



SABIANA
IL CLIMA AMICO

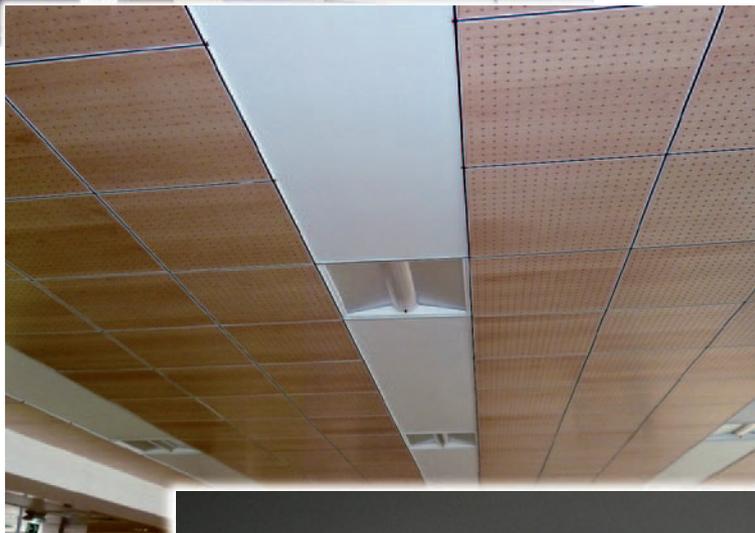
A leading brand of  **AFG**



Pulsar Radiant Panels

The **PULSAR Sabiana** ceiling mounted radiant panels are produced in 4 sizes, with a width of 600 mm and a length between 1.2 and 3 m, in 2 standard colours, and others upon request. The panel has a very elegant design, perfectly matching the false ceiling (it is also available in a free hanging version identified by the letter "W"), features simple maintenance, very long life and can be connected in series or in parallel to others panels using flexible pipes supplied upon request.

The panels feature a very interesting construction: modern welding units, without leaving any visible traces, press the pipes into the thick electro-galvanised steel panel, guaranteeing an optimum heat output and a uniform temperature across the entire radiating surface. The product is ideal for many types of environment, especially schools and hospitals.



The panel can be supplied with hot or cold water: in the summer, it should be used together with a primary air system, as only sensible cooling is provided.

The heating capacity values have been certified by the leading European laboratory in the sector (University of Stuttgart), applying the European EN 14037 standard.

The painting process, using an epoxy polyester resin powder coat dried in a furnace at 180°C, ensures high resistance over time, in compliance with the international standard ISO 2409, certified by tests performed at the Milan Polytechnic University.



