

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
Rosenbergsastraße 10
9435 HEERBRUGG
SCHWEIZ

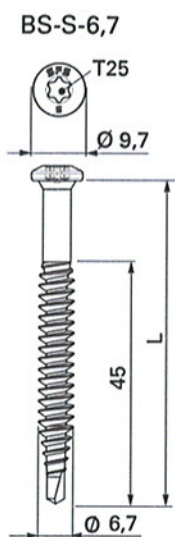
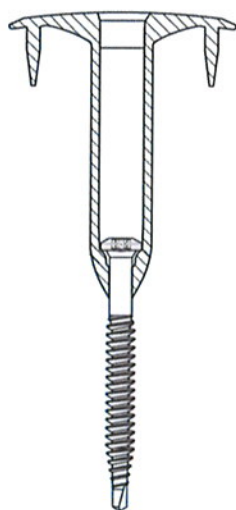
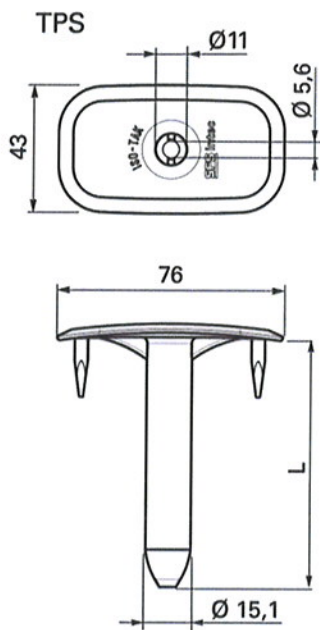
Factory 1 to factory 15, factory 18 to factory 23

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

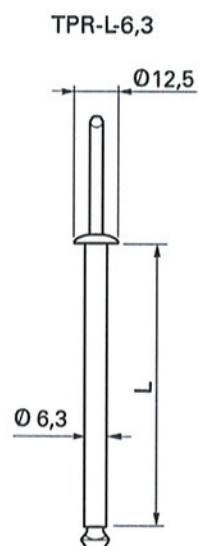
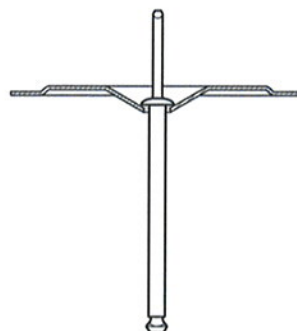
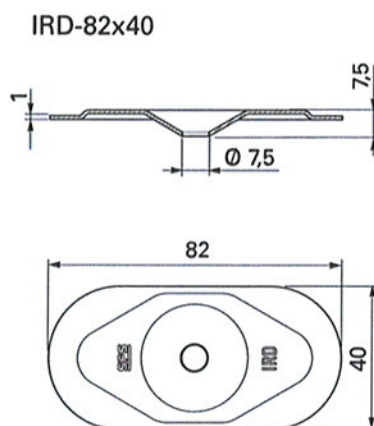
ETAG 006,
used as EAD according to Article 66 Paragraph 3 of
Regulation (EU) No 305/2011.

ETA-08/0262 issued on 25 April 2013

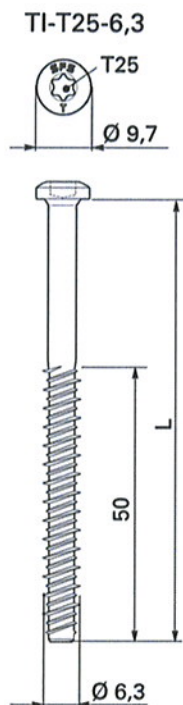
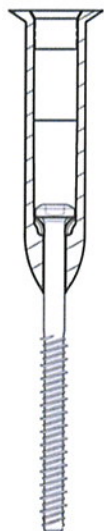
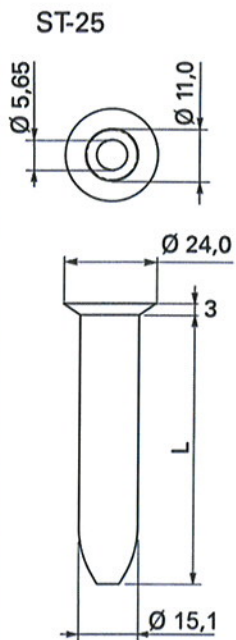
Combination 13A
BS-S-6,7 / TPS



