

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-08/0262**  
**of 17 October 2017**

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

SFS intec Flat Roof Fasteners

Product family  
to which the construction product belongs

Fasteners for flexible roof waterproofing systems

Manufacturer

SFS intec AG  
FasteningSystems  
Rosenbergsastraße 10  
9435 HEERBRUGG  
SCHWEIZ

Manufacturing plant

Factory 1 to factory 15, factory 18 to factory 23

This European Technical Assessment  
contains

114 pages including 109 annexes which form an integral  
part of this assessment

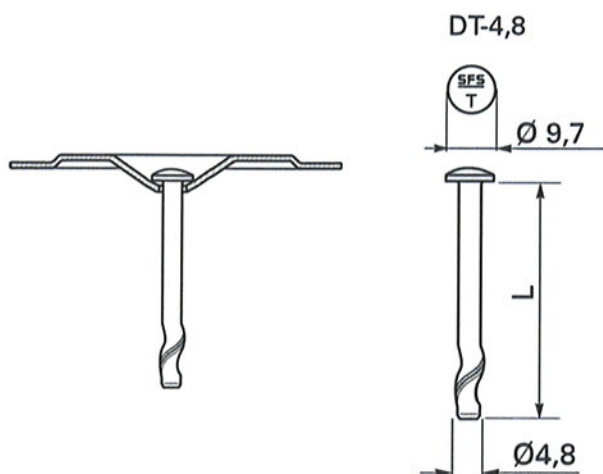
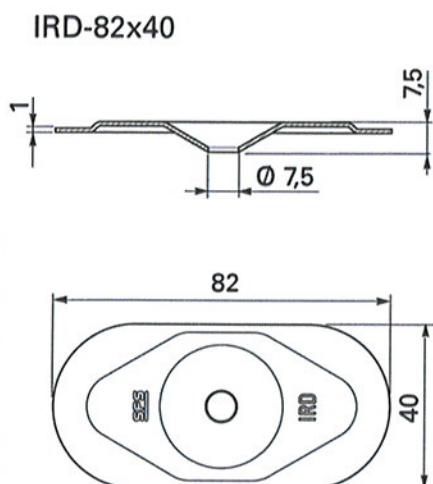
This European Technical Assessment is  
issued in accordance with Regulation (EU)  
No 305/2011, on the basis of

ETAG 006,  
used as EAD according to Article 66 Paragraph 3 of  
Regulation (EU) No 305/2011.

