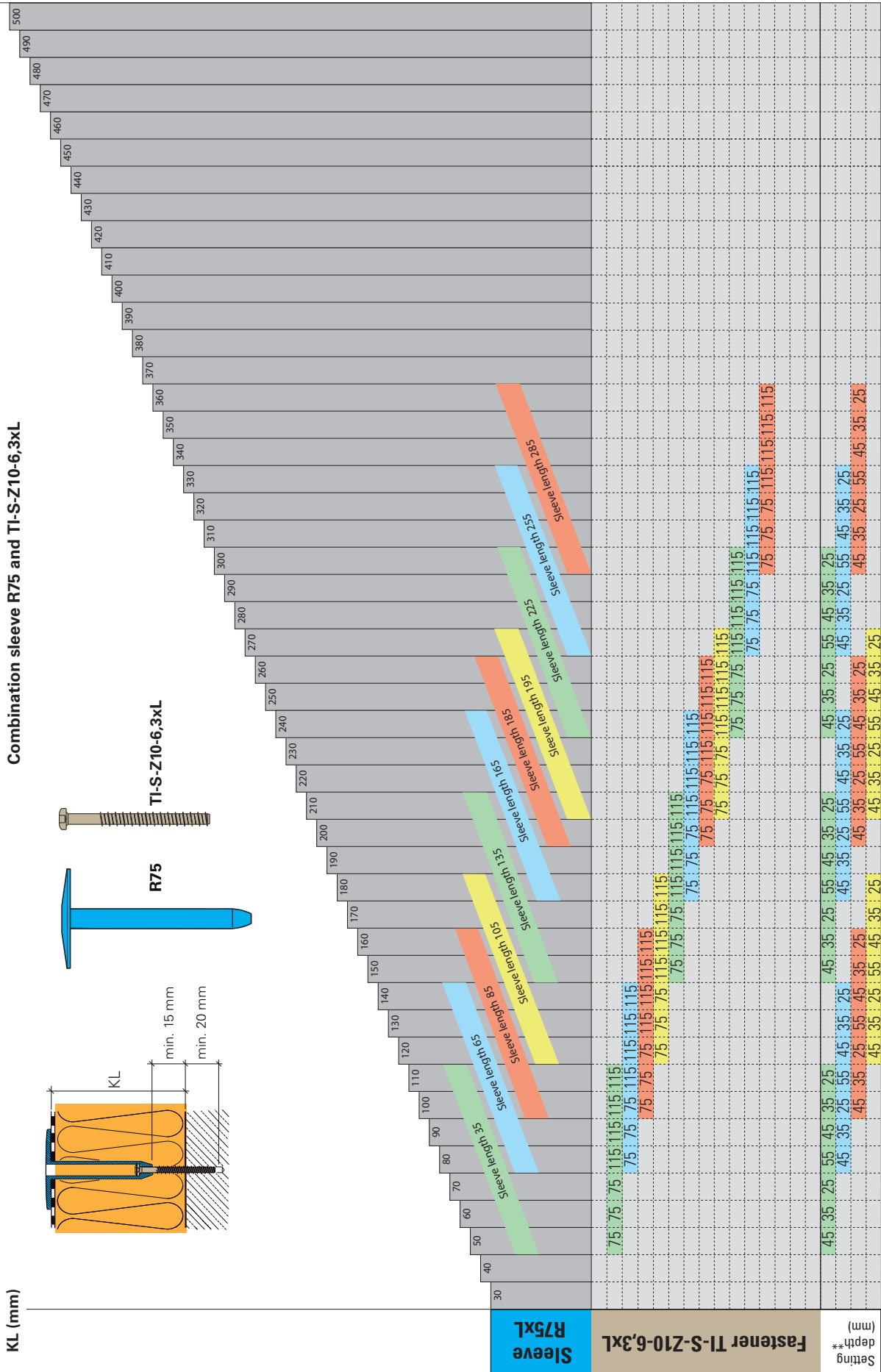
Order information

	SQ3 recess Ø 7,9 mm 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

4

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>  		TI-S-Z10-	6,3x	45		 <p>Sd (Setting depth): min. 20 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
TI-S-Z10-		6,3x	75			
TI-S-Z10-		6,3x	115			
<p>● Plastic</p>   		R	75x	35	KL see combination table	
	R	75x	65			
	R	75x	85			
	R	75x	105			
	R	75x	135			
	R	75x	165			
	R	75x	185			
	R	75x	195			
	R	75x	225			
	R	75x	255			
	R	75x	285			

Selection of the correct fastener and sleeve combination



**Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.

Calculation: Example: Sleeve length (L) + 35 mm = min. length 105 mm. Type of fastener TI-S-Z10-6,3x75

ISO-TAK® TIA-T25: The adjustable fixing system for tapered insulation

Flat roofs, in conjunction with existing building codes, should have a design fall to meet drainage requirements. Where the sub structure is horizontal, a tapered insulation system is required. Mechanical fastening systems

required to install membrane and insulation over tapered insulation schemes can be particularly challenging in the case of concrete deck applications. Rationalised systems that allow the same fastener / sleeve combination to

be used throughout are particularly efficient and result in high levels of site productivity.

The convincing advantages of the ISO-TAK® TIA-T25 fastening systems



- A 'treadfast' fastener and sleeve combination ensures that the system is safe to walk on
- No plugs are required for fixing into concrete
- Optimum installation system for tapered insulation schemes
- High pull-out resistance
- Reduced drilling requirement due to low insertion depth
- Equally suitable for new buildings and renovation work
- Adjustable, removable fastener solution
- Ideal for thin concrete sections
- Fewer combinations of fasteners are required

The ideal fastening solution for tapered insulation schemes on concrete decks

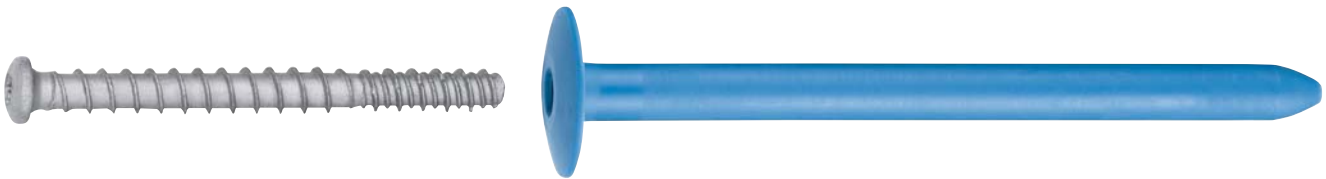
The TIA fasteners in combination with the R45 or R75 sleeves can be used for insulation and membrane installation for roof build ups of between 75 and 515 mm. The same fastener and sleeve combination can typically be used for insulation boards differing by up to 100mm in thickness. This offers optimum material usage and eliminates the possibility of insufficient fastener length.

After the fastener is installed, the R45/R75 sleeve length can be finely adjusted if required to match the insulation height using a special tool. The fasteners can be quickly and easily removed, should this be necessary.

Due to the low insertion depth requirement, the TIA fasteners require less drilling than conventional concrete fasteners, reducing installation time for the contractor. The low insertion depth additionally makes the TIA fasteners particularly suited for use on thin walled concrete sections.



ISO-TAK® TIA-T25 / R45



Technical information

Application

For the fastening of waterproof membrane through tapered insulation to concrete and to thin sections of hollow core pre-cast concrete roof decks.

Material

Fastener

- TIA-T25
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- R45
High quality polypropylene, PP

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.
- For installation process see FR 4.30
For tooling requirements see FR 4.32

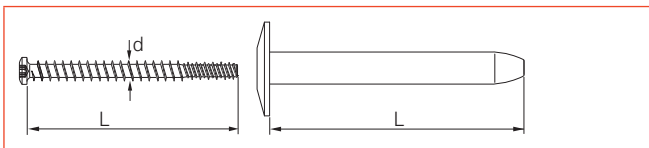

DI 650

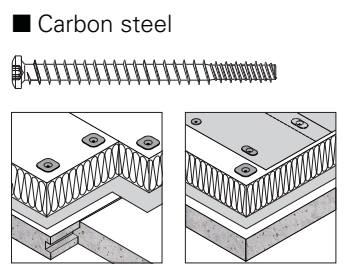
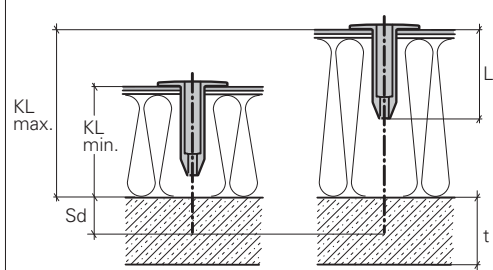
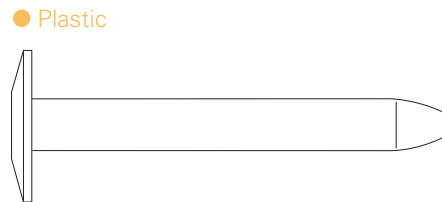


- Power screwdriver for manual installation of fasteners.

ISO-TAK® TIA-T25 / R45

Order information

	<p>T25 Ø 9,6 mm</p> 
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>	

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> 	<p>CE ETA 08/0321</p> <p>SINTEF</p>	<p>TIA-T25- 6,3x 70 TIA-T25- 6,3x 90 TIA-T25- 6,3x 120 TIA-T25- 6,3x 150</p>	6,3x	70 90 120 150		<p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
<p>● Plastic</p> 	<p>CE ETA 06/0170</p> <p>SINTEF</p>	<p>R</p>	45x	65 85 105 135 165 185 195 225 255 285 325 365 405		

ISO-TAK® TIA-T25 / R75



Technical information

Application

For the fastening of tapered insulation to concrete and to thin sections of hollow core pre-cast concrete roof decks.

Material

Fastener

- TIA-T25
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- R75
High quality polypropylene, PP

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.
- For tooling requirements see FR 4.29
For installation process see FR 4.30

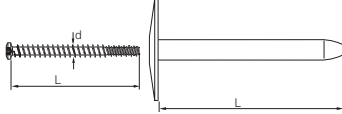

DI 650



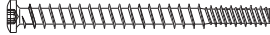
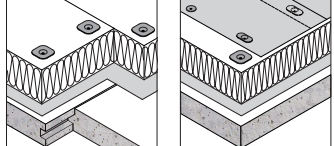

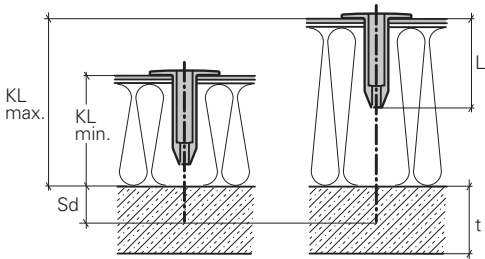
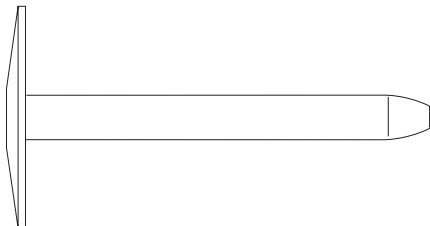

- Power screwdriver for manual installation of fasteners.

ISO-TAK® TIA-T25 / R75

Order information

	<p>T25 Ø 9,6 mm</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

4

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		TIA-T25-	6,3x	70		 <p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		TIA-T25-	6,3x	90		
		TIA-T25-	6,3x	120		
		TIA-T25-	6,3x	150		
<p>● Plastic</p> 		R	75x	65		
		R	75x	85		
		R	75x	105		
		R	75x	135		
		R	75x	165		
		R	75x	185		
		R	75x	195		
		R	75x	225		
		R	75x	255		
		R	75x	285		

ISO-TAK® TIA-T25 / ST



Technical information

Application

For the fastening of waterproof membrane through tapered insulation to concrete and to thin sections of hollow core pre-cast concrete roof decks.

ST Sleeves are designed for use with Sika Trocal® membranes in conjunction with the appropriate metal disc.

Alternatively the ST Sleeves can be used to install compatible steel termination bar systems.

When used with the Sika-Trocal® metal disc, the R-CAP-11 plug should be inserted into the sleeve following installation.

Material

Fastener

- TIA-T25
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Sleeve

- ST
High quality polypropylene, PP

Cap

- R-Cap-11
High quality polypropylene, PP



Tools and accessories

DB 620



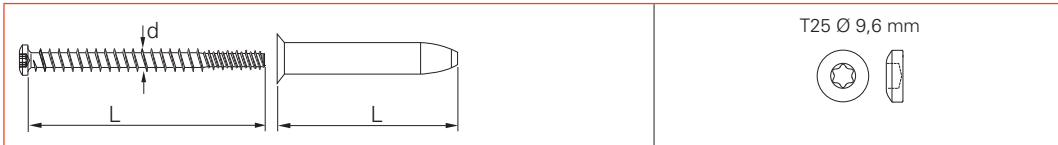
- Electro-pneumatic hammer drill for drilling into concrete and masonry.
- For tooling requirements see FR 4.29
For installation process see FR 4.30

DI 650



- Power screwdriver for manual installation of fasteners.

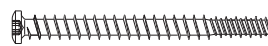
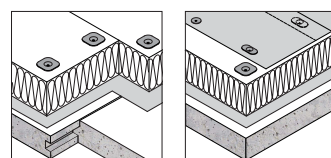

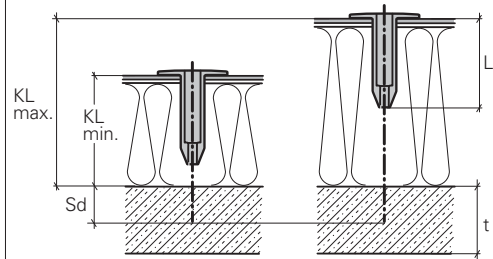
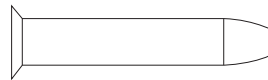

Order information



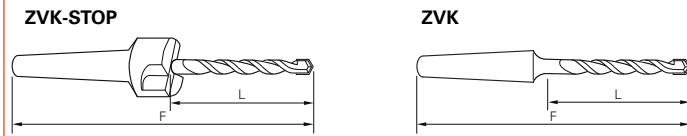
T25 Ø 9,6 mm

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

4

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		TIA-T25-	6,3x	70		 <p>Sd (Setting depth): min. 18 - 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
TIA-T25-		6,3x	90			
TIA-T25-		6,3x	120			
TIA-T25-		6,3x	150			
<p>● Plastic</p> 		ST	25x	70		
		ST	25x	90		
		ST	25x	110		
		ST	25x	140		
		ST	25x	170		
		ST	25x	190		

Order information



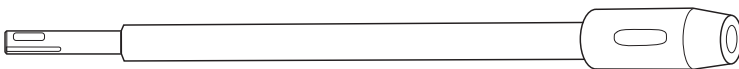
d diameter | L Length | F working length | All measures in mm

Order code					Application range
Type	d	L	F	Code	
ZVK- 4,8x 100x 165 STOP					SPIKE® twister DT-4,8xL SPIKE® twister DT-S-4,8xL
ZVK-	4,8x	100x	165	STOP	
ZVK-	5,0x	55x	115		TIA-T25-6,3xL *
ZVK-	5,0x	100x	160		
ZVK-	5,0x	25x	90	STOP	
ZVK-	5,0x	35x	100	STOP	
ZVK-	5,0x	45x	110	STOP	
ZVK-	5,0x	55x	120	STOP	
ZVK-	5,2x	45x	110	STOP	TIA-T25-6,3xL *
ZVK-	5,2x	100x	165	STOP	

ZVK-STOP: The special STOP drills additionally core out the insulation providing for easy sleeve insertion and accurate fastener alignment with the pilot hole.

ZVK: Conical drills for different use, specifically to replace very long SDS drills.

ZAK-500 / ZAK-750 - Drill bar extension for the ZVK conical

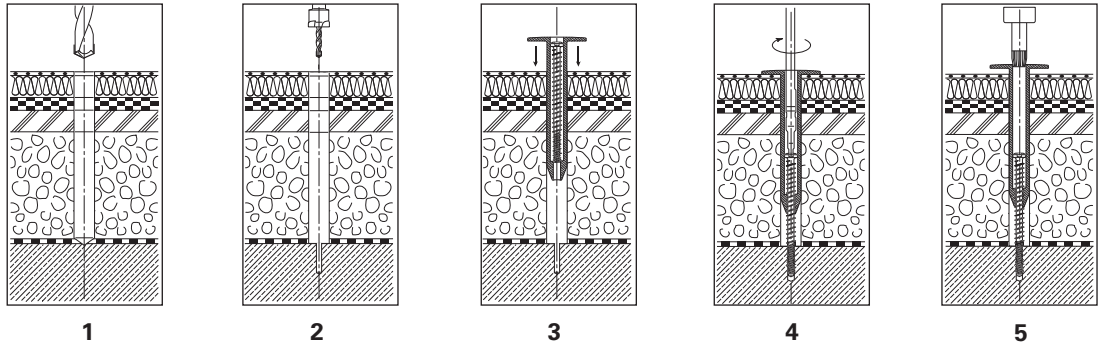


All approvals and recommended design loads are based upon close tolerance pilot holes that are drilled with ZVK carbide drill bits.

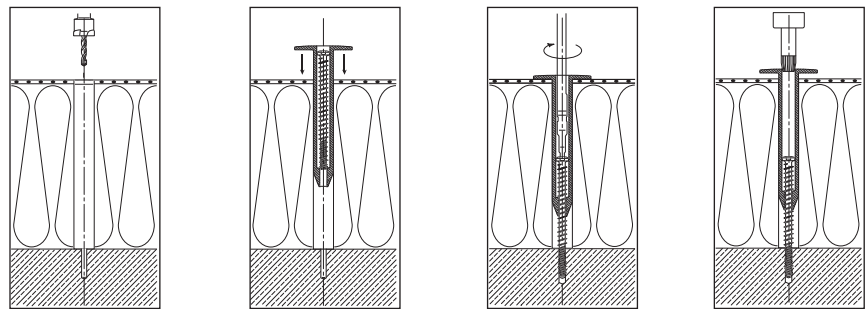
* Technical performance values of the T1 fasteners may differ due to variation in the hardness of locally sourced concrete aggregates. Optimum performance can be determined by site testing using different drill diameters, for example between SDS-4,8 and SDS-5,2. Consult your SFS representative for further information.

Installation process

Refurbishment

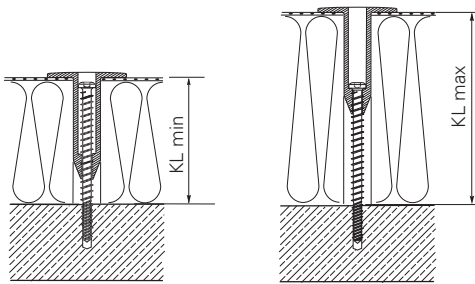


New construction



- 1 Pilot drill a 20 mm dia. hole through the existing roof build up using a carbide drill bit.
- 2 Drill a hole in the concrete structure.
- 3 Insert sleeve in the pre-drilled hole and insert fastener in sleeve.
- 4 Screw fastener through sleeve into concrete with applied pressure.
- 5 Tighten sleeve if necessary (clockwise if the sleeve head is not completely flush).

Combination table TIA-T25 / R45



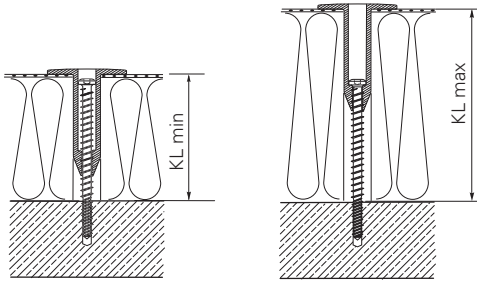
Drilling depth: min. 25 mm
Setting depth: min. 18 mm

No	Sleeve L	A		B		C		D	
		TIA-T25-6,3 x 70 KL min	KL max	TIA-T25-6,3 x 90 KL min	KL max	TIA-T25-6,3 x 120 KL min	KL max	TIA-T25-6,3 x 150 KL min	KL max
1	65	75	95	85	115	115	145	145	175
2	85	95	115	95	135	115	165	145	195
3	105	115	135	115	155	115	185	145	215
4	135	145	165	145	185	145	215	145	245
5	165	175	195	175	215	175	245	175	275
6	185	195	215	195	235	195	265	195	295
7	195	205	225	205	245	205	275	205	305
8	225	235	255	235	275	235	305	235	335
9	255	265	285	265	305	265	335	265	365
10	285	295	315	295	335	295	365	295	395
11	325	335	355	335	375	335	405	335	435
12	365	375	395	375	415	375	445	375	475
13	405	415	435	415	455	415	485	415	515

Example
 Demand KL: 120 - 240 mm

Combination
 3B = sleeve 105 + screw 90 KL covering 115 - 155 mm
 4D = sleeve 135 + screw 150 KL covering 145 - 245 mm

Combination table TIA-T25 / R75



Drilling depth: min. 25 mm
Setting depth: min. 18 mm

No	Sleeve L	A		B		C		D	
		TIA-T25-6,3 x 70 KL min	KL max	TIA-T25-6,3 x 90 KL min	KL max	TIA-T25-6,3 x 120 KL min	KL max	TIA-T25-6,3 x 150 KL min	KL max
1	65	75	95	85	115	115	145	145	175
2	85	95	115	95	135	115	165	145	195
3	105	115	135	115	155	115	185	145	215
4	135	145	165	145	185	145	215	145	245
5	165	175	195	175	215	175	245	175	275
6	185	195	215	195	235	195	265	195	295
7	195	205	225	205	245	205	275	205	305
8	225	235	255	235	275	235	305	235	335
9	255	265	285	265	305	265	335	265	365
10	285	295	315	295	335	295	365	295	395

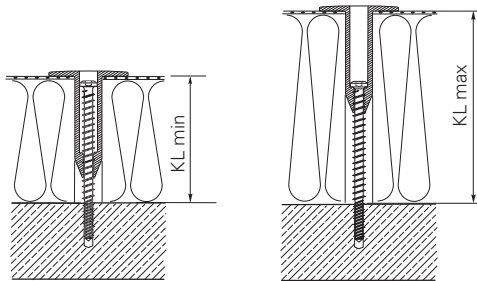
Example

Demand KL: 120 - 240 mm

Combination

3B = sleeve 105 + screw 90 KL covering 115 - 155 mm
 4D = sleeve 135 + screw 150 KL covering 145 - 245 mm

Combination table TIA-T25 / ST



Drilling depth: min. 25 mm
Setting depth: min. 18 mm

No	Sleeve L	A		B		C		D	
		TIA-T25-6,3 x 70 KL min	KL max	TIA-T25-6,3 x 90 KL min	KL max	TIA-T25-6,3 x 120 KL min	KL max	TIA-T25-6,3 x 150 KL min	KL max
1	70	75	95	85	115	115	145	145	175
2	90	95	115	95	135	115	165	145	195
3	110	115	135	115	155	115	185	145	215
4	140	145	165	145	185	145	215	145	245
5	170	175	195	175	215	175	245	175	275
6	190	175	215	195	235	195	265	195	295

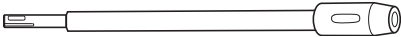
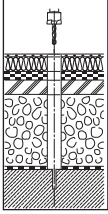
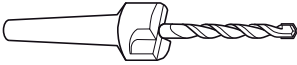
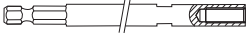
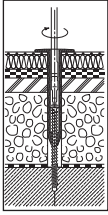

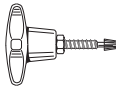
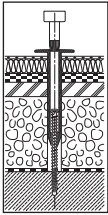

Example

Demand KL: 125 - 245 mm

Combination

3C = sleeve 110 + screw 120 KL covering 115 - 185 mm
 4D = sleeve 140 + screw 150 KL covering 145 - 245 mm

Tools and accessories

Product	Order code	Application (see installation process)	(quantity)
Drill extension (500 mm and 750 mm) 	ZAK-500 ZAK-750		1 1
Drill bit with stopper 	ZVK-5,0x25x90stop ZVK-5,0x35x100stop ZVK-5,0x45x110stop		1 1 1
Drive shaft (300 mm and 670 mm long) 	ZA¼"-M6-300 ZA¼"-M6-670		1 1
Socket 	T25-32-M6 T25-32-M6-Ring		1 1
Adjusting tool 	AJ60x130-TIA		1
Adjusting bit (fits to the Drive shaft) 	AJ-M6		1

isofast® SPIKE® twister: Faster, easier fixing into concrete

Fixing into concrete with conventional methods is at best complicated. Using plug free fasteners however considerably improves installation time. The SPIKE® system has been

developed and optimised by SFS intec over recent years and has a proven track record with respect to its fast installation, security of application and ease of use.

