

# ACOUSTIC SPLITTER

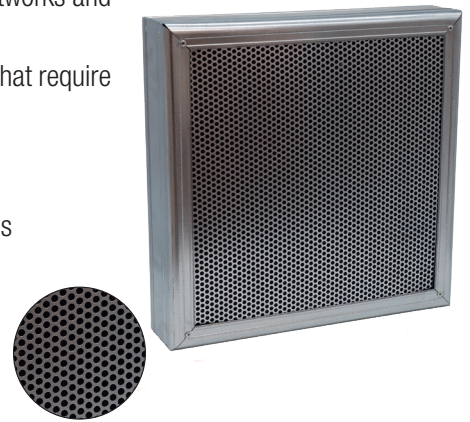
## SONIE BP+/ HIGH PERFORMANCE INDUSTRY

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

The **SONIE BP+** acoustic splitter is particularly suited for industrial applications that require high mechanical resistance to high air velocities.

The acoustic splitter SONIE BP+ is manufactured from:

- A rounded edge aerodynamic frame including stiffening groove deformations
- A 24 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  
**Z** ———> **+** – High performance insulation



#### DID YOU KNOW ? BP+ IT IS :

- SAFEGUARDED CARBON BALANCE : glass wool is produced with 60% recycled glass. Its carbon footprint is much lower than that of rock wool
- PERFORMANCES : better low-frequency attenuation for several configurations
- MORE RESISTANT : more flexible insulation without the risk of tearing the fiberglass silk layer
- EASY INSTALLATION : easier to handle, 35% weight reduction compared to rockwool

### 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

		Characteristic	Options
Cadre	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
	Stiffener	For a surface area H x L over 1 m <sup>2</sup>	-
Sound proofing material	Material	Glass wool panel and water-repellant Fire classification A2-S1-D0 (M0)	-
	Density	24 kg/m <sup>3</sup> , +/- 10%	-
	Protection	Anti-erosion fiberglass silk layer on both faces (on one side only for 50 mm 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	

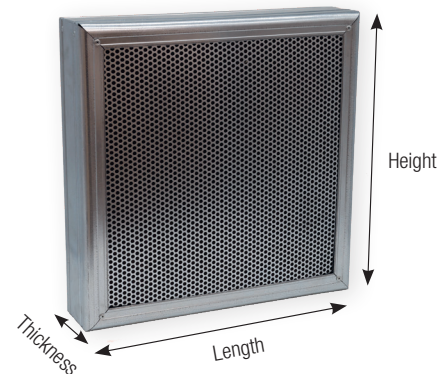
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### DIMENSIONS

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 ou 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)

Height (mm)	Thickness (mm)	Length (mm)						
		600	900	1200	1500	1800	2100	2400
600	100	5	7	10	12	14	16	19
	200	7	10	13	16	19	22	24
1200	100	10	14	18	22	26	30	34
	200	13	18	23	28	34	39	44
1800	100	14	20	26	32	38	44	50
	200	19	26	34	41	49	56	64

### 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 24 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