Deutsches Institut für Bautechnik

DIBt

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Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

Designated according to Article 29 of Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment

ETA-08/0262 of 17 October 2017

English translation prepared by DIBt - Original version in German language

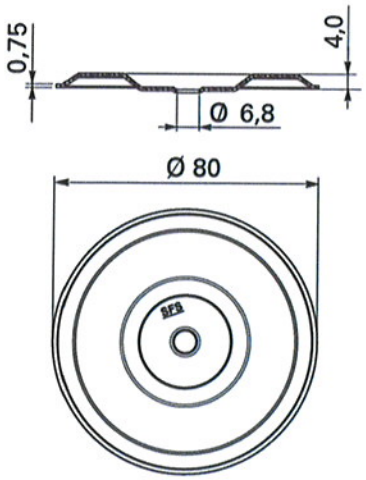
General Part

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 Rosenbergsaustraße 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.
This version replaces	ETA-08/0262 issued on 25 April 2013

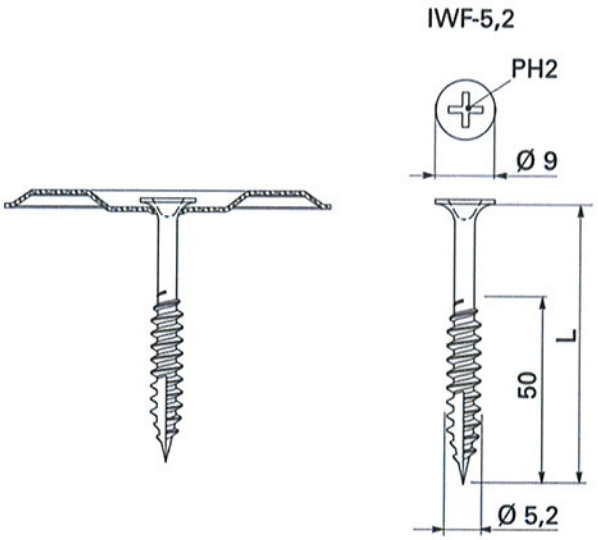
Deutsches Institut für Bautechnik DIBt

Combination 84A IWF-5,2 / FI-P-6,8	Combination 84B IW-S-5,0 / FI-P-6,8

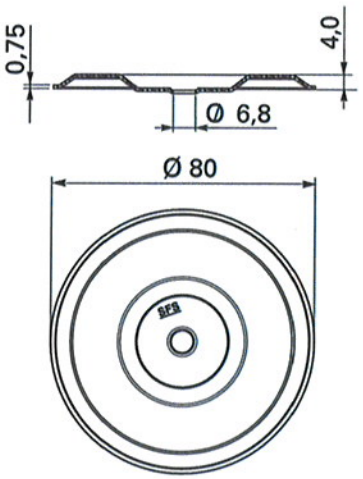
FI-P-6,8



IWF-5,2



FI-P-6,8



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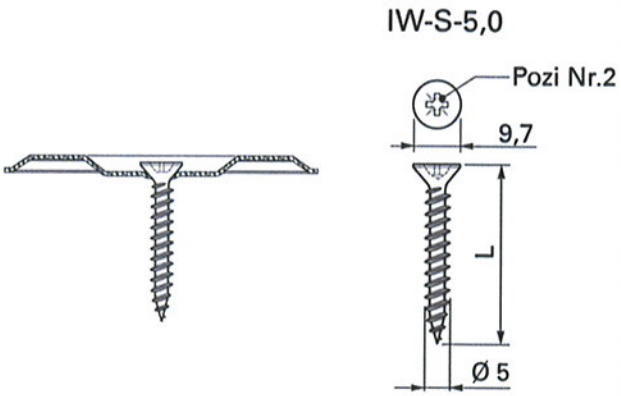
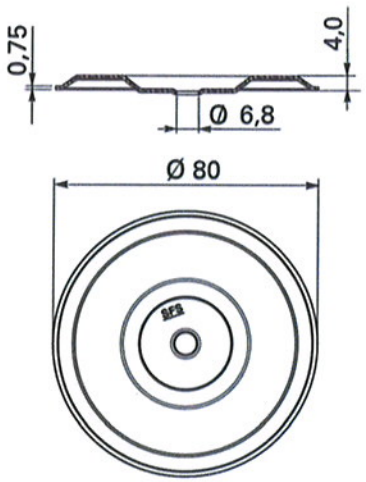


