

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
Rosenbergsaustraße 10
9435 HEERBRUGG
SCHWEIZ

Manufacturing plant

Factory 1 to factory 15, factory 18 to factory 23

This European Technical Assessment
contains

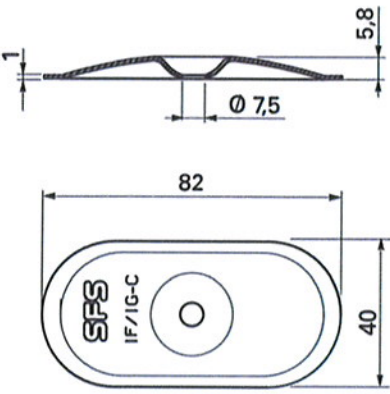
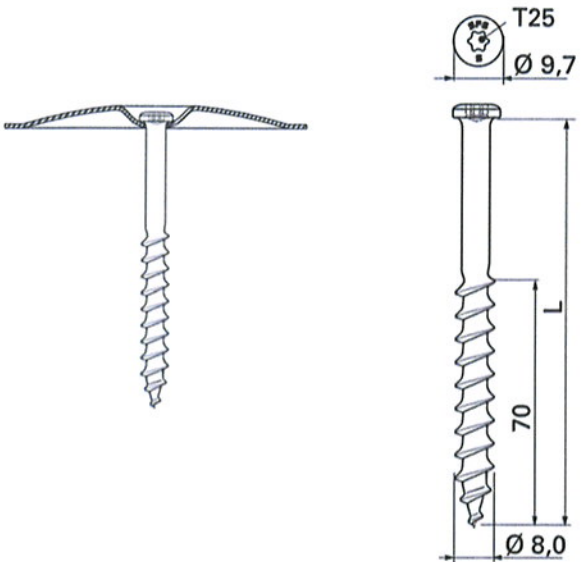
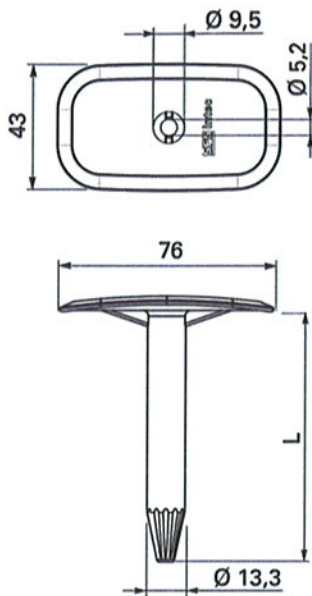
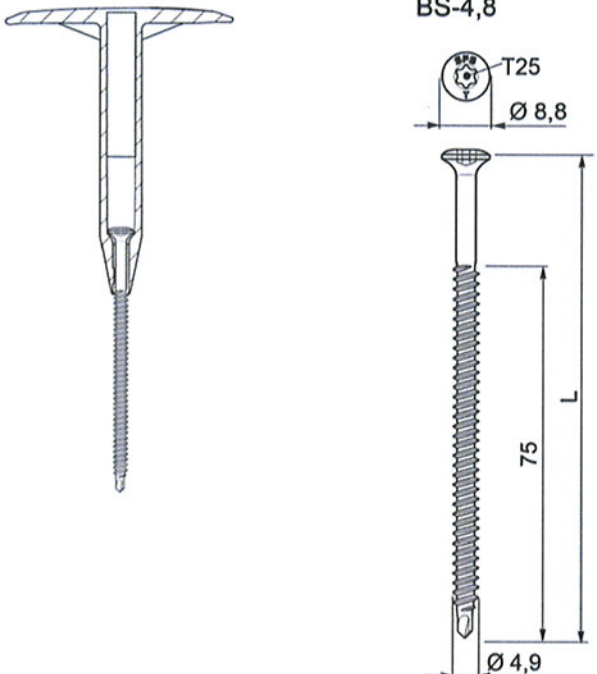
114 pages including 109 annexes which form an integral
part of this assessment

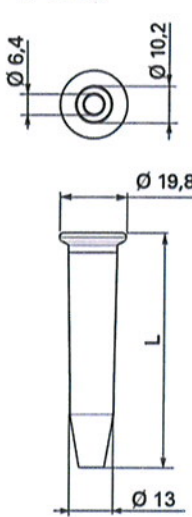
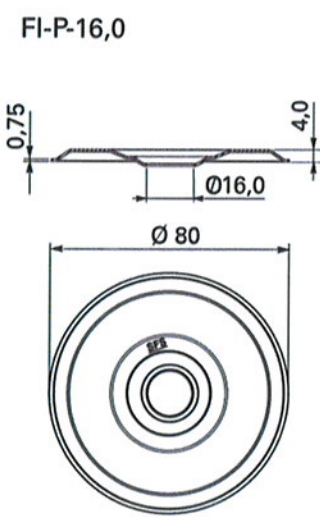