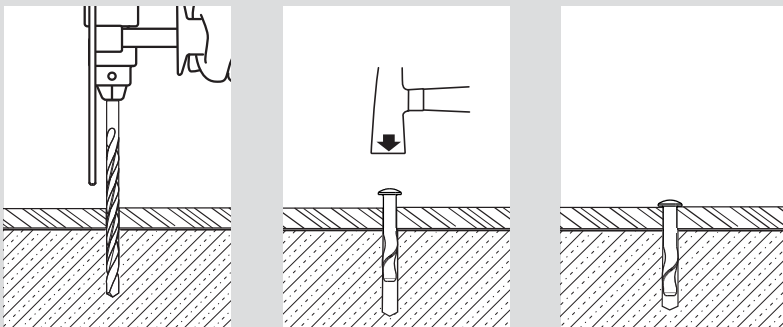
The convincing advantages of the SPIKE® twister fastening systems

- Tough anchoring due to all round force distribution
- Simple one-piece fastener
- No need to fit and adjust plugs
- Reduced diameter pilot holes required
- Reduced drilling depth
- Maximum corrosion resistance
- Available in austenitic stainless steel
- Highly fire resistant
- Absolutely free from vibration
- Simple procedure: pre-drill and drive in, secure and stable

**Plug-free fixing directly into concrete**

With the latest refinements, fixing into concrete using the SPIKE® system is even more secure and efficient.

The unique spiral tip of the SPIKE® twister fastener exerts all round pressure within the pilot hole. The continuous pre-tensioning due to the rotary force transmission results in a considerably improved pullout performance.

Installation is so simple: drill, hammer home – job done**High pull-out resistance from concrete and similar aggregate materials**

The SPIKE® twister is vibration free, corrosion proof and offers extremely high fire resistance. The entire range is available in austenitic stainless steel, making this fastener ideal for critical applications including those with chemically aggressive atmospheric conditions or roof renovation projects.

isofast® SPIKE® twister DT**Technical information****Application**

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum grade C12/15.

Material**Fastener**

- DT
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IF/IG-C-82x40
IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DB 620**

- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DF 21

- Allows the DB 620 to be used from a standing position, ensuring optimum performance from tool and operator.

ZD 15

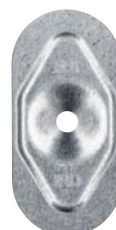
- Setting tool for the installation of SPIKE® twister fasteners.

Stress plates**ID-70x70**

- Stress plate for insulation

IF/IG-C-82x40

- Stress plate for membrane on hard substrates

IRD-82x40

- Stress plate for membrane

isofast® SPIKE® twister DT

Order information

Mushroom head, $L \leq 51 \text{ mm } \varnothing 11,0 \text{ mm}$
 $L \geq 64 \text{ mm } \varnothing 9,7 \text{ mm}$

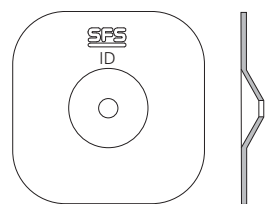
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

4

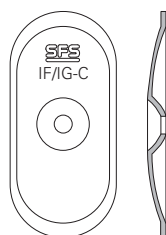
Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
<p>■ Carbon steel</p>	 	DT- 4,8x	28	3	4,8x160	<p>Sd (Setting depth): min. 25 mm</p> <p>Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.</p>	
		DT- 4,8x	32	7	160		
		DT- 4,8x	38	13	160		
		DT- 4,8x	51	26	160		
		DT- 4,8x	64	39	160		
		DT- 4,8x	76	51	160		
		DT- 4,8x	89	64	210		
		DT- 4,8x	102	77	210		
		DT- 4,8x	115	90	210		
		DT- 4,8x	127	102	210		
DT- 4,8x	140	115	260				
DT- 4,8x	152	127	260				

Stress plates

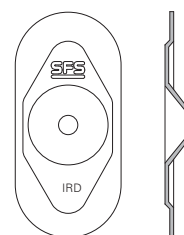
ID-70X70



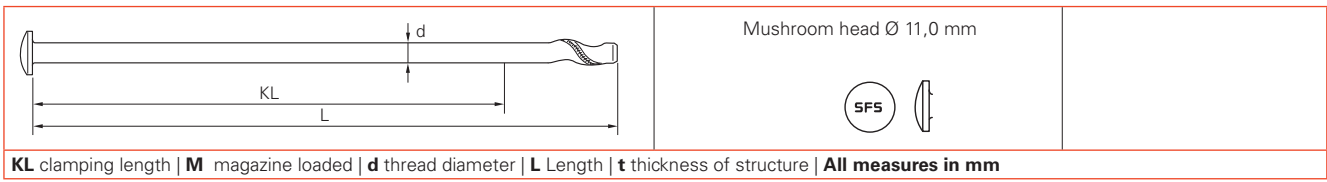
IF/IG-C-82X40



IRD-82X40



Order information

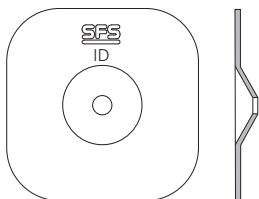


Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
■ Carbon steel 	 	DT- 6,3x	38	6	6,3x160	<p>Sd (Setting depth): min. 32 mm</p> <p>Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site condition.</p>	
		DT- 6,3x	51	19	160		
		DT- 6,3x	102	70	210		
		DT- 6,3x	127	95	210		
		DT- 6,3x	140	108	260		
		DT- 6,3x	152	120	260		
		DT- 6,3x	165	133	260		
		DT- 6,3x	178	146	260		
		DT- 6,3x	191	159	285		
		DT- 6,3x	203	171	285		
		DT- 6,3x	216	184	360		
		DT- 6,3x	229	197	360		
		DT- 6,3x	241	209	360		
		DT- 6,3x	254	222	360		
		DT- 6,3x	267	235	360		
		DT- 6,3x	279	247	410		
		DT- 6,3x	292	260	410		
		DT- 6,3x	305	273	410		
		DT- 6,3x	330	298	510		
		DT- 6,3x	356	324	510		
DT- 6,3x	381	349	510				
DT- 6,3x	406	374	510				
DT- 6,3x	432	400	510				

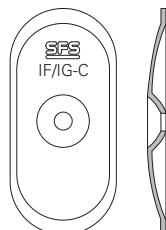
4

Stress plates

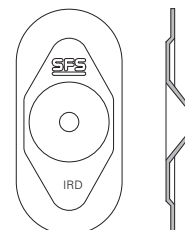
ID-70X70



IF/IG-C-82X40



IRD-82X40



isofast® SPIKE® twister DT-S**isofast® SPIKE® twister DT-S****Technical information****Application**

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum grade C12/15. Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions. For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material**Fastener**

- DT-S
Austenitic stainless steel, grade
AISI 316, European Standard
1.4401, grade A4

Stress plates

- ID-70x70 / IF/IG-C-82x40
IRD-82x40
Steel 1,0 mm, zinc plated
Resistant to 15 cycles of the
Kesternich test in accordance
with ETAG 006 - D3.1 and FM
requirements

Tools and accessories**DB 620**

- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DF 21

- Allows the DB 620 to be used from a standing position, ensuring optimum performance from tool and operator.

ZD 15

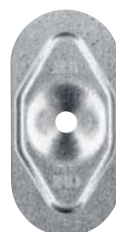
- Setting tool for the installation of SPIKE® twister fasteners.

Stress plates**ID-70x70**

- Stress plate for insulation

IF/IG-C-82x40

- Stress plate for membrane on hard substrates

IRD-82x40

- Stress plate for membrane

Tools and accessories can be found in chapter 10

Order information

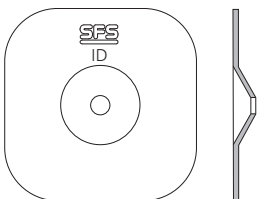
	Mushroom head, $L \leq 51 \text{ mm } \varnothing 11,0 \text{ mm}$ $L \geq 64 \text{ mm } \varnothing 9,7 \text{ mm}$
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

Product / Application	Approval	Order code				Drill bits	Application range
		Type	d	L	KL		
• Stainless steel 		DT-S- 4,8x 28	3	4,8x160		Sd (Setting depth): min. 25 mm Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm ² . Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.	
		DT-S- 4,8x 32	7	160			
		DT-S- 4,8x 38	13	160			
		DT-S- 4,8x 51	26	160			
		DT-S- 4,8x 64	39	160			
		DT-S- 4,8x 89	64	210			
		DT-S- 4,8x 115	90	210			
		DT-S- 4,8x 140	115	260			

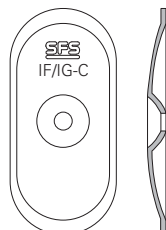
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Stress plates

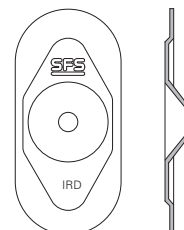
ID-70X70



IF/IG-C-82X40

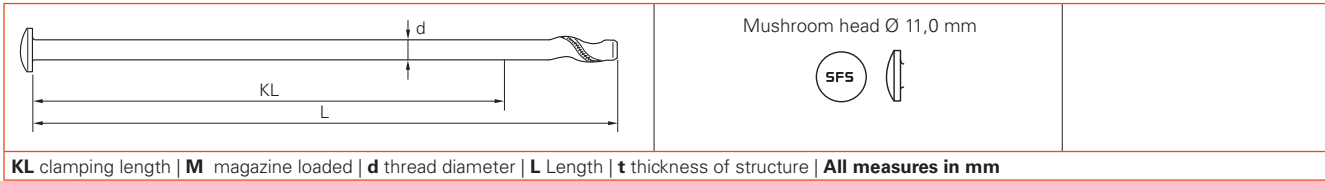


IRD-82X40



isofast® SPIKE® twister DT-S

Order information

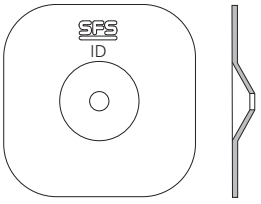


4

Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
<p>● Stainless steel</p>		DT-S- 6,3x 152	6,3	152	120	6,3x260	<p>Sd (Setting depth): min. 32 mm</p> <p>Thickness concrete deck t: min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.</p>
DT-S- 6,3x 178		6,3	178	146	260		
DT-S- 6,3x 203		6,3	203	171	285		
DT-S- 6,3x 229		6,3	229	197	360		
DT-S- 6,3x 254		6,3	254	222	360		
DT-S- 6,3x 279		6,3	279	247	410		
DT-S- 6,3x 292		6,3	292	260	410		

Stress plates

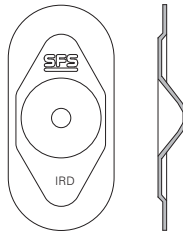
ID-70X70



IF/IG-C-82X40



IRD-82X40



Tools and accessories can be found in chapter 10

isofast® TI: Efficient self tapping fasteners into concrete without plugs

Application specific fastener solutions for use either with solid or pre-cast concrete substrates are highly sought after. Indeed, some systems still rely on plugs to hold the concrete fasteners securely in position.

Using SFS's specially developed, application specific thread-form fastener greatly simplifies the installation of flat roof insulation boards and membranes.

The convincing advantages of the TI thread-forming fastener

- Easy to install
- No requirement for plugs
- Low insertion torque
- High pull-out resistance
- Can be easily removed
- Maximum corrosion resistance
- Reduced drilling due to low embedment requirement
- Simply drill the pilot hole, apply with a DI 650 screw gun - job done!

**The optimum solution for many applications**

The TI thread forming fastener represents the ideal solution for many applications where secure fastening is required into concrete substrates. These include the installation of waterproof membrane and insulation materials onto solid or precast concrete decks using the appropriate SFS stress plates. Other applications include fixing timber beams and weatherboarding into concrete/masonry walling or decking.

isofast® TI



Technical information

Application

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum grade C12/15.

Material

Fastener

■ TI

Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IF/IG-C-82x40
IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DB 620



SFS drill bits

- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650



ZA 1/4" drive shank

E380

- Power screwdriver for manual installation of fasteners.

Stress plates

ID-70x70



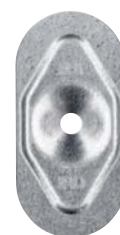
- Stress plate for insulation

IF/IG-C-82x40



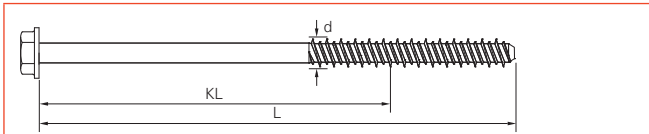
- Stress plate for membrane on hard substrates

IRD-82x40




- Stress plate for membrane

Order information

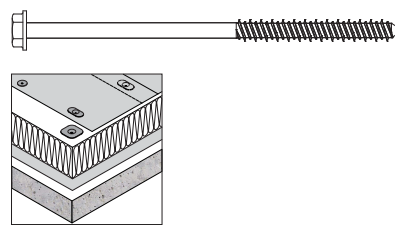

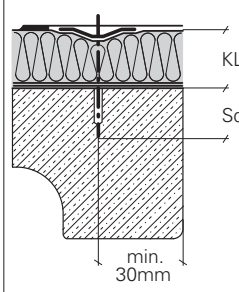
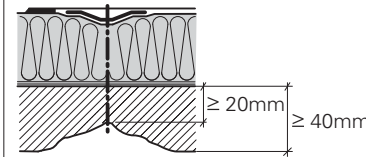


Hexagon 8 mm A/F



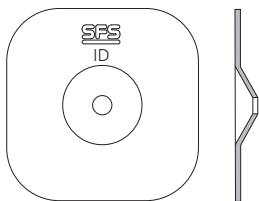
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

4

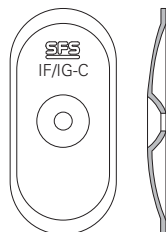
Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
<p>■ Carbon steel</p> 		TI-	6,3x	25	5	5,0x110	
		TI-	6,3x	32	12	160	
		TI-	6,3x	45	25	160	
		TI-	6,3x	55	35	160	
		TI-	6,3x	65	45	160	
		TI-	6,3x	75	55	160	
		TI-	6,3x	85	65	210	
		TI-	6,3x	95	75	210	
		TI-	6,3x	105	85	210	
		TI-	6,3x	115	95	210	
		TI-	6,3x	125	105	210	 <p>Sd (Setting depth): min. 20 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		TI-	6,3x	135	115	210	
		TI-	6,3x	145	125	260	
		TI-	6,3x	155	135	260	
		TI-	6,3x	165	145	260	
		TI-	6,3x	175	155	260	
		TI-	6,3x	185	165	310	
		TI-	6,3x	195	175	310	
		TI-	6,3x	205	185	310	
		TI-	6,3x	215	195	310	
TI-	6,3x	235	215	360			
TI-	6,3x	255	235	360			
TI-	6,3x	275	255	360			

Stress plates

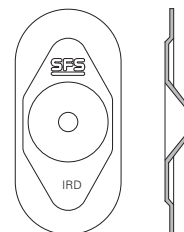
ID-70X70



IF/IG-C-82X40



IRD-82X40



isofast® IF2-6,1



Technical information

Application

For the fastening of waterproof membrane and insulation to dense concrete of min grade C12/15.

Material

Fastener

- IF2-6,1
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650



- Power screwdriver for manual installation of fasteners.

Stress plates

ID-70x70



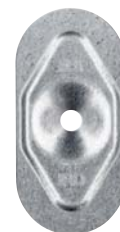
- Stress plate for insulation

IF/IG-C-82x40



- Stress plate for membrane on hard substrates

IRD-82x40



- Stress plate for membrane

isofast® IF2-6,1

Order information

Pan - Phillips head PH 3

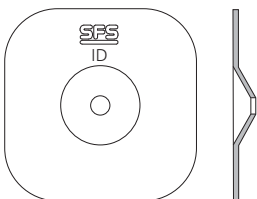
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

4

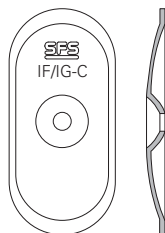
Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
<p>■ Carbon steel</p>		IF2-	6,1x	32	7	5,0x110	<p>KL</p> <p>Sd</p> <p>min. 30mm</p> <p>≥ 20mm</p> <p>≥ 25mm</p> <p>Sd (Setting depth): min. 25 mm</p> <p>Thickness concrete deck t: min. 40 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p> <p>Optimum performance can be determined by SFS intec Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		IF2-	6,1x	52	27	160	
		IF2-	6,1x	76	51	160	
		IF2-	6,1x	102	77	210	
		IF2-	6,1x	127	102	210	
		IF2-	6,1x	152	127	260	
		IF2-	6,1x	178	153	260	
		IF2-	6,1x	203	178	310	
		IF2-	6,1x	254	229	360	
		IF2-	6,1x	305	280	360	

Stress plates

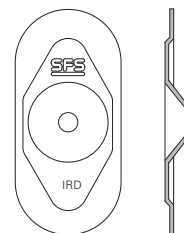
ID-70X70



IF/IG-C-82X40

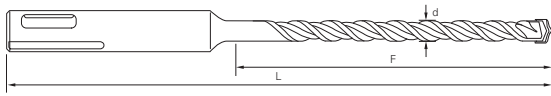


IRD-82X40



Tools and accessories can be found in chapter 10

Order information



SDS Carbide-geometry
Dynamic, chisel-shaped drill bit head
Multi-fluted, spacious KVS-spiral
Unique KVS-flute design

d diameter | **L** Length | **F** working length | **All measures in mm**

Order code					Application range
Type	d	L	F	Code	
SDS-	4,8x	110/	50-	4PLUS	SPIKE® twister DT-4,8xL SPIKE® twister DT-S-4,8xL TI-6,3xL* CS-6,1xL* TIA-T25-6,3xL*
SDS-	4,8x	160/	100-	4PLUS	
SDS-	4,8x	210/	150-	4PLUS	
SDS-	4,8x	260/	200-	4PLUS	
SDS-	4,8x	310/	250-	4PLUS	
SDS-	4,8x	360/	300-	4PLUS	
SDS-	5,0x	110/	50-	4PLUS	TI-6,3xL IF2-6,1xL CS-6,1xL TIA-T25-6,3xL*
SDS-	5,0x	160/	100-	4PLUS	
SDS-	5,0x	210/	150-	4PLUS	
SDS-	5,0x	260/	200-	4PLUS	
SDS-	5,0x	310/	250-	4PLUS	
SDS-	5,0x	360/	300-	4PLUS	
SDS-	5,0x	400/	340-	4PLUS	
SDS-	5,0x	450/	390-	4PLUS	
SDS-	5,0x	500/	440-	4PLUS	
SDS-	5,2x	160/	100-	4PLUS	TI-6,3xL* CS-6,1xL* TIA-T25-6,3xL*
SDS-	5,2x	210/	150-	4PLUS	
SDS-	5,2x	260/	200-	4PLUS	
SDS-	5,2x	310/	250-	4PLUS	
SDS-	5,2x	360/	300-	4PLUS	
SDS-	6,3x	110/	50-	4PLUS	SPIKE® twister DT-6,3xL SPIKE® twister DT-S-6,3xL
SDS-	6,3x	160/	100-	4PLUS	
SDS-	6,3x	210/	150-	4PLUS	
SDS-	6,3x	260/	200-	4PLUS	
SDS-	6,3x	285/	225-	4PLUS	
SDS-	6,3x	360/	300-	4PLUS	
SDS-	6,3x	410/	350-	4PLUS	
SDS-	6,3x	510/	450-	4PLUS	

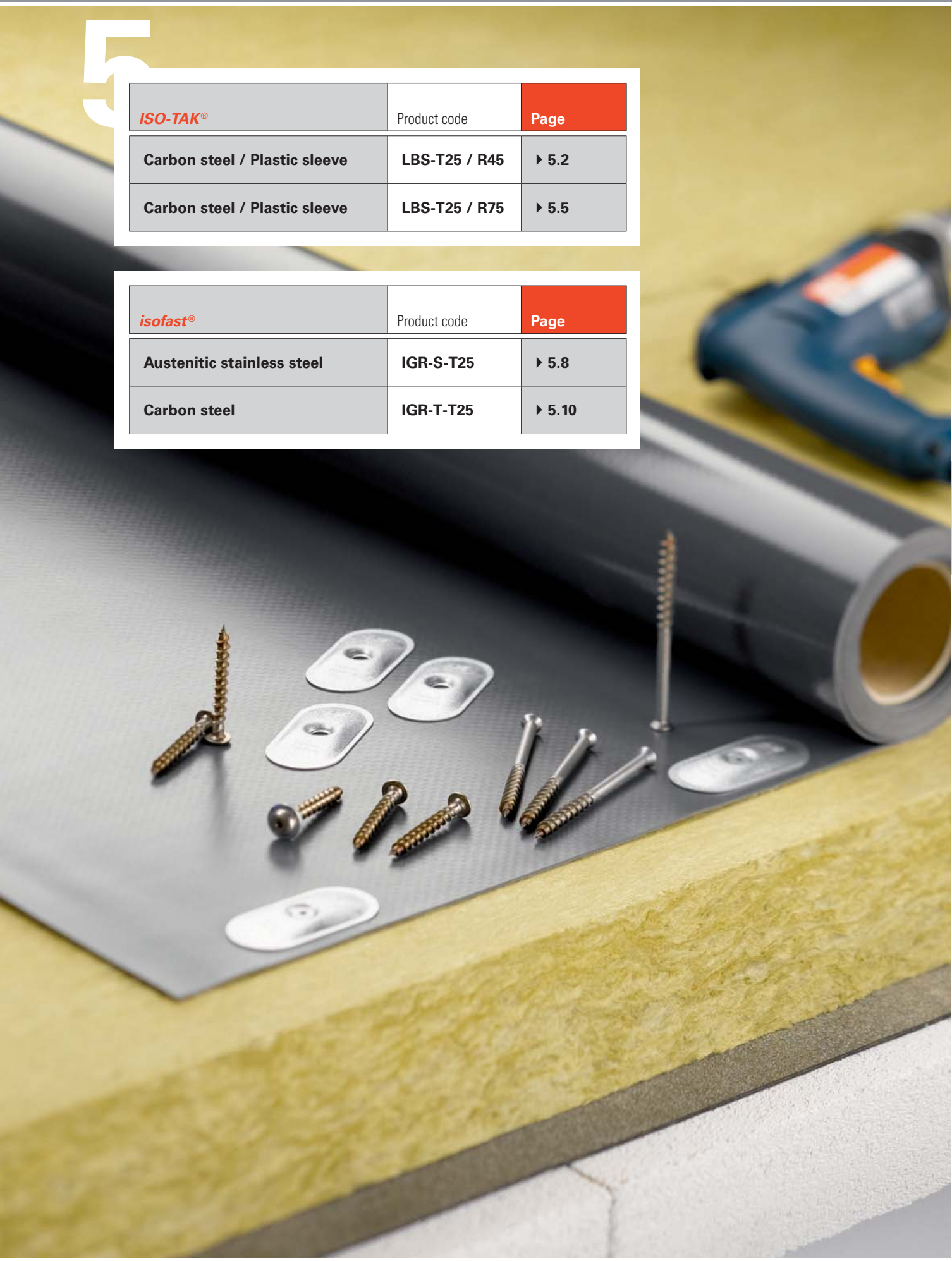
All approvals and recommended design loads are based upon close tolerance pilot holes that are drilled using SFS intec 4PLUS carbide drill bits.

