

# ACOUSTIC SPLITTER

## SONIE BP/ HIGH PERFORMANCE INDUSTRY

**SONIE BP** acoustic splitters are designed to be installed in HVAC ductworks and enable to attenuate the noise generated by the ventilation system.

The high-performance SONIE BP acoustic splitters are installed in airflow networks and help reduce noise disturbances generated by the ventilation system.

The acoustic splitter SONIE BP is manufactured from :

- A rounded edge aerodynamic frame including stiffening groove deformations
- A 40 kg/m<sup>3</sup> sound proofing material
- A protection with anti-erosion glass silk and perforated steel sheet
- Assembly with rivets



### CODIFICATION

**X** —————> **B** – Splitter

**Y** —————> **P** – Industry

### CONSTRUCTION

Frame design include a rounded edges twchich reduce pressure losses by up to 30% compared to a straight edge on small thicknesses.

Laboratory assessment no. 052363-A, issued by the CERIB laboratory, demonstrated that the splitters held up well at a temperature of 400°C for 2 hours

		Caractéristiques	Options
Frame	Material	Galvanized steel sheet with groovings	304L and 316L stainless steel
	Thickness	0.5 mm	1.0, 1.2, or 1.5 mm
	Assembly	Zinc-plated steel rivets	Stainless steel rivets
	Width	50, 100, 150, 200 or 300 mm	-
	Stiffener	For a surface area H x L over 1 m <sup>2</sup>	-
Sound proofing material	Material	Mineral wool panel and water-repellant Fire classification A1-s1-d0 (M0)	-
	Density	40 kg/m <sup>3</sup> , +/- 10%	-
	Protection	Anti-erosion fiberglass silk layer on both faces (on request for 50 mm thick splitter)	Anti-erosion fiberglass fabric on both faces (on request for 50 mm thick splitter)
Protection	Material	R5T7 perforated galvanised steel sheet on both faces (on request for 50 mm thick splitter)	304L and 316L stainless steel
	Thickness	0,6 mm	-

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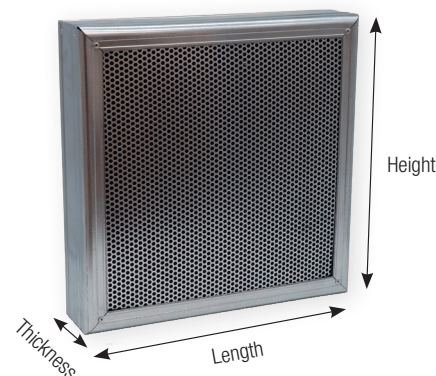
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### DIMENSIONS

The splitters are made in one or several units depending on the dimensions.

A one unit construction shall respect the following criteria :

Length in mm	2500
Height in mm	2500
Thickness	50,100, 150, 200 or 300 mm
Surface max.	3 m <sup>2</sup>
Weight max.	50 kg



For larger dimensions, acoustic splitters are provided in several units with mounting accessories.

### WEIGHT (KG)

		Length (mm)						
Height (mm)	Thickness (mm)	600	900	1200	1500	1800	2100	2400
600	100	6	8	11	13	16	18	21
	200	8	12	15	19	22	26	29
1200	100	11	16	20	25	30	34	39
	200	15	21	28	34	41	47	53
1800	100	16	23	30	36	43	50	57
	200	22	31	41	50	59	68	78

### APPLICATION

Sonie BP splitter is recommended for sound traps exposed to high temperatures and high air velocity (up to 20 m/s)

### PERFORMANCES

SONIE BP splitter acoustic performances (static attenuation and dynamic regeneration) and pressure losses are the same than SONIE BS splitter. Please refer to FT BS for detailed measures

On request, our acoustic engineers assist you by conducting a dynamic acoustic study of your installation to determine the optimal solution.

- Acoustic splitter grande vitesse d'air
- Aerodynamic frame with a rounded profile made of galvanized steel sheet, reinforced by grooving
- Soundproofing in one block rockwool panel with a medium-density of 40 kg/m<sup>3</sup>, inorganic, rot proof and water-repellent
- Protection with perforated galvanised steel sheet R5T7 on both faces allowing an air velocity up to 20 m/s in air ways