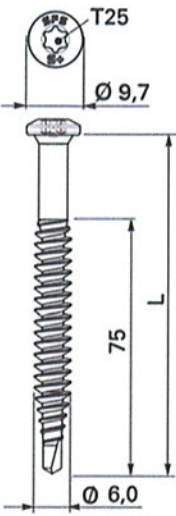
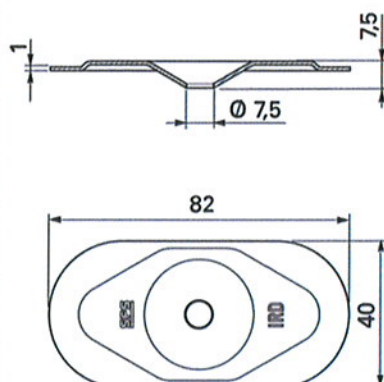
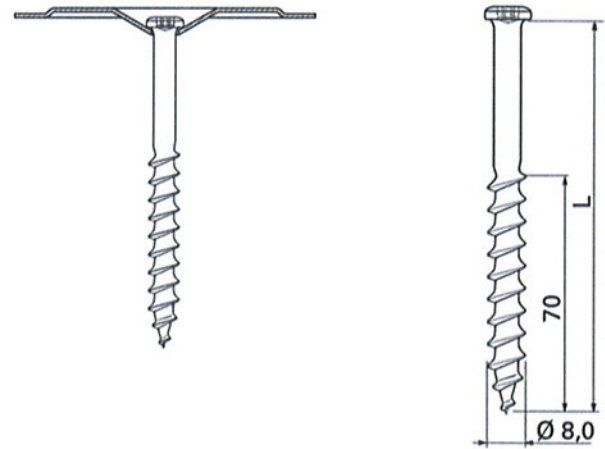
This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

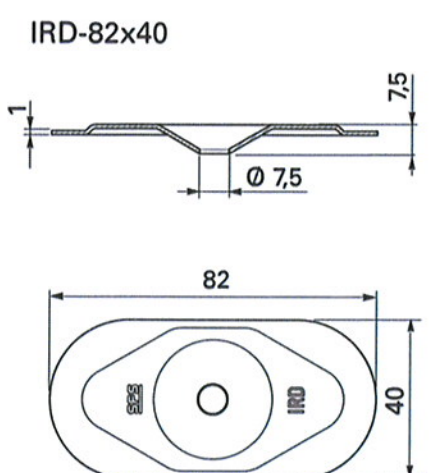
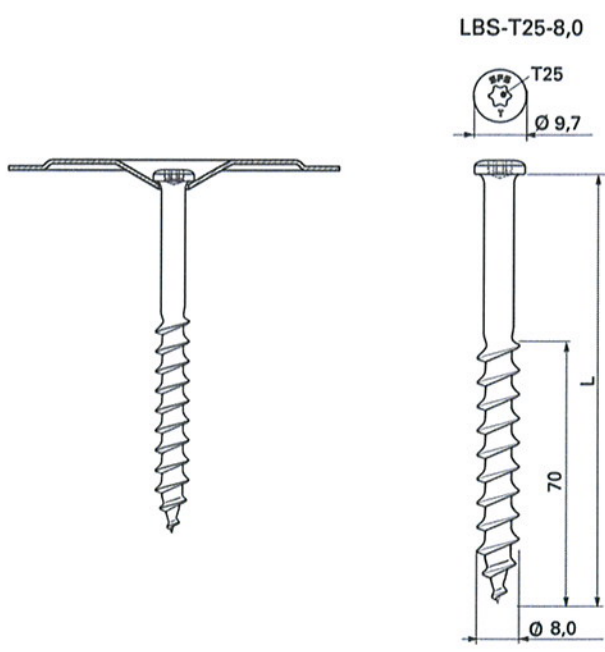
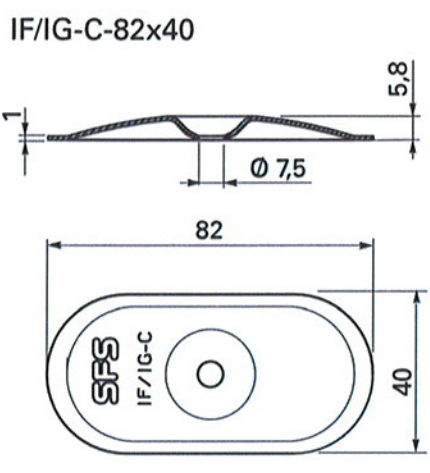
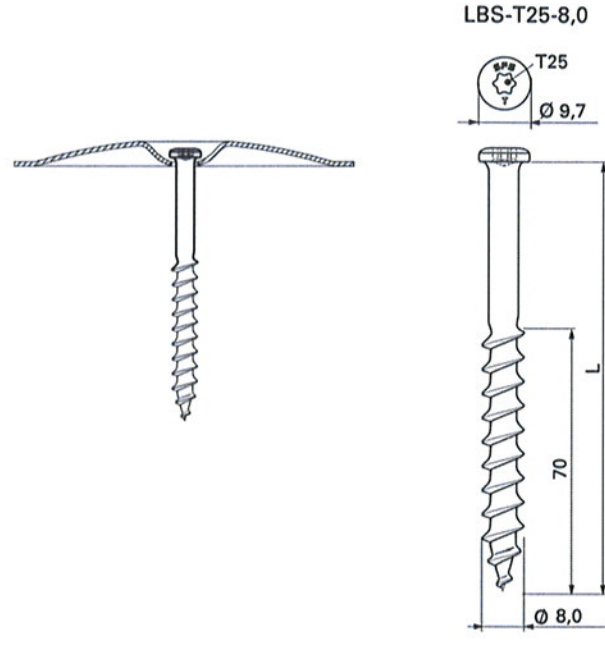
ETAG 006,
used as EAD according to Article 66 Paragraph 3 of
Regulation (EU) No 305/2011.