SFS intec flat roof fasteners	Annex 84

Deutsches Institut für Bautechnik DIBt

Combination 44A TS-T25-6,0 / FI-P-6,8	Combination 44B Sarnafast SBF-6,0 / FI-P-6,8

FI-P-6,8



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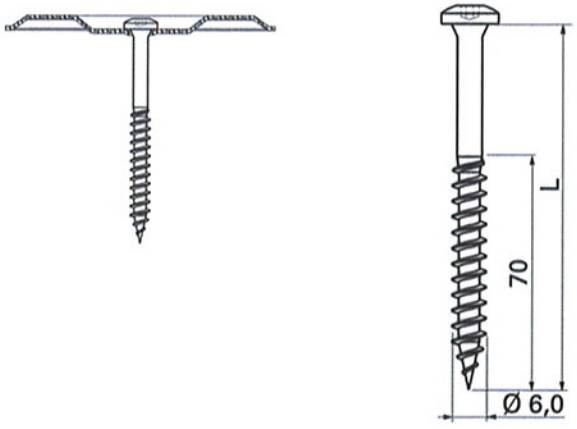

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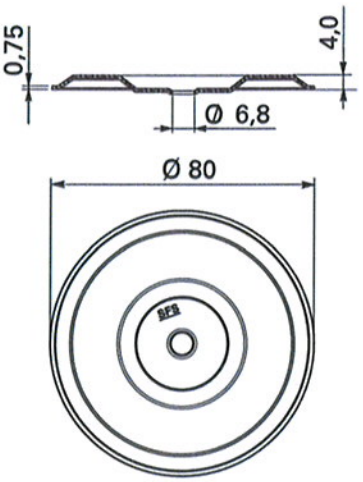
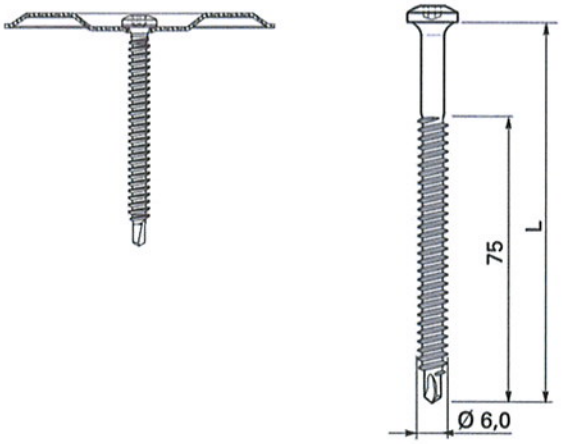


Sarnafast SBF-6,0



SFS intec flat roof fasteners	Annex 44

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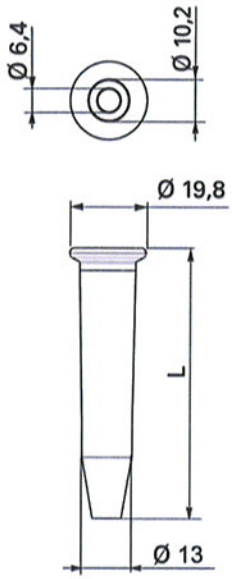
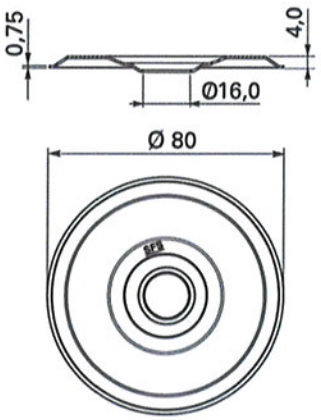
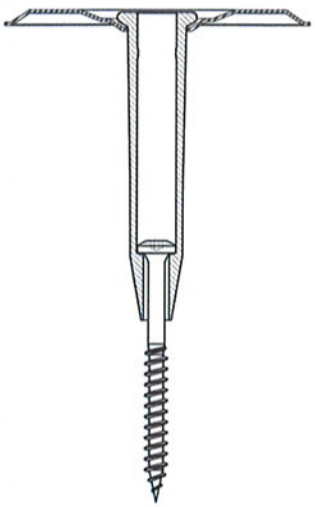
Combination 49A
TS-T25-6,0 / FI-P-16,0 / FI-R-20

