

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

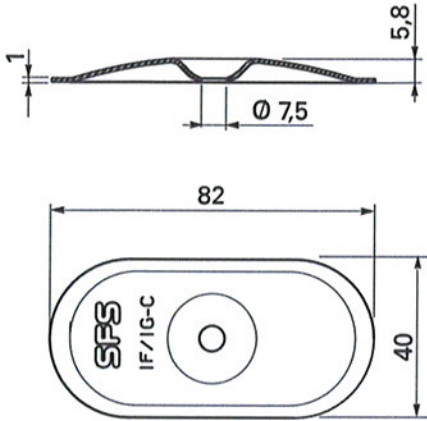
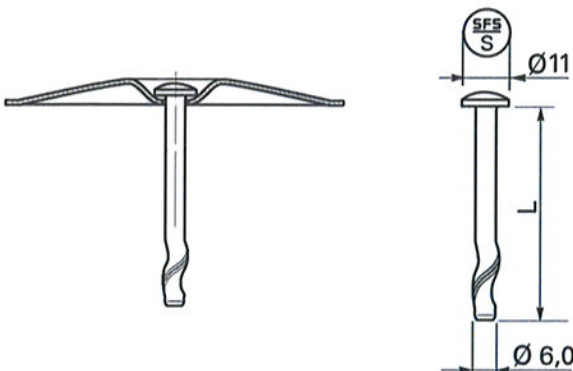
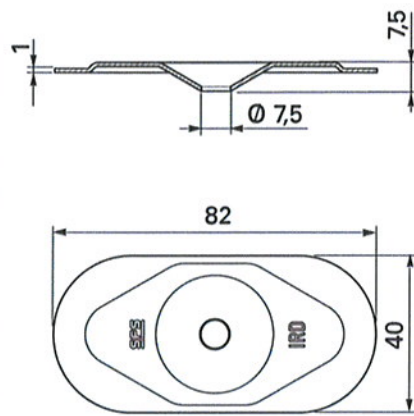
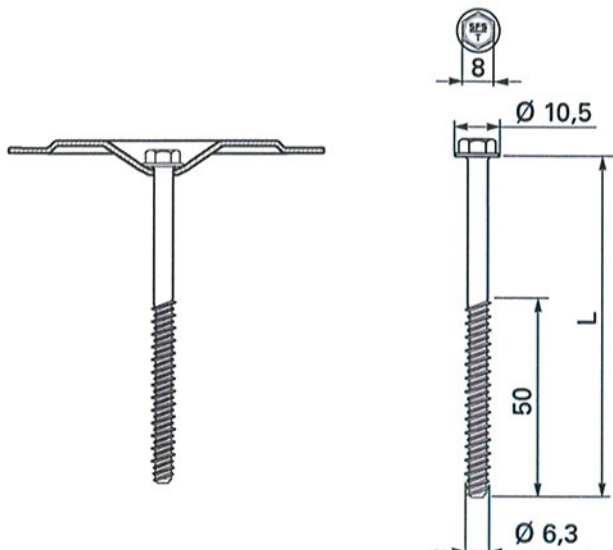
114 pages including 109 annexes which form an integral
part of this assessment

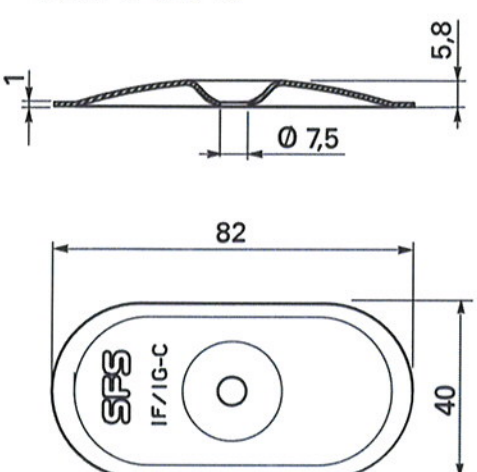
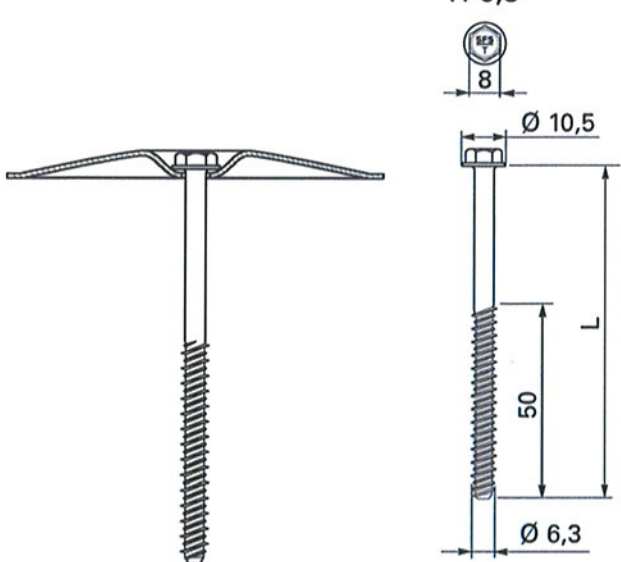
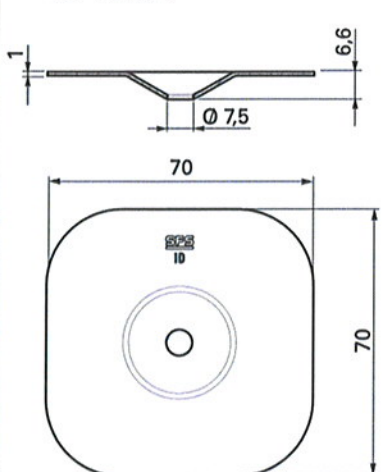
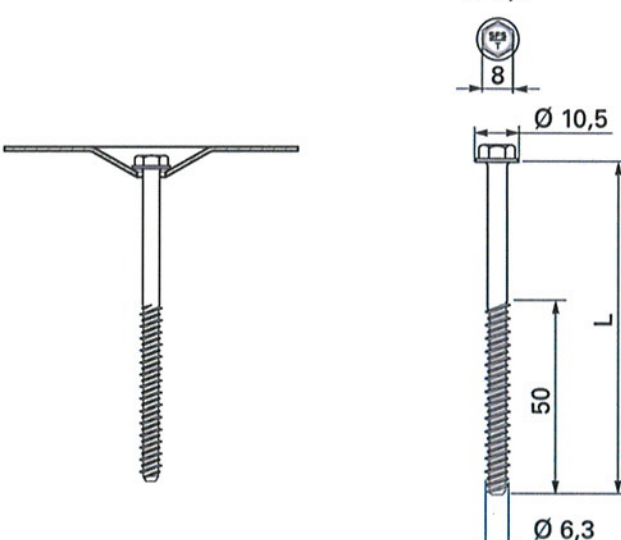
This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