* Technical performance values of the TI fasteners may differ due to variation in the hardness of locally sourced concrete aggregates. Optimum performance can be determined by site testing using different drill diameters, for example between SDS-4,8 and SDS-5,2. Consult your SFS representative for further information.

5

<i>ISO-TAK</i> [®]	Product code	Page
Carbon steel / Plastic sleeve	LBS-T25 / R45	▶ 5.2
Carbon steel / Plastic sleeve	LBS-T25 / R75	▶ 5.5

<i>isofast</i> [®]	Product code	Page
Austenitic stainless steel	IGR-S-T25	▶ 5.8
Carbon steel	IGR-T-T25	▶ 5.10



ISO-TAK® LBS-T25 / R45

ISO-TAK® LBS-T25 / R45



Technical information

Application

For the fastening of waterproof membrane to aerated concrete with min. quality class P 3.3 (DIN 4223-1).

Material

Fastener

■ LBS-T25

Case hardened carbon steel

Durocoat® corrosion protection:

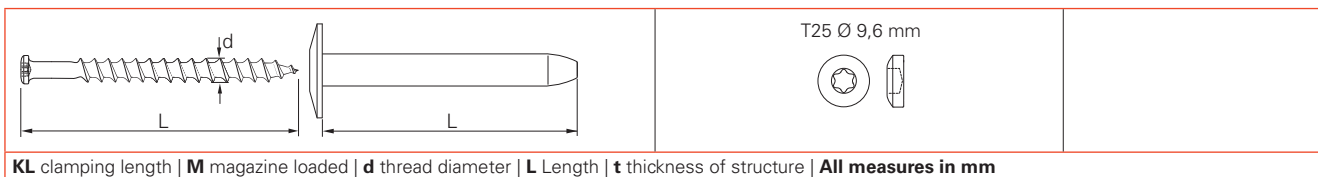
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements.

Environment friendly, free of chromium VI

■ R45

High quality polypropylene, PP

Order information

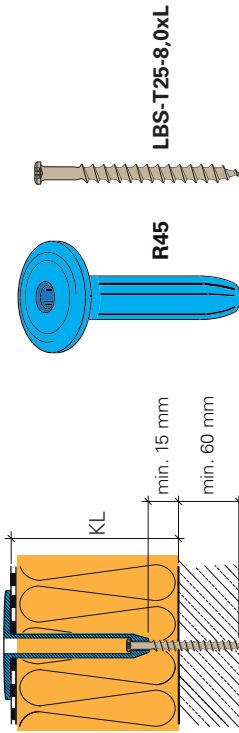


Product / Application	Approval	Order code			KL	Application range	
		Type	d	L			
<p>■ Carbon steel</p> <p>CE ETA 08/0262</p> <p>SINTEF</p>		LBS-T25- 8,0x 65				<p>Sd (Setting depth): min. 60 mm</p> <p>Insulation compressive strength min. 0,07 N/mm².</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>	
<p>● Plastic</p> <p>CE ETA 06/0170</p> <p>SINTEF</p>		R	45x	15		KL see combination table	
			R	45x	35		
			R	45x	65		
			R	45x	85		
			R	45x	105		
			R	45x	135		
			R	45x	165		
			R	45x	185		
			R	45x	195		
			R	45x	225		
			R	45x	255		
			R	45x	285		
			R	45x	325		
		R	45x	365			
		R	45x	405			

Selection of the correct fastener and sleeve combination

Combination sleeve R45 and LBS-T25-8.0xL

KL (mm)



Roof buildup (KL)	Fastener LBS-T25-8xL	Sleeve length (L)	Roof buildup (KL)	Fastener LBS-T25-8xL	Sleeve length (L)
30	105; 105; 125; 125	Sleeve length 15	30	105; 105; 125; 125	Sleeve length 15
40	105; 105; 125; 125	Sleeve length 35	40	105; 105; 125; 125	Sleeve length 35
50	105; 105; 125; 125	Sleeve length 65	50	105; 105; 125; 125	Sleeve length 65
60	105; 105; 125; 125	Sleeve length 85	60	105; 105; 125; 125	Sleeve length 85
70	105; 105; 125; 125	Sleeve length 105	70	105; 105; 125; 125	Sleeve length 105
80	105; 105; 125; 125	Sleeve length 135	80	105; 105; 125; 125	Sleeve length 135
90	105; 105; 125; 125	Sleeve length 165	90	105; 105; 125; 125	Sleeve length 165
100	105; 105; 125; 125	Sleeve length 185	100	105; 105; 125; 125	Sleeve length 185
110	105; 105; 125; 125	Sleeve length 195	110	105; 105; 125; 125	Sleeve length 195
120	105; 105; 125; 125	Sleeve length 225	120	105; 105; 125; 125	Sleeve length 225
130	105; 105; 125; 125	Sleeve length 235	130	105; 105; 125; 125	Sleeve length 235
140	105; 105; 125; 125	Sleeve length 255	140	105; 105; 125; 125	Sleeve length 255
150	105; 105; 125; 125	Sleeve length 285	150	105; 105; 125; 125	Sleeve length 285
160	105; 105; 125; 125	Sleeve length 315	160	105; 105; 125; 125	Sleeve length 315
170	105; 105; 125; 125	Sleeve length 325	170	105; 105; 125; 125	Sleeve length 325
180	105; 105; 125; 125	Sleeve length 355	180	105; 105; 125; 125	Sleeve length 355
190	105; 105; 125; 125	Sleeve length 385	190	105; 105; 125; 125	Sleeve length 385
200	105; 105; 125; 125	Sleeve length 405	200	105; 105; 125; 125	Sleeve length 405
210	105; 105; 125; 125	Sleeve length 435	210	105; 105; 125; 125	Sleeve length 435
220	105; 105; 125; 125	Sleeve length 445	220	105; 105; 125; 125	Sleeve length 445
230	105; 105; 125; 125	Sleeve length 475	230	105; 105; 125; 125	Sleeve length 475
240	105; 105; 125; 125	Sleeve length 485	240	105; 105; 125; 125	Sleeve length 485
250	105; 105; 125; 125	Sleeve length 505	250	105; 105; 125; 125	Sleeve length 505
260	105; 105; 125; 125	Sleeve length 515	260	105; 105; 125; 125	Sleeve length 515
270	105; 105; 125; 125	Sleeve length 535	270	105; 105; 125; 125	Sleeve length 535
280	105; 105; 125; 125	Sleeve length 545	280	105; 105; 125; 125	Sleeve length 545
290	105; 105; 125; 125	Sleeve length 565	290	105; 105; 125; 125	Sleeve length 565
300	105; 105; 125; 125	Sleeve length 575	300	105; 105; 125; 125	Sleeve length 575
310	105; 105; 125; 125	Sleeve length 595	310	105; 105; 125; 125	Sleeve length 595
320	105; 105; 125; 125	Sleeve length 605	320	105; 105; 125; 125	Sleeve length 605
330	105; 105; 125; 125	Sleeve length 625	330	105; 105; 125; 125	Sleeve length 625
340	105; 105; 125; 125	Sleeve length 635	340	105; 105; 125; 125	Sleeve length 635
350	105; 105; 125; 125	Sleeve length 655	350	105; 105; 125; 125	Sleeve length 655
360	105; 105; 125; 125	Sleeve length 665	360	105; 105; 125; 125	Sleeve length 665
370	105; 105; 125; 125	Sleeve length 685	370	105; 105; 125; 125	Sleeve length 685
380	105; 105; 125; 125	Sleeve length 695	380	105; 105; 125; 125	Sleeve length 695
390	105; 105; 125; 125	Sleeve length 715	390	105; 105; 125; 125	Sleeve length 715
400	105; 105; 125; 125	Sleeve length 725	400	105; 105; 125; 125	Sleeve length 725
410	105; 105; 125; 125	Sleeve length 745	410	105; 105; 125; 125	Sleeve length 745
420	105; 105; 125; 125	Sleeve length 755	420	105; 105; 125; 125	Sleeve length 755
430	105; 105; 125; 125	Sleeve length 775	430	105; 105; 125; 125	Sleeve length 775
440	105; 105; 125; 125	Sleeve length 785	440	105; 105; 125; 125	Sleeve length 785
450	105; 105; 125; 125	Sleeve length 805	450	105; 105; 125; 125	Sleeve length 805
460	105; 105; 125; 125	Sleeve length 815	460	105; 105; 125; 125	Sleeve length 815
470	105; 105; 125; 125	Sleeve length 835	470	105; 105; 125; 125	Sleeve length 835
480	105; 105; 125; 125	Sleeve length 845	480	105; 105; 125; 125	Sleeve length 845
490	105; 105; 125; 125	Sleeve length 865	490	105; 105; 125; 125	Sleeve length 865
500	105; 105; 125; 125	Sleeve length 875	500	105; 105; 125; 125	Sleeve length 875

Calculation: Roof buildup (KL) - Sleeve length (L) + 75 mm = min. length
 Example: 100 mm - 85 mm + 75 mm = 90 mm -> Type of fastener LBS-T25-8x105

ISO-TAK® LBS-T25 / R75



Technical information

Application

For the fastening of insulation to aerated concrete with min. quality class P 3.3 (DIN 4223-1).

Material

Fastener

- LBS-T25
Case hardened carbon steel

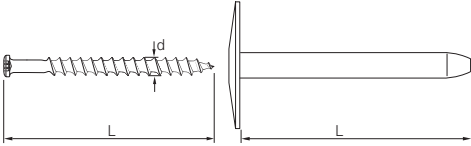

- R75
High quality polypropylene, PP


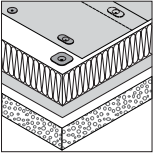

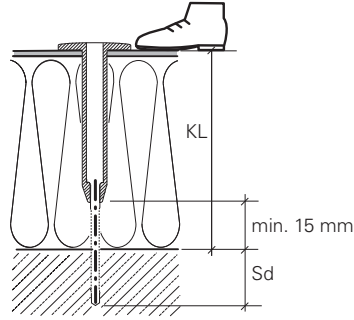
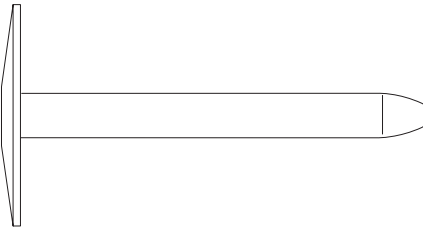

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements.

Environment friendly, free of chromium VI

ISO-TAK® LBS-T25 / R75

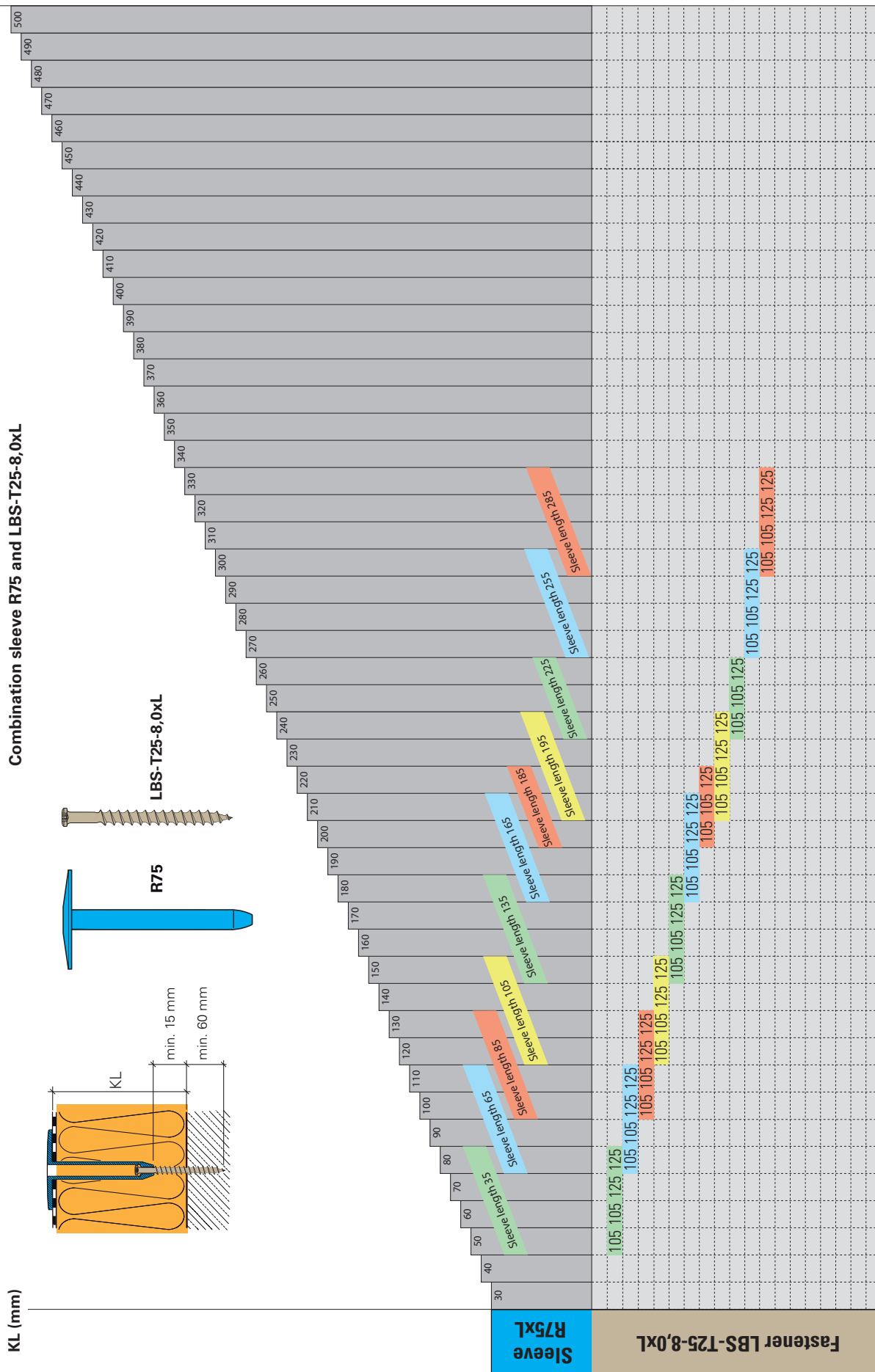
Order information

	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		LBS-T25-	8,0x	65		 <p>Sd (Setting depth): min. 60 mm</p> <p>Insulation compressive strength min. 0,07 N/mm².</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		LBS-T25-	8,0x	85		
		LBS-T25-	8,0x	105		
		LBS-T25-	8,0x	125		
<p>● Plastic</p> 		R	75x	35		KL see combination table
		R	75x	65		
		R	75x	85		
		R	75x	105		
		R	75x	135		
		R	75x	165		
		R	75x	185		
		R	75x	195		
		R	75x	225		
		R	75x	255		
R	75x	285				

5

Selection of the correct fastener and sleeve combination



Tools and accessories can be found in chapter 10

isofast® IGR-S-T25**isofast® IGR-S-T25****Technical information****Application**

For the fastening of waterproof membrane and insulation to aerated concrete with min. quality class P 3.3 (DIN 4223-1).

For aerated concrete substrate applications we recommend the use of fasteners manufactured from austenitic stainless steel, grade AISI 304, European Standard 1.4301 due to the high moisture absorption capability of this material.

Material**Fastener**

- IGR-S-T25
Austenitic stainless steel, grade
AISI 304, European Standard
1.4301, grade A2

Stress plates

- IG8-C-70x70 / IG8-C-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the
Kesternich test in accordance
with ETAG 006 - D3.1 and
FM requirements.

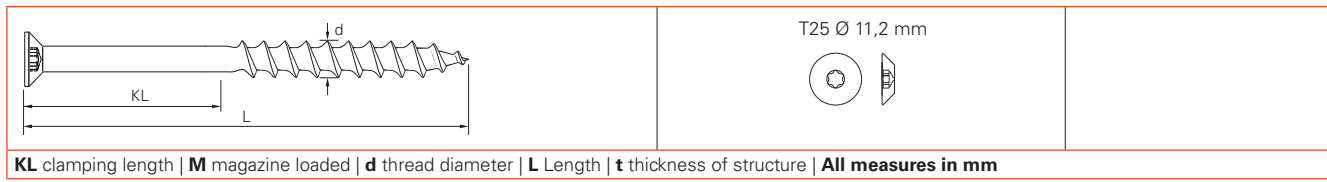
Stress plates**IG8-C-70x70**

- Stress plate for insulation

IG8-C-82x40

- Stress plate for membrane
on hard substrates

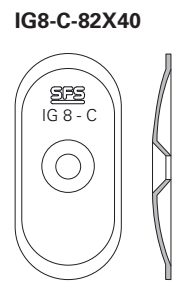
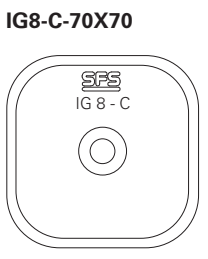
Order information



Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>• Stainless steel</p>		IGR-S-T25-	8,0x	65	5	<p>Sd (Setting depth): min. 60 mm</p> <p>Insulation compressive strength min. 0,07 N/mm².</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		IGR-S-T25-	8,0x	90	30	
		IGR-S-T25-	8,0x	110	50	
		IGR-S-T25-	8,0x	130	70	
		IGR-S-T25-	8,0x	150	90	
		IGR-S-T25-	8,0x	170	110	
		IGR-S-T25-	8,0x	190	130	
		IGR-S-T25-	8,0x	210	150	
		IGR-S-T25-	8,0x	230	170	
		IGR-S-T25-	8,0x	260	200	
		IGR-S-T25-	8,0x	290	230	

5

Stress plates



isofast® IGR-T-T25**isofast® IGR-T-T25****Technical information****Application**

For the fastening of waterproof membrane and insulation to aerated concrete with min. quality class P 3.3 (DIN 4223-1).

Material**Fastener**

- IGR-T-T25
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements.

Environment friendly, free of chromium VI

Stress plates

- IG8-C-70x70 / IG8-C-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements.

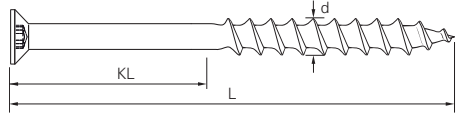
Stress plates**IG8-C-70x70**

- Stress plate for insulation


IG8-C-82x40

- Stress plate for membrane on hard substrates


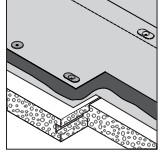
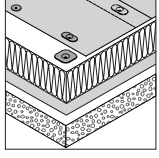

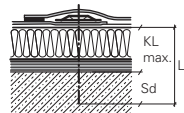
Order information



T25 Ø 11,2 mm



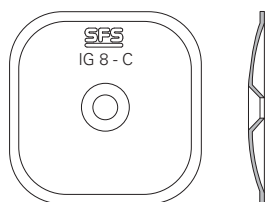
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>   	 ETA 08/0262	IGR-T-T25-	8,0x	65	5	 <p>Sd (Setting depth): min. 60 mm</p> <p>Insulation compressive strength min. 0,07 N/mm².</p> <p>Optimum performance can be determined by SFS intec. Limited undertaking site pull out testing using different drill diameters. Consult your SFS representative for further information.</p>
		IGR-T-T25-	8,0x	90	30	
		IGR-T-T25-	8,0x	110	50	
		IGR-T-T25-	8,0x	130	70	

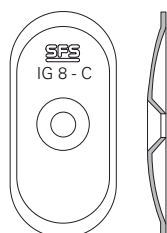
5

Stress plates

IG8-C-70X70



IG8-C-82X40



6

ISO-TAK®	Product code	Page
Carbon steel / Plastic sleeve	TS-T25 / R45	▶ 6.3
Carbon steel / Plastic sleeve	TS-T25 / R75	▶ 6.6
Carbon steel / Plastic sleeve	TS-T25 / ST	▶ 6.9

isofast®	Product code	Page
Carbon steel	IG	▶ 6.12
Austenitic stainless steel	IW-S	▶ 6.14
Carbon steel	IWF	▶ 6.16



Cost effective fastening of insulation and membrane to timber decks

Because conventional wood screws are inadequate for the fastening of membrane through insulation boards into timber decks, dedicated fastening systems are required for this appli-

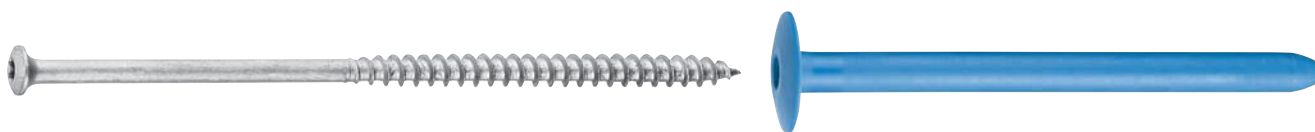
cation. Specially designed fasteners from SFS intec can be used in combination with either plastic sleeves or stress plates.

