

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

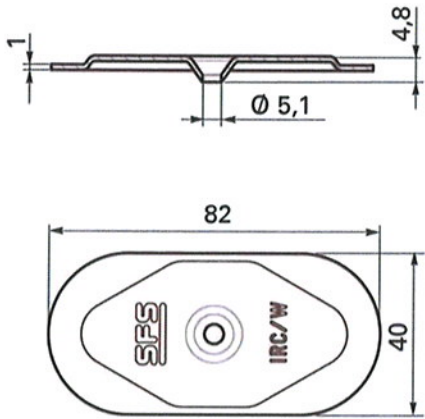
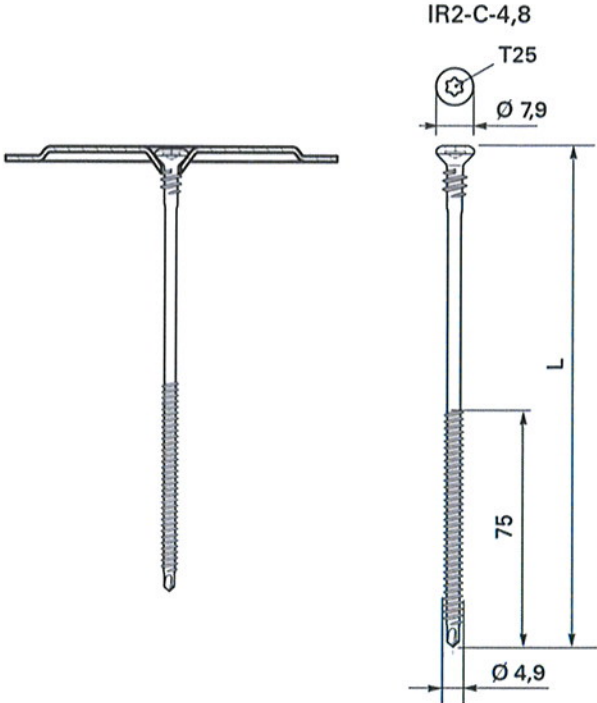
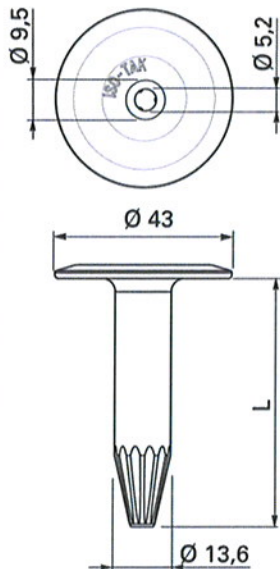
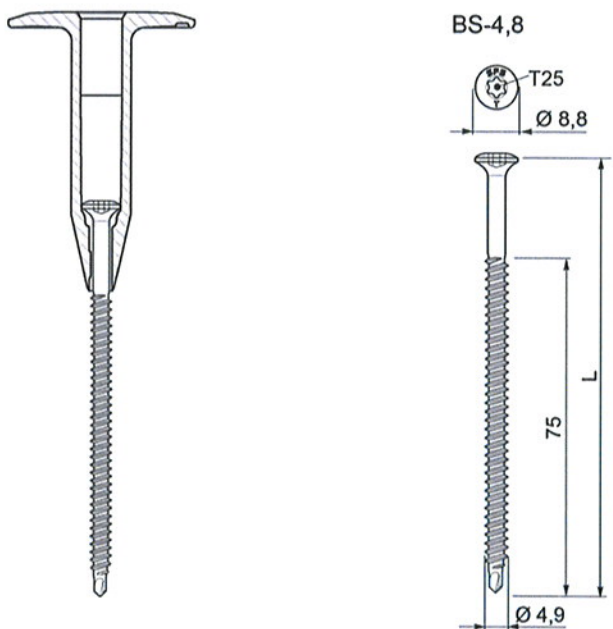
114 pages including 109 annexes which form an integral
part of this assessment