This version replaces

ETA-08/0262 issued on 25 April 2013

Combination 65A LBS-S-T25-8,0 / IF/IG-C-82x40	Combination 65B BS-4,8 / NPP
<p data-bbox="151 492 327 526">IF/IG-C-82x40</p>  <p data-bbox="598 1187 774 1220">LBS-S-T25-8,0</p> 	<p data-bbox="869 492 933 526">NPP</p>  <p data-bbox="1284 1321 1380 1355">BS-4,8</p> 
<p data-bbox="135 2094 526 2128">SFS intec flat roof fasteners</p>	<p data-bbox="1197 2094 1332 2128">Annex 65</p>

Combination 82A BS-S-6,1 / FI-P-16,0 / FI-R-20	Combination 82B LBS-S-T25-8,0 / IRD-82x40
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>FI-R-20</p>  </div> <div style="text-align: center;"> <p>FI-P-16,0</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>BS-S-6,1</p> </div> <div style="text-align: center;">  <p>LBS-S-T25-8,0</p> </div> </div>	<div style="text-align: center; margin-bottom: 20px;"> <p>IRD-82x40</p>  </div> <div style="text-align: center;">  <p>LBS-S-T25-8,0</p> </div>
<p>SFS intec flat roof fasteners</p>	<p>Annex 82</p>

<p>Combination 83A LBS-T25-8,0 / IRD-82x40</p>	<p>Combination 83B LBS-T25-8,0 / IF/IG-C-82x40</p>
<p>IRD-82x40</p>  <p>LBS-T25-8,0</p> 	<p>IF/IG-C-82x40</p>  <p>LBS-T25-8,0</p> 
<p>SFS intec flat roof fasteners Annex 83</p>	

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														
62A	TIF-N-6,3	RH45	-	-	-	1,54	1,54	20	5,0	-	-	-	-	-	
62B	TIA-T25-6,3	R75	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	
63A	TIA-T25-6,3	ST-25	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	
63B	BS-4,8	ST-25	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	
64A	TI-T25-6,3	ST-25	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	
						1,42	1,42	30							
65A	LBS-S-T25-8,0	IF/IG-C-82x40	-	-	-	-	-	-	-	0,93	1,44	60	-	-	
65B	BS-4,8	NPP	1,45	1,32	1,45	-	-	-	-	-	-	-	-	-	
66A	BS-S-4,8	NPP	1,28	1,45	1,45	-	-	-	-	-	-	-	-	-	
66B	BS-4,8	NPS	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	
68A	TI-T25-6,3	NPS	-	-	-	1,42	1,42	20	5,0	-	-	-	-	-	
						1,42	1,42	30							
68B	TIA-T25-6,3	Sarnabar Tube SBT-20 / Sarnabar	-	-	-	1,83	1,83	20	5,0	-	-	-	-	-	
69A	IWF-5,2	MW-40-F	1,35	1,94	2,20	-	-	-	-	-	-	-	-	-	
69B	IWF-5,2	MW-40-R	1,35	1,94	2,20	-	-	-	-	-	-	-	-	-	
70A	Sarnafast SBF-6,0	R75	1,32	1,42	1,42	0,72	1,42	32	5,0	0,35	0,58	75	-	-	
71A	BS-4,8	MW-40-F	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	
71B	BS-6,1	MW-40-F	1,32	2,16	2,11	0,72	1,45	32	5,0	0,35	0,58	75	-	-	
72A	BS-4,8	IR-82x40	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	
72B	BS-6,1	IRD-82x40	1,32	2,16	2,11	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

SFS intec flat roof fasteners

Annex 106

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 $t \geq 18$ mm ¹⁾	Structural Timber EN 338 / C24 $t \geq 22$ mm ²⁾	Plywood EN 636 $t \geq 18$ 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														
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 108