FI-R-20

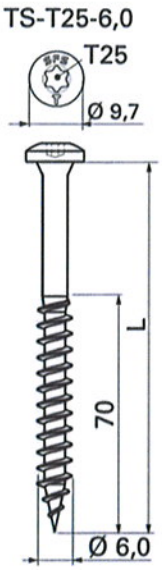


FI-P-16,0



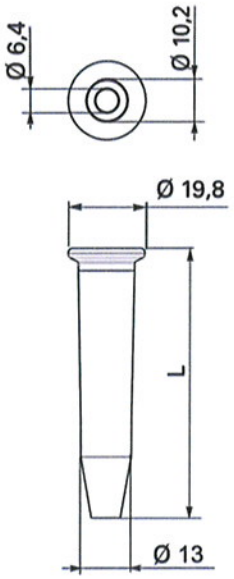


TS-T25-6,0

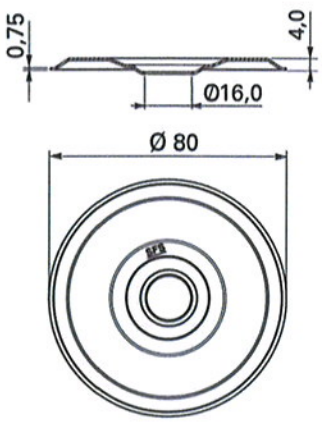


Combination 49B
Sarnafast SBF-6,0 / FI-P-16,0 / FI-R-20

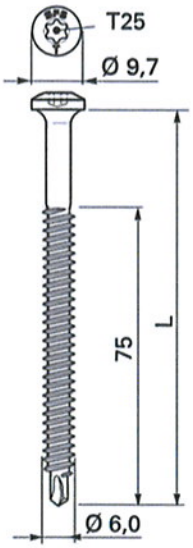
FI-R-20



FI-P-16,0



Sarnafast SBF-6,0



SFS intec flat roof fasteners | **Annex 49**

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance $N_{R,k}$ [kN] for non-metallic substructures													
			Timber			Concrete EN 206-1				Aerated Concrete DIN 4223-1			Pumice Panel EN 1520		
	Fastener	Stress Plate / Sleeve / Bar	OSB3 EN 300 t ≥ 18 mm [1]	Structural Timber EN 338 / C24 t ≥ 22 mm [2]	Plywood EN 636 t ≥ 18 mm [3]	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]
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	-	-	-

[1] effective setting depth (penetration length of threaded part) ≥ 18 mm

[2] effective setting depth (penetration length of threaded part) ≥ 22 mm

[3] effective setting depth (penetration length of threaded part) ≥ 18 mm; minimum density = 400 kg/m³

SFS intec flat roof fasteners

Annex 104

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance $N_{R,k}$ [kN] for non-metallic substructures													
			Timber			Concrete EN 206-1				Aerated Concrete DIN 4223-1			Pumice Panel EN 1520			
	Fastener	Stress Plate / Sleeve / Bar	OSB3 EN 300 t ≥ 18 mm [1]	Structural Timber EN 338 / C24 t ≥ 22 mm [2]	Plywood EN 636 t ≥ 18 mm [3]	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]
40A	TI-T25-6,3	FI-P-6,8	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
						2,73	2,83	30							
40B	BS-6,1	FI-P-6,8	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75			
41A	DT-4,8	FI-P-6,8	-	-	-	2,40	2,83	25	4,8	-	-	-	-	-	-
41B	DT-S-4,8	FI-P-6,8	-	-	-	2,65	2,83	25	4,8	-	-	-	-	-	-
42A	DT-6,3	FI-P-6,8	-	-	-	2,93	3,82	32	6,3	-	-	-	-	-	-
42B	DT-S-6,3	FI-P-6,8	-	-	-	2,23	3,10	32	6,3	-	-	-	-	-	-
43A	LBS-T25-8,0	FI-P-6,8	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
43B	LBS-S-T25-8,0	FI-P-6,8	-	-	-	-	-	-	-	0,93	1,44	60	-	-	-
44A	TS-T25-6,0	FI-P-6,8	1,31	1,43	2,30	0,44	0,89	32	5,0	1,07	1,78	75	-	-	-
						2,83	2,83	50							
44B	Sarnafast SBF-6,0	FI-P-6,8	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
45A	Sarnafast SBF-S-6,0	FI-P-6,8	1,25	2,02	2,22	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
45B	FB-S-T25-7,5	FI-P-6,8	-	-	-	-	-	-	-	-	-	-	0,59	50	4,8
46A	BS-4,8	FI-P-16,0 / FI-R-20	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
46B	BS-S-4,8	FI-P-16,0 / FI-R-20	1,28	1,74	1,96	-	-	-	-	-	-	-	-	-	-
47A	TI-T25-6,3	FI-P-16,0 / FI-R-20	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
						2,17	2,17	30							
47B	BS-6,1	FI-P-16,0 / FI-R-20	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
48A	DT-4,8	FI-P-16,0 / FI-R-20	-	-	-	2,17	2,17	25	4,8	-	-	-	-	-	-

