



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:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

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

This version replaces

Deutsches Institut für Bautechnik

SFS intec Flat Roof Fasteners

Fasteners for flexible roof waterproofing systems

SFS intec AG FasteningSystems Rosenbergsaustraße 10 9435 HEERBRUGG SCHWEIZ

Factory 1 to factory 15, factory 18 to factory 23

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

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

ETA-08/0262 issued on 25 April 2013



Combination 19A DT-4,8 / IRD-82x40		Combination 19B DT-4,8 / IF/IG-C-82x40	
IRD-82x40 82 82 94		IF/IG-C-82x40	40
	DT-4,8 Ø 9,7		DT-4,8 Ø 9,7 Ø 9,8
SFS intec flat roof fasteners			Annex 19



Combination 21A DT-S-4,8 / IRD-82x40		Combination 21B DT-S-4,8 / IF/IG-C-82x40	
IRD-82x40 82 0 7,5		IF/IG-C-82×40	40 2.8
	DT-S-4,8 Ø 9,7 Ø 4,8		DT-S-4,8 Ø 9,7 Ø 4,8
SFS intec flat roof fasteners			Annex 21



Combination 22A		Combination 22B	
DT-S-4,8 / R45		DT-6,3 / IRD-82x40	
R45 R45 R45 R45	DT-S-4,8	IRD-82×40 82 82	DT-6,3
SFS intec flat roof fasteners	Ø 4,8		Ø 6,0



Combination 23A DT-6,3 / IF/IG-C-82x40		Combination 23B DT-S-6,3 / IRD-82x40	
IF/IG-C-82x40 82 82 0 7,5		IRD-82x40 82 82	40 75
	DT-6,3 SES Ø11 Ø 6,0		DT-S-6,3 Ø11 Ø 6,0
SFS intec flat roof fasteners			Annex 23

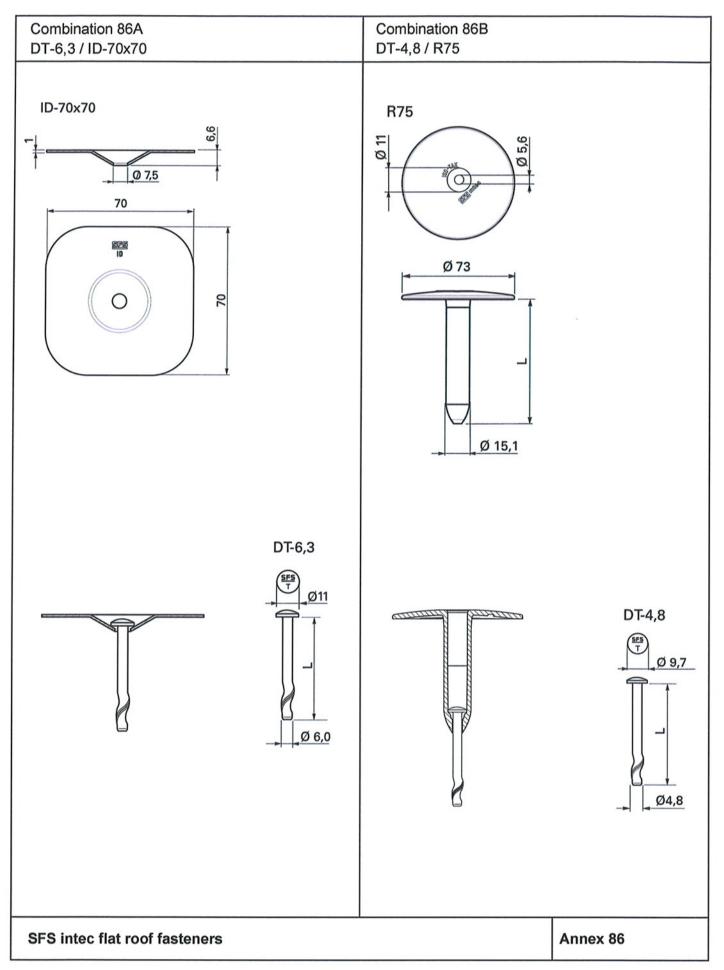


Combination 24A		Combination 24B	
DT-S-6,3 / IF/IG-C-82x40 IF/IG-C-82x40 82 82 94		IRD-82x40 82 82	40 75
	DT-S-6,3 Ø11 Ø 6,0		TI-6,3 Ø 10,5 Ø 6,3
SFS intec flat roof fasteners			Annex 24



Combination 85A TPR-L-6,3 / FI-P-6,8		Combination 85B DT-4,8 / ID-70x70	
FI-P-6,8 9 80 9 80		ID-70x70	
	Ø 6,3		DT-4,8 99,7 Ø 4,8
SFS intec flat roof fasteners			Annex 85





