

LFAS

Rectangular silencer
with circular connection



SILENCERS



17/03/2022





Rectangular silencer with circular connection LFAS



Quick facts

- Sizes 100 mm to 400 mm
- Also available with baffle in size 250 mm to 400 mm
- Two standard lengths, 500 or 1000 mm
- Air tightness class D
- Type approved fire class
- Can be manufactured in many special versions

Use

Rectangular silencer with circular connection LFAS is intended for attenuation in ventilation systems. LFAS addresses good practice with respect to cleanability, fibre-proofing, emissions and micro-organisms.

LFAS is type approved with respect to fire class and air tightness class. Type approval certificate No. 0715.

The silencer is available in two versions (type 1 and 2) with different performances. Type 2 is designed with baffle.

Materials and surface treatment

LFAS is manufactured as standard in galvanised sheet steel with perforated inner tube. The absorption material consists of mineral wool with a surface layer of glass fibre reinforced staple fibre felt.

The connections are provided with rubber seals and fit standard Spiro ducts. They are also available with flanges. The silencer can also be manufactured in stainless steel or Aluzinc, with or without surface treatment.

For severely polluted air the absorption material can be enclosed.

Specification

Example:

Silencer **LFAS - 1 - 100 - 500 - 1**

Type 1: Without middle baffle

Type 2: With middle baffle

Connection, Ød mm

Length, mm

Material:

Galvanized sheet steel

= 1

Stainless EN 1.4404 (SS2343)

= 3

Aluzinc AZ185

= 4

Assembly

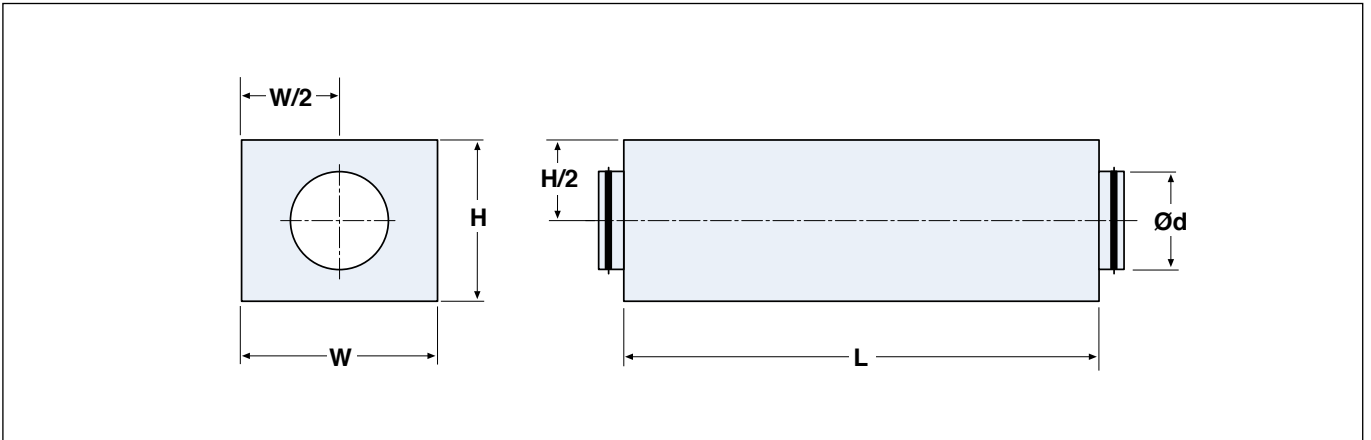
When hanging the silencer, mounting devices that go around the outer jacket must be used. LFAS must not be mounted only suspended from their connection points. Suspensions should be carried out according to applicable requirements. See for example the manual "Practical solutions fire protection – ventilation".

Maintenance

is under normal operating conditions, maintenance-free.



Size and weight



Insertion Loss

Pressure drop for type 1 is calculated as for duct of same size.

Type 1 without middle baffle
EI30 (EI60 with safety distance 100 mm)

Ød mm	L mm	W mm	H mm	Weight kg	Insertion loss in octave band dB Centre frequency Hz							
					63	125	250	500	1K	2K	4K	8K
100	500	226	160	4,2	5	8	11	21	29	34	30	17
	1000	226	160	8,3	5	13	18	40	47	47	45	24
125	500	250	186	5,3	4	7	10	19	27	31	27	15
	1000	250	186	10	4	11	13	34	45	47	42	20
160	500	286	220	6,3	4	6	8	15	20	27	19	14
	1000	286	220	12	4	9	12	28	38	42	33	16
200	500	346	260	8,1	4	6	6	13	17	22	12	11
	1000	346	260	16	4	7	10	22	34	38	20	9
250	500	396	310	9,5	3	3	6	9	14	15	8	8
	1000	396	310	19	3	6	7	16	29	23	12	9
315	500	460	376	12	3	3	4	7	11	8	7	6
	1000	460	376	24	3	5	6	13	24	19	8	6
400	500	546	460	17	2	3	3	7	10	8	4	4
	1000	546	460	31	2	2	5	12	22	12	6	5

Type 2 with middle baffle
EI30 (EI60 with safety distance 100 mm)

Ød mm	L mm	W mm	H mm	Weight kg	Insertion loss in octave band dB Centre frequency Hz							
					63	125	250	500	1K	2K	4K	8K
250	500	396	310	13	3	4	7	12	21	23	17	7
	1000	396	310	27	7	7	9	20	36	47	30	20
315	500	460	376	16	2	3	6	11	19	17	12	6
	1000	460	376	34	5	6	7	18	33	44	22	14
400	500	546	460	23	2	2	4	9	15	12	8	4
	1000	546	460	44	4	5	6	15	25	34	13	10

Pressure drop, type 2