[1] effective setting depth (penetration length of threaded part) ≥ 18 mm
[2] effective setting depth (penetration length of threaded part) ≥ 22 mm
[3] effective setting depth (penetration length of threaded part) ≥ 18 mm; minimum density = 400 kg/m³

SFS intec flat roof fasteners

Annex 105

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance $N_{R,k}$ [kN] for non-metallic substructures												
			Timber			Concrete EN 206-1				Aerated Concrete DIN 4223-1			Pumice Panel EN 1520		
	Fastener	Stress Plate / Sleeve / Bar	OSB3 EN 300 t ≥ 18 mm [1]	Structural Timber EN 338 / C24 t ≥ 22 mm [2]	Plywood EN 636 t ≥ 18 mm [3]	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]
48B	DT-S-4,8	FI-P-16,0 / FI-R-20	-	-	-	2,17	2,17	25	4,8	-	-	-	-	-	-
49A	TS-T25-6,0	FI-P-16,0 / FI-R-20	1,31	1,43	2,17	0,44	0,89	32	5,0	1,07	1,78	75	-	-	-
						2,17	2,17	50							
49B	Sarnafast SBF-6,0	FI-P-16,0 / FI-R-20	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
50A	Sarnafast SBF-6,0	FI-P-16,0 / FI-R-20	1,25	2,02	2,17	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
50B	TIA-T25-6,3	FI-P-16,0 / FI-R-20	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
51A	TIA-T25-6,3	FI-R-20 / Sarnabar	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
55B	TI-T25-6,3	Isolfix SRT	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
						1,42	1,42	30							
56A	Sarnafast SBF-6,0	Isolfix SRT	1,32	1,42	1,42	0,72	1,42	32	5,0	0,35	0,58	75	-	-	-
56B	Sarnafast SBF-S-6,0	Isolfix SRT	1,25	1,42	1,42	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
57B	Sarnafast SBF-6,0	Sarnafast KTL-82x40	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
58A	Sarnafast SBF-6,0	Sarnafast DTL-70x70	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
58B	Sarnafast SBF-6,0	IF/IG-C-82x40	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-
59A	Sarnafast SBF-S-6,0	Sarnafast KTL-82x40	1,25	2,02	2,22	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
59B	Sarnafast SBF-S-6,0	Sarnafast DTL-70x70	1,25	2,02	2,22	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
60A	Sarnafast SBF-S-6,0	IF/IG-C-82x40	1,25	2,02	2,22	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
60B	Sarnafast SBF-S-6,0	Sarnabar Tube SFT-50	1,25	1,66	1,66	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
61A	Sarnafast SBF-S-6,0	Sarnabar Tube SBT-20 / Sarnabar	1,25	2,02	2,10	0,42	0,84	32	5,0	0,82	1,37	75	-	-	-
61B	Sarnafast SBF-6,0	SBIW-70x70 / Sarnabar Tube SBT-20	1,32	2,10	2,10	0,72	1,45	32	5,0	0,35	0,58	75	-	-	-

[1] effective setting depth (penetration length of threaded part) ≥ 18 mm

[2] effective setting depth (penetration length of threaded part) ≥ 22 mm

[3] effective setting depth (penetration length of threaded part) ≥ 18 mm; minimum density = 400 kg/m³