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

This version replaces

ETA-08/0262 issued on 25 April 2013

Combination 24A DT-S-6,3 / IF/IG-C-82x40	Combination 24B TI-6,3 / IRD-82x40
<p data-bbox="156 517 341 548">IF/IG-C-82x40</p>  <p data-bbox="619 1379 735 1411">DT-S-6,3</p> 	<p data-bbox="852 517 991 548">IRD-82x40</p>  <p data-bbox="1305 1357 1390 1388">TI-6,3</p> 
SFS intec flat roof fasteners	Annex 24

Combination 25A TI-6,3 / IF/IG-C-82x40	Combination 25B TI-6,3 / ID-70x70
<p data-bbox="159 515 367 560">IF/IG-C-82x40</p>  <p data-bbox="606 1321 686 1366">TI-6,3</p> 	<p data-bbox="861 515 1005 560">ID-70x70</p>  <p data-bbox="1292 1344 1372 1388">TI-6,3</p> 
SFS intec flat roof fasteners	Annex 25

SFS intec flat roof fasteners

Annex 101

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance N _{Rk} [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 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]
	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 ⁴⁾	-	-	-
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							

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
⁴⁾ pre-drill diameter = 15 mm

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		
			OSB3 EN 300 $t \geq 18 \text{ mm}^{1)}$	Structural Timber EN 338 / C24 $t \geq 22 \text{ mm}^{2)}$	Plywood EN 636 $t \geq 18 \text{ mm}^{3)}$	C12/15	C25/30	setting depth \geq [mm]	pre-drill diameter [mm]	P 3.3	P 4.4	setting depth \geq [mm]	LAC 6, D 1,0	setting depth \geq [mm]	pre-drill diameter [mm]
	Fastener	Stress Plate / Sleeve / Bar													
25A	TI-6,3	IF/IG-C-82x40	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
						2,73	3,79	30							
25B	TI-6,3	ID-70x70	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	-
						2,73	3,79	30							
26A	TI-T25-6,3	R75	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
						1,42	1,42	30							
26B	TI-T25-6,3	TPS	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
						1,42	1,42	30							
27A	TI-T25-6,3	R48-3N	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
						1,42	1,42	30							
27B	TI-T25-6,3	R45	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
						1,42	1,42	30							
28A	TIA-T25-6,3	R45	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	-
28B	BS-4,8	Sarnafast Tube SFT-50	1,45	1,32	1,66	-	-	-	-	-	-	-	-	-	-
29A	BS-4,8	Sarnafast Tube SBT-20 / Sarnabar	1,45	1,32	2,09	-	-	-	-	-	-	-	-	-	-
29B	BS-S-4,8	Sarnafast Tube SFT-50	1,28	1,66	1,66	-	-	-	-	-	-	-	-	-	-
30A	BS-S-4,8	Sarnafast Tube SBT-20 / Sarnabar	1,28	1,74	1,96	-	-	-	-	-	-	-	-	-	-
30B	Sarnafast SF-4,8	Sarnafast KT-82x40	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
31A	Sarnafast SF-4,8	Sarnafast DT-70x70	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
31B	Sarnafast SBF-6,0	Sarnafast Tube SFT-50	1,32	1,66	1,66	0,72	1,45	32	5,0	0,35	0,58	75			

¹⁾ effective setting depth (penetration length of threaded part) $\geq 18 \text{ mm}$

²⁾ effective setting depth (penetration length of threaded part) $\geq 22 \text{ mm}$

³⁾ effective setting depth (penetration length of threaded part) $\geq 18 \text{ mm}$; minimum density = 400 kg/m^3