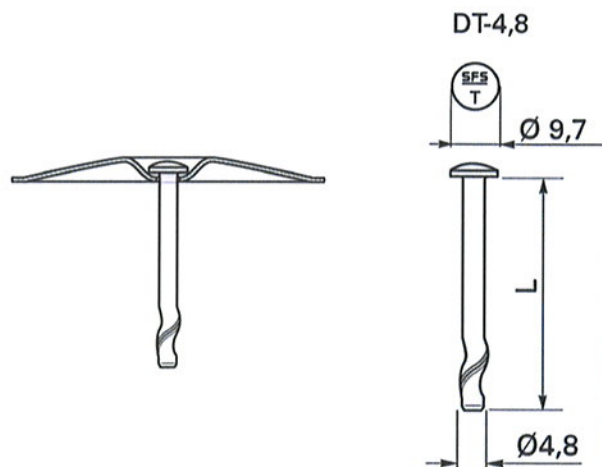
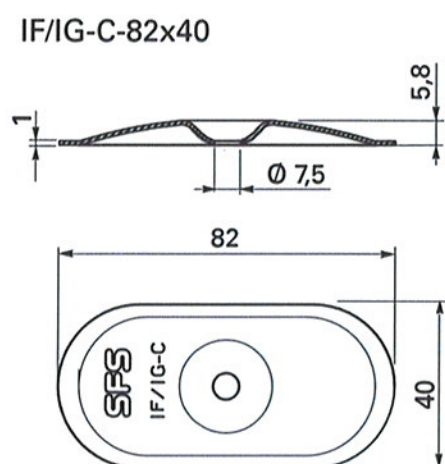
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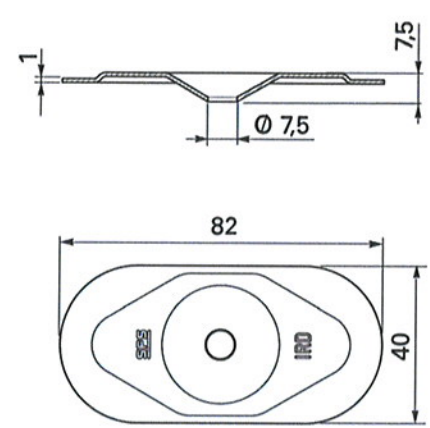
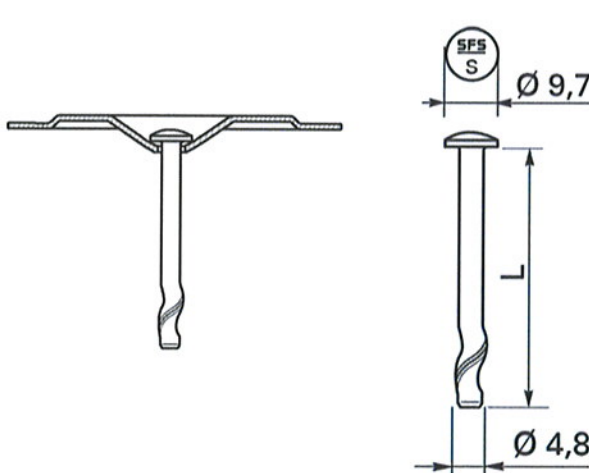
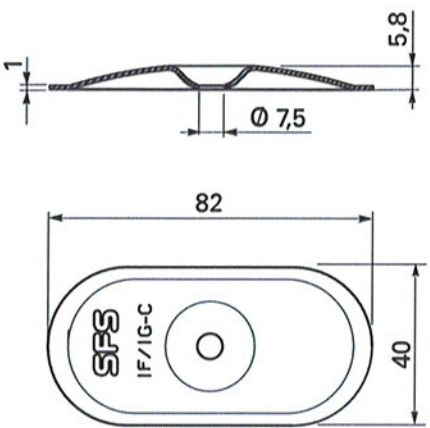
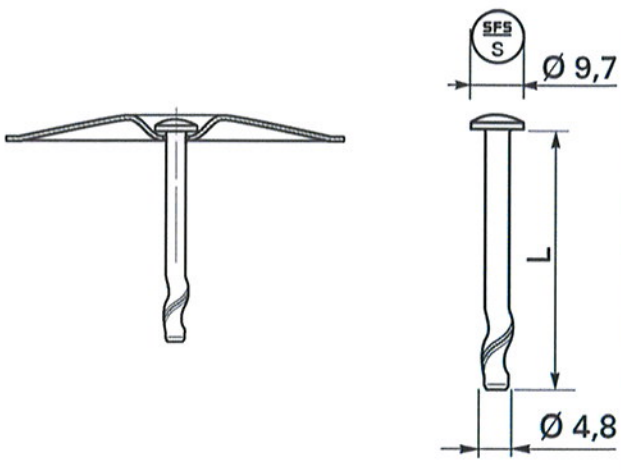
ETA-08/0262 issued on 25 April 2013

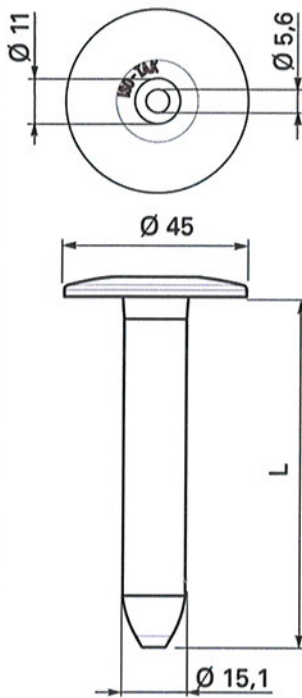
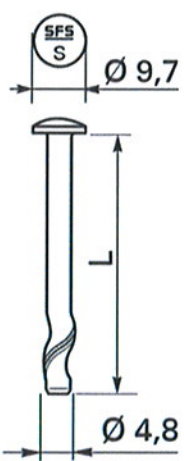
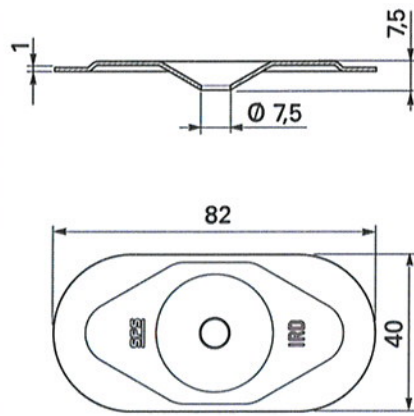