Pulsar Radiant Panels

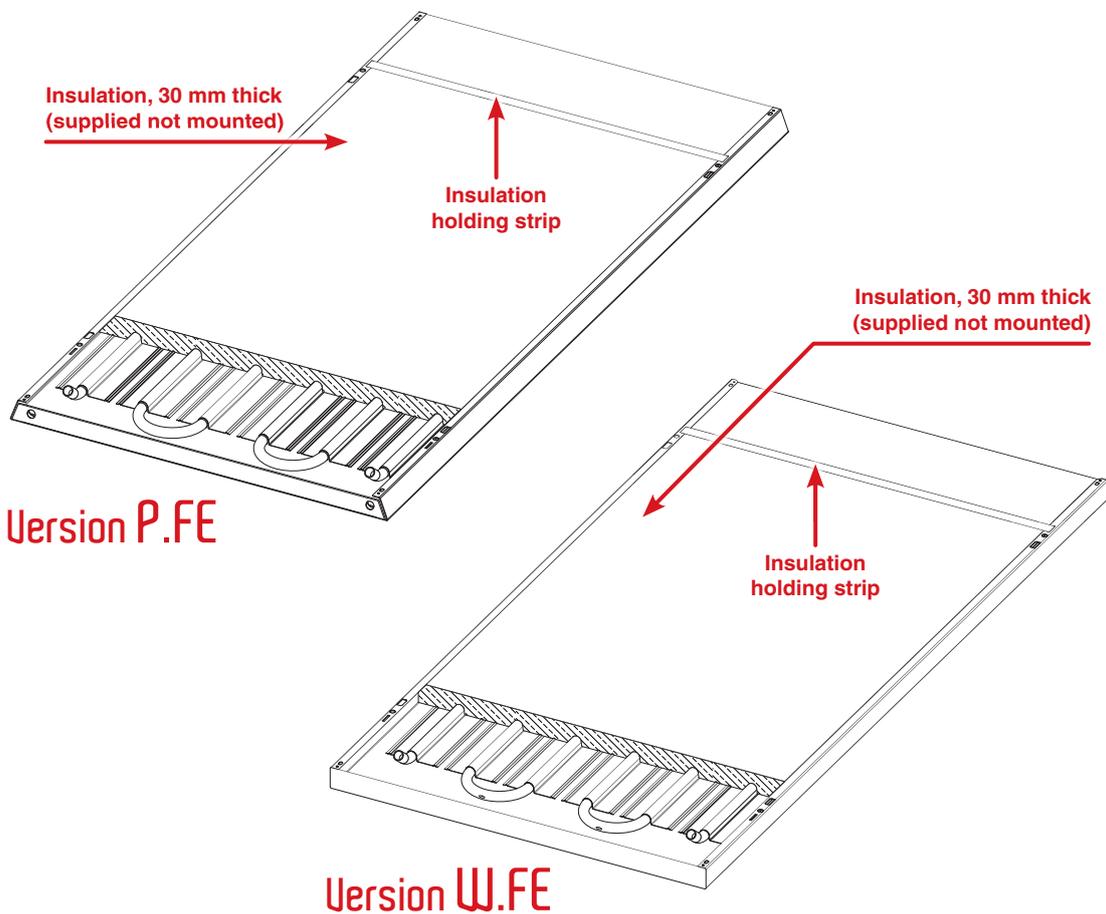
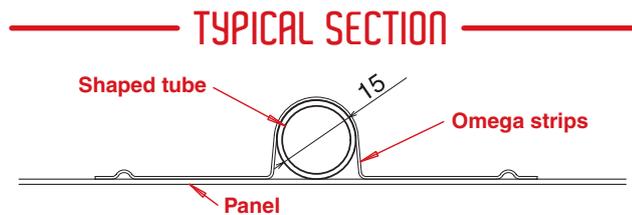
Technical description:

- The radiant panels are supplied in four sizes, which can be perfectly integrated into any false ceiling.
- Indeed, the lengths of 1.20, 1.80, 2.40 and 3.00 m ensure optimum integration into 600 x 600 mm modular ceilings, the standard dimension for false ceiling panels in Europe.
- The visible side is perfectly flat, meaning that the Pulsar radiant panels can match all types of false ceiling panels available on the market.
- As standard, the panels are supplied in the colour RAL 9016, with a satin finish created by an epoxy-polyester coat dried in a furnace at 180°C. Other RAL colours are also available for the architect to choose from.
- The radiant panels are made of a radiating galvanized steel plate, 1 mm thick.

On the panel is fixed a galvanized steel pipe with 15 mm of external diameter, 1.2 mm thick. The galvanized omega strips welded to the panels hold the correct spacing of the tubes and secure the best surface contact between the tube and the panel.

