

ACOUSTIC SPLITTER

1.1.2+

SONIE BD+

ACOUSTICS

400°C/2h acoustic splitter BD+

- A 24 kg/m³ sound proofing material in mineral wool
- An aerodynamic frame including groove stiffening deformation.
- A protection with anti-erosion glass silk layer
- A protection in spread metal sheet
- Assembly with rivets



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

The fire resistance of the SONIE BD+ splitter has been tested for 100, 150, 200 & 300 mm thickness. The test n° 12-G-310, carried out by the laboratory Efectis, showed the good behavior of splitters to a temperature of 400°C for 2 hours.

CONSTRUCTION

		Characteristics	Options
Frame	Material	Galvanized steel sheet with groovings	Stainless steel
	Thickness	0,8 mm	1 mm & 1,2 mm
	Width	100, 150, 200 or 300 mm	
	Assembly	Zincated steel rivets	Stainless steel
	Stiffener	For a surface over 1m ²	
Sound proofing material	Material	Mineral wool panel Fire classification M0 / A2-S1-D0	
	Density	24 kg/m ³	Other on request
	Protection	Anti-erosion fiberglass silk layer on both faces	
Anti-erosion protection	Material	Spread metal sheet in galvanized steel	Stainless steel
	Thickness	0,8 mm	

Information and data can not be considered as contractual. Design and data changes may occur without notice during F2A's continuous product development.

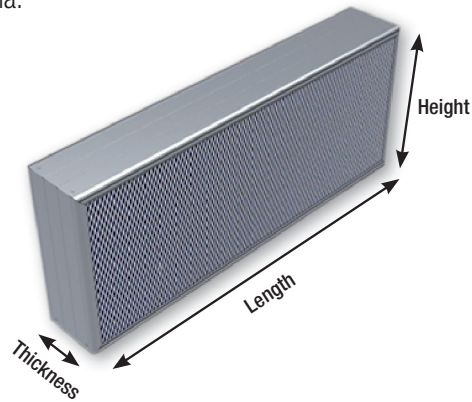
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DIMENSIONS

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



WEIGHT (KG)

Width	H	L	600	900	1200	1500	1800	2100	2400
100	600		5	6	8	10	12	13	15
200			7	10	12	15	17	20	22
100	900		6	9	11	13	16	18	20
200			10	13	16	20	23	26	30
100	1200		8	11	14	17	20	22	25
200			12	16	20	24	29	33	37
100	1500		10	13	17	20	24	27	31
200			15	20	24	29	34	39	44
100	1800		12	16	20	24	28	32	36
200			17	23	29	34	40	46	51

APPLICATIONS

The SONIE BD+ splitter is recommended for sound attenuators used in high temperature and high air velocity conditions (up to 20 m/s).

PERFORMANCES

The acoustic and aeraulic performances of the SONIE BD+ (attenuation, regeneration & pressure drop) are the same as the SONIE BS+. Please refer to FT 1.1.1+ for details.

Specifications :

- Acoustic splitter 400°C/2h
- A rounded aerodynamic frame in galvanized steel, grooving reinforced.
- Soundproofing panel of mineral wool with a density of 24 kg/m³, inorganic, rot-proof and water-repellant.
- Spread metal protection on both faces to reach 20 m/s in the airways.