

6

<i>isofast</i> ®	Product code	Page
Carbon steel	IG	► 6.2
Austenitic stainless steel	IW-S	► 6.6
Carbon steel	IWF	► 6.8
Carbon steel	IWF-T-B40	► 6.11

<i>isotak</i> ®	Product code	Page
Carbon steel / Plastic sleeve	TS-T25 / R45	► 6.15

<i>isoweld</i> ™	Product code	Page
Carbon steel	IWF	► 6.19
Carbon steel	TS-T25	► 6.21
Carbon steel / Plastic sleeve	TS-T25 / FI-R	► 6.23

isofast® IG**Technical information****Application**

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

Material**Fastener**

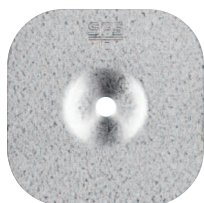
■ IG

Case hardened carbon steel
Durocoat® corrosion protection:
Resistance at 15 cycles Kesternich
test according to ETAG 006 - D.3.1.
and FM Approval Standard 4470
requirements
Environment-friendly, free of
chromium VI

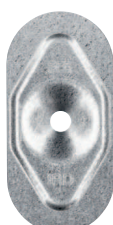
Stress plates

■ ID-70x70 / IRD-82x40

Steel 1,0 mm, zinc plated
Resistance at 15 cycles Kesternich
test according to ETAG 006 - D.3.1.
and FM Approval Standard 4470
requirements

Stress plates**ID-70x70**

- Stress plate for insulation,
hole diameter 7,5 mm

IRD-82x40

- Stress plate for membrane and
insulation, hole diameter 7,5 mm

Tools and accessories**DI650**

- Power screwdriver for manual
installation of fasteners and
stress plates

IF80

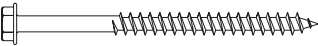
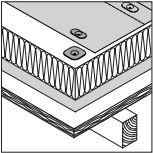


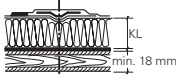
- Stand-up setting tool for the
installation of *isofast®* fasteners
and stress plates

IF240

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

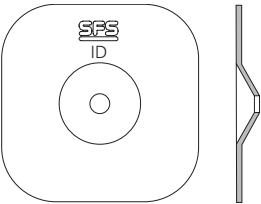
Order information

	Hexagon 8 mm 	
KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm		

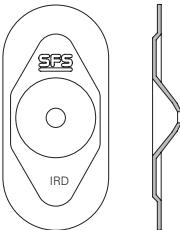
		Order code IG- 6,0x 80			KL	Application information
Product / Application	Approval	Type	d	L		
  ■ Carbon steel	 ETA-08/0262 	IG- 6,0x	80		50	 Screw length L: L = KL + 30 mm Thread length TL: TL = 55 mm Insulation compressive strength at 10% compression min. 0,07 N/mm².
		IG- 6,0x	90		60	
		IG- 6,0x	100		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

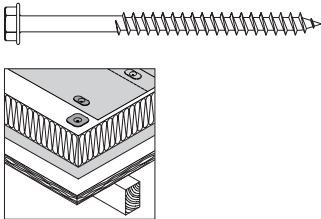

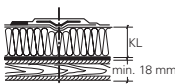


IRD-82X40



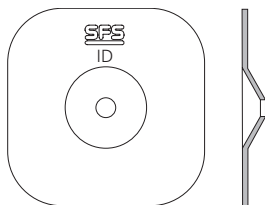
Order information

	Hexagon 8 mm 	Magazine loaded 
KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm		

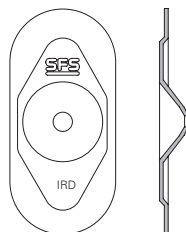
Product / Application	Approval	Order code				KL	Application information
		Type	M	d	L		
Carbon steel 		IG-	M-	6,0x	80	50	 Screw length L: $L = KL + 30 \text{ mm}$ Thread length TL: $TL = 55 \text{ mm}$ Availability of magazine loaded fasteners on request. Insulation compressive strength at 10% compression min. 0,07 N/mm ² .
		IG-	M-	6,0x	90	60	
		IG-	M-	6,0x	100	70	
		IG-	M-	6,0x	120	90	
		IG-	M-	6,0x	140	110	
		IG-	M-	6,0x	160	130	
		IG-	M-	6,0x	180	150	

Stress plates

ID-70X70



IRD-82X40



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.

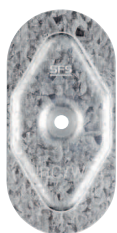
For applications with internal relative humidity higher than 70%, chemically aggressive atmospheres / conditions, locations with aggressive local conditions (e.g. coastal environments). For refurbishment applications with unknown condition of the existing build-up or build-up with abrasive layers that may damage the corrosion protection. If extended design life / warranty is required.