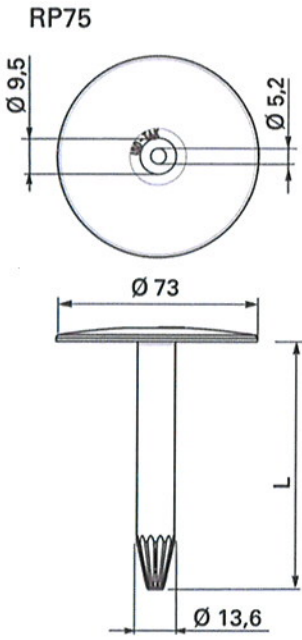
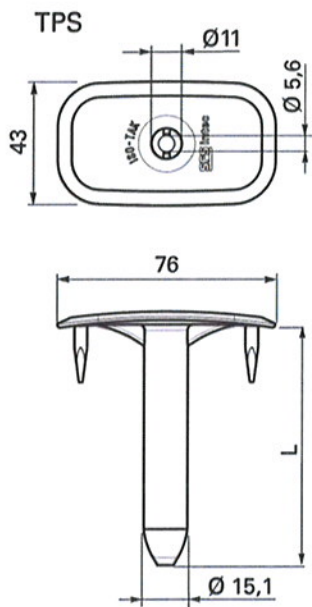
This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

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

This version replaces

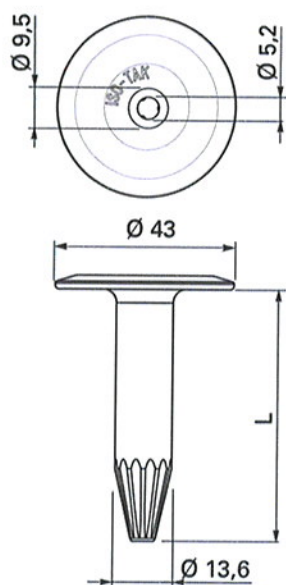
ETA-08/0262 issued on 25 April 2013

Combination 3A IR2-C-4,8 / IRC/W-82x40	Combination 3B BS-4,8 / RP45
IRC/W-82x40  	RP45  
SFS intec flat roof fasteners	Annex 3

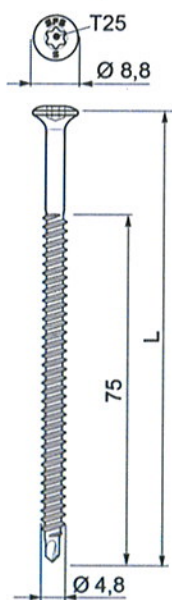
Combination 5A BS-4,8 / RP75	Combination 5B BS-4,8 / TPS
 RP75 Ø 9,5 Ø 5,2 Ø 73 L Ø 13,6  BS-4,8 T25 Ø 8,8 75 L Ø 4,9	 TPS Ø 11 43 Ø 5,6 76 L Ø 15,1  BS-4,8 T25 Ø 8,8 75 L Ø 4,9
SFS intec flat roof fasteners	
Annex 5	

Combination 8A
BS-S-4,8 / RP45

RP45

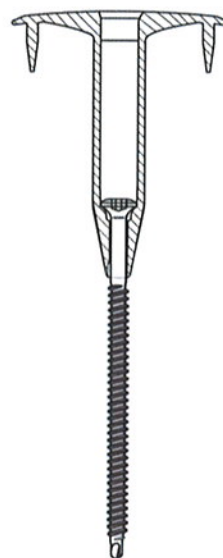
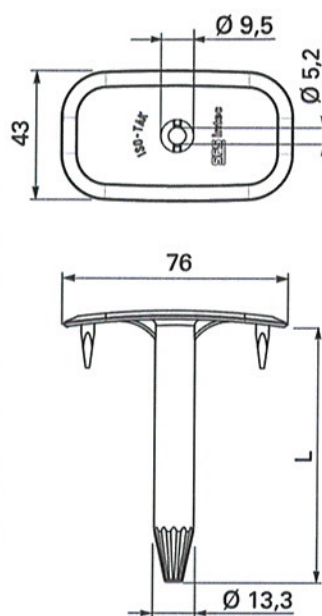