Combination 19A  
DT-4,8 / IRD-82x40



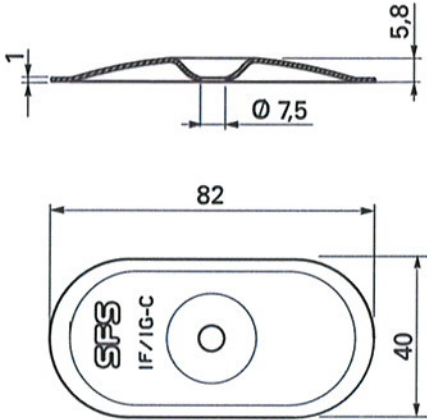
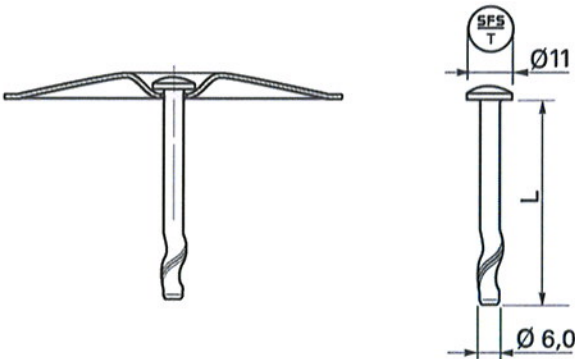
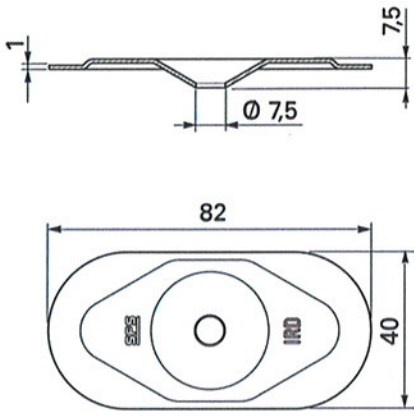
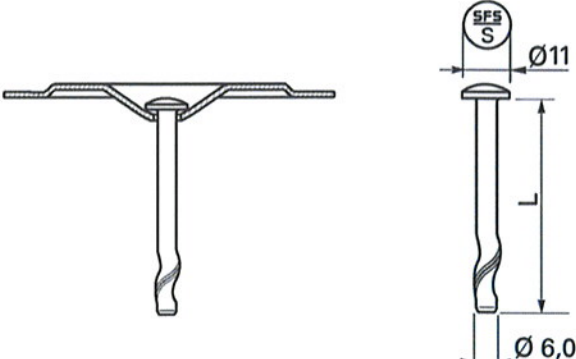
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DT-4,8 / IF/IG-C-82x40

