

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	0,8 mm	

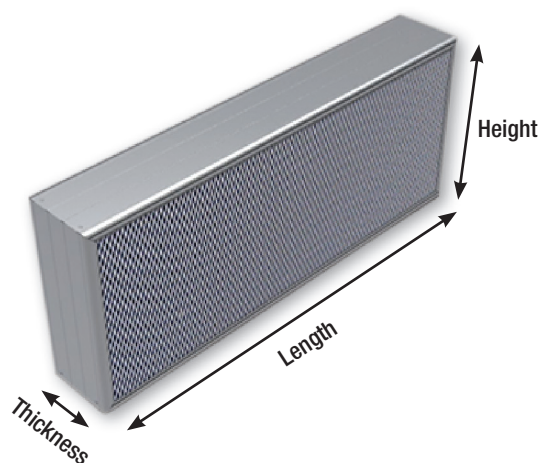
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DIMENSIONS

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

Length 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.