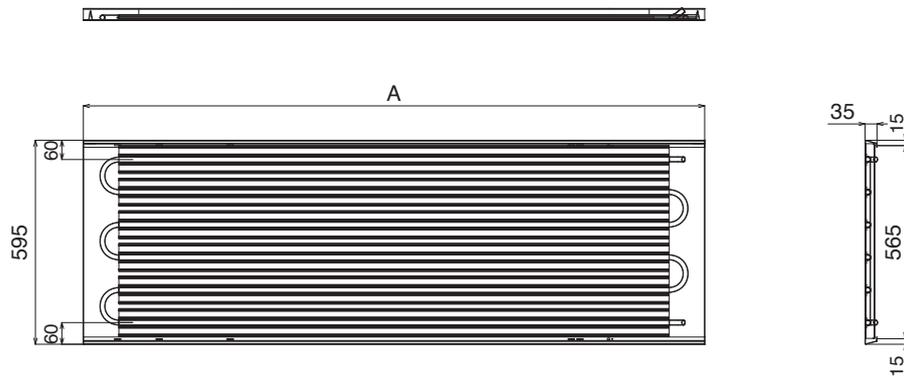


- The paint complies with the European Standard 76/769/EEC.
- Fire reaction class: A1.
- Emission of the radiant surface $\epsilon = 0,96$.
- The radiant panels are supplied with an insulating layer of mineral wool (30 mm thick) protected by an aluminium sheet (25 micron thick) to be mounted on the top of the panel.
- The insulation is in Class A1 according to EN 13501-1 standard.
- Thermal conductivity 0,037 W/mK (according to UNI CTI 7745 and UNI FA 112 standard).
- Density 14 kg/m³.
- Thermal resistance 0,81 m²K/W.

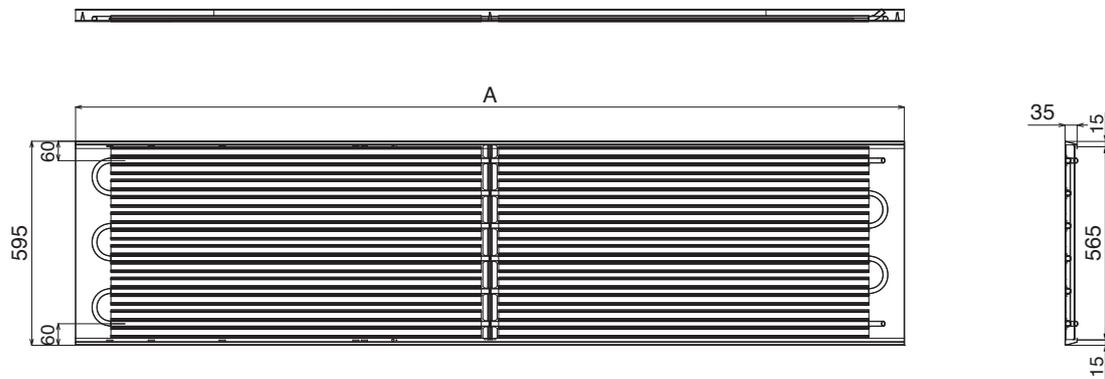


Dimensions, Weight, Water content

Models 1 and 2



Models 3 and 4



MODEL	WIDTH	WEIGHT	WATER CONTENT
	A (mm)	kg	Litres
P.FE 1	1195	13,8	1,3
P.FE 2	1795	20,7	2,0
P.FE 3	2395	27,6	2,8
P.FE 4	2995	34,5	3,5
W.FE 1	1234	13,8	1,3
W.FE 2	1858	20,7	2,0
W.FE 3	2482	27,6	2,8
W.FE 4	3106	34,5	3,5

THERMAL EMISSIONS IN ACCORDANCE WITH THE EUROPEAN STANDARD EN 14037-1

Δt_m	EMISSION										
°C	W/ml										
89	582		75	478		61	376		47	279	
88	574		74	470		60	369		46	272	
87	567		73	463		59	362		45	265	
86	559		72	456		58	355		44	258	
85	552		71	448		57	348		43	251	
84	544		70	441		56	341		42	245	
83	537		69	434		55	334		41	238	
82	529		68	427		54	327		40	231	
81	522		67	419		53	320		39	225	
80	515		66	412		52	313		38	218	
79	507		65	405		51	306		37	211	
78	500		64	398		50	299		36	205	
77	492		63	391		49	292		35	198	
76	485		62	383		48	285		34	192	