The convincing advantages of the *ISO-TAK*® TS-T25 fastening systems



- A 'treadfast' fastener and stress plate combination ensures that the system is safe to walk on
- Ideal for applications with increased insulation thickness
- Cost-effective due to combination of screw with plastic sleeve
- Excellent torque transfer through the T25 drive
- Specially designed installation tool available, saving time and money

Particularly suitable for timber decking applications including timber sub-structures, plywood, multi layer panels and similar applications.

ISO-TAK® TS-T25 / R45**Technical information****Application**

For the fastening of waterproof membrane through insulation to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

Material**Fastener**

■ TS-T25

Case hardened carbon steel

■ R45

High quality polypropylene, PP

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

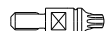
Tools and accessories**IT 19**

- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

DI 650

ZA ¼" -M6-300/670

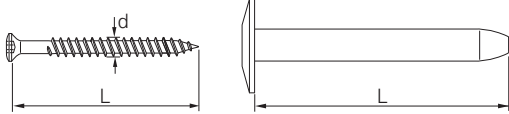
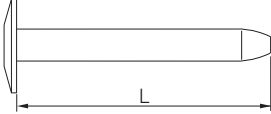
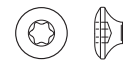
T25-32-M6

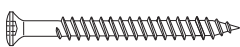
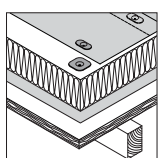

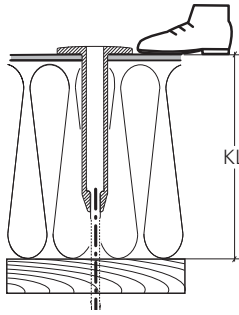
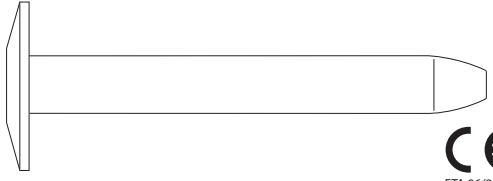



- Power screwdriver for manual installation of fasteners.

ISO-TAK® TS-T25 / R45

Order information

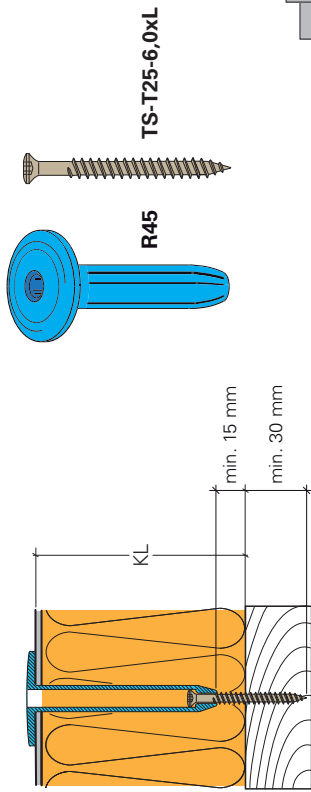
		<p>T25 recess \varnothing 9,0 mm</p> 
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		TS-T25-	6,0x	50		
		TS-T25-	6,0x	60		
		TS-T25-	6,0x	70		
		TS-T25-	6,0x	80		
		TS-T25-	6,0x	90		
		TS-T25-	6,0x	100		
		TS-T25-	6,0x	110		
		TS-T25-	6,0x	120		
		TS-T25-	6,0x	130		
		TS-T25-	6,0x	140		
		TS-T25-	6,0x	160		
		TS-T25-	6,0x	180		
		TS-T25-	6,0x	200		
		TS-T25-	6,0x	220		
TS-T25-	6,0x	240				
<p>● Plastic</p> 		R	45x	15	<p>KL see combination table</p>	
		R	45x	35		
		R	45x	65		
		R	45x	85		
		R	45x	105		
		R	45x	135		
		R	45x	165		
		R	45x	185		
		R	45x	195		
		R	45x	225		
		R	45x	255		
		R	45x	285		
		R	45x	325		
		R	45x	365		
R	45x	405				

Selection of the correct fastener and sleeve combination

Combination sleeve R45 and TS-T25-6,0xL

KL (mm)



Roof buildup (KL)	Fastener TS-T25-6xL	Sleeve R45xL
30	60 : 70 : 80 : 90	Sleeve length 15
40	60 : 70 : 80 : 90 : 100	Sleeve length 35
50	60 : 70 : 80 : 90	Sleeve length 65
60	60 : 70 : 80 : 90 : 100	Sleeve length 85
70	60 : 70 : 80 : 90	Sleeve length 105
80	60 : 70 : 80 : 90 : 100	Sleeve length 135
90	60 : 70 : 80 : 90 : 100	Sleeve length 165
100	60 : 70 : 80 : 90 : 100	Sleeve length 185
110	60 : 70 : 80 : 90 : 100	Sleeve length 195
120	60 : 70 : 80 : 90 : 100	Sleeve length 225
130	60 : 70 : 80 : 90 : 100	Sleeve length 255
140	60 : 70 : 80 : 90 : 100	Sleeve length 285
150	60 : 70 : 80 : 90 : 100	Sleeve length 325
160	60 : 70 : 80 : 90 : 100	Sleeve length 355
170	60 : 70 : 80 : 90 : 100	Sleeve length 405
180	60 : 70 : 80 : 90 : 100	Sleeve length 435
190	60 : 70 : 80 : 90 : 100	
200	60 : 70 : 80 : 90 : 100	
210	60 : 70 : 80 : 90 : 100	
220	60 : 70 : 80 : 90 : 100	
230	60 : 70 : 80 : 90 : 100	
240	60 : 70 : 80 : 90 : 100	
250	60 : 70 : 80 : 90 : 100	
260	60 : 70 : 80 : 90 : 100	
270	60 : 70 : 80 : 90 : 100	
280	60 : 70 : 80 : 90 : 100	
290	60 : 70 : 80 : 90 : 100	
300	60 : 70 : 80 : 90 : 100	
310	60 : 70 : 80 : 90 : 100	
320	60 : 70 : 80 : 90 : 100	
330	60 : 70 : 80 : 90 : 100	
340	60 : 70 : 80 : 90 : 100	
350	60 : 70 : 80 : 90 : 100	
360	60 : 70 : 80 : 90 : 100	
370	60 : 70 : 80 : 90 : 100	
380	60 : 70 : 80 : 90 : 100	
390	60 : 70 : 80 : 90 : 100	
400	60 : 70 : 80 : 90 : 100	
410	60 : 70 : 80 : 90 : 100	
420	60 : 70 : 80 : 90 : 100	
430	60 : 70 : 80 : 90 : 100	
440	60 : 70 : 80 : 90 : 100	
450	60 : 70 : 80 : 90 : 100	
460	60 : 70 : 80 : 90 : 100	
470	60 : 70 : 80 : 90 : 100	
480	60 : 70 : 80 : 90 : 100	
490	60 : 70 : 80 : 90 : 100	
500	60 : 70 : 80 : 90 : 100	

Calculation: Roof buildup (KL) - Sleeve length (L) + 45 mm = min. length
 Example: 100 mm - 85 mm + 45 mm = 60 mm -> Type of fastener TS-T25-6,0x60

ISO-TAK TS-T25 / R75**Technical information****Application**

For the fastening of insulation to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

Material**Fastener**

■ TS-T25

Case hardened carbon steel

■ R75

High quality polypropylene, PP

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

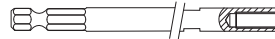
Environment friendly, free of chromium VI

Tools and accessories**IT 19**

- Stand-up setting tool for the installation of ISO-TAK® fasteners and sleeves.

DI 650

ZA ¼" -M6-300/670

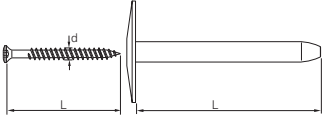




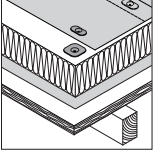

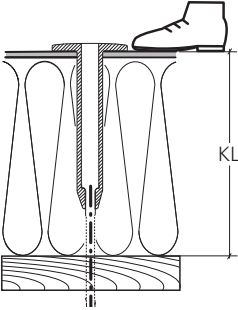
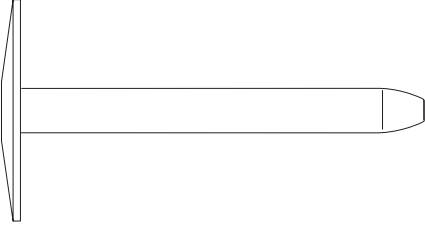

T25-32-M6



- Power screwdriver for manual installation of fasteners.

Order information

	<p>T25 recess Ø 9,0 mm</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		TS-T25- 6,0x 50				
		TS-T25-	6,0x	50		
		TS-T25-	6,0x	60		
		TS-T25-	6,0x	70		
		TS-T25-	6,0x	80		
		TS-T25-	6,0x	90		
		TS-T25-	6,0x	100		
		TS-T25-	6,0x	110		
		TS-T25-	6,0x	120		
		TS-T25-	6,0x	130		
		TS-T25-	6,0x	140		
		TS-T25-	6,0x	160		
		TS-T25-	6,0x	180		
		TS-T25-	6,0x	200		
TS-T25-	6,0x	220				
TS-T25-	6,0x	240				
<p>● Plastic</p> 		R	75x	35		<p>KL see combination table</p>
		R	75x	65		
		R	75x	85		
		R	75x	105		
		R	75x	135		
		R	75x	165		
		R	75x	185		
		R	75x	195		
		R	75x	225		
		R	75x	255		
R	75x	285				

ISO-TAK® TS-T25 / ST



Technical information

Application

For the fastening of waterproof membrane through insulation to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

ST Sleeves are designed for use with Sika Trocal® membranes in conjunction with the appropriate metal disc.

Alternatively the ST sleeve can be used to install compatible steel termination bar systems.

When used with the Sika-Trocal® metal disc, the R-CAP-11 plug should be inserted into the sleeve following installation.

Material

Fastener

- TS-T25
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

- ST
High quality polypropylene, PP

Cap

- R-Cap-11
High quality polypropylene, PP

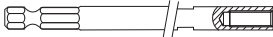


Tools and accessories

DI 650



ZA 1/4"-M6-300/670

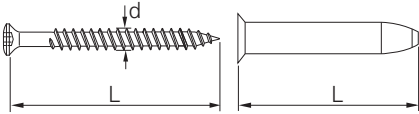
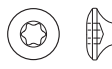



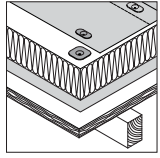

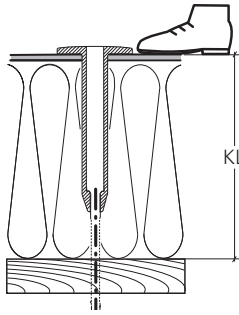


T25-32-M6



- Power screwdriver for manual installation of fasteners.

Order information

	<p>T25 recess \varnothing 9,0 mm</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p>  		TS-T25-	6,0x	50		
		TS-T25-	6,0x	60		
		TS-T25-	6,0x	70		
		TS-T25-	6,0x	80		
		TS-T25-	6,0x	90		
		TS-T25-	6,0x	100		
		TS-T25-	6,0x	110		
		TS-T25-	6,0x	120		
		TS-T25-	6,0x	130		
		TS-T25-	6,0x	140		
		TS-T25-	6,0x	160		
		TS-T25-	6,0x	180		
		TS-T25-	6,0x	200		
		TS-T25-	6,0x	220		
TS-T25-	6,0x	240				
<p>● Plastic</p> 		ST	25x	70	<p>KL see combination table</p>	
		ST	25x	90		
		ST	25x	110		
		ST	25x	140		
		ST	25x	170		
		ST	25x	190		

isofast® IG

isofast® IG



Technical information

Application

For the fastening of waterproof membrane and insulation to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

Material

Fastener

- IG
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DI 650



- Power screwdriver for manual installation of fasteners.

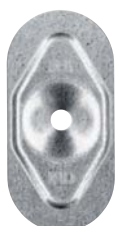
Stress plates

ID-70x70



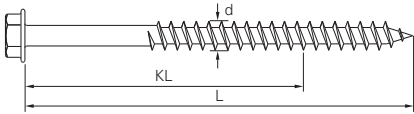

- Stress plate for insulation

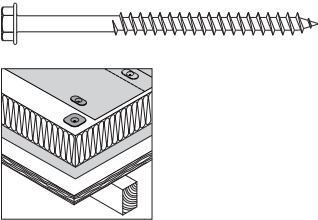

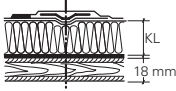
IRD-82x40



- Stress plate for membrane

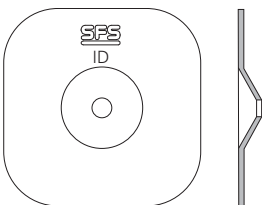
Order information

	<p>Hexagon 8 mm A/F</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

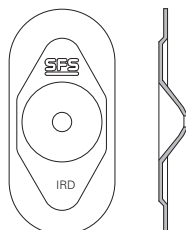
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>■ Carbon steel</p> 	 <p>ETA 08/0321</p>	IG-	6,0x	60	30	 <p>Screw length L: KL + 30 mm</p>
		IG-	6,0x	70	40	
		IG-	6,0x	90	60	
		IG-	6,0x	100	70	
		IG-	6,0x	120	90	
		IG-	6,0x	140	110	
		IG-	6,0x	160	130	
		IG-	6,0x	180	150	

Stress plates

ID-70X70



IRD-82X40



isofast® IW-S**isofast® IW-S****Technical information****Application**

For the fastening of waterproof membrane to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions.

For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material**Fastener**

- *isofast® IW-S*
Austenitic stainless steel, grade
AISI 304, European Standard
1.4301, grade A2

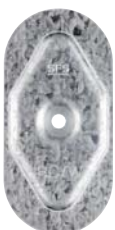
Stress plates

- IRC/W-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

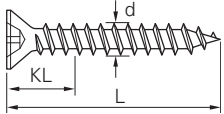

- Power screwdriver for manual installation of fasteners.

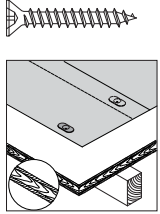
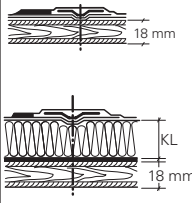
Stress plates**IRC/W-82x40**

- Stress plate for membrane

Tools and accessories can be found in chapter 10

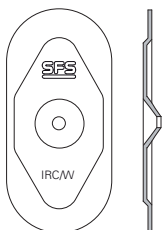
Order information

	<p>PZ No 2 10,0 mm A/F</p> 	
<p>KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm</p>		

Product / Application		Approval	Order code IW-S- 5,0x 45			KL	Application range
<p>● Stainless steel</p> 			Type	d	L	15	 <p>Screw length L: KL + 30 mm</p>

Stress plates

IRC/W-82X40



isofast® IWF

isofast® IWF**Technical information****Application**

For the fastening of waterproof membrane to timber deck. The recommended minimum thickness of timber boarding, for example plywood, oriented strand board (OSB) is 18 mm.

Material**Fastener**

- IWF
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

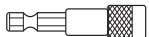
Stress plates

- IRC/W-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

ZA 1/4" Universal bit holder



PH2 bit

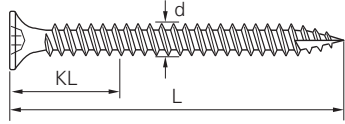



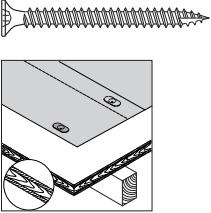
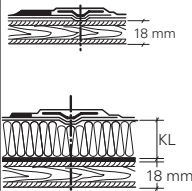
- Power screwdriver for manual installation of fasteners.

Stress plates**IRC/W-82x40**

- Stress plate for membrane

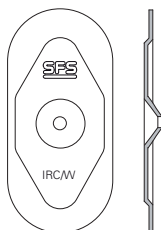
Order information

	PH2 9,4 mm A/F 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
■ Carbon steel 		IWF-	5,2x	25	*	 Screw length L: KL + 30 mm * For special applications please consult your SFS representative.
		IWF-	5,2x	35	5	
		IWF-	5,2x	45	15	
		IWF-	5,2x	55	25	

Stress plates

IRC/W-82X40



7

<i>isofast</i> [®]	Product code	Page
Peel Rivet	TPR-L	▶ 7.3
Drill bits	HSS / SDS	▶ 7.5



Peel Rivet fastening system: Safe fixing whatever the sub-frame

Safe fixing to aluminium sheet, thin concrete, timber and cement boards is essential when installing flat roof insulation. Conventional screws do not offer adequate performance or

require to be reinforced with additional security features. The TPR-L riveting system will remove the additional time and cost otherwise involved.

The convincing advantages of the Peel Rivet fastening system



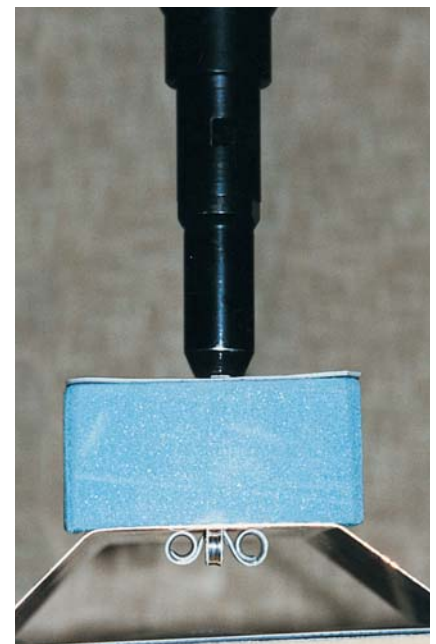
- High corrosion resistance (rivet sleeve manufactured from aluminium / magnesium alloy, centre pin from zinc coated carbon steel)
- Consistently high pullout values due to dedicated system design
- Center pin remains in the rivet sleeve
- Ergonomic installation using the TPR 55 setting tool
- Dynamic wind loads present no problem
- Can be combined with standard stress plates
- Also suitable for thin steel decks

7



Critical sub-structures: The Peel Rivet fastening system is the ideal solution

After pre-drilling the sub-structure, the peel rivets can be rapidly fitted using the TPR 55 setting tool. As the centre pin is withdrawn, the rivet is deformed, creating four arms which produce a contact surface equivalent to five times the shaft diameter. In combination with recommended stress plates the rivets provide for a consistently high pullout requirement.



Peel Rivet TPR-L



Technical information

Application

For the fastening of waterproof membrane and insulation to aluminium, thin concrete, wood wool and problem decks, where conventional threaded fasteners may not achieve sufficient performance.

	TPR-L
Minimum thickness for steel deck:	$t \geq 0,50 \text{ mm}$
Minimum thickness for aluminium deck:	$t \geq 0,60 \text{ mm}$
Minimum clamping length:	$KL \geq 10,0 \text{ mm}$

Generally

To be installed via a pilot hole. Application tests are required on all projects to determine the suitability and performance.

Material

Fastener

- TPR-L

Body: Aluminium/magnesium alloy

Mandrel: Zinc plated steel

Stress plates

- ID-70x70 / IE-C-82x40 / IRD-82x40

Steel 1,0 mm, zinc plated
Resistant to 15 cycles of the
Kesternich test in accordance
with ETAG 006 - D3.1 and
FM requirements

Tools and accessories

TPR 55



- Riveting tool for fast installation of TPR-L Peel Rivet fasteners.

Lever tool RM-20



- Including 4 nozzles.

Stress plates

ID-70x70



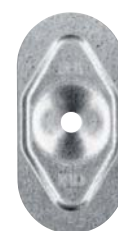
- Stress plate for insulation

IE-C-82x40



- Stress plate for membrane on hard substrates

IRD-82x40

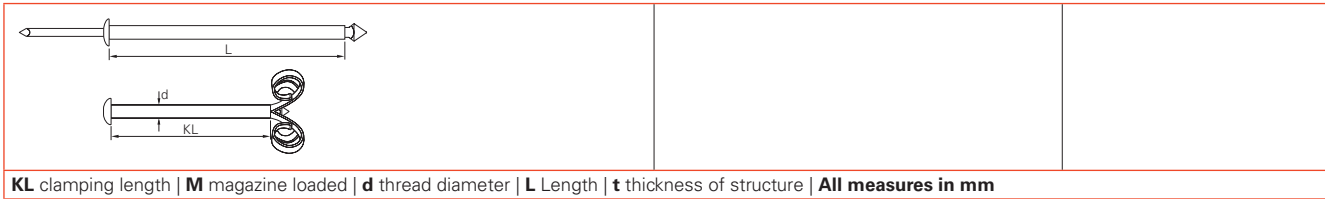


- Stress plate for membrane

Tools and accessories can be found in chapter 10

Peel Rivet TPR-L

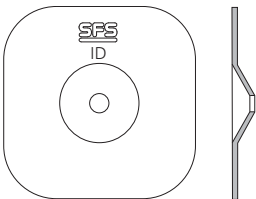
Order information



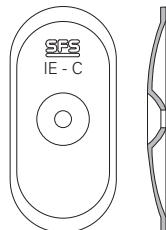
Product / Application	Approval	TPR-L- 6,3x 38		KL		Application range		
		Type	d	L	IE-C-82x40		IRD-82x40	
▲ Aluminium 		TPR-L-	6,3x	38	10* - 20	15* - 25		t min. steel: _____ 0,5 mm
		TPR-L-	6,3x	51	20* - 26	25* - 26		
		TPR-L-	6,3x	64	20* - 39	25* - 39		
		TPR-L-	6,3x	76	20* - 51	25* - 51	*Minimum KL due to the mandrel which stays inside the body of the Peel Rivet. Smaller KL than minimum KL are not allowed. Pull-out tests are recommended, if thickness of substrate is lower than t min.	t min. alu: _____ 0,6 mm
		TPR-L-	6,3x	88	28 - 63			
		TPR-L-	6,3x	102	42 - 77			
		TPR-L-	6,3x	127	67 - 102			
		TPR-L-	6,3x	152	92 - 127			
		TPR-L-	6,3x	178	118 - 153			
		TPR-L-	6,3x	203	143 - 178			
		TPR-L-	6,3x	229	169 - 204			
		TPR-L-	6,3x	254	194 - 229			

Stress plates

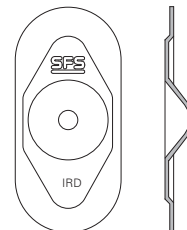
ID-70X70



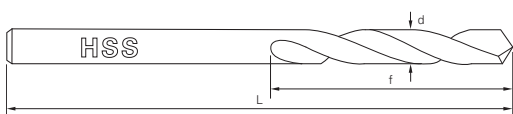
IE-C-82X40



IRD-82X40



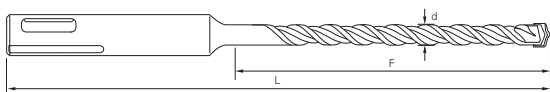
Order information



d diameter | **L** Length | **f** flute length | **All measures in mm**

Order code				
HSS- 7,0x 109/ 69				
Type	d	L	f	Application range
HSS-	7,0x	109/	69	For steel or aluminium decks.
HSS-	7,0x	156/	102	
HSS-	7,0x	225/	155	
HSS-	7,0x	290/	200	
HSS-	7,0x	370/	250	

Order information



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

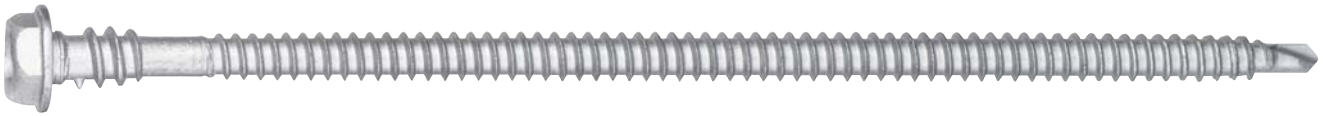
d diameter | **L** Length | **F** working length | **All measures in mm**

Order code						
SDS- 7,0x 110/ 50- 4PLUS						
Type	d	L	F	Code	F	Application range
SDS-	7,0x	110/	50-	4PLUS	50	For woodwool, concrete or fibre cement decks (without hammer action).
SDS-	7,0x	160/	100-	4PLUS	100	
SDS-	7,0x	210/	150-	4PLUS	150	
SDS-	7,0x	250/	190-	4PLUS	190	
SDS-	7,0x	350/	290-	4PLUS	290	

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<i>isofast</i>	Product code	Page
Steel deck	IR2	▶ 8.2
	IR2-S	▶ 8.4
Concrete deck	DT	▶ 8.6
	DT-S	▶ 8.9
	TI	▶ 8.11
Concrete deck, solid brick	RNR	▶ 8.13
Concrete deck, solid brick, masonry	MNA	▶ 8.15
Aerated concrete deck	IGR-S-T25	▶ 8.17
	IGF-S-T25	▶ 8.19
Drill bits	SDS	▶ 8.21



isofast® IR2**isofast® IR2**

Technical information

Application

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,25 mm.