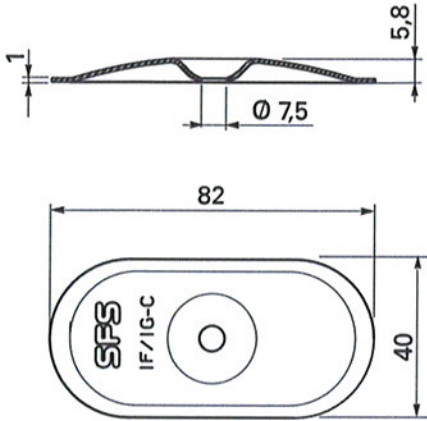
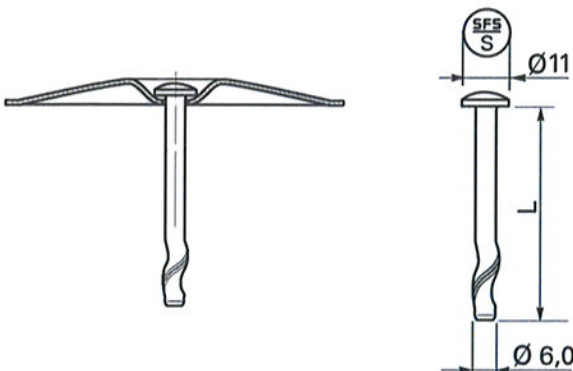
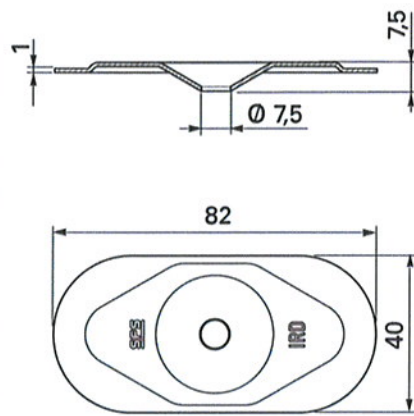
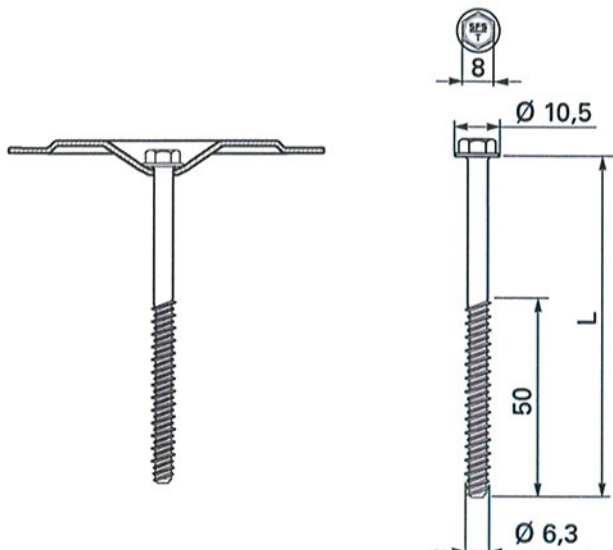


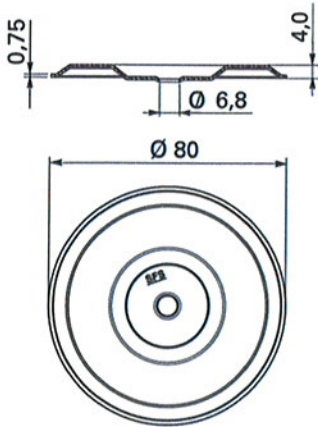
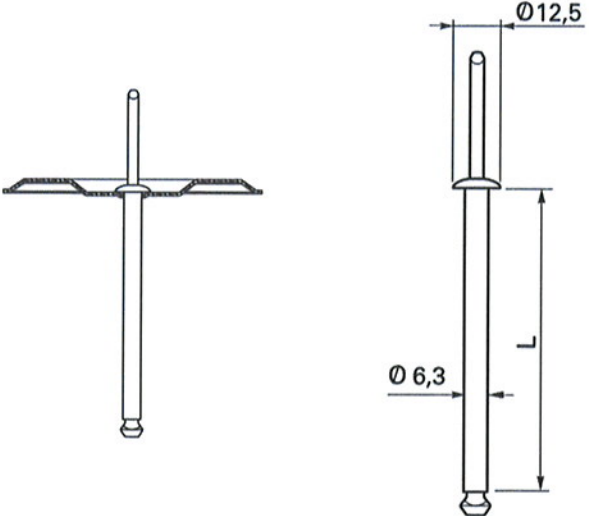
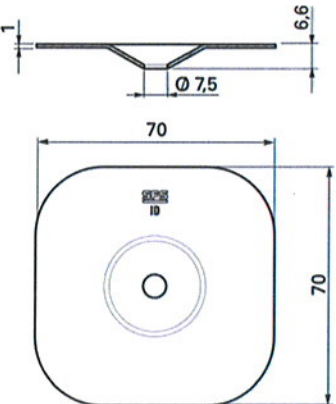
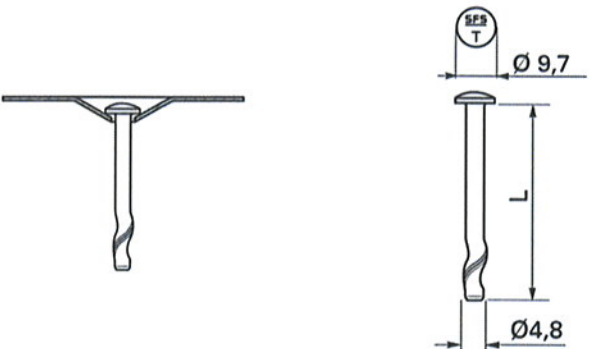
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SFS intec flat roof fasteners	Annex 21