COOLING EMISSIONS IN ACCORDANCE WITH THE EUROPEAN STANDARD EN 14037-4

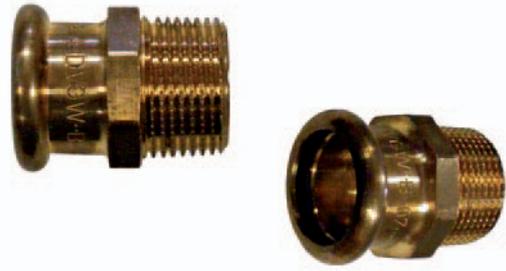
Δt_m	COOLING EMISSION			
	WITH INSULATION		WITHOUT INSULATION	
	°C	W/ml	W/m ²	W/ml
5	24	40	33	56
6	29	49	40	68
7	35	58	48	80
8	40	68	55	92
9	46	77	62	105
10	52	87	70	118
11	57	96	78	130
12	63	106	85	143
13	69	116	93	156
14	75	126	101	169
15	81	136	108	182

Δt_m = difference between the average water temperature and the room temperature.



Accessories

Pressfittings (Geberit)

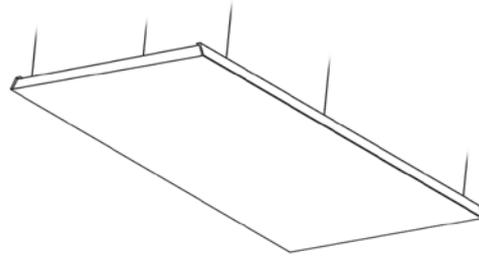


Screw fittings (Caleffi)



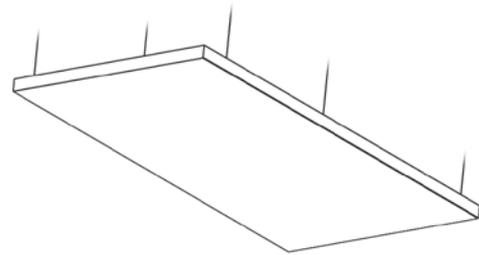
Non-active aesthetic panel "P" type (installed within false ceilings)

The aesthetic panels are used when the active panels do not need to be installed and when, for aesthetic reasons or local specifications, a non-active panel has to be installed to complete a strip. Can be cut to measure on site.



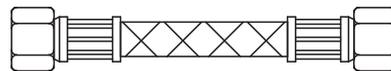
Non-active aesthetic panel "W" type (not installed within false ceilings)

The aesthetic panels are used when the active panels do not need to be installed and when, for aesthetic reasons or local specifications, a non-active panel has to be installed to complete a strip. Can be cut to measure on site.



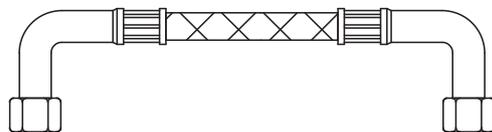
Straight flexible pipe

1/2" female fittings.



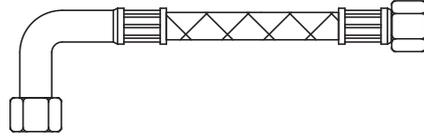
90° flexible pipe

1/2" female fittings.

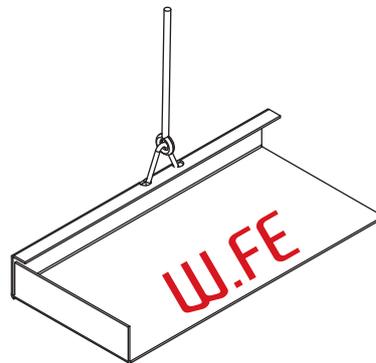
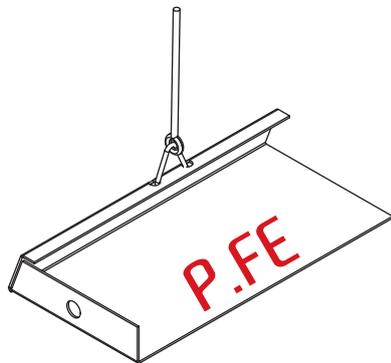


Accessories

90° / Straight flexible pipe
1/2" female fittings.



Hanging systems



The descriptions and illustrations provided in this publication are not binding: Sabiana reserves the right, whilst maintaining the essential characteristics of the types described and illustrated, to make, at any time, without the requirement to promptly update this piece of literature, any changes that it considers useful for the purpose of improvement or for any other manufacturing or commercial requirements.



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