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isotak®	Product code	Page
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isoweld™	Product code	Page
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3

isofast® fastening systems: High-quality, reliability, durability, ergonomics

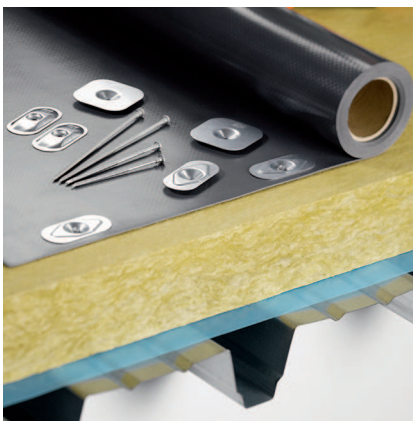
Today, more than ever, it is essential that the mechanical fastening of insulation and membrane on flat roofs is both fast and efficient. It is equally imperative that these fasteners are installed correctly and thereby function properly throughout the expected life of the roof construc-

tion. 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 environment-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

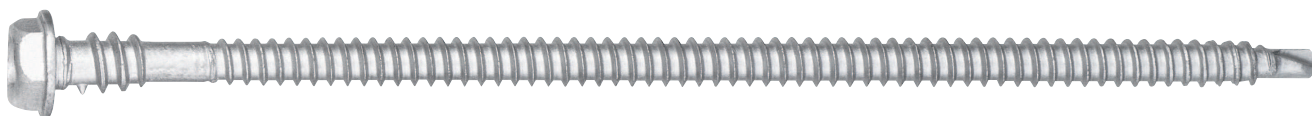
**High speed installation due to magazine fed fasteners**

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 is 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:
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

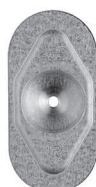
Stress plates

■ IF-70x70 / IR-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**IF-70x70**

- Stress plate for insulation,
hole diameter 4,9 mm

IR-82x40

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

Tools and accessories**DI650**

- Power screwdriver for manual
installation of fasteners and
stress plates

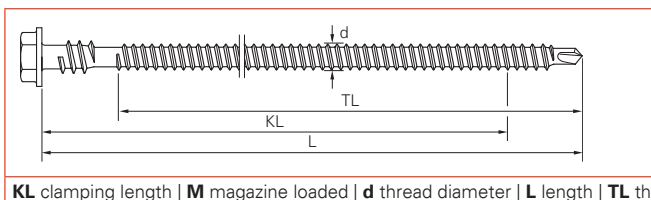

IF80


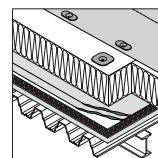
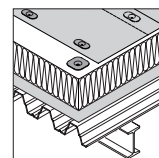
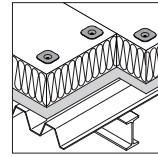


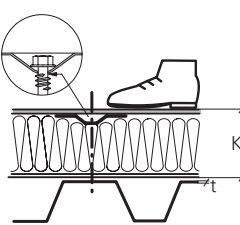
- Stand-up setting tool for the
installation of *isofast*® fasteners
and stress plates

IF240

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

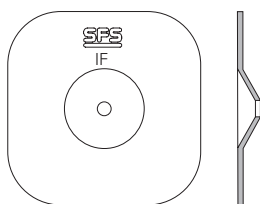
Order information

	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		

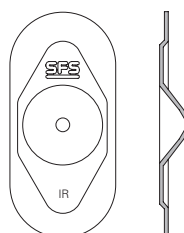
Product / Application	Approval	Order code IR2- 4,8x 60			KL	Application information
		Type	d	L		
Carbon steel    	 ETA-08/0262 	IR2- 4,8x 60		60	40	 $t_{min. \text{ steel: }} 0,63 \text{ mm}$ $t_{max. \text{ steel: }} 2 \times 1,25 \text{ mm}$ Screw length L: $L = KL + 20 \text{ mm}$ Thread length TL: Fastener length 60-80 mm: $TL = L - 13,5 \text{ mm}$ Fastener length 90-300 mm: $TL = 75 \text{ mm}$
		IR2- 4,8x 70		70	50	
		IR2- 4,8x 80		80	60	
		IR2- 4,8x 90		90	70	
		IR2- 4,8x 100		100	80	
		IR2- 4,8x 120		120	100	
		IR2- 4,8x 140		140	120	
		IR2- 4,8x 160		160	140	
		IR2- 4,8x 180		180	160	
		IR2- 4,8x 200		200	180	
		IR2- 4,8x 220		220	200	
		IR2- 4,8x 240		240	220	
		IR2- 4,8x 260		260	240	
		IR2- 4,8x 280		280	260	
		IR2- 4,8x 300		300	280	