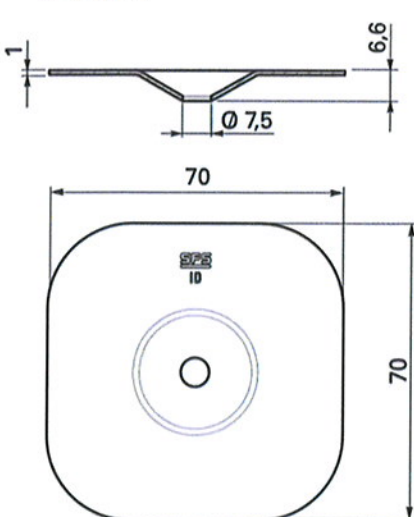
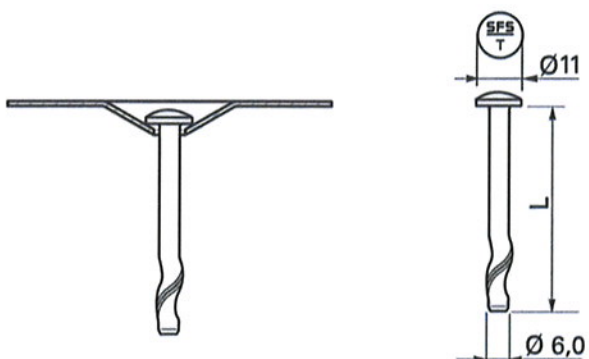
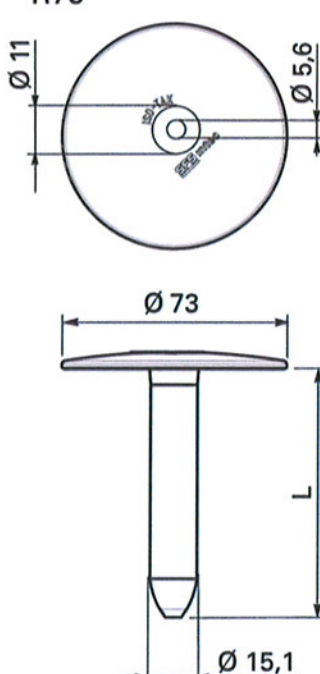
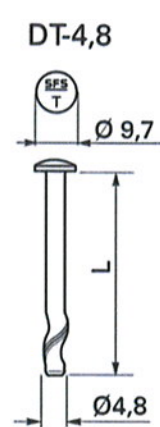
Combination 22A DT-S-4,8 / R45	Combination 22B DT-6,3 / IRD-82x40
<p><b>R45</b></p>  	<p><b>IRD-82x40</b></p>  <p><b>DT-6,3</b></p> 
SFS intec flat roof fasteners	
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Combination 23A DT-6,3 / IF/IG-C-82x40	Combination 23B DT-S-6,3 / IRD-82x40
<p data-bbox="156 629 341 663">IF/IG-C-82x40</p>  <p data-bbox="620 1395 707 1429">DT-6,3</p> 	<p data-bbox="850 629 991 663">IRD-82x40</p>  <p data-bbox="1315 1384 1433 1417">DT-S-6,3</p> 
SFS intec flat roof fasteners	
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Combination 24A DT-S-6,3 / IF/IG-C-82x40	Combination 24B TI-6,3 / IRD-82x40
<p data-bbox="156 517 341 546">IF/IG-C-82x40</p>  <p data-bbox="619 1379 735 1413">DT-S-6,3</p> 	<p data-bbox="852 517 991 546">IRD-82x40</p>  <p data-bbox="1305 1361 1385 1395">TI-6,3</p> 
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Combination 85A TPR-L-6,3 / FI-P-6,8	Combination 85B DT-4,8 / ID-70x70
<p data-bbox="167 607 263 640">FI-P-6,8</p>  <p data-bbox="614 1193 726 1227">TPR-L-6,3</p> 	<p data-bbox="869 600 997 633">ID-70x70</p>  <p data-bbox="1316 1288 1412 1321">DT-4,8</p> 
SFS intec flat roof fasteners	
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Combination 86A DT-6,3 / ID-70x70	Combination 86B DT-4,8 / R75
<p>ID-70x70</p>  <p>DT-6,3</p> 	<p>R75</p>  <p>DT-4,8</p> 
SFS intec flat roof fasteners	
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SFS intec flat roof fasteners

