

Flexible silencers with the aluminium-polyester liner

SLESD



Description

The SLESD flexible acoustic silencer is made of the perforated ALUDUCT AD-L tube. The applied insulation is 25 mm thick and is covered with the aluminium-polyester liner with the thickness of 45 microns. The silencer is connected by means of metal flanges which fulfil the role of a nipple. They are available in two lengths - 500 mm and 1000 mm.

It is possible to order silencers with: EPDM rubber washers, with flange couplings of various length.

Temperature range: From - 20°C to + 140°C

Thermal mineral wool insulation:
 Lambda = 0,034 W/m x k at 24°C

Acoustic insulation:
 As per the attached diagram.

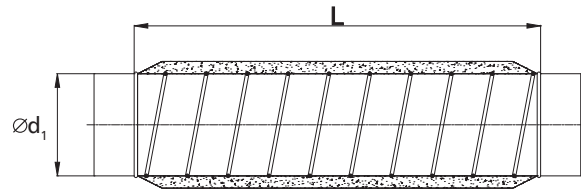
Fire retardancy:
 Silencers are made of inflammable materials.

Version - an example of the marking:
 SLESD - male connection- this is a standard version
 SLES DL - male connection with the installed EPDM rubber gasket
 SLES DF - female connection

Marking example
 Product code: **SLESD - 25 - 100 - 1000**

type _____
 insulation layer thickness _____
 silencer diameter _____
 silencer length _____

Dimensions



Ød ₁ nom [mm]	L [mm]
80	500, 1000
100	500, 1000
125	500, 1000
160	500, 1000
200	500, 1000
250	500, 1000
315	500, 1000

* The 50 mm insulation and the following lengths are available on request: L= 600 mm and 1200 mm.

Technical data

Chart 1: Noise suppression
 Acoustic insulation thickness 25 mm
 Tube section length 1000 mm

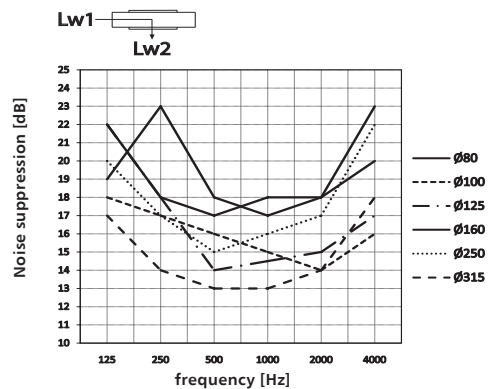
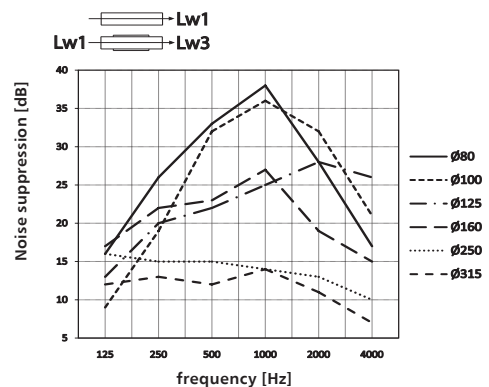


Chart 2: Noise suppression
 Acoustic insulation thickness 25 mm
 Tube section length 1000 mm