Stress plates

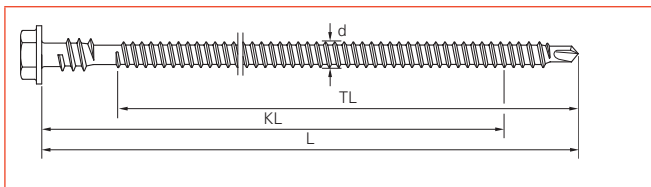


IF-70X70


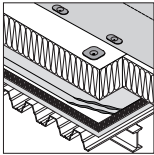
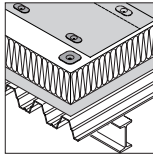
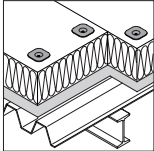


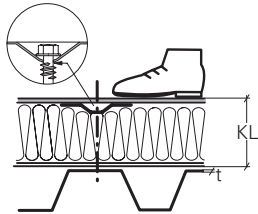


IR-82X40



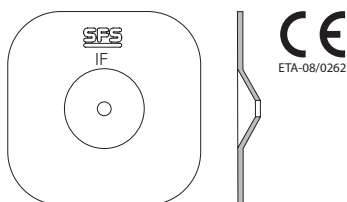
Order information

	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		

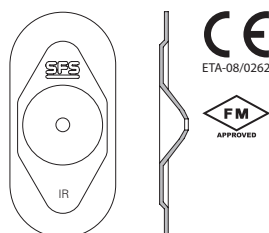
		Order code					
		IR2- M- 4,8x 60					
Product / Application	Approval	Type	M	d	L	KL	Application information
<div>■ Carbon steel</div> <div></div> <div></div> <div></div> <div></div>	<div> ETA-08/0262</div> <div></div>	IR2-	M-	4,8x	60	40	<div></div> <div>t min. steel: 0,63 mm</div> <div>t max. steel: 2 x 1,25 mm</div> <div>Screw length L: L = KL + 20 mm</div> <div>Thread length TL: Fastener length 60-80 mm: TL = L - 13,5 mm Fastener length 90-300 mm: TL = 75 mm</div> <div>Attention: The magazine loaded fasteners can only be used with the IF240 setting tool.</div>
		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	120	100	
		IR2-	M-	4,8x	140	120	
		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	

Stress plates

IF-70X70



IR-82X40



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.

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**

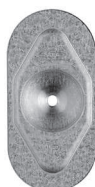
- IR2-S
- Austenitic stainless steel, grade
- AISI 316, European Standard
- 1.4401, grade A4
- Drill point and lead thread section:
- Fused and hardened carbon steel,
- length 13 mm, corrosion protected

Stress plates

- IF-70x70 / IR-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**IF-70x70**

- Stress plate for insulation,
- hole diameter 4,9 mm

IR-82x40

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

Tools and accessories**DI650**

- Power screwdriver for manual
- installation of fasteners and
- stress plates

IF80

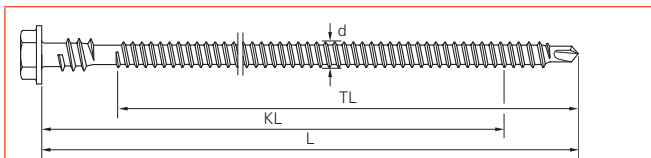

- Stand-up setting tool for the
- installation of *isofast*® fasteners
- and stress plates







IF240

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

Tools and accessories can be found in chapter 10

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		

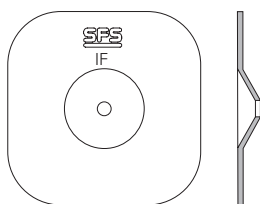
Product / Application	Approval	Order code IR2-S- 4,8x 60			KL	Application information
		Type	d	L		
• Stainless steel		IR2-S-	4,8x	60	40	
		IR2-S-	4,8x	80	60	
		IR2-S-	4,8x	100	80	
		IR2-S-	4,8x	120	100	
		IR2-S-	4,8x	140	120	
		IR2-S-	4,8x	160	140	
		IR2-S-	4,8x	180	160	
		IR2-S-	4,8x	200	180	Screw length L: $L = KL + 20 \text{ mm}$
		IR2-S-	4,8x	220	200	
		IR2-S-	4,8x	240	220	Thread length TL: Fastener length 60-80 mm: $TL = L - 15 \text{ mm}$ Fastener length 100-300 mm: $TL = 75 \text{ mm}$
		IR2-S-	4,8x	260*	240	
		IR2-S-	4,8x	300*	280	* Availability on request. Please consult your SFS representative for further information.

 t min. steel:
0,63 mm

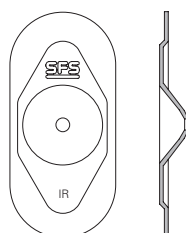
 t max. steel:
2 x 1,0 mm

Stress plates

IF-70X70

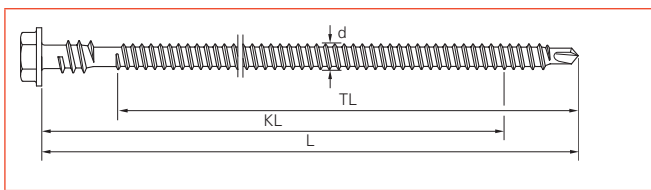





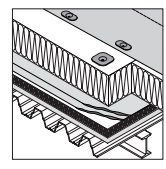
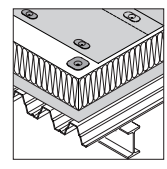
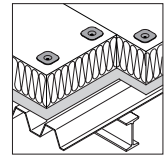