Material

Fastener

- IR2
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- IF-70x70 / IR-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DI 650



- Power screwdriver for manual installation of fasteners.

IF 80



- Stand-up setting tool for the installation of *isofast®* fasteners and stress plates.

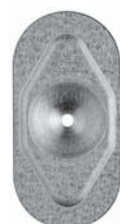
Stress plates

IF-70x70



- Stress plate for insulation

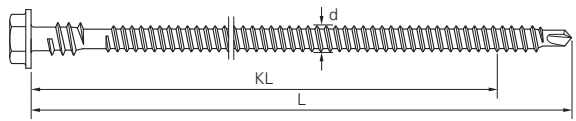

IR-82x40


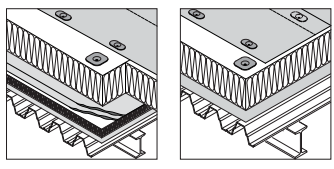
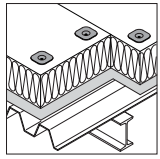


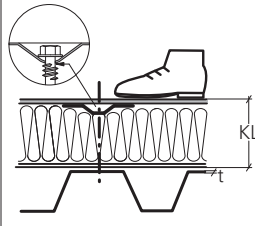


- Stress plate for membrane

Tools and accessories can be found in chapter 10

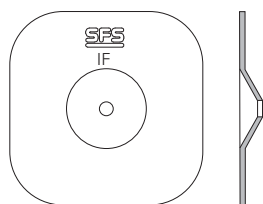
Order information

	Hexagon 8 mm A/F 
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

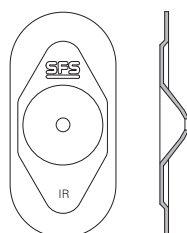
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
■ Carbon steel   	 	IR2-	4,8x	60	40	 t min. steel: _____ 0,63 mm t max. steel: _____ 2 x 1,25 mm
		IR2-	4,8x	70	50	
		IR2-	4,8x	80	60	
		IR2-	4,8x	90	70	
		IR2-	4,8x	100	80	
		IR2-	4,8x	110	90	
		IR2-	4,8x	120	100	
		IR2-	4,8x	130	110	
		IR2-	4,8x	140	120	
		IR2-	4,8x	150	130	
		IR2-	4,8x	160	140	
		IR2-	4,8x	180	160	
		IR2-	4,8x	200	180	
		IR2-	4,8x	220	200	
		IR2-	4,8x	240	220	
IR2-	4,8x	260	240			
IR2-	4,8x	280	260			
IR2-	4,8x	300	280			

Stress plates

IF-70X70



IR-82X40



isofast® IR2-S

isofast® IR2-S**Technical information****Application**

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 0,63 mm and max. 2 x 1,0 mm.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions. For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material**Fastener**

- IR2-S
Austenitic stainless steel, grade AISI 316, European Standard 1.4401, grade A4

Drill point and lead thread section

- Fused and hardened carbon steel, length 12 mm, corrosion protected

Stress plates

- IF-70x70 / IR-82x40
Steel 1,0 mm, zinc plated
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories**DI 650**

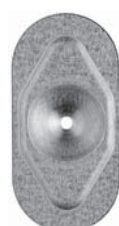
- Power screwdriver for manual installation of fasteners.

IF 80

- Stand-up setting tool for the installation of *isofast®* fasteners and stress plates.

Stress plates**IF-70x70**

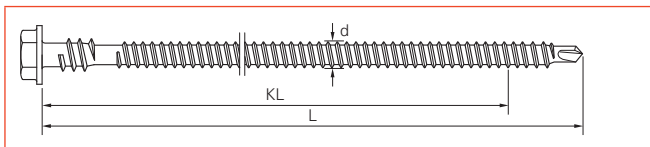
- Stress plate for insulation

IR-82x40

- Stress plate for membrane

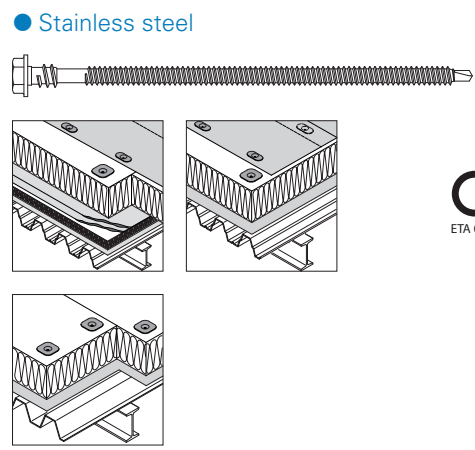
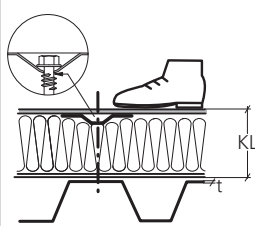
Tools and accessories can be found in chapter 10

Order information



Hexagon 8 mm A/F

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

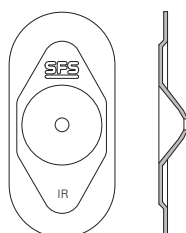
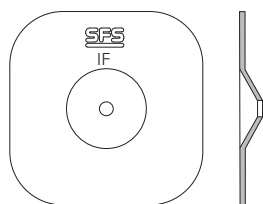
Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>  <p>CE ETA 08/0321</p>		IR2-S-	4,8x	60	40	 <p>t min. steel: 0,63 mm t max. steel: 2 x 1,0 mm</p> <p>Screw length L: KL + 20 mm</p>
		IR2-S-	4,8x	80	60	
		IR2-S-	4,8x	100	80	
		IR2-S-	4,8x	120	100	
		IR2-S-	4,8x	140	120	
		IR2-S-	4,8x	160	140	
		IR2-S-	4,8x	180	160	
		IR2-S-	4,8x	200	180	
		IR2-S-	4,8x	220	200	
		IR2-S-	4,8x	240	220	
		IR2-S-	4,8x	260	240	
		IR2-S-	4,8x	280	260	
		IR2-S-	4,8x	300	280	

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Stress plates

IF-70X70

IR-82X40



isofast® SPIKE® twister DT

isofast® SPIKE® twister DT



Technical information

Application

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum C12/15.

Material

Fastener

- DT
Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IF/IG-C-82x40 / IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DF 21



- Allows the DB 620 to be used from a standing position, ensuring optimum performance from tool and operator.

ZD 15



- Setting tool for the installation of SPIKE® twister fasteners.

Stress plates

ID-70x70



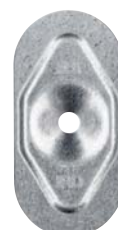
- Stress plate for insulation

IF/IG-C-82x40



- Stress plate for membrane on hard substrates

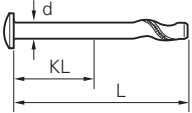

IRD-82x40

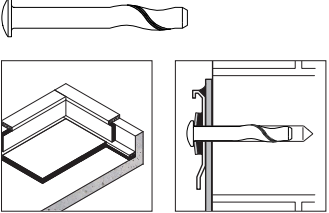
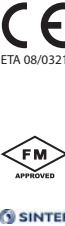
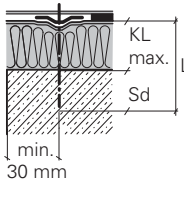


- Stress plate for membrane

Tools and accessories can be found in chapter 10

Order information

	Mushroom head, $L \leq 51 \text{ mm } \varnothing 11,0 \text{ mm}$ $L \geq 64 \text{ mm } \varnothing 9,7 \text{ mm}$ 
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm	

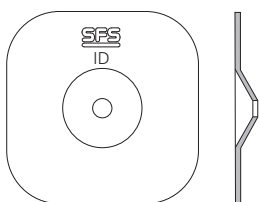
Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
■ Carbon steel 		DT- 4,8x 32	7	32	7	4,8x160	 Sd (Setting depth): min. 25 mm Thickness concrete deck t min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm ² . Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.
DT- 4,8x 51		26	51	26	160		
DT- 4,8x 64		39	64	39	160		
DT- 4,8x 76		51	76	51	160		
DT- 4,8x 89		64	89	64	210		
DT- 4,8x 102		77	102	77	210		
DT- 4,8x 115		90	115	90	210		
DT- 4,8x 127		102	127	102	210		
DT- 4,8x 140		115	140	115	260		
DT- 4,8x 152		127	152	127	260		

All *isofast*® SPIKE® twister can be combined with washers in different diameters. For further information, availability and delivery time please consult your SFS representative. Example for the order code with washer: DT-S16-4,8x38.

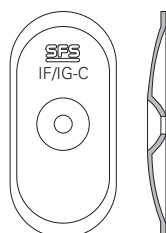
Note: When used in combination with washers the maximum clamping length (KL) of the fastener will be reduced by 3 mm.

Stress plates

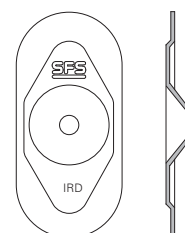
ID-70X70



IF/IG-C-82X40

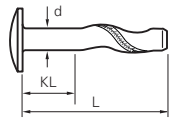



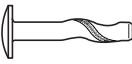
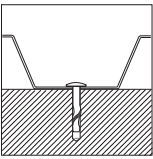
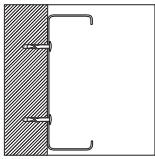
IRD-82X40



isofast® SPIKE twister DT

Order information

	Mushroom head Ø 14 mm 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application		Approval	Order code DT-14- 4,8x 38			KL	Drill bits	Application range
■ Carbon steel			DT-14-	4,8x	38	13	4,8x160	Profile sheets and liner tray direct to concrete. Thickness concrete deck t min. 60 mm. Concrete quality minimum C12/15. Sd (Setting depth): min. 25 mm. Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.
								

isofast® SPIKE® twister DT-S**Technical information****Application**

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum grade C12/15.

Where the internal relative humidity is in excess of 65%. In chemically aggressive atmospheres or conditions. For refurbishment applications where the detailed condition of the existing build up is not known or when the build up contains abrasive layers that may damage the corrosion protection and make it ineffective. Where an extended design life / warranty is required by the client. For locations with aggressive local conditions (e.g. coastal environments).

Material**Fastener**

- DT-S
Austenitic stainless steel, grade
AISI 316, European Standard
1.4401, grade A4

Stress plates

- ID-70x70 / IF/IG-C-82x40 /
IRD-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the
Kesternich test in accordance
with ETAG 006 - D3.1 and
FM requirements

Tools and accessories**DB 620**

- Electro-pneumatic hammer drill for
drilling into concrete and masonry.

DF 21

- Allows the DB 620 to be used from
a standing position, ensuring
optimum performance from tool and
operator.

ZD 15

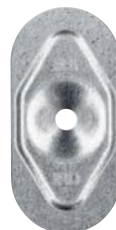
- Setting tool for the installation of
SPIKE® twister fasteners.

Stress plates**ID-70x70**

- Stress plate for insulation

IF/IG-C-82x40

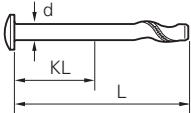

- Stress plate for membrane
on hard substrates


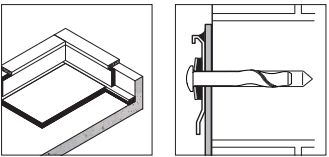
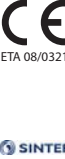
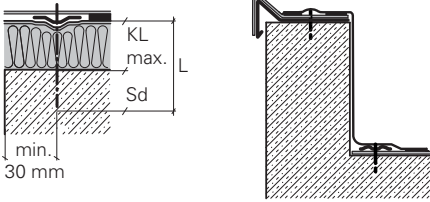
IRD-82x40

- Stress plate for membrane

isofast® SPIKE® twister DT-S

Order information

	Mushroom head, $L \leq 51 \text{ mm } \varnothing 11,0 \text{ mm}$ $L \geq 64 \text{ mm } \varnothing 9,7 \text{ mm}$	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

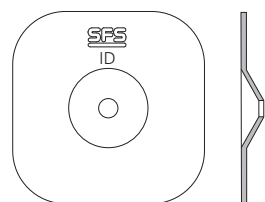
Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
● Stainless steel  		DT-S-	4,8x	28	3	4,8x160	 Sd (Setting depth): min. 25 mm Thickness concrete deck t min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm ² . Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the SPIKE® twister, depending on site conditions.
DT-S-		4,8x	32	7	160		
DT-S-		4,8x	38	13	160		
DT-S-		4,8x	51	26	160		
DT-S-		4,8x	64	39	160		
DT-S-		4,8x	89	64	210		
DT-S-		4,8x	115	90	210		
DT-S-		4,8x	140	115	260		

All isofast® SPIKE® twister can be combined with washers in different diameters. For further information, availability and delivery time please consult your SFS representative. Example for the order code with washer: DT-S16-4,8x38.

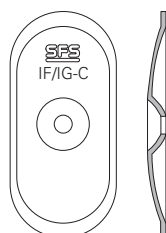
Note: When used in combination with washers the maximum clamping length (KL) of the fastener will be reduced by 3mm.

Stress plates

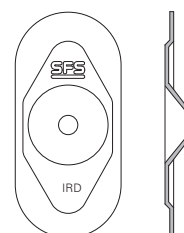
ID-70X70



IF/IG-C-82X40



IRD-82X40



isofast® TI



Technical information

Application

For the fastening of waterproof membrane and insulation to solid, dense concrete of minimum C12/15.

Material

Fastener

■ TI

Case hardened carbon steel

Durocoat® corrosion protection:
Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Environment friendly, free of chromium VI

Stress plates

- ID-70x70 / IF/IG-C-82x40 / IRD-82x40
- Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the Kesternich test in accordance with ETAG 006 - D3.1 and FM requirements

Tools and accessories

DB 620



- Electro-pneumatic hammer drill for drilling into concrete and masonry.

DI 650



- Power screwdriver for manual installation of fasteners.

Stress plates

ID-70x70



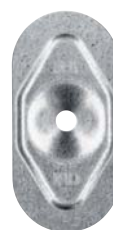
- Stress plate for insulation

IF/IG-C-82x40



- Stress plate for membrane on hard substrates

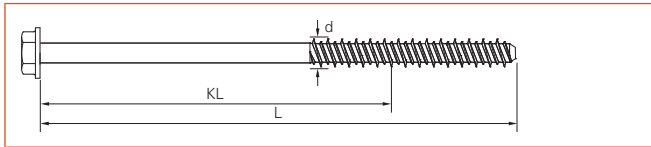
IRD-82x40



- Stress plate for membrane

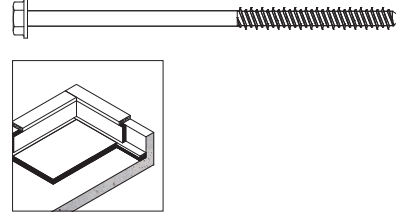

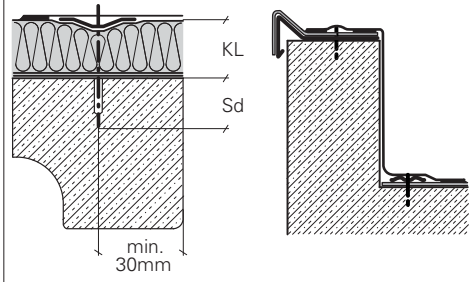
isofast® TI

Order information



Hexagon 8 mm A/F

KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
<p>■ Carbon steel</p> 		TI-	6,3x	25	5	5,0x110	 <p>Sd (Setting depth): min. 20 mm</p> <p>Thickness concrete deck t min. 60 mm. Concrete quality minimum C12/15. Insulation compressive strength min. 0,07 N/mm².</p> <p>Depth of pilot hole to be 10 - 20 mm deeper than the setting depth, depending on site conditions.</p>
		TI-	6,3x	32	12	160	
		TI-	6,3x	45	25	160	
		TI-	6,3x	55	35	160	
		TI-	6,3x	65	45	160	
		TI-	6,3x	75	55	160	
		TI-	6,3x	85	65	210	
		TI-	6,3x	95	75	210	
		TI-	6,3x	105	85	210	
		TI-	6,3x	115	95	210	
		TI-	6,3x	125	105	210	
		TI-	6,3x	135	115	210	
		TI-	6,3x	145	125	260	
		TI-	6,3x	155	135	260	

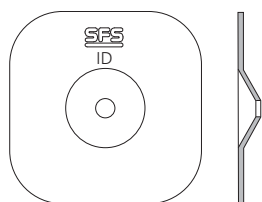
All isofast® TI fasteners can be combined with washers in different diameters. For further information, availability and delivery time please consult your SFS representative. Example for the order code with washer: TI-S19-6,3x38.

Note: When used in combination with washers the maximum clamping length (KL) of the fastener will be reduced by 3mm.

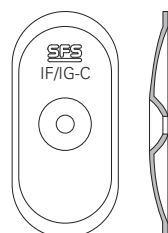
8

Stress plates

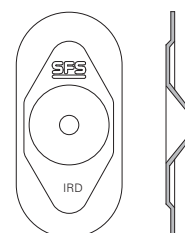
ID-70X70

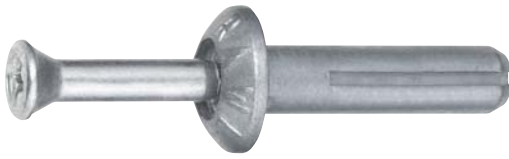


IF/IG-C-82X40



IRD-82X40



isofast® RNR**Technical information****Application**

For the fastening of profiled metal and termination bars directly to concrete and masonry.

The RNR hammer-screw fastener is simple to install, has high pull-out values and is removable.

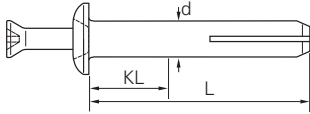

Material**Fastener**

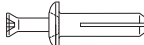
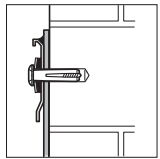
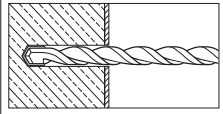
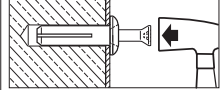
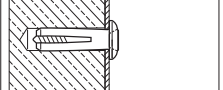
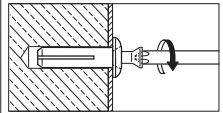
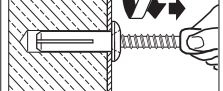
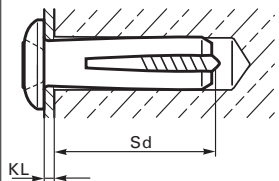
- RNR

Body: Zinc diecasting

Screw: Zinc coated carbon steel

Order information

	Mushroom head Ø 13,8 mm 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application	Approval	Order code			KL	Drill bits	Application range
		Type	d	L			
■ Carbon steel  		RNR10-	6,3x	32	10	6,3x160	Insertion:    Removal:    Sd (Setting depth): min. 22 mm Depth of pilot hole to be 10 - 20 mm deeper than the setting depth of the RNR fastener, depending on site conditions.
		RNR16-	6,3x	38	16	160	
		RNR28-	6,3x	50	28	160	

All isofast® RNR fasteners can be combined with washers in different diameters. For further information, availability and delivery time please consult your SFS representative. Example for the order code with washer: RNR-S19-6,3x38.

Note: When used in combination with washers the maximum clamping length (KL) of the fastener will be reduced by 3mm.

MNA



Technical information

Application

For the fastening of metal and termination bars directly to concrete, solid brick and masonry.

Material**Fastener**

- MNA

Anchor sleeve:

High value polyamide

Screw:

Steel 5.8, electro-galvanized

Drive:

PZ3

Tools and accessories

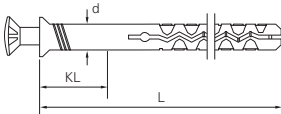

DB 620


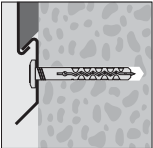


- Electro-pneumatic hammer drill for drilling into concrete and masonry.

MNA

Order information

	Countersunk PZ3 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application	Approval	Order code			KL	Drill bits	Application range
		MNA	8,0x	60			
■ Carbon steel  		MNA	8,0x	60	20	8,0x160	Depth of pilot hole to be 5-10 mm deeper than the setting depth of the MNA, depending on site conditions. Setting depth: min. 40 mm Area of application - Vertically perforated brick - Chalky perforated sandstone - Hollow concrete - Lightweight concrete blocks
		MNA-	8,0x	80	40	160	
		MNA-	8,0x	100	60	210	
		MNA-	8,0x	120	80	210	

isofast® IGR-S-T25**Technical information****Application**

For the fastening of waterproof membrane and insulation to aerated concrete with min. quality class P 3.3 (DIN 4223-1).

For aerated concrete substrate applications we recommend the use of fasteners manufactured from austenitic stainless steel, grade AISI 304, European Standard 1.4301 due to the high moisture absorption capability of this material.