Material**Fastener**

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

Stress plates

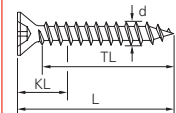

- IRC/W-82x40
Steel 1,0 mm, zinc plated
Resistance at 15 cycles Kesternich
test according to ETAG 006 - D.3.1.
and FM Approval Standard 4470
requirements

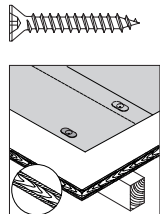


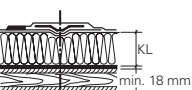
Stress plates**IRC/W-82x40**

- Stress plate for membrane and
insulation, hole diameter 4,8 mm

Tools and accessories**Recommendation for installation**

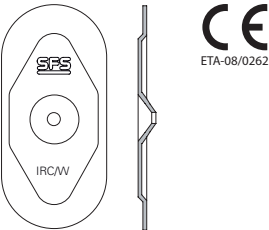
- Power screwdriver
- Min. 500 W
- Battery tool
- Approx. 18 V
- Battery with approx. 2,5 Ah

Order information		
	PZ2, Ø 10 mm 	
KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm		

		Order code			KL	Application information
Product / Application	Approval	Type	d	L		
<div> <div>Stainless steel</div>  </div>	<div>  ETA-08/0262 </div>	IW-S-	5,0x	45	15	<div>   Screw length L: L = KL + 30 mm Thread length TL: TL = 40 mm </div>

Stress plates

IRC/W-82X40



isofast® IWF**Technical information****Application**

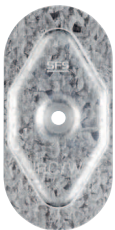
For the fastening of waterproof membrane to timber deck. The recommended minimum thickness of timber boarding, for example plywood or oriented strand board (OSB), is 18 mm.

Material**Fastener**

- IWF
 - Case hardened carbon steel
 - Durocoat® corrosion protection:
 - Resistance at 15 cycles Kesternich test according to ETAG 006 - D.3.1. and FM Approval Standard 4470 requirements
 - Environment-friendly, free of chromium VI

Stress plates

- IRC/W-82x40
 - Steel 1,0 mm, zinc plated
 - Resistance at 15 cycles Kesternich test according to ETAG 006 - D.3.1. and FM Approval Standard 4470 requirements

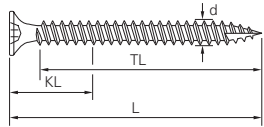

Stress plates**IRC/W-82x40**

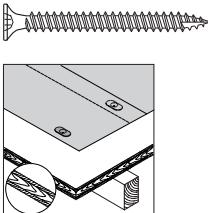


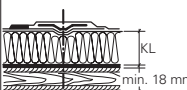
- Stress plate for membrane and insulation, hole diameter 4,8 mm

Tools and accessories**Recommendation for installation**

- Power screwdriver
 - Min. 500 W
- Battery tool
 - Approx. 18 V
 - Battery with approx. 2,5 Ah

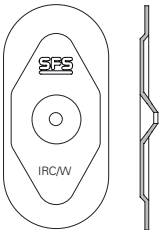
Order information

	PH2, Ø 9,4 mm 	
KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm		

		Order code			KL	Application information	
Product / Application	Approval	Type	d	L			
<div>■ Carbon steel</div> 		IWF-	5,2x	25	*		
		IWF-	5,2x	35	5		
		IWF-	5,2x	45	15		
		IWF-	5,2x	55	25		
						Screw length L: $L = KL + 30 \text{ mm}$	
						Thread length TL: $TL = L - 3 \text{ mm}$	
						* For special applications, please consult your SFS representative.	

Stress plates

IRC/W-82X40



Profit from a beneficial fastening system for timber decks

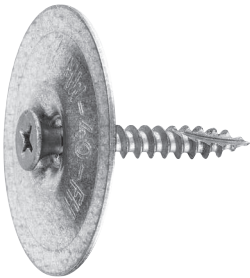
The *isofast*® IWF-T-B40 is an ideal fastening system for the direct fixing of membranes to timber sub-frames (wood and synthetics like triple-layer, ply, wooden frames, etc.).

The special design of the plate allows the pre-assembling with IWF fasteners. Furthermore, by using the setting tool MV28 a fast and secure setting is possible.

The convincing advantages of the *isofast*® IWF-T-B40 fastening systems



- Pre-assembled fastener and stress plate
- Optimum insertion due to the special fibercut thread form
- Ergonomic standing position when installing using the dedicated setting tool
- Meets extreme corrosion resistance criteria

isofast® IWF-T-B40**Technical information****Application**

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

Material**Fastener**

- IWF-T-B40
With pre-assembled stress plate,
case hardened carbon steel
Durocoat® corrosion protection:
Resistance at 15 cycles Kesternich
test according to ETAG 006 - D.3.1.
and FM Approval Standard 4470
requirements
Environment-friendly, free of
chromium VI

Stress plates

- MW-40-FH
Steel 1,0 mm, zinc plated
Resistance at 15 cycles Kesternich
test according to ETAG 006 - D.3.1.
and FM Approval Standard 4470
requirements

Stress plates**MW-40-FH**

- Stress plate for membrane

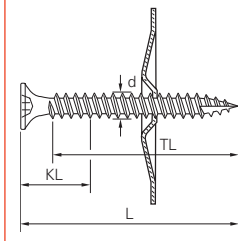

Tools and accessories**MV28-500**

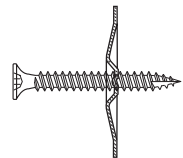
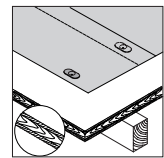