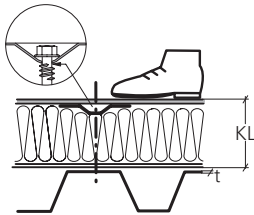
IR-82X40



isofast® IR2-S

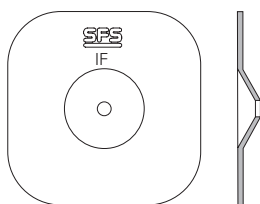
Order information

	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		

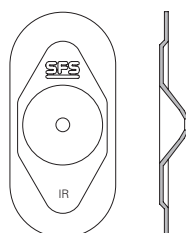
Product / Application	Approval	Order code IR2-S- M- 4,8x 60				KL	Application information
		Type	M	d	L		
Stainless steel    		IR2-S-	M-	4,8x	60	40	 $t_{min. steel}: 0,63 mm$ $t_{max. steel}: 2 x 1,0 mm$ Screw length L: $L = KL + 20 mm$ Thread length TL: Fastener length 60-80 mm: $TL = L - 15 mm$ Fastener length 100-240 mm: $TL = 75 mm$ Attention: The magazine loaded fasteners can only be used with the IF240 setting tool. Availability on request. Please consult your SFS representative for further information.
		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	

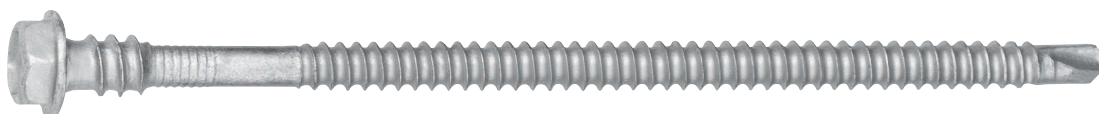
Stress plates

IF-70X70



IR-82X40



isofast® IR3**Technical information****Application**

For the fastening of waterproof membrane and insulation to steel deck. For steel deck thicknesses of between min. 1,0 mm and max. 2 x 1,5 mm.

Material**Fastener**

- IR3
- 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

- IF-70x70 / IR-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**IF-70x70**

- Stress plate for insulation, hole diameter 4,9 mm

IR-82x40

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

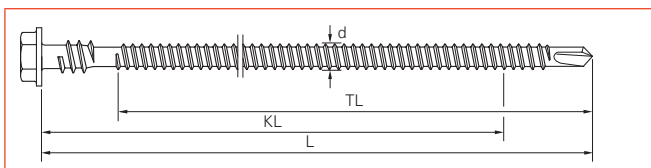

Tools and accessories**DI650**

- Power screwdriver for manual installation of fasteners and stress plates


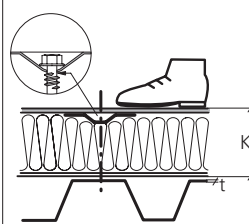

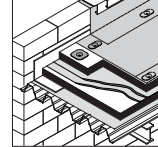
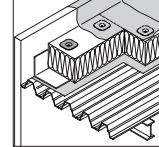
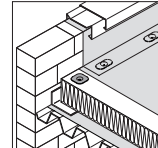
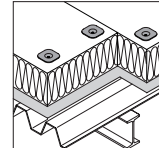
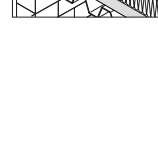
IF80

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

Order information

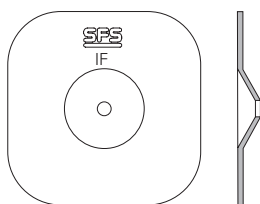
	Hexagon 8 mm 	
KL clamping length M magazine loaded d thread diameter L length TL thread length t thickness of structure All measures in mm		

3

Product / Application	Approval	Order code IR3- 4,8x 60			KL	Application information
		Type	d	L		
Carbon steel		IR3- 4,8x 60			40	 <div style="display: flex; justify-content: space-between;"> <div> t min. steel: 1,0 mm t max. steel: 2 x 1,5 mm </div> <div> Screw length L: L = KL + 20 mm Thread length TL: Fastener length 60-80 mm: TL = L - 13,5 mm Fastener length 100-300 mm: TL = 75 mm </div> </div>
		IR3- 4,8x 80			60	
		IR3- 4,8x 100			80	
		IR3- 4,8x 120			100	
		IR3- 4,8x 140			120	
		IR3- 4,8x 160			140	
		IR3- 4,8x 180			160	
		IR3- 4,8x 200			180	
		IR3- 4,8x 220			200	
		IR3- 4,8x 240			220	
		IR3- 4,8x 260			240	
		IR3- 4,8x 280			260	
		IR3- 4,8x 300			280	
						Magazine loaded fasteners on request.

Stress plates

IF-70X70



IR-82X40