Material**Fastener**

- IGR-S-T25
Austenitic stainless steel, grade
AISI 304, European Standard
1.4301, grade A2

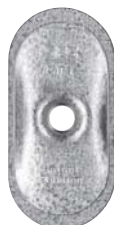
Stress plates

- IG8-C-70x70 / IG8-C-82x40
Steel 1,0 mm, zinc plated

Resistant to 15 cycles of the
Kesternich test in accordance
with ETAG 006 - D3.1 and
FM requirements

Stress plates**IG8-C-70x70**

- Stress plate for insulation

IG8-C-82x40

- Stress plate for membrane
on hard substrates

isofast® IGR-S-T25

Order information

T25 Ø 11,2 mm

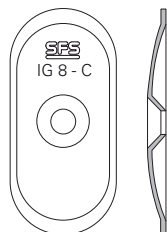
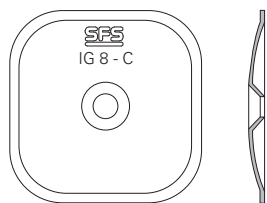
KL clamping length | M magazine loaded | d thread diameter | L Length | t thickness of structure | All measures in mm

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<p>● Stainless steel</p>		IGR-S-T25-	8,0x	65	5	<p>Sd (Setting depth): min. 60 mm Insulation compressive strength min. 0,07 N/mm².</p>
		IGR-S-T25-	8,0x	90	30	
		IGR-S-T25-	8,0x	110	50	
		IGR-S-T25-	8,0x	130	70	
		IGR-S-T25-	8,0x	150	90	
		IGR-S-T25-	8,0x	170	110	
		IGR-S-T25-	8,0x	190	130	
		IGR-S-T25-	8,0x	210	150	
		IGR-S-T25-	8,0x	230	170	
		IGR-S-T25-	8,0x	260	200	
		IGR-S-T25-	8,0x	290	230	

Stress plates

IG8-C-70X70

IG8-C-82X40



Tools and accessories can be found in chapter 10

isofast® IGF-S-T25**Technical information****Application**

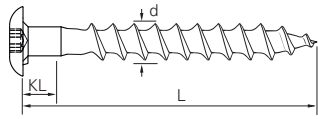

For the fastening of metal and termination bars directly to aerated concrete.


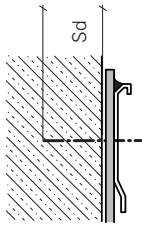
Material**Fastener**

- IGF-S-T25
Austenitic stainless steel, grade
AISI 304, European Standard
1.4301, grade A2

isofast® IGF-S-T25

Order information

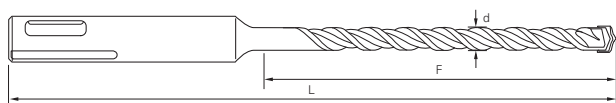
	T25 recess Ø 13,8 mm 	
KL clamping length M magazine loaded d thread diameter L Length t thickness of structure All measures in mm		

Product / Application	Approval	Order code			KL	Application range
		Type	d	L		
<ul style="list-style-type: none"> Stainless steel 		IGF-S-T25-	8,0x	65	5	 Sd (Setting depth): min. 60 mm

The *isofast*® IGF-S-T25 fastener is specially designed for the combination with washers. For further information, availability and delivery time please consult your SFS representative. Example for the order code with washer: IGF-S-T25-S19-8,0x65.

Note: When used in combination with washers the maximum clamping length (KL) of the fastener will be reduced by 3mm.

Order information



SDS Carbide-geometry
Dynamic, chisel-shaped drill bit head
Multi-fluted, spacious KVS-spiral
Unique KVS-flute design

d diameter | **L** Length | **F** working length | **All measures in mm**

Order code					Application range
Type	d	L	F	Code	
SDS- 4,8x 110/ 50- 4PLUS					
SDS-	4,8x	110/	50-	4PLUS	SPIKE® twister DT-4,8xL
SDS-	4,8x	160/	100-	4PLUS	SPIKE® twister DT-S-4,8xL
SDS-	4,8x	210/	150-	4PLUS	TI-6,3xL*
SDS-	4,8x	260/	200-	4PLUS	
SDS-	4,8x	310/	250-	4PLUS	
SDS-	4,8x	360/	300-	4PLUS	
SDS-	5,0x	110/	50-	4PLUS	TI-6,3xL
SDS-	5,0x	160/	100-	4PLUS	TIA-T25-6,3xL
SDS-	5,0x	210/	150-	4PLUS	
SDS-	5,0x	260/	200-	4PLUS	
SDS-	5,0x	310/	250-	4PLUS	
SDS-	5,0x	360/	300-	4PLUS	
SDS-	5,0x	400/	340-	4PLUS	
SDS-	5,0x	450/	390-	4PLUS	
SDS-	5,0x	500/	440-	4PLUS	
SDS-	5,2x	160/	100-	4PLUS	TI-6,3xL*
SDS-	5,2x	210/	150-	4PLUS	TIA-T25-6,3xL*
SDS-	5,2x	260/	200-	4PLUS	
SDS-	5,2x	310/	310-	4PLUS	
SDS-	5,2x	360/	300-	4PLUS	
SDS-	6,3x	110/	50-	4PLUS	RNR-6,3xL
SDS-	6,3x	160/	100-	4PLUS	
SDS-	8,0x	160/	100-	4PLUS	MNA-8,0xL
SDS-	8,0x	210/	150-	4PLUS	

All approvals and recommended design loads are based upon close tolerance pilot holes that are drilled using SFS intec 4PLUS carbide drill bits.

* Technical performance values of the TI fasteners may differ due to variation in the hardness of locally sourced concrete aggregates. Optimum performance can be determined by site testing using different drill diameters, for example between SDS-4,8 and SDS-5,2. Consult your SFS representative for further information.

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Application	Product code	Page
Steel substructure stainless steel	SX	▶ 9.2
Steel substructure carbon steel	SD-H15 / SD	▶ 9.4
Timber substructure	SXW / SW3-T SW3-T-H15	▶ 9.6
Side lap stitching	SL2-S / SL2 SL2-H15 SL3-H15	▶ 9.9



SX

SX



Technical information

Application

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

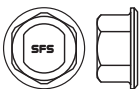
- S = Stainless steel, grade AISI 304 (European Standard 1.4301)

Drill point and lead thread section

- Case hardened, special carbon steel

HD headform / drive

- Hexagon 8 mm A/F



- *irius*® Ø 12 mm



Washer recommendation



Ø 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Tools and accessories

CF 400



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

DI 650



- Lightweight power screwgun to install self drilling and self tapping fasteners.

E420 / E480



- E420 setting tool to install self drilling fasteners with the *irius*® system.
- E480 setting tool is recommended for the installation of self drilling fasteners with hexagon head.

Tools and accessories can be found in chapter 10

Order information

	Hexagon 8 mm A/F 	W: Washer material	* Select washer
		S Stainless Steel A Aluminium	Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. penetration KL clamping length HD headform / drive W washer material and diameter d thread diameter L Length t thickness of structure All measures in mm			

Application	Product	Approval	Order code							KL	Application range	
			SX	3/	9-	L12-	S16-	6,0x	29			
	● Stainless steel 		SX	3/	9-	L12-	S16-	6,0x	29	9		VD max. steel: _____ 3,0 mm
	● Stainless steel 		SX	3/	9-		S16-	6,0x	29			t min. steel: _____ 2 x 0,63 - 0,9 mm t max. steel: _____ 2,5 mm t min. alu: _____ 1,0 mm
	● Stainless steel 		SX	5/	8-		S16-	5,5x	31*	8 12		VD max. steel: _____ 5,0 mm
	● Stainless steel 		SX	5/	12-		S16-	5,5x	35*			t min. steel: _____ 1,5 mm t max. steel: _____ 4,0 mm t min. alu: _____ 2,0 mm t max. alu: _____ 4,0 mm
	● Stainless steel 		SX	14/	12-		S16-	5,5x	40*	12 20		VD max. steel: _____ 14,0 mm
		SX	14/	20-		S16-	5,5x	48	t min. steel: _____ 4,0 mm t min. alu: _____ 5,0 mm			

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

SD-H15 / SD

SD-H15 / SD



Technical information

Application

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 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Tools and accessories

CF 400



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

DI 650



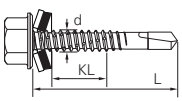

- Lightweight power screwgun to install self drilling and self tapping fasteners.

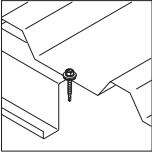
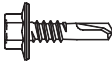

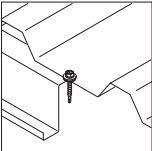
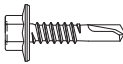

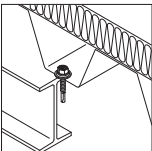
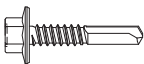
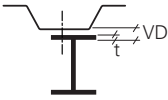
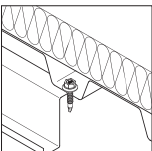
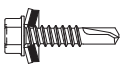
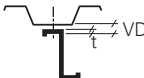
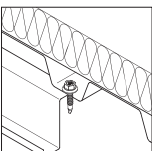


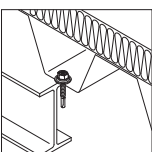
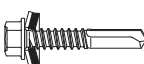
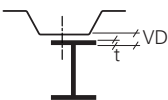
E480



- E480 setting tool is recommended for the installation of self drilling fasteners with hexagon head.

Order information

	Hexagon 8 mm A/F 	W: Washer material T Carbon Steel	* Select washer Ø 15-16 mm for cladding Ø 19 mm for roofing Ø 32 mm for rooflights
VD max. penetration KL clamping length HD headform / drive W washer material and diameter d thread diameter L Length t thickness of structure All measures in mm			

Application	Product	Approval	Order code						KL	Application range
			Type	VD	HD	W*	d	L		
	■ Carbon steel 	CE	SD 5- H15-	5,5x	22				10	 VD max. steel: 5,0 mm t min. steel: 1,5 mm
	■ Carbon steel 	CE	SD 8- H15-	5,5x	25				10	 VD max. steel: 8,0 mm t min. steel: 2,0 mm
	■ Carbon steel 	CE	SD 14- H15-	5,5x	32				13	 VD max. steel: 14,0 mm t min. steel: 4,0 mm
	■ Carbon steel 		SD 5-	T15-	5,5x	25			12	 VD max. steel: 5,0 mm t min. steel: 1,5 mm
	■ Carbon steel 		SD 8-	T15-	5,5x	25			8	 VD max. steel: 8,0 mm t min. steel: 2,0 mm
	■ Carbon steel 		SD 14-	T15-	5,5x	32			11	 VD max. steel: 14,0 mm t min. steel: 4,0 mm

SXW / SW3-T / SW3-T-H15

SXW / SW3-T / SW3-T-H15



Technical information

Application

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

Material

Fastener

- SXW
Austenitic stainless steel, grade
AISI 304 (European Standard
1.4301)
 - SW3-T
Plated carbon steel, case hardened
 - SW3-T-H15
Plated carbon steel, case hardened
- 15 mm diameter flange head**

Washer

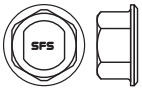
- **S** = Stainless steel, grade AISI 304
(European Standard 1.4301)
- **T** = Carbon steel

Drill point and lead thread section

- Case hardened, special carbon
steel

HD headform / drive

- Hexagon 8 mm A/F



Washer recommendation



Ø 15-16 mm for cladding



Ø 19 mm for roofing



Ø 32 mm for rooflights

Tools and accessories

CF 400



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

DI 650



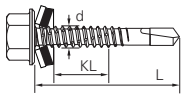

- Lightweight power screwgun to install self drilling and self tapping fasteners.

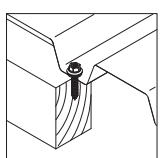
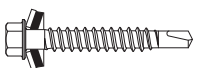

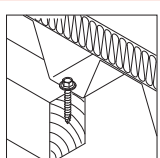
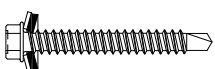

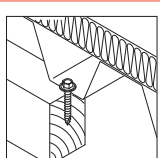
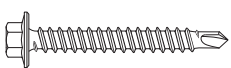

E480



- E480 setting tool is recommended for the installation of self drilling fasteners with hexagon head.

Order information

	<p>Hexagon 8 mm A/F</p> 		<p>W: Washer material * Select washer</p> <p>S Stainless Steel Ø 15-16 mm for cladding T Carbon Steel Ø 19 mm for roofing Ø 32 mm for rooflights</p>
<p>VD max. penetration KL clamping length HD headform / drive W washer material and diameter d thread diameter L Length t thickness of structure All measures in mm</p>			

Application	Product	Approval	Order code					KL	Application range
			SXW-	HD	W*	d	L		
	<p>● Stainless steel</p> 	<p>CE</p>	<p>SXW-</p>		<p>S16- 6,5x 54</p>	<p>54</p>	<p>4</p>	 <p>VD max. steel: 2 x 1,0 mm</p>	
	<p>■ Carbon steel</p> 		<p>SW3-T-</p>		<p>T16- 6,5x 50</p>	<p>50</p>		 <p>VD max. steel: 2 x 1,25 mm</p>	
	<p>■ Carbon steel</p> 		<p>SW3-T- H15-</p>	<p>H15-</p>	<p>6,5x 50</p>	<p>50</p>		 <p>VD max. steel: 2 x 1,25 mm</p>	

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 usage and 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 and 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 / SL2-H15 / SL3-H15



Technical information

Application

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 locator or torque control.

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
Plated carbon steel, case hardened
 - SL2-H15 / SL3-H15
Plated carbon steel, case hardened
- 15 mm diameter flange head**

Washer

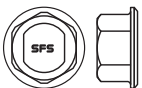
- **S** = Stainless steel, grade AISI 304 (European Standard 1.4301)
- **A** = Aluminium with vulcanised EPDM

Drill point and lead thread section

- Case hardened, special carbon steel

HD headform / drive

- Hexagon 8 mm A/F



Tools and accessories

CF 400



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

DI 650



- Lightweight power screwgun to install self drilling and self tapping fasteners.

E480



- E480 setting tool is recommended for the installation of self drilling fasteners with hexagon head.

SL2-S / SL2 / SL2-H15 / SL3-H15

Order information

	Hexagon 8 mm A/F 	W: Washer material S Stainless Steel A Aluminium
VD max. penetration KL clamping length HD headform / drive W washer material and diameter d thread diameter L Length t thickness of structure All measures in mm		

Application	Product	Approval	Order code						KL	Application range
			SL2-S-	HD	W*	d	L			
	● Stainless steel 	CE	SL2-S-		S14-	4,8x	22		 VD max. steel: <u> </u> 2 x 1,0 mm t min. steel: <u> </u> 2 x 0,4 mm Only for steel sheet and flashing	
			SL2-S-		S14-	5,5x	27*			
			SL2-S-		S16-	6,3x	28			
	■ Carbon steel 		SL2-		A14-	4,8x	20		 VD max. steel: <u> </u> 2,0 - 2 x 1,0 mm t min. steel: <u> </u> 2 x 0,4 mm	
	■ Carbon steel 	CE	SL2-			4,8x	20		 VD max. steel: <u> </u> 2,0 - 2 x 1,0 mm t min. steel: <u> </u> 2 x 0,6 mm Only for steel sheet and flashing	
	■ Carbon steel 	CE	SL2-	H15-		6,3x	20		 VD max. steel: <u> </u> 2,0 - 2 x 1,0 mm t min. steel: <u> </u> 2 x 0,6 mm For high shear load	
	■ Carbon steel 	CE	SL3-	H15-		6,3x	32		 VD max. steel: <u> </u> 3,0 - 2 x 1,5 mm t min. steel: <u> </u> 2 x 1,1 mm For high shear load	

* AISI 316, A4 European Standard 1.4401 products available ex stock. Other lengths on demand.

10

ISO-TAK®	Product code	Page
Steel deck	ISO-TAK® 260	▶ 10.2
	IT-19	▶ 10.3
Concrete deck	ZVK / ZAK	▶ 10.4
	DT-M-500 / DT-M-750 AJ60x130-TIA / AJ-M6	▶ 10.5
Accessories	ZA1/4"-M6-300 ZA1/4"-M6-670 / ZH-11-RING Various insert bits	▶ 10.5
	ZD-1000 / ZDM-1000	▶ 10.5
	DI 650	▶ 10.12

isofast®	Product code	Page
Steel deck	IF 240	▶ 10.6
	IF 80-L IF 80-S	▶ 10.7
	CF 400	▶ 10.8
Concrete deck	DB 620 / DF 21 DP 11 / ZD 15	▶ 10.9
	SDS	▶ 10.10
Critical decks	TPR 55 / RM-20	▶ 10.11
Accessories	DI 650	▶ 10.12
Drill bits	HSS / SDS	▶ 10.13



10

ISO-TAK® 260



Application

Automated setting tool for the fast, secure and economic installation of the ISO-TAK® fasteners.

Technical details

Power tool:	DI 650
Wattage:	650 W
Max. revs:	2000 rpm
Power supply:	110V / 230V
Height:	1100 mm (working length)
Width:	415 mm (across rollers)
Weight:	28 Kg

IT 19

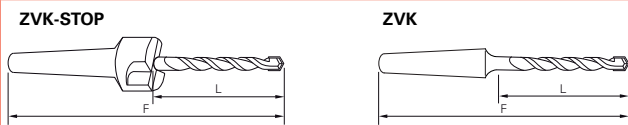
**Application**

Automated setting tool for the fast, secure and economic installation of the *ISO-TAK*® fasteners.

Technical details

Power tool:	DI 650
Wattage:	600 W / 650 W
Max. revs:	2000 rpm
Power supply:	110V / 230V
Height:	900 mm
Weight:	2,7 Kg

Order information



d diameter | L Length | F working length | All measures in mm

Order code					Application range
Type	d	L	F	Code	
ZVK- 4,8x 100x 165 STOP					
ZVK- 4,8x 100x 165 STOP					SPIKE® twister DT-4,8xL SPIKE® twister DT-S-4,8xL TIA-T25-6,3xL*
ZVK- 5,0x 55x 115					TIA-T25-6,3xL*
ZVK- 5,0x 100x 160					
ZVK- 5,0x 25x 90 STOP					
ZVK- 5,0x 35x 100 STOP					
ZVK- 5,0x 45x 110 STOP					
ZVK- 5,0x 55x 120 STOP					
ZVK- 5,2x 45x 110 STOP					TIA-T25-6,3xL*
ZVK- 5,2x 100x 165 STOP					

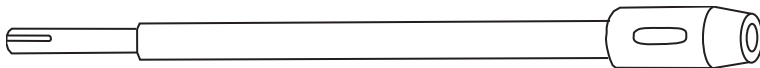
ZVK-STOP: The special STOP drills additionally core out the insulation providing for easy sleeve insertion and accurate fastener alignment with the pilot hole.

ZVK: Conical drills for different usage, specifically to replace very long SDS drills

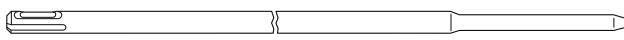
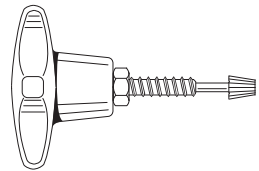
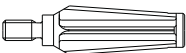
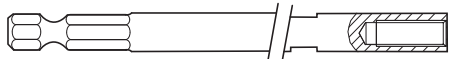

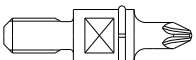
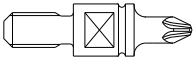

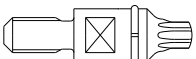
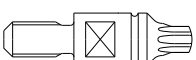


All approvals and recommended design loads are based on close tolerance holes drilled with SFS intec ZVK carbide drill bits.

* Technical performance values of the T1 fasteners may differ due to variation in the hardness of locally sourced concrete aggregates. Optimum performance can be determined by site testing using different drill diameters, for example between SDS-4,8 and SDS-5,2. Consult your SFS representative for further information.

ZAK-500 / ZAK-750 - Drill extension for the ZVK conical drills



Driving tools for telescope system

	DT-M-500 DT-M-750	Mechanical driving tool for use with the DB 620 when installing SPIKE twister within ISO-TAK sleeves.
	AJ60x130-TIA	Manual sleeve height adjustment tool for use with the TIA system.
	AJ-M6	Attachment bit for sleeve height adjustment with the TIA system. Use with the ZA1/4" bit extension and DI 650 screwdriver.
	ZA1/4" M6-300 ZA1/4" M6-670	Drive bar for ISO-TAK sleeve installation.
	ZH-11-RING	Adapter ring that combines with the ZA1/4-M6-300/670 drive bars and the T25-32-M6 bits to provide grip when installing ISO-TAK R45 & R75 sleeves.
	H2-32-M6-RING	Insert bit for H2 drive. Provides grip when used with RP45 and RP75.
	H2-32-M6	Insert bit for H2 drive.
	SQ3-40-M6	Insert bit for SQ3 drive.
	T25-32-M6-RING	Insert bit for T25 drive. Provides grip when used with RP45 and RP75.
	T25-32-M6	Insert bit for T25 drive.
	ZD-1000	Penetrating tool for punching hole in the waterproof membrane prior to the application of an ISO-TAK sleeve.
	ZDM-1000	Tool to fit onto the penetrating tool to provide two holes for accommodation of the ISO-TAK TPP/TPS sleeves.

IF 240



Application

Automated setting tool for the fast and economic installation of magazine loaded *isofast*[®] fasteners and stress plates.

Fasteners

Diameter: 4,8 mm and 6,0 mm
Length: 50 mm to 240 mm

Belt:

screws 50 - 160 mm: 75 pcs. per belt
screws 180 - 240 mm: 100 pcs. per belt

Technical details

Power tool: DI 600 / DI 650
Wattage: 600 W / 650 W
Max. revs: 2000 rpm
Power supply: 110V / 230V
Height: 1100 mm (working length)
Width: 415 mm (across rollers)
Weight: 28 Kg

Accessories

Standard

Transport case
Waterproof cover
Tool bag
Socket E320 (8 mm hex)
Spray lubricant

Special

Adjusting device for guide pin
Alignment bar for fastener spacing.

IF 80-L / IF 80-S

**Application**

Stand-up setting tool for the installation of *isofast*[®] fasteners and stress plates.

Fastener assembly may be undertaken on site if necessary.

Fasteners

Diameter: 4,8 mm
Length: 50 mm to 300 mm

Technical details

Power tool: DI 650
Wattage: 650 W
Max. revs: 2000 rpm
Power supply: 110V / 230V
Height: 750 mm / 470 mm
Weight: 2,5 Kg / 2,0 Kg

Accessories

Socket E320 (8 mm hex)

CF 400



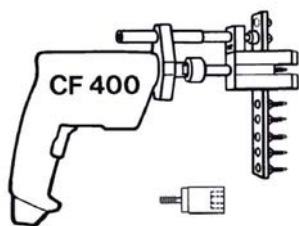
Application

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

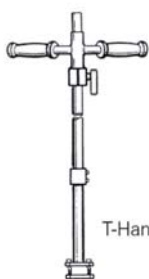
Technical details

Power tool:	CF 400
Wattage:	420 W
Max. revs:	1700 rpm
Power supply:	110V / 230V
Overall length:	370 mm
Weight:	2,1 Kg

Accessories



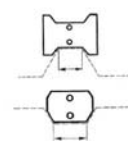
Socket
E 340 Hexagcn head



T-Handle



Extra large pouch
for belted CF 400
fasteners



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

DB 620

**Application**

Hammer drill for pre-drilling into concrete and masonry.