BS-S-4,8

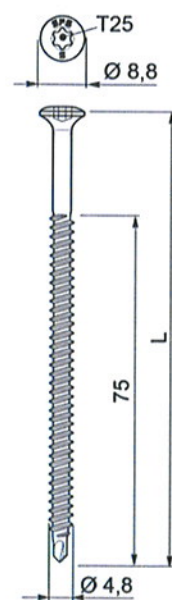


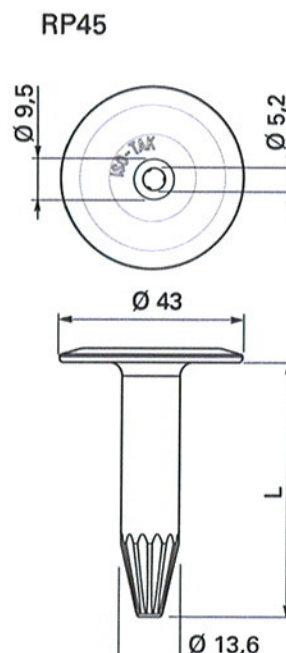
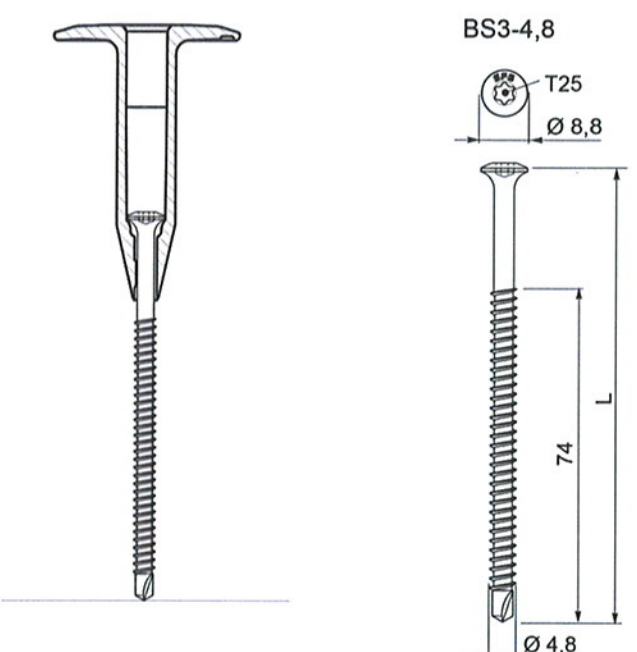
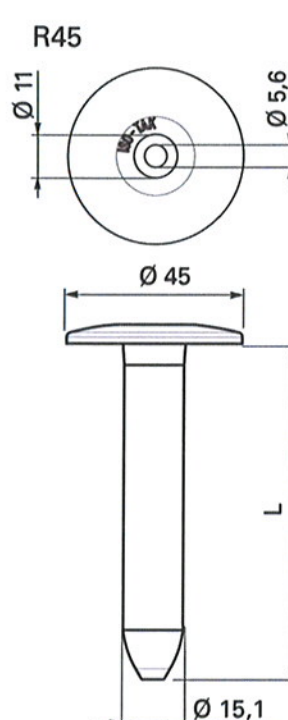
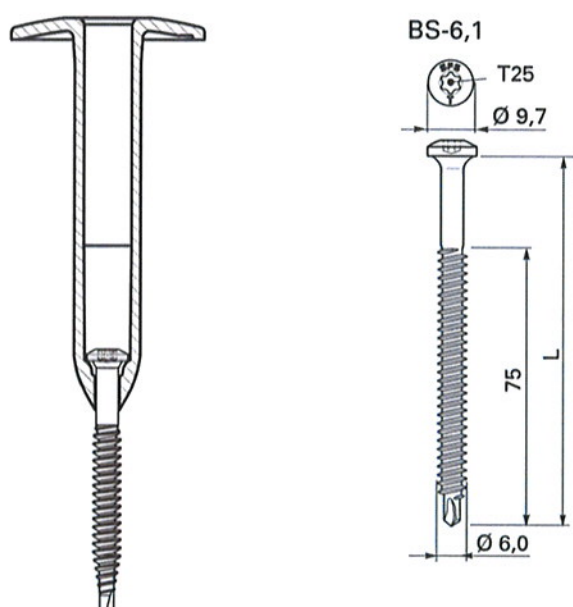
Combination 8B
BS-S-4,8 / TPP

TPP



BS-S-4,8



Combination 9A BS3-4,8 / RP45	Combination 9B BS-6,1 / R45
RP45  	R45  
SFS intec flat roof fasteners	
Annex 9	