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Combination	SFS intec flat roof fastener		Characteristic axial loading resistance N <sub>R,k</sub> [kN] for non-metallic substructures												
			Timber			Concrete EN 206-1				Aerated Concrete DIN 4223-1			Pumice Panel EN 1520		
			OSB3 EN 300 t ≥ 18 mm <sup>1)</sup>	Structural Timber EN 338 / C24 t ≥ 22 mm <sup>2)</sup>	Plywood EN 636 t ≥ 18 mm <sup>3)</sup>	C12/15	C25/30	setting depth ≥ [mm]	pre-drill diameter [mm]	P 3.3	P 4.4	setting depth ≥ [mm]	LAC 6, D 1,0	setting depth ≥ [mm]	pre-drill diameter [mm]
	Fastener	Stress Plate / Sleeve / Bar													
15B	IW-T-5,0	IRC/W-82x40	1,08	1,12	2,12	-	-	-	-	-	-	-	-	-	-
16A	IW-S-5,0	IRC/W-82x40	1,08	1,12	2,04	-	-	-	-	-	-	-	-	-	-
16B	LBS-S-T25-8,0	R45	-	-	-	-	-	-	-	0,93	1,43	60	-	-	-
17A	LBS-T25-8,0	MW-40-LBS	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
17B	LBS-T25-8,0	R45	-	-	-	-	-	-	-	0,93	1,43	60	-	-	-
18A	LB45	-	-	-	-	-	-	-	-	1,44	1,44	65 <sup>4)</sup>	-	-	-
18B	FB-S-T25-7,5	R45	-	-	-	-	-	-	-	-	-	-	0,59	50	4,8
19A	DT-4,8	IRD-82x40	-	-	-	2,40	2,56	25	4,8	-	-	-	-	-	-
19B	DT-4,8	IF/IG-C-82x40	-	-	-	2,40	2,68	25	4,8	-	-	-	-	-	-
20A	DT-4,8	IW-82x40	-	-	-	2,40	3,34	25	4,8	-	-	-	-	-	-
20B	DT-4,8	R45	-	-	-	1,39	1,39	25	4,8	-	-	-	-	-	-
21A	DT-S-4,8	IRD-82x40	-	-	-	2,56	2,56	25	4,8	-	-	-	-	-	-
21B	DT-S-4,8	IF/IG-C-82x40	-	-	-	2,65	2,68	25	4,8	-	-	-	-	-	-
22A	DT-S-4,8	R45	-	-	-	1,39	1,39	25	4,8	-	-	-	-	-	-
22B	DT-6,3	IRD-82x40	-	-	-	2,93	3,68	32	6,3	-	-	-	-	-	-
23A	DT-6,3	IF/IG-C-82x40	-	-	-	2,93	4,07	32	6,3	-	-	-	-	-	-
23B	DT-S-6,3	IRD-82x40	-	-	-	2,23	3,10	32	6,3	-	-	-	-	-	-
24A	DT-S-6,3	IF/IG-C-82x40	-	-	-	2,23	3,10	32	6,3	-	-	-	-	-	-
24B	TI-6,3	IRD-82x40	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
						2,56	2,56	30							
<sup>1)</sup> effective setting depth (penetration length of threaded part) ≥ 18 mm <sup>2)</sup> effective setting depth (penetration length of threaded part) ≥ 22 mm <sup>3)</sup> effective setting depth (penetration length of threaded part) ≥ 18 mm; minimum density = 400 kg/m³ <sup>4)</sup> pre-drill diameter = 15 mm															