Technical details

Wattage:	620 W
Max. revs:	870 rpm
Power supply:	110V / 220V
Weight:	2,4 Kg
Drive connection:	SDS-Plus

Accessories

DF 21



- Allows the DB 620 to be used from a standing position, ensuring optimum performance from tool and operator.

DP 11



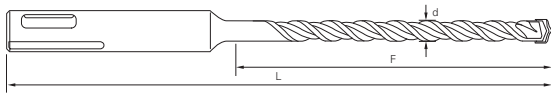
- Setting tool for the comfortable installation of SPIKE® twister fasteners with the DB 620.

ZD 15



- Setting tool for the installation of SPIKE® twister fasteners.

Order information



SDS Carbide-geometry
Dynamic, chisel-shaped drill bit head
Multi-fluted, spacious KVS-spiral
Unique KVS-flute design

d diameter | **L** Length | **F** working length | **All measures in mm**

Order code					Application range
Type	d	L	F	Code	
SDS- 4,8x 110/ 50- 4PLUS					
SDS-	4,8x	110/	50-	4PLUS	SPIKE® twister DT-4,8xL
SDS-	4,8x	160/	100-	4PLUS	SPIKE® twister DT-S-4,8xL
SDS-	4,8x	210/	150-	4PLUS	TI-6,3xL*
SDS-	4,8x	260/	200-	4PLUS	TIA-T25-6,3xL*
SDS-	4,8x	310/	250-	4PLUS	
SDS-	4,8x	360/	300-	4PLUS	
SDS- 5,0x 110/ 50- 4PLUS					TI-6,3xL*
SDS-	5,0x	160/	100-	4PLUS	TIA-T25-6,3xL*
SDS-	5,0x	210/	150-	4PLUS	
SDS-	5,0x	260/	200-	4PLUS	
SDS-	5,0x	310/	250-	4PLUS	
SDS-	5,0x	360/	300-	4PLUS	
SDS-	5,0x	400/	340-	4PLUS	
SDS-	5,0x	450/	390-	4PLUS	
SDS-	5,0x	500/	440-	4PLUS	
SDS- 5,2x 160/ 100- 4PLUS					TI-6,3xL*
SDS-	5,2x	210/	150-	4PLUS	TIA-T25-6,3xL*
SDS-	5,2x	260/	200-	4PLUS	
SDS-	5,2x	310/	250-	4PLUS	
SDS-	5,2x	360/	300-	4PLUS	
SDS- 6,3x 110/ 50- 4PLUS					RNR-6,3xL
SDS-	6,3x	160/	100-	4PLUS	SPIKE® twister DT-6,3xL
SDS-	6,3x	210/	150-	4PLUS	SPIKE® twister DT-S-6,3xL
SDS-	6,3x	260/	200-	4PLUS	
SDS-	6,3x	285/	225-	4PLUS	
SDS-	6,3x	360/	300-	4PLUS	
SDS-	6,3x	410/	350-	4PLUS	
SDS-	6,3x	510/	450-	4PLUS	
SDS- 8,0x 160/ 100- 4PLUS					MNA-8,0xL
SDS-	8,0x	210/	150-	4PLUS	

All approvals and recommended design loads are based upon close tolerance pilot holes that are drilled using SFS intec 4PLUS carbide drill bits.

* Technical performance values of the TI fasteners may differ due to variation in the hardness of locally sourced concrete aggregates. Optimum performance can be determined by site testing using different drill diameters, for example between SDS-4,8 and SDS-5,2. Consult your SFS representative for further information.

TPR 55

**Application**

Electric rivetting tool for the fast installation of TPR-L Peel Rivet fasteners.

Technical details

Wattage:	600 W
Max. revs:	600 rpm
Power supply:	110V / 230V
Overall length:	480 mm
Weight:	3 Kg

Lever tool RM-20

**Application**

Including 4 nozzles.

DI 650

DI 650



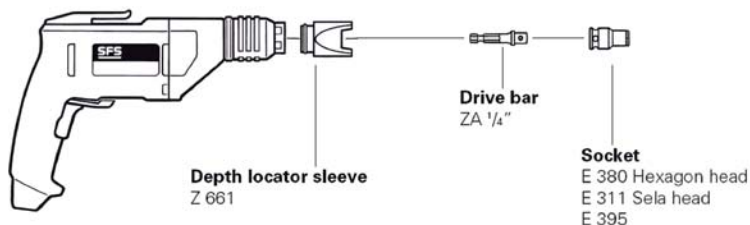
Application

Power screwdriver for manual installation of fasteners.

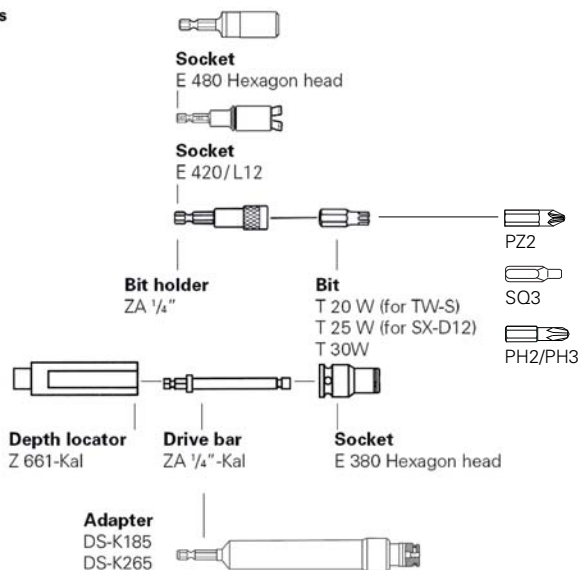
Technical details

Power tool:	DI 650
Wattage:	650 W
Max. revs:	2000 rpm
Power supply:	110V / 230V
Max. torque:	20 Nm
Overall length:	290 mm
Weight:	1,6 Kilogram

Accessories

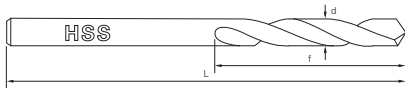


Optional accessories



10

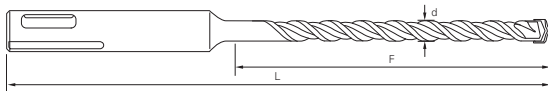
Order information



d diameter | **L** Length | **f** flute length | **All measures in mm**

Order code				
HSS- 7,0x 109/ 69				
Type	d	L	f	Application range
HSS-	7,0x	109/	69	For steel or aluminium.
HSS-	7,0x	156/	102	
HSS-	7,0x	225/	155	
HSS-	7,0x	290/	200	
HSS-	7,0x	370/	250	

Order information



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

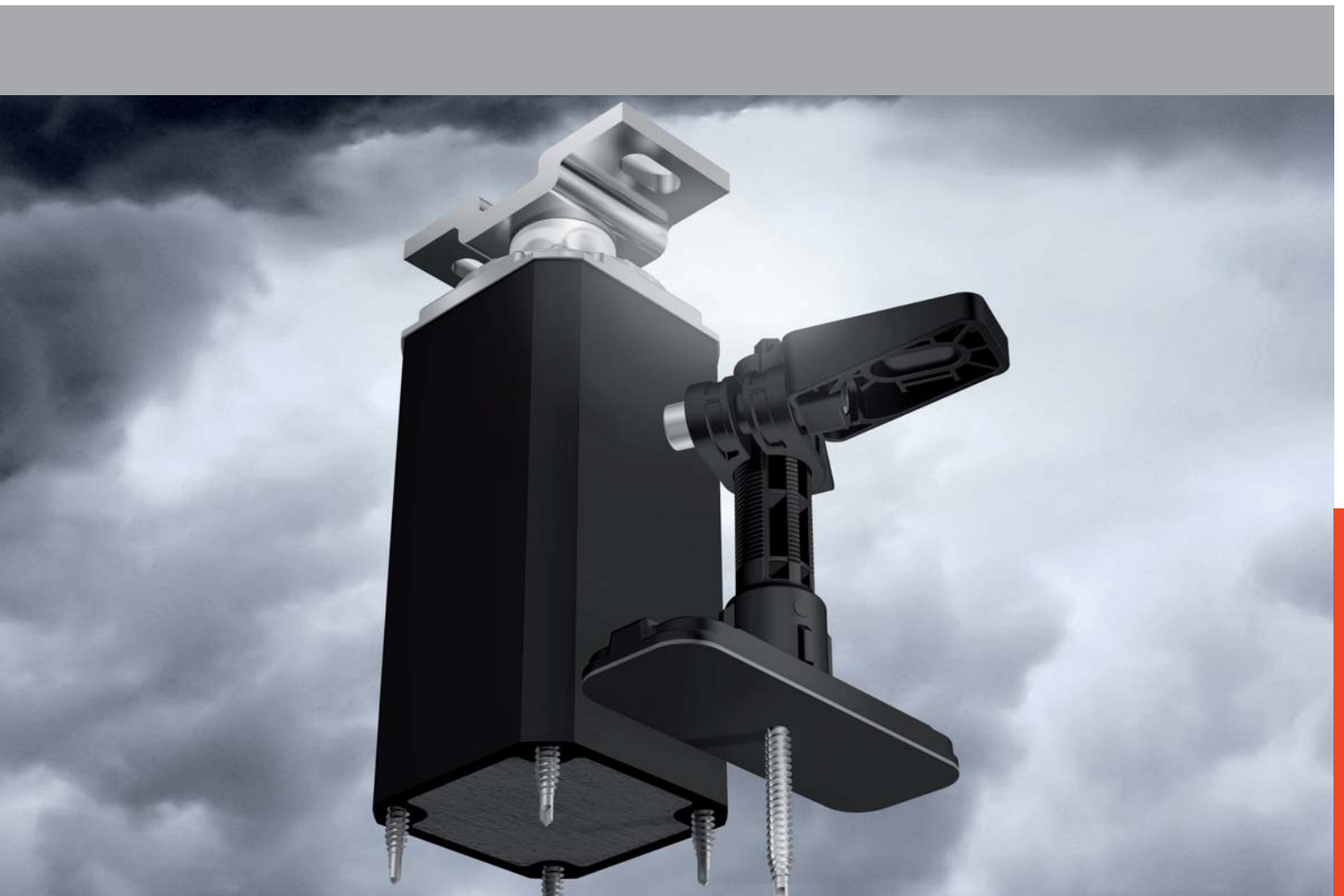
d diameter | **L** Length | **F** working length | **All measures in mm**

Order code						
SDS- 7,0x 110/ 50- 4PLUS						
Type	d	L	F	Code	F	Application range
SDS-	7,0x	110/	50-	4PLUS	50	For woodwool, concrete or fibre cement (without hammer action).
SDS-	7,0x	160/	100-	4PLUS	100	
SDS-	7,0x	210/	150-	4PLUS	150	
SDS-	7,0x	250/	190-	4PLUS	190	
SDS-	7,0x	350/	290-	4PLUS	290	



11

Solar Fastening Systems





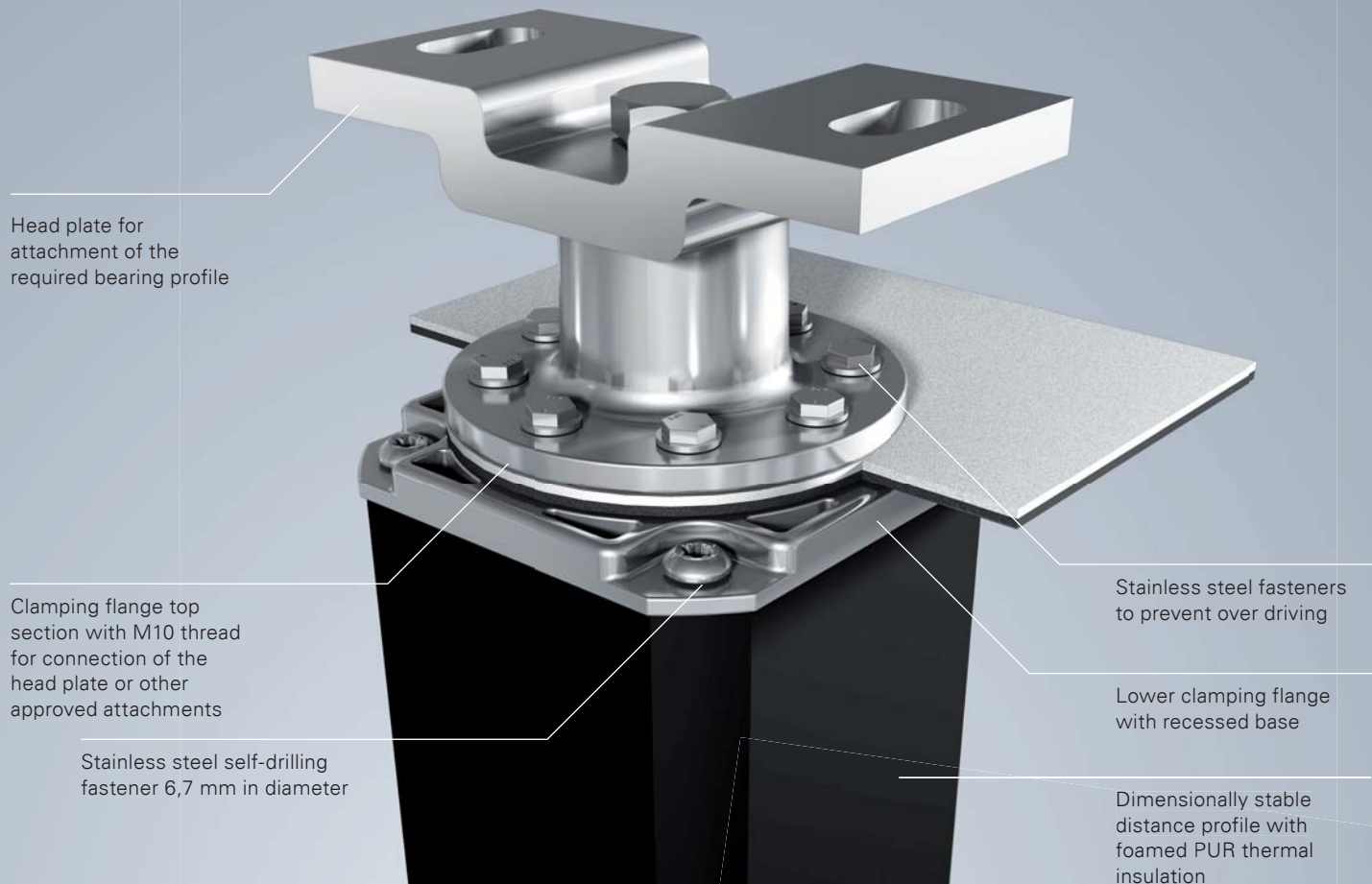
**World
Innovation
SOL-F**

SOL-F

SOL-F – the system featuring superior safety for the attachment of solar installations on flat roofs

Innovative all-inclusive system for flat roofs

The SFS intec SOL-F system is unique. It comprises of a fastening system, a dedicated coring tool and a calculation tool. This provides for secure, flexible and speedy installation of solar panels on flat roofs.



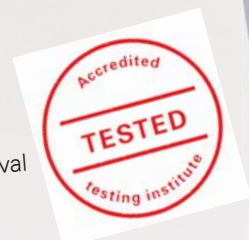
Areas of application

- for new flat roofs
- for renovation projects
- for retrofitting of solar panel installations onto existing flat roofs

For further application or system specific information please contact your SFS intec representative.

The SOL-F fastening system has been successfully tested:

- ✓ thermal bridging calculation
- ✓ impermeability tests after introduction of force based on ETAG 006
- ✓ development cooperation with consulting engineers / structural engineers
- ✓ static tests
- ✓ dynamic tests
- ✓ system test
- ✓ TÜV certification in preparation
- ✓ DIBt Z-14.4-617 approval applied for



SOL-F – the secure system

Your benefits at a glance

Secure

- ✓ Structural security without additional load
- ✓ 100% watertight system
- ✓ Easy and user friendly calculation software
- ✓ No thermal bridging

Flexible

- ✓ For various waterproof membranes
- ✓ For various insulation types and thicknesses
- ✓ For new flat roofs, including refurbishment and retrofitting projects

Rapide

- ✓ Easy to install - non complicated fixing system
- ✓ Powerful coring tool
- ✓ No additional welding requirement



Secure

SOL-F is a unique, all-inclusive system:

- Structural support and security without additional load; user friendly calculation software will determine the number of fastening points required.
- Fastener design by SFS intec prevents the possibility of over-driving during installation and thereby offers a high degree of installation security.
- Totally watertight due to the clamping flange design, even when subjected to dynamic high pressure testing.
- High durability due to the use of corrosion resistant, stainless steel materials.
- No thermal bridging due to the fact that the distance profile features foamed PUR insulation.

Flexible

The SOL-F system adapts to your needs:

- The distance profile can be used for a wide range of insulation material thicknesses and for tapered insulation; the distance profile can be cut to size on-site.
- Suitable for most waterproof membrane, insulation and profiled metal deck combinations.
- Wide range of applications: for use on new or refurbishment flat roof constructions and for retrofitting of solar panel installations onto existing flat roofs.

SOL-F: a solution that fits everywhere!

Speedy

Profit from rapid installation:

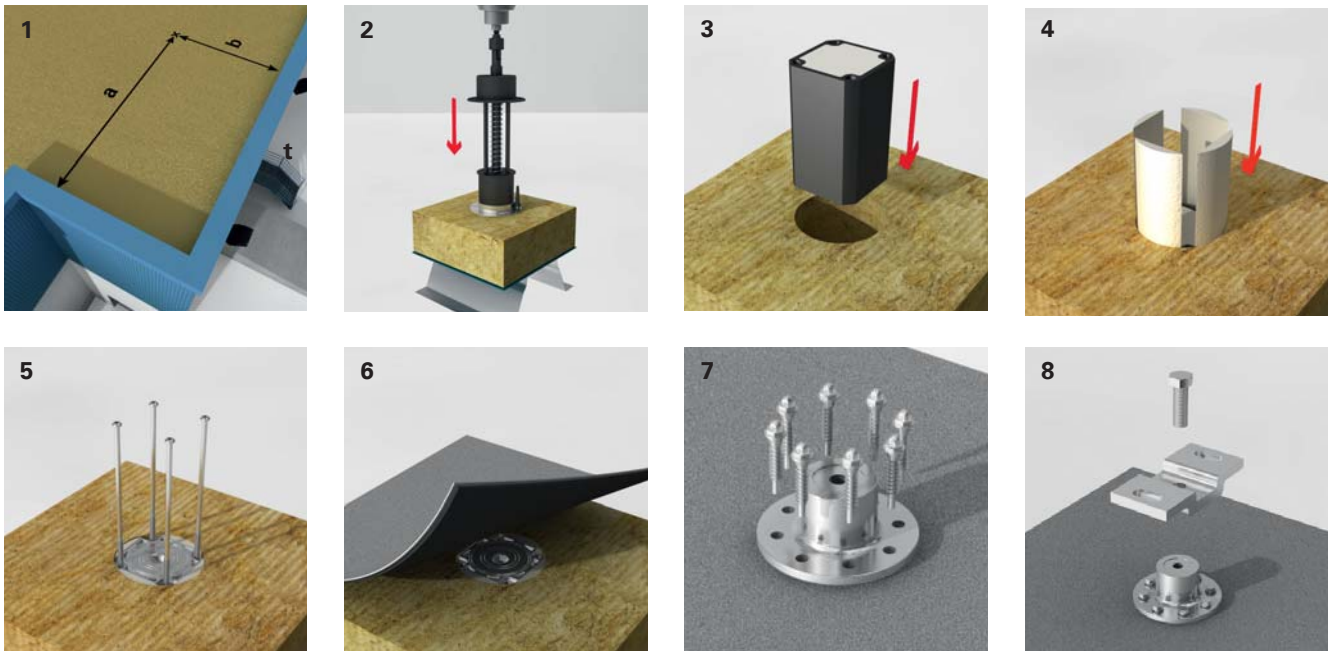
- Installation is performed without penetrating the profiled steel deck or the vapour control layer.
- Powerful coring tool ensures rapid cutting and removal of the insulation prior to installation.
- No additional welding of the waterproof membrane is necessary; installation time is reduced to a minimum.

SOL-F: easy and fast installation!

SOL-F: offers superior security!

SOL-F – Installation process and calculation

Installation process



For the detailed installation process please see installation instructions.



Calcul



SFS intec offers a static calculation service for individual project applications of SOL-F. The system specific software has been developed in conjunction with a structural engineering consultancy to determine the required spacing between the SOL-F fastening elements.

The calculations are based upon the information supplied to SFS intec including details of the PV frame system, location of the project, building data etc.

For a static calculation, simply request and complete a questionnaire detailing the appropriate data requirements and send it to SFS intec who will then undertake the calculation. This calculation will be provided to the customer on its completion.

SOL-F – Overview of the system components



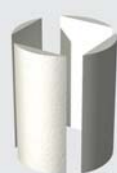
Distance profile SOL-F-PxL

- Dimensionally stable plastic profile with foamed thermal PUR insulation. (Lambda value $\lambda = 0,027 \text{ W/mK}$)
- Available pre-cut to specified lengths or in 1200 mm length to be cut on site with a circular saw (dry cut)



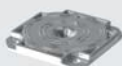
Fastener for distance profile SOL-F-S-6,7xL

- Self-drilling fastener with $\varnothing 6,7 \text{ mm}$ for the steel deck substrate
- Available in various lengths
- Manufactured from austenitic stainless steel grade A4, European Standard 1.4401
- Drill capacity: steel thickness 0,75 mm - 2 x 1,25 mm



PUR insulation segment SOL-F-PURx220

- Insulation segment manufactured from PUR insulation. (Lambda value $\lambda = 0,023 \text{ W/mK}$)
- To fill the space between the distance profile and insulation
- Length 220 mm, to be cut on site



Lower clamping flange SOL-F-CL

- Zinc coated die-casting element with recessed base and fins for watertightness
- Designed to provide for 100% water tightness
- Packaged as part of the clamping flange set*

Tools and accessories



Coring tool SOL-F-CT22-230V-COMPL.