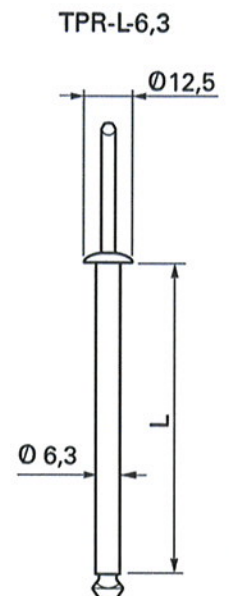
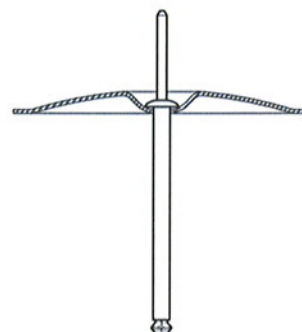
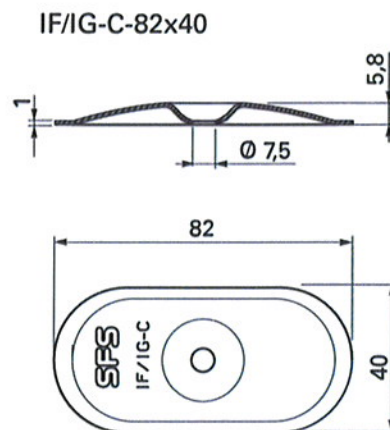
Combination 13B
TPR-L-6,3 / IRD-82x40



Combination 64A
TI-T25-6,3 / ST-25



Combination 64B
TPR-L-6,3 / IF/IG-C-82x40



SFS intec flat roof fasteners

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance N _{R,k} [kN] for metallic substructures															
			Steel sheets S320GD ¹⁾ EN 10346 t ≥ [mm]									Steel sheets S350GD EN 10346 t ≥ [mm]		Steel sheets S420GD EN 10346 t ≥ [mm]		Perforated Steel sheets S320GD EN 10346 t ≥ 0,75 mm	Aluminium sheets R _m ≥ 195 N/mm ² t ≥ 0,60 mm	
			0,50	0,63	0,70	0,75	0,80	0,88	1,00	1,25	1,50	0,70	1,00	0,65	0,75			
11A	BS-6,7	R75	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-	
11B	BS-6,7	TPS	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-	
12A	BS-S-6,7	R45	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-	
12B	BS-S-6,7	R75	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-	
13A	BS-S-6,7	TPS	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-	
13B	TPR-L-6,3	IRD-82x40	0,99 ²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	0,69 ²⁾	
28B	BS-4,8	Sarnafast Tube SFT-50	-	1,09	1,34	1,52	1,66	1,66	1,66	1,66	-	1,44	1,66	1,39	1,66	-	-	
29A	BS-4,8	Sarnabar Tube SBT-20 / Sarnabar	-	1,09	1,34	1,52	1,67	1,91	2,09	2,09	-	1,44	2,09	1,39	1,74	-	-	
29B	BS-S-4,8	Sarnafast Tube SFT-50	-	0,87	1,09	1,24	1,38	1,61	1,66	-	-	-	-	-	-	-	-	
30A	BS-S-4,8	Sarnabar Tube SBT-20 / Sarnabar	-	0,87	1,09	1,24	1,38	1,61	1,96	-	-	-	-	-	-	-	-	
30B	Sarnafast SF-4,8	Sarnafast KT-82x40	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-	
31A	Sarnafast SF-4,8	Sarnafast DT-70x70	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-	
31B	Sarnafast SBF-6,0	Sarnafast Tube SFT-50	-	1,17	1,38	1,53	1,63	1,66	1,66	1,66	-	1,58	1,66	1,57	1,66	-	-	
32A	Sarnafast SBF-6,0	Sarnabar Tube SBT-20 / Sarnabar	-	1,17	1,38	1,53	1,63	1,80	2,04	2,10	-	1,58	2,10	1,57	1,92	-	-	
35A	IF2-6,1	IRD-82x40	-	1,11	-	-	-	-	1,16	-	-	-	-	-	-	-	-	
35B	IF2-6,1	ID-70x70	-	1,11	-	-	-	-	1,16	-	-	-	-	-	-	-	-	
39A	BS-4,8	FI-P-6,8	-	1,09	1,34	1,52	1,67	1,91	2,27	2,29	-	1,44	2,27	1,39	1,74	-	-	
39B	BS-S-4,8	FI-P-6,8	-	0,87	1,09	1,24	1,38	1,61	1,96	-	-	-	-	-	-	-	-	
Annex 96	40B	BS-6,1	FI-P-6,8	-	1,17	1,38	1,53	1,63	1,80	2,04	2,83	-	1,58	2,19	1,57	1,92	-	-
	44B	Sarnafast SBF-6,0	FI-P-6,8	-	1,17	1,38	1,53	1,63	1,80	2,04	2,83	-	1,58	2,19	1,57	1,92	-	-

