

ACOUSTIC SPLITTER

1.1.2

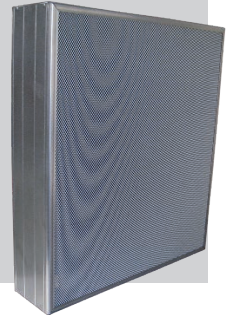
SONIE BD

ACOUSTICS

Acoustic splitter 400°C/2h

The SONIE BD acoustic splitter is made of :

- An aerodynamic frame including groove stiffening deformation.
- A 50 kg/m³ sound insulation
- A protection with anti-erosion glass silk layer
- Spread metal sheet covering both faces of the splitter
- Assembly with rivets



The new frame generation includes rounded angle frame, reducing pressure loss by 30% compared with standard splitters.

For smoke exhaust process :
Certified 400°C / 2h

The fire resistance of the SONIE BD splitter has been tested for 100, 150, 200 and 300 mm thickness. The test n° 07-E-375, carried out by the Efectis laboratory, showed the good resistance of splitters at a temperature of 400°C during 2h.

CONSTRUCTION

		Characteristics	Options
Frame	Material	Galvanized steel sheet	Stainless steel
	Thickness	0,8 mm	1 mm, 1,2 mm
	Width	100, 150, 200 or 300 mm	
	Assembly	Zinc steel rivets	Stainless steel rivets
	Stiffener	For a surface over 1 m ²	
Sound proofing material	Material	Mineral wool panel Fire classification A1	
	Density	50 kg/m ³	
	Protection	Anti-erosion glass silk layer on both sides	Other on request
Protection	Material	Spread metal sheet in galvanized steel	Stainless steel
	Thickness	0,6 mm	

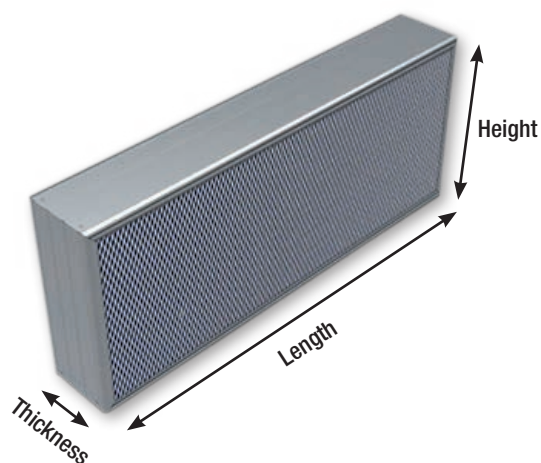
ACOUSTIC SPLITTER

SONIE BD

DIMENSIONS

The splitters are made in one or several units depending on the dimensions.
A one unit construction shall respect the following criteria:

Length max. (mm)	2 500
Height max. (mm)	2 500
Surface max.	3 m ²
Weight max.	50 kg



APPLICATIONS

The SONIE BD splitter is recommended for sound attenuators subjected to high temperature installations as well as important air way velocity (up to 20 m/s).

PERFORMANCES

SONIE BD splitter acoustic and aeraulic performances (insertion loss, regeneration and pressure loss) are similar to the SONIE BS splitter's. Please refer to FT 1.1.1A for details.

Specifications:

- Acoustic splitter 400°C/2h
- A rounded aerodynamic frame in galvanized steel sheet, with grooving.
- Sound proofing material with a 50 kg/m³ density, inorganic, rot-resistant and water repellent.
- Spread metal protection on both sides allowing an air velocity of 20 m/s.