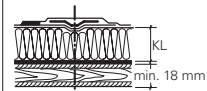
- Setting tool for upright setting
procedure for the attachment of
membranes directly to wood
substrates

Recommendation for installation

- Power screwdriver
- Min. 500 W
- Battery tool
- Approx. 18 V
- Battery with approx. 2,5 Ah

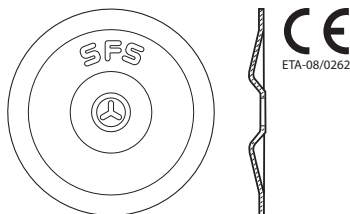
Order information

	<p>PH2, Ø 9,4 mm</p> 	<p>Fastener with pre-assembled stress plate</p>
<p>KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code IWF-T-B40- 5,0x 25			KL	Application information
		Type	d	L		
<p>■ Carbon steel</p>  	 ETA-08/0262	IWF-T-B40- 5,2x 25	5	25	*	
		IWF-T-B40- 5,2x 35	5	35	5	
		IWF-T-B40- 5,2x 45	5	45	15	
		IWF-T-B40- 5,2x 55	5	55	25	 <p>Screw length L: L = KL + 30 mm</p> <p>Thread length TL: TL = L - 3 mm</p> <p>* For special applications, please consult your SFS representative.</p>

Stress plates

MW-40-FH



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 *isotak*® TS-T25 fastening systems



- A treadfast solution of fastener and sleeve 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

isotak® TS-T25 / R45**Technical information****Application**

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

Material**Fastener**

■ TS-T25

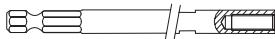
Case hardened carbon steel
 Durocoat® corrosion protection:
 Resistance at 15 cycles Kesternich
 test according to ETAG 006 - D.3.1.
 and FM Approval Standard 4470
 requirements
 Environment-friendly, free of
 chromium VI

■ R45

High quality polypropylene, PP

Tools and accessories**Accessories**

ZA 1/4"-M6-300/750



T25-32-M6



ZH-11-RING



- For the manual installation of isotak® fasteners and sleeves

IT19

- Stand-up setting tool for the installation of isotak® fasteners and sleeves

Order information

	<p>T25 recess Ø 9,7 mm</p>	
<p>KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm</p>		

Product / Application	Approval	Order code TS-T25- 6,0x 60			KL Application information
		Type	d	L	
<p>■ Carbon steel</p> <p>CE ETA-08/0262</p>		TS-T25- 6,0x 60	6,0x	60	<p>Sd (Setting depth): min. 30 mm</p> <p>Thread length TL: Fastener length 60-70 mm: TL = L - 6 mm Fastener length 80-240 mm: TL = 70 mm</p>
		TS-T25- 6,0x 70	6,0x	70	
		TS-T25- 6,0x 80	6,0x	80	
		TS-T25- 6,0x 90	6,0x	90	
		TS-T25- 6,0x 100	6,0x	100	
		TS-T25- 6,0x 110	6,0x	110	
		TS-T25- 6,0x 120	6,0x	120	
		TS-T25- 6,0x 130	6,0x	130	
		TS-T25- 6,0x 140	6,0x	140	
		TS-T25- 6,0x 160	6,0x	160	
		TS-T25- 6,0x 180	6,0x	180	
		TS-T25- 6,0x 200	6,0x	200	
		TS-T25- 6,0x 220	6,0x	220	
		TS-T25- 6,0x 240	6,0x	240	
<p>● Plastic</p> <p>CE ETA-08/0262</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	
		R	45x	485	
		R	45x	565	
		R	45x	645	
		R	45x	705	

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



R45

min. 15 mm*

min. 30 mm

* thickness vapour barrier to be considered

KL = total roof build-up between top edge substrate and top edge membrane

KL = thickness vapour barrier
+ thickness insulation
+ thickness membrane

	30	40	50
Sleeve R45xL	<p>Sleeve length 15</p> <p>Sleeve length 35</p> <p>Sleeve length 65</p> <p>Sleeve length 85</p> <p>Sleeve length 105</p> <p>Sleeve length 135</p> <p>Sleeve length 165</p> <p>Sleeve length 185</p> <p>Sleeve length 195</p> <p>Sleeve length 225</p> <p>Sleeve length 255</p> <p>Sleeve length 285</p> <p>Sleeve length 325</p> <p>Sleeve length 365</p> <p>Sleeve length 405</p> <p>Sleeve length 465</p>		
Fastener TS-T25-6xL	<p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90</p> <p>60: 70: 80: 90</p> <p>60: 70: 80: 90</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100</p> <p>60: 70: 80: 90: 100: 110</p> <p>60: 70: 80: 90: 100: 110</p> <p>60: 70: 80: 90: 100: 110</p> <p>60: 70: 80: 90: 100: 110: 120: 130: 140</p>		

Calculation:
Example:

 $\hat{\text{length}}$ Type of fastener
TS-T25-6,0x60