SFS intec flat roof fasteners

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Fastence Stress Plate / Sleeve / Bar t ≥ 18 mm 1 t ≥ 22 mm 1 t ≥ 18 mm 1 mm mm mm mm mm mm	င္ပ			Characteristic axial loading resistance N _{R,k} [kN] for non-metallic substructures												
Fastence Stress Plate Steese Bar t ≥ 18 mm 1 t ≥ 22 mm 1 t ≥ 18 mm 1 mm mm mm mm mm mm	mbin	ı												Pumice Panel EN 1520		
158 IW-T-5,0 IRC/W-82x40 1,08 1,12 2,12	ation	Fastener	Stress Plate / Sleeve / Bar	EN 300	EN 338 / C24	EN 636	C12/15	C25/30	depth ≥	diameter	P 3.3	P 4.4	depth ≥	LAC 6, D 1,0	setting depth ≥ [mm]	pre-drill diameter [mm]
168	15B	IW-T-5,0	IRC/W-82x40	1,08	1,12	Annual Control	-		-	-		-	-	-	-	-
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 65-41 18B F8-S-T25-7,5 R45 -	16A	IW-S-5,0	IRC/W-82x40	1,08	1,12	2,04	-	-	-	-	-		-	-	-	-
178 LBS-T25-8,0 R45 0,93 1,43 60 18A LB45	16B	LBS-S-T25-8,0	R45	-			-	-	-		0,93	1,43	60	-		-
18A L845 - - - - - - 1,44 1,44 65 4) 18B FB-S-T25-7,5 R45 - <t< td=""><td>17A</td><td>LBS-T25-8,0</td><td>MW-40-LBS</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>0,93</td><td>1,44</td><td>60</td><td></td><td>-</td><td>-</td></t<>	17A	LBS-T25-8,0	MW-40-LBS	-		-	-	-	-		0,93	1,44	60		-	-
188 FB-S-T25-7,5 R45 -	17B	LBS-T25-8,0	R45	-		-	-	-	-		0,93	1,43	60		-	-
19A DT-4,8 IRD-82x40 - - 2,40 2,56 25 4,8 - - - 198 DT-4,8 IF/IG-C-82x40 - - 2,40 2,68 25 4,8 -	18A	LB45	-		-	-	-	-	-	-	1,44	1,44	65 ^{4}}		-	
198 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 IF/IG-C-82x40 - - 1,39 1,39 25 4,8 - - - 22B DT-6,3 IRD-82x40 - - 2,93 3,68 32 6,3 - - 23B DT-S-6,3 IRD-82x40 - - - </td <td>188</td> <td>FB-S-T25-7,5</td> <td>R45</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0,59</td> <td>50</td> <td>4,8</td>	188	FB-S-T25-7,5	R45		-	-	-	-	-	-	-	-	-	0,59	50	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-G,3 IRD-82x40 - - - 2,93 3,68 32 6,3 - - 23B DT-S-6,3 IRD-82x40 - - - 2,23 3,10 32 6,3 - - -	19A	DT-4,8	IRD-82x40	-	-	-	2,40	2,56	25	4,8	-	-	-			-
208 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 - - -	198	DT-4,8	IF/IG-C-82x40	-	-	-	2,40	2,68	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-G,3 IRD-82x40 - - - 2,93 3,68 32 6,3 - - - 23A DT-G,3 IF/IG-C-82x40 - - - 2,93 4,07 32 6,3 - - - 23B DT-S-G,3 IRD-82x40 - - - 2,23 3,10 32 6,3 - - -	20A	DT-4,8	IW-82x40	-		-	2,40	3,34	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 - - -	208	DT-4,8	R45	-	1.5	1.5	1,39	1,39	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 - - -	21A	DT-S-4,8	IRD-82x40		1.51	-	2,56	2,56	25	4,8	-	-	-	-		-
228 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 - - -	218	DT-S-4,8	IF/IG-C-82x40		1.5	151	2,65	2,68	25	4,8	-	-	-	-	-	-
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	22A	DT-S-4,8	R45	-	-	(-)	1,39	1,39	25	4,8	-	-	-	-	-	-
23B DT-S-6,3 IRD-82x40 2,23 3,10 32 6,3	228	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	-	-	-	-	-	-
24A DT-S-6,3 IF/IG-C-82x40 2,23 3,10 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	-	1-3		2,23	3,10	32	6,3	-	-	-	-		-
24B TI-6,3 IRD-82x40	249	TI 62	IBD 62-40		50,500	255sz	1,83	1,83	20							
24B TI-6,3 IRD-82x40 2,56 2,56 30 5,0	24D	11-0,5	IKD-82X40	-		-	2,56	2,56	30	5,0		-		•		1

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

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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

⁴⁾ pre-drill diameter = 15 mm

	င္ပ	Characteristic axial loading resistance N _{R,k} [kN] for non-metallic substructures														
1								ated Conci		100000	mice Pane EN 1520					
	ation	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	-	-	-
SFS	83A	LBS-T25-8,0	IRD-82x40		-	-	-	-	-	-	0,93	1,44	60	-	-	-
Sin	83B	LBS-T25-8,0	IF/IG-C-82x40	1-	(+)	-	-	-	-	-	0,93	1,44	60	-	-	-
intec	84A	IWF-5,2	FI-P-6,8	1,35	1,94	2,20	-	-			-	-	-	-	-	-
flat roof fasteners	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	-	-	-			-
fas	86A	DT-6,3	ID-70x70	-	-	-	2,93	3,68	32	6,3	-	ā	1	-	-	
ten	86B	DT-4,8	R75	7=1	-	-	1,39	1,39	25	4,8	-	-		-	-	-
ers	87A	DT-S-4,8	R75	1-1	1-1	_	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			-

2,22

2,17

0,42

0,42

0,84

0,84

32

32

5,0

5,0

0,82

0,82

1,37

1,37

75

75

Sarnaweld disc 6,8

Sarnaweld disc 16 /

Sarnabar Tube SBT-20

Sarnafast SBF-S-

6,0 Sarnafast SBF-S-

91B

1,25

1,25

2,02

2,02

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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