¹⁾ for steel sheets S280GD the values have to be reduced to 92%
²⁾ predrill-diameter = 7,0 mm

Combination	SFS intec flat roof fastener		Characteristic axial loading resistance N_{Rk} [kN] for metallic substructures														
			Steel sheets S320GD ¹⁾ EN 10346 $t \geq$ [mm]									Steel sheets S350GD EN 10346 $t \geq$ [mm]		Steel sheets S420GD EN 10346 $t \geq$ [mm]		Perforated Steel sheets S320GD EN 10346 $t \geq 0,75$ mm	Aluminium sheets $R_m \geq 195$ N/mm ² $t \geq 0,60$ mm
			0,50	0,63	0,70	0,75	0,80	0,88	1,00	1,25	1,50	0,70	1,00	0,65	0,75		
59A	Sarnafast SBF-S-6,0	Sarnafast KTL-82x40	-	1,21	1,47	1,66	1,81	2,04	2,39	-	-	-	-	-	-	-	-
59B	Sarnafast SBF-S-6,0	Sarnafast DTL-70x70	-	1,21	1,47	1,66	1,81	2,04	2,39	-	-	-	-	-	-	-	-
60A	Sarnafast SBF-S-6,0	IF/IG-C-82x40	-	1,21	1,47	1,66	1,81	2,04	2,39	-	-	-	-	-	-	-	-
60B	Sarnafast SBF-S-6,0	Sarnafast Tube SFT-50	-	1,21	1,47	1,66	1,66	1,66	1,66	-	-	-	-	-	-	-	-
61A	Sarnafast SBF-S-6,0	Sarnabar Tube SBT-20 / Sarnabar	-	1,21	1,47	1,66	1,81	2,04	2,10	-	-	-	-	-	-	-	-
61B	Sarnafast SBF-S-6,0	SBIW-70x70 / Sarnabar Tube SBT-20	-	1,17	1,38	1,53	1,63	1,80	2,04	2,10	-	1,58	2,10	1,57	1,92	-	-
63B	BS-4,8	ST-25	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
64B	TPR-L-6,3	IF/IG-C-82x40	0,99 ³⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	0,69 ³⁾
65B	BS-4,8	NPP	-	1,09	1,34	1,45	1,45	1,45	1,45	1,45	-	1,44	1,45	1,39	1,45	-	-
66A	BS-S-4,8	NPP	-	0,87	1,09	1,24	1,38	1,45	1,45	-	-	-	-	-	-	-	-
66B	BS-4,8	NPS	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
67A	BS-6,7	NPS	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87 ²⁾	-
67B	BS-S-6,7	NPS	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87 ²⁾	-
70A	Sarnafast SBF-S-6,0	R75	-	1,17	1,38	1,42	1,42	1,42	1,42	1,42	-	1,42	1,42	1,42	1,42	-	-
70B	BS3-4,8	RP48-3N	-	-	-	-	-	-	1,16	1,16	1,16	-	-	-	-	-	-
71A	BS-4,8	MW-40-F	-	1,09	1,34	1,52	1,67	1,91	2,27	2,60	-	1,44	2,27	1,39	1,74	-	-
71B	BS-6,1	MW-40-F	-	1,17	1,38	1,53	1,63	1,80	2,04	2,91	-	1,58	2,19	1,57	1,92	-	-
72A	BS-4,8	IR-82x40	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-
72B	BS-6,1	IRD-82x40	-	1,17	1,38	1,53	1,63	1,80	2,04	2,56	-	1,58	2,19	1,57	1,92	-	-
75A	Sarnafast SF-4,8	Sarnabar	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-

¹⁾ for steel sheets S280GD the values have to be reduced to 92%

²⁾ triangular array of holes, hole diameter 5,0 mm, distance of holes 12,5 mm

³⁾ predrill-diameter = 7,0 mm

SFS intec flat roof fasteners

Annex 98