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Technical data

Chart 1: Pressure loss characteristics

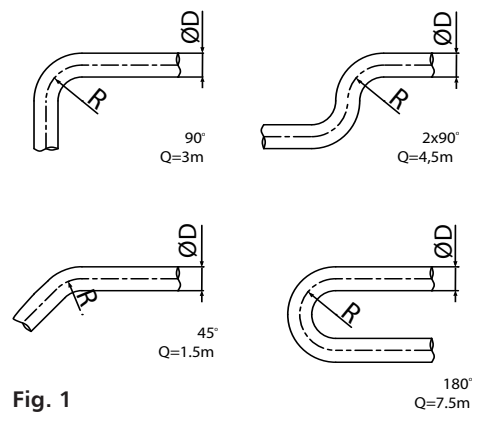
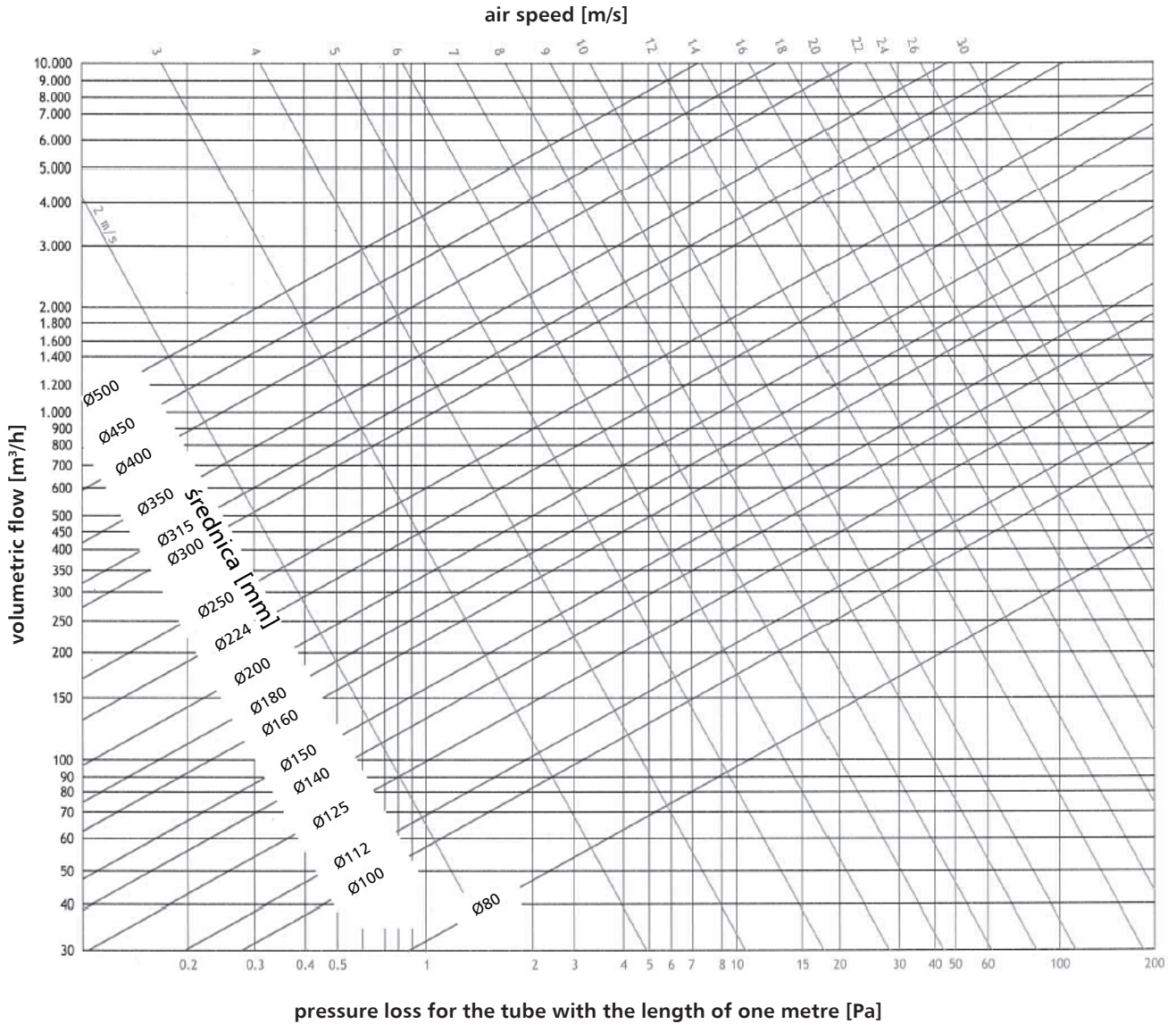


Fig. 1

Example

$Z = Q \times (D/300)$ Z - equivalent tube length [m]
 Q - length (Figure 1) [m]
 D - tube diameter [mm]

Data: Searched:
 Air speed = 5m/s Pressure loss = ?
 Tube diameter = 200 mm
 90°elbow
 Tube length = 1m

Calculations:
 Pressure loss for the length of 1m = 3Pa (Chart 1)
 Q=3m (Figure 1)
 Z=3 x (200/300)=1.99m
 Pressure loss = (1.99+1) x 3 Pa/m = 8.97Pa

Temperature	-20°C	-0°C	+20°C	+40°C	+60°C	+80°C	+100°C
Correction factor	1.158	1.073	1.000	0.936	0.880	0.830	0.785