SFS intec flat roof fasteners

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance N <sub>R,k</sub> [kN] for non-metallic substructures												
			Timber			Concrete EN 206-1				Aerated Concrete DIN 4223-1			Pumice Panel EN 1520		
			OSB3 EN 300 t ≥ 18 mm <sup>1)</sup>	Structural Timber EN 338 / C24 t ≥ 22 mm <sup>2)</sup>	Plywood EN 636 t ≥ 18 mm <sup>3)</sup>	C12/15	C25/30	setting depth ≥ [mm]	pre-drill diameter [mm]	P 3.3	P 4.4	setting depth ≥ [mm]	LAC 6, D 1,0	setting depth ≥ [mm]	pre-drill diameter [mm]
	Fastener	Stress Plate / Sleeve / Bar													
81B	BS-S-6,1	FI-P-6,8	1,25	2,02	2,22	-	-	-	-	-	-	-	-	-	-
82A	BS-S-6,1	FI-P-16,0 / FI-R-20	1,25	2,02	2,17	-	-	-	-	-	-	-	-	-	-
82B	LBS-S-T25-8,0	IRD-82x40	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
83A	LBS-T25-8,0	IRD-82x40	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
83B	LBS-T25-8,0	IF/IG-C-82x40	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
84A	IWF-5,2	FI-P-6,8	1,35	1,94	2,20	-	-	-	-	-	-	-	-	-	-
84B	IW-S-5,0	FI-P-6,8	1,08	1,12	2,04	-	-	-	-	-	-	-	-	-	-
85B	DT-4,8	ID-70x70	-	-	-	2,40	2,56	25	4,8	-	-	-	-	-	-
86A	DT-6,3	ID-70x70	-	-	-	2,93	3,68	32	6,3	-	-	-	-	-	-
86B	DT-4,8	R75	-	-	-	1,39	1,39	25	4,8	-	-	-	-	-	-
87A	DT-S-4,8	R75	-	-	-	1,39	1,39	25	4,8	-	-	-	-	-	-
88A	BS-4,8	IPF45 / FI-R-20	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
88B	BS-4,8	IPF45 / FI-R-20	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
89A	BS-4,8	Isolfast SQT	1,45	1,32	1,45	-	-	-	-	-	-	-	-	-	-
89B	Sarnafast SF-4,8	IF/IG-C-82x40	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
90A	LBS-T25-8,0	Sarnabar	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
90B	Sarnafast SBF-6,0	Sarnaweld disc 6,8	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
91A	Sarnafast SBF-6,0	Sarnaweld disc 16 / Sarnabar Tube SBT-20	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
91B	Sarnafast SBF-S-6,0	Sarnaweld disc 6,8	1,25	2,02	2,22	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
92A	Sarnafast SBF-S-6,0	Sarnaweld disc 16 / Sarnabar Tube SBT-20	1,25	2,02	2,17	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
<sup>1)</sup> effective setting depth (penetration length of threaded part) ≥ 18 mm <sup>2)</sup> effective setting depth (penetration length of threaded part) ≥ 22 mm <sup>3)</sup> effective setting depth (penetration length of threaded part) ≥ 18 mm; minimum density = 400 kg/m³															

Annex 108

SFS intec flat roof fasteners

Annex 108