- Powerful coring tool for coring out membrane and insulation layers prior to installation
- With depth stop, centering pin and core ejection mechanisms
- Variable setting of the coring speed

Cutting tool for membrane pad SOL-F-CM

- For pre-cutting of membrane pads with $\varnothing \text{ max. } 40 \text{ cm}$ (membrane pad necessary for the retrofitting of photovoltaic systems on to existing flat roofs).
- Including adjustable knife
- With scale of 0 - 20 cm



Upper clamping flange SOL-F-CU

- Zinc coated die-casting element with centering pin and fins for water tightness
- Designed to provide for 100% water tightness
- Packaged as part of the clamping flange set*



Fastener for clamping flange SOL-F-S-6,0x30

- Self-drilling fastener to prevent over driving.
- Manufactured from austenitic, stainless steel grade A2, European Standard 1.4301
- For 100% water tightness
- Packaged as part of the clamping flange set*



Set head plate with M10 screw SOL-F-HP-A/M10

- Zinc coated die-casting element for the connection of SOL-F with different bearing profiles
- Head plate with two long holes
- M10 screw for the connection of the head plate with the clamping flange top section, manufactured from austenitic, stainless steel grade A2, European Standard 1.4301



Membrane pad

- For the retrofitting of PV systems on to existing flat roofs
- Same manufacturer and type as installed in the main waterproofing layer
- Membrane pad of $\varnothing \text{ approx. } 22 \text{ cm}$
- Supplied by the installer (not included in the SFS intec product range)
- Same manufacturer and type as installed in the main waterproofing layer



Backup knife for cutting tool SOL-F-CM-K

- For the easy fitting
- Knife can be re-sharpened



Bit T25-25-HEX1/4''

- Bit for application of the SOL-F-S-6,7xL fasteners
- With hexagonal shaft, length 25 mm



Setting tool DS-K185

- Setting tool for the application of SOL-F-S-6,0x30 fasteners

* including lower clamping flange + upper clamping flange + fasteners for clamping flange

SOL-F - Ordering

There are two ordering options for the SOL-F fastening elements:

Option 1: Order by sets

You may order a set which contains all of the necessary components (head plate not included). Each set corresponds with a specific insulation thickness.

- ✓ Benefit: Each set contains all of the necessary components.

Set



Set contents

- Distance profile SOL-F-PxL
- Fasteners for distance profile SOL-F-S-6,7xL
- PUR insulation segments SOL-F-PURx220
- Clamping flange set SOL-F-CL/CU/6,0x30 (including lower clamping flange, upper clamping flange and fasteners for clamping flange)

Not included in the set:

(To be ordered separately)

- Set head plate with M10 screw SOL-F-HP-A /M10

Sets are available for various insulation thicknesses. Please see «Ordering information sets».

Option 2: Order by individual components

The distance profile is ordered in the length 1200 mm and is cut on site. All other elements are ordered separately.

- ✓ Benefit : Flexible adaptation to various insulation thicknesses (e.g. with tapered insulation)

Individual components



Separately order

- Distance profile SOL-F-Px1200
- Fasteners for the distance profile SOL-F-S-6,7xL*
- PUR insulation segments SOL-F-PURx220
- Clamping flange set SOL-F-CL/CU/6,0x30 (including lower clamping flange, upper clamping flange and fasteners for clamping flange)
- Set head plate with M10 screw SOL-F-HP-A /M10

For an overview of the available system components please see «Ordering information single components».

Ordering information - Sets



SFS code	Description	Substrate	Pieces / packaging	Packaging
SOL-F-80-SET-SD	Set for insulation thickness 80 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-100-SET-SD	Set for insulation thickness 100 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-120-SET-SD	Set for insulation thickness 120 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-140-SET-SD	Set for insulation thickness 140 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-160-SET-SD	Set for insulation thickness 160 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-180-SET-SD	Set for insulation thickness 180 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-200-SET-SD	Set for insulation thickness 200 mm	Steel deck	10 SOL-F fastening elements	Cardboard
SOL-F-220-SET-SD	Set for insulation thickness 220 mm	Steel deck	10 SOL-F fastening elements	Cardboard

Ordering information - Individual components



SFS code	Description	Substrate	Pieces / packaging	Packaging
SOL-F-Px1200	Distance profile	Length 1200mm, to be cut on site with a circular saw (dry cut)	1 pc.	-
SOL-F-S-6,7x115	Fasteners for distance profile	Length 115 mm *	40 pcs.	Cardboard
SOL-F-S-6,7x155	Fasteners for distance profile	Length 155 mm *	40 pcs.	Cardboard
SOL-F-S-6,7x195	Fasteners for distance profile	Length 195 mm *	40 pcs.	Cardboard
SOL-F-S-6,7x235	Fasteners for distance profile	Length 235 mm *	40 pcs.	Cardboard
SOL-F-PURx220	PUR insulation segment	Length 220 mm, to be cut on site with a knife	10 pcs.	Plastic bag
SOL-F-CL/CU/6,0x30	Clamping flange set	Lower clamping flange + upper clamping flange + fasteners for clamping flange	10 lower parts + 10 upper parts + 80 fasteners	Cardboard
SOL-F-HP-A/M10	Set head plate with M10 screw	Head plate + M10 screw	10 head plates + 10 M10 screws	Cardboard

* Selection of the correct fastener length of SOL-F-S-6,7xL

Thickness insulation	Fastener for distance profile
60 mm - 100 mm	SOL-F-S-6,7x115
100 mm - 140 mm	SOL-F-S-6,7x155
140 mm - 180 mm	SOL-F-S-6,7x195
180 mm - 220 mm	SOL-F-S-6,7x235

Ordering information - Tools and accessories



SFS code	Description	Details	Pieces / packaging	Packaging
SOL-F-CT22-230V-COMPL.	Coring tool complete	For insulation thicknesses 1 pc. of 60 - 220 mm		Wooden case
SOL-F-CT22-BASIC	Coring attachment for coring tool	For insulation thicknesses of 60 - 220 mm	1 pc.	-
SOL-F-RW-230V-LIB	Electrical engine for coring tool	230 V, 1350 W	1 pc.	Cardboard
SOL-F-CM	Cutting tool	For pre-cutting of membrane pad	1 pc. pads Ø max. 40 cm	Cardboard and plastic foil
SOL-F-CM-K	Backup knife for cutting tool	For the easy fitting into the cutting tool	1 pc.	Plastic box
T25-25-HEX1/4"	Bit for distance profile	T25 bit with hexagonal shaft fasteners	10 pcs.	Plastic bag
T25-25-HEX1/4"	Bit for distance profile fasteners	T25 bit with hexagonal shaft	100 pcs.	Cardboard
DS-K185	DS-K185 setting tool for clamping flange fasteners	Setting tool with hexagonal shaft	1 pc.	-





World-
innovation
SOL-R

SOL-R

SOL-R – the most flexible system for fastening solar arrays to industrial roofs

From professionals for professionals

The world first SOL-R was developed specifically for the installation of solar arrays on industrial roofs. Result: A safe, flexible and quick to use fastening system for professionals



Hex head grip: for a quick screw connection of the cap

Screw top: Quick height adjustment with standard tool

M8-M10 long hole

Swivelling docking device

Long cap for flexible height adjustment

Fastening option 1: central installation to purlin

Fastening option 2: corner installation with SDK's to outer sheet or purlin to prevent overdriving

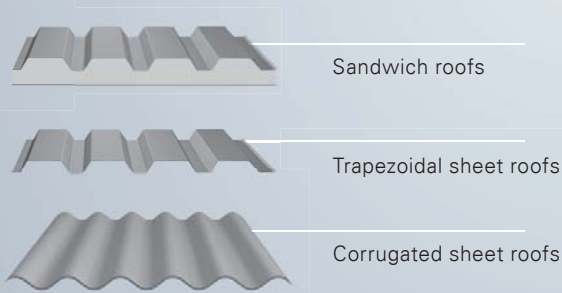
Fastening option 3: corner installation with rivets into outer sheet

Adapter for corrugated sheet metal (optional)

Spedcaps® technology: 2-component gluing for sealing and to prevent unwinding

Base plate: large contact surface for maximum stability and to prevent damage to the building envelope

Butyl base: self adhesive pad for quick stick and 100% watertight once installed



Sandwich roofs

Trapezoidal sheet roofs

Corrugated sheet roofs

The SOL-R fastening-system has been tested successfully:

- ✓ Tightness test
- ✓ Approval DIBt Z-14.4-616 has been applied for
- ✓ Assessment of the product design by structural engineers
- ✓ Static tests
- ✓ Dynamic tests
- ✓ Durability tests
- ✓ TÜV certification is under way



SOL-R – the most flexible system

Your benefits at a glance

Safe

- ✓ 100% impermeable
- ✓ statically certified
- ✓ simplest assembly

Flexible

- ✓ fits on virtually any roof
- ✓ much fixing variants
- ✓ flexible height adjustment

Speedy

- ✓ eliminate time-consuming pilot drilling
- ✓ standard tools
- ✓ light material



Safe

SOL-R is designed for maximum safety:

- 100% impermeable system – due to a wide butyl sealing strip and *spedcaps*® technology, which provides an additional seal and prevents unscrewing
- trouble-free in terms of structural engineering, featuring UV-resistant, corrosion-free, high-tech plastic with approved fasteners
- secure installation due to very simple attachment and overdriving-proof SDK fasteners, specially developed for applications with sheet metal exteriors

Optional and ingenious: SOL-R facilitates burglar-proofing of the solar power installation.

Flexible

One for all – this system is uniquely flexible by virtue of its geometrical design and numerous attachment versions:

- irrespective of exterior shell geometry and substrate, whether new structure or renovation: SOL-R fits!
- the system offers flexible height adjustment to compensate for uneven roof surfaces for perfectly flat attachment of the solar power installation
- the swivelling docking plate also permits lateral attachment of the aluminium sections and thus clearly visible access for installing connections

To sum up: SOL-R is the most flexible system on the market!

Speedy

Simplicity of installation means you save lots of time with SOL-R:

- self-drilling fasteners eliminate time-consuming pilot drilling
- fewer operations: only a few standard tools are required for attachment and rapid height adjustment
- the high-tech plastic is pleasant to handle and easy to transport; this speeds up working processes on the building site

Time is money: SOL-R reduces your installation costs per kWp!

SOL-R

SOL-R – the most flexible system



Installing procedere see www.youtube.com

Procédure de montage

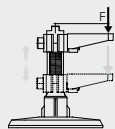


Technical values - Centrale fastening of solar plant on industrial roofs.

Compression strength Db (N)

Test results refer to the ultimate load required for the component to break when stressed in compression. The force F is applied on the contact surfaces of the component.

- test result is valid for the whole range of the setting position.



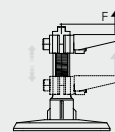
$$\bar{x} = 3765 \text{ N}$$

$$s = 327 \text{ N}$$

Tensile strength Zb (N)

Test results refer to the ultimate load required for the component to break when stressed in tension. The force F is applied on the contact surfaces of the component.

- test result is valid for the whole range of the setting position.



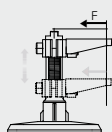
$$\bar{x} = 2248 \text{ N}$$

$$s = 68 \text{ N}$$

Shear strength Qb (N)

Test results refer to the ultimate load required for the component to break when stressed in shear. The force F is applied on the contact surfaces of the component.

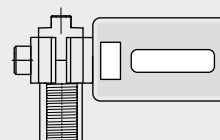
- test result is valid for the whole range of the setting position.



$$\bar{x} = 1724 \text{ N}$$

$$s = 104 \text{ N}$$

If you place the SOL-R Docking Device in a vertical position, please calculate with the following values:



Db (N)	$\bar{x} = 1621 \text{ N}$ $s = 130 \text{ N}$
Zb (N)	$\bar{x} = 1543 \text{ N}$ $s = 89 \text{ N}$
Qb (N)	$\bar{x} = 1724 \text{ N}$ $s = 104 \text{ N}$

\bar{x} = arithmetical mean value
 s = standard deviation
 x = confidence level **

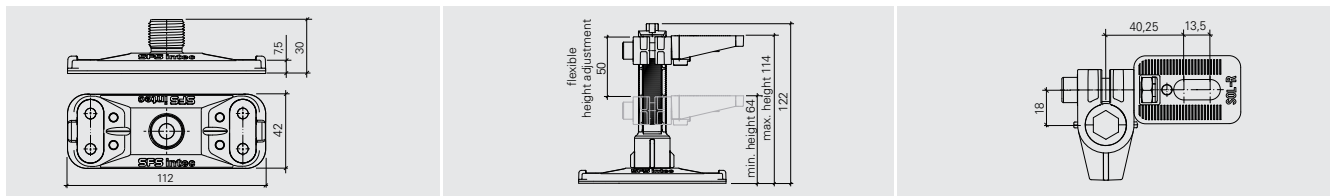
Note! All calculations, measurements, fasteners and design methods have to be verified by a responsible designer or an engineer, regarding the corresponding structure and loads. Please consult the national norms and approvals.

SOL-R – the most flexible system

Product Range

Base plate (SOL-R-B)	Cap (SOL-R-C)	Docking Device (SOL-R-D)	Fastener	Adapter (optional) (SOL-R-A)
SFS code	Description			Parts/Pack
SOL-R	Fastening system for solar arrays (consists of base plate, cap and docking plate)			50
SOL-R-A	Adapter			50
SOL-R-Z	Depth locator			1

Dimensions/Measurements in mm



Setting Tools and Accessories



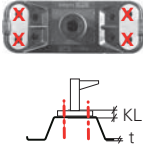
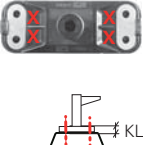
Summary of Fasteners

Fastening to exterior profile to substrate (central fixing)			... to substrate (central fixing)	
Metal profiles		Metal profiles			Sandwich elements	
SDK-2-S	SOL-R-ASO-D-64150	SX5 SX14	SXW	TI	SXC5/SXC14	SXCW
		Steel	Wood	concrete	Steel	Wood

X = Fixing point

SOL-R

Fastening to exterior profile – 4 fasteners per Base plate

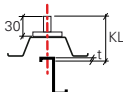
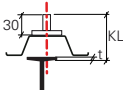
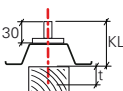
SFS Code	VD. max. mm Drilling capacity		KL mm Clamping length	t min. / max. Steel in mm	t min. / max. Aluminium mm	Pack/Parts
	Steel	Aluminium				
 SDK2-S-377-6,0x35 SDK2-S-377-6,0x45	● 1,25	2,5	6-18	0,63 / 1,25	0,9	250
	● 1,25	2,5	6-28	0,63 / 1,25	0,9	250
 SOL-R-ASO-D-64150** HSS-6,7xL	Pilot Hole diameter 6,7mm		8-9	0,5 / 1	0,63 / 1	250

● Stainless Steel A2/AISI 304 ** Alu-Steel A2/AISI 304/Delta Seal Surface (DS)

Fastening to Substrate – 1 fastener per Base plate

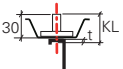
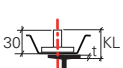

High corrugation profile



SFS Code	VD. max. mm Drilling capacity (Fastener)	KL mm Clamping length	t min./max. Steel mm t min. depth in timber (mm)	t min. Alu mm	Pack/Parts
 SX5/55-5,5x80 SX5/70-5,5x95 SX5/85-5,5x110	● 5	55	1,5 / 4	3	1000
	● 5	70	1,5 / 4	3	250
	● 5	85	1,5 / 4	3	250
 SX14/58-5,5x84 SX14/75-5,5x100	● 14*	58	4 / 12	5	500
	● 14*	75	4 / 12	5	250
 SXW-6,5x99	● 2 x 1	58	41 mm min. Setting depth		250

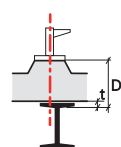
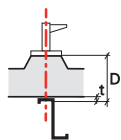
Low corrugation profile

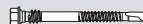



 SX5/38-5,5x63	● 5	38	1,5 / 4	3	250
 SX14/38-5,5x63	● 14*	38	4 / 12	5	250
 SXW-6,5x75	● 2 x 1	34	41 mm min. Setting depth		250

● Stainless Steel A2/AISI 304 * For substrates with a depth t > 13mm contact SFS technical advice.

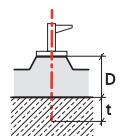
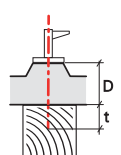
Fastening to Steel Substrate – 1 fastener per Base plate




Sandwich
Panels

SFS Code	VD. max. mm Drilling capacity (fastener)	D* mm Panel thickness * eff. sandwich thickness	t min. / max. Steel mm	Pack/Parts
				
SXC5-5,5x 82	● 5	12-24	1,5 / 4	1000
SXC5-5,5x 92	● 5	22-34	1,5 / 4	1000
SXC5-5,5x113	● 5	31-55	1,5 / 4	500
SXC5-5,5x133	● 5	51-75	1,5 / 4	500
SXC5-5,5x163	● 5	71-105	1,5 / 4	100
SXC5-5,5x193	● 5	101-135	1,5 / 4	100
SXC5-5,5x236	● 5	131-178	1,5 / 4	100
SXC5-5,5x261	● 5	156-203	1,5 / 4	100
SXC5-5,5x286	● 5	181-228	1,5 / 4	100
				
SXC14-5,5x 80	● 14*	10-16	4 / 13	500
SXC14-5,5x 99	● 14*	19-35	4 / 13	500
SXC14-5,5x118	● 14*	38-54	4 / 13	500
SXC14-5,5x138	● 14*	56-74	4 / 13	500
SXC14-5,5x147	● 14*	58-84	4 / 13	100
SXC14-5,5x168	● 14*	79-103	4 / 13	250
SXC14-5,5x193	● 14*	88-128	4 / 13	100
SXC14-5,5x218	● 14*	113-153	4 / 13	100
SXC14-5,5x243	● 14*	138-178	4 / 13	100
SXC14-5,5x268	● 14*	163-203	4 / 13	100
SXC14-5,5x293	● 14*	188-228	4 / 13	100

● Stainless Steel A2/AISI 304 *For substrates with a depth t > 13mm contact SFS technical advice

Fastening to Timber or Concrete Substrate – 1 fastener per Base plate

Sandwich
Panels

SFS Code	VD max. mm Drilling capacity (Fastener)	D* mm Panel thickness * eff. sandwich thickness	t min. depth in timber/concrete	Pack/Parts
				
SXCW-6,5x105	● 2	12-25	41 mm min. depth	500
SXCW-6,5x115	● 2	22-35	41 mm min. depth	500
SXCW-6,5x135	● 2	42-55	41 mm min. depth	500
SXCW-6,5x155	● 2	52-75	41 mm min. depth	500
SXCW-6,5x185	● 2	82-105	41 mm min. depth	250
SXCW-6,5x205	● 2	102-125	41 mm min. depth	100
SXCW-6,5x235	● 2	132-155	41 mm min. depth	100
SXCW-6,5x275	● 2	172-195	41 mm min. depth	100
SXCW-6,5x305	● 2	102-225	41 mm min. depth	100
				
TI-6,3x 85	■	35	20 mm min. depth	250
TI-6,3x105	■	55	20 mm min. depth	100
TI-6,3x125	■	75	20 mm min. depth	100
TI-6,3x145	■	95	20 mm min. depth	100
TI-6,3x165	■	115	20 mm min. depth	250
TI-6,3x185	■	135	20 mm min. depth	100
TI-6,3x205	■	155	20 mm min. depth	100
TI-6,3x235	■	185	20 mm min. depth	100
TI-6,3x255	■	205	20 mm min. depth	100
TI-6,3x275	■	225	20 mm min. depth	100
				
SDS-5xL-4PLUS				1

● Stainless Steel A2/AISI 304 ■ Carbon steel



AceClamp®
Attachment Solutions for
Standing Seam Metal Roofs



■ **Fast**
no assembly required

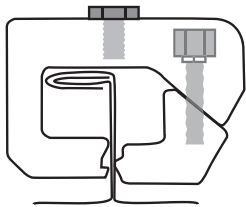
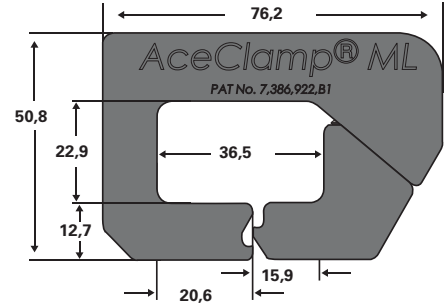
■ **Easy**
one top-mount fastener

■ **Secure**
locks in place

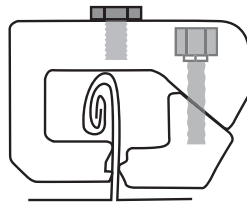
Two Models

AceClamp® ML

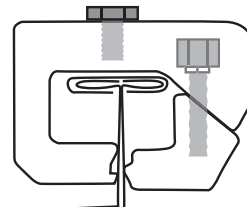
Fits Mechanical Lock panels



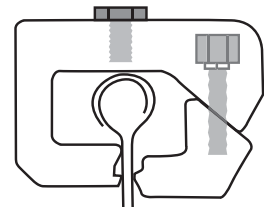
Single Lock



Double Lock



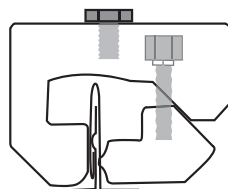
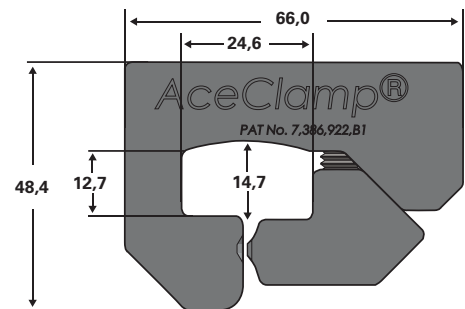
T-Seam



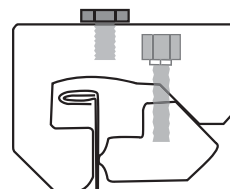
Z-Rib

AceClamp® SL

Fits - Snaplock panels
- Mechanical Lock panels with seam dimension of ≤ 12,7 mm



Snaplock



Mechanical Lock (small seam)

AceClamp® is not designed for use on batten seam panel systems and is not recommended for nail flange panel systems. AceClamp® is not to be used as any part of a fall protection system.

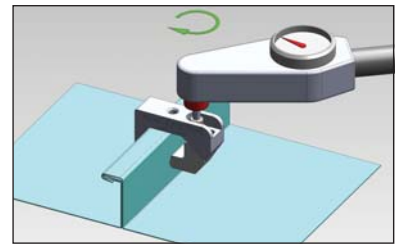
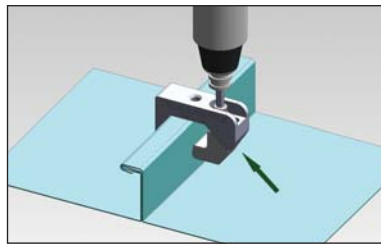
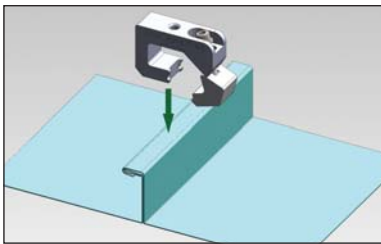
For all applications, determining the suitability of the product and the installation orientation relative to the seam are the responsibility of the professional design engineer.

- Aluminum 6061-T6
- Stainless hardware
- Does not pierce panel
- Will not loosen from vibration
- solar
- snowrails
- windclamps
- HVAC
- conduit
- signs



Fast, Simple Installation

- 1) Position AceClamp® on standing seam
- 2) Using a 1/4" hex driver, tighten AceClamp®
- 3) Finish tightening with calibrated torque wrench



20 Nm - steel
15 Nm - aluminum

Packaging

- Efficient
- Ready to install
- 20 per box; 5 boxes per case
- ML# 1287430 SL# 1287441
- Drive Bit # 1287429



20 piece box



100 piece case

Make Connections..... with AceClamp®



www.airtight-security.co.uk

SFS intec

Turn ideas into reality.