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 $t \geq 0,75 \text{ mm}$	Aluminium sheets $R_m \geq 195 \text{ N/mm}^2$ $t \geq 0,60 \text{ mm}$
			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		
1A	IR2-4,8	IR-82x40	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-
1B	IR2-4,8	IF-70x70	-	1,09	1,34	1,52	1,67	1,91	2,27	3,15	-	1,44	2,27	1,39	1,74	-	-
2A	IR2-S-4,8	IR-82x40	-	0,90	1,13	1,29	1,43	1,62	1,97	-	-	-	-	-	-	-	-
2B	IR3-4,8	IR-82x40	-	-	-	-	-	-	1,26	2,00	2,63	-	-	-	-	-	-
3A	IR2-C-4,8	IRC/W-82x40	-	1,09	1,34	1,52	1,67	1,91	2,27	2,83	-	1,44	2,27	1,39	1,74	-	-
3B	BS-4,8	RP45	-	1,09	1,23	1,23	1,23	1,23	1,23	1,23	-	1,23	1,23	1,23	1,23	-	-
4A	BS-4,8	R45	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
4B	BS-4,8	R75	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
5A	BS-4,8	RP75	-	1,09	1,23	1,23	1,23	1,23	1,23	1,23	-	1,23	1,23	1,23	1,23	-	-
5B	BS-4,8	TPS	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
6A	BS-4,8	TPP	-	1,09	1,34	1,52	1,67	1,91	2,19	2,19	-	1,44	2,19	1,39	1,74	-	-
6B	BS-4,8	R48-3N	-	1,09	1,34	1,38	1,38	1,38	1,38	1,38	-	1,38	1,38	1,38	1,38	-	-
7A	BS-4,8	RP48-3N	-	1,09	1,16	1,16	1,16	1,16	1,16	1,16	-	1,16	1,16	1,16	1,16	-	-
7B	BS-4,8	SH-18/65 / Protan steelbar	-	1,03	1,03	1,03	1,03	1,03	1,03	1,03	-	1,03	1,03	1,03	1,03	-	-
8A	BS-S-4,8	RP45	-	0,87	1,09	1,23	1,23	1,23	1,23	-	-	-	-	-	-	-	-
8B	BS-S-4,8	TPP	-	0,87	1,09	1,24	1,38	1,61	1,96	-	-	-	-	-	-	-	-
9A	BS3-4,8	RP45	-	-	-	-	-	-	1,23	1,23	1,23	-	-	-	-	-	-
9B	BS-6,1	R45	-	1,17	1,38	1,42	1,42	1,42	1,42	1,42	-	1,42	1,42	1,42	1,42	-	-
10A	IFP2-6,7	IRP-82x40	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-
10B	BS-6,7	R45	-	-	-	-	-	-	-	-	-	-	-	-	-	0,87	-

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

SFS intec flat roof fasteners

Annex 95

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													
1A	IR2-4,8	IR-82x40	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
1B	IR2-4,8	IF-70x70	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
2A	IR2-S-4,8	IR-82x40	1,28	1,74	1,94	-	-	-	-	-	-	-	-	-	-
3A	IR2-C-4,8	IRC/W-82x40	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
3B	BS-4,8	RP45	1,23	1,23	1,23	-	-	-	-	-	-	-	-	-	-
4A	BS-4,8	R45	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	-
4B	BS-4,8	R75	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	-
5A	BS-4,8	RP75	1,23	1,23	1,23	-	-	-	-	-	-	-	-	-	-
5B	BS-4,8	TPS	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	-
6A	BS-4,8	TPP	1,45	1,32	2,18	-	-	-	-	-	-	-	-	-	-
6B	BS-4,8	R48-3N	1,38	1,32	1,38	-	-	-	-	-	-	-	-	-	-
7A	BS-4,8	RP48-3N	1,16	1,16	1,16	-	-	-	-	-	-	-	-	-	-
7B	BS-4,8	SH-18/65 / Protan steelbar	1,03	1,03	1,03	-	-	-	-	-	-	-	-	-	-
8A	BS-S-4,8	RP45	1,23	1,23	1,23	-	-	-	-	-	-	-	-	-	-
8B	BS-S-4,8	TPP	1,28	1,74	1,96	-	-	-	-	-	-	-	-	-	-
9B	BS-6,1	R45	1,32	1,42	1,42	0,72	1,42	32	5,0	0,35	0,58	75			
14A	IG-6,0	IRD-82x40	1,31	1,43	2,49	-	-	-	-	-	-	-	-	-	-
14B	TS-T25-6,0	R45	1,31	1,42	1,42	0,44	0,89	32	5,0	1,07	1,42	75	-	-	-
						1,42	1,42	50							
15A	IWF-5,2	MW-40-FH	1,35	1,74	1,74	-	-	-	-	-	-	-	-	-	-

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