

TLE flexible acoustic silencers



DESCRIPTION

A flexible TLE acoustic silencer is made of a perforated duct. The applied insulation is 25mm thick and covered with an aluminium-polyester jacket. The silencer is connected with metal flanges acting as a nipple. These are available in two lengths, 600mm and 1,200mm. Upon request, it is possible to manufacture silencers: with EPDM gaskets, with female flanges or of different lengths.

INSULATION

Type of insulation: glass wool.
Type of insulation: coil — flexible.

TEMPERATURE RANGE

FROM -20°C TO +140°C

THERMAL INSULATION WITH MINERAL WOOL:

$\lambda = 0.034 \text{ W/m} \times \text{k}$ in 24°C.

PRESSURE LOSS:

According to the attached diagram.

FIRE RESISTANCE

Silencers are made from non-flammable materials.

Silencer length: 600mm								
Ød ₁ (rated) [mm]	L [mm]	attenuation [dB] in frequency [Hz]						
		125	250	500	1,000	2,000	4,000	8,000
100	600	19	30	27	25	19	10	7
125	600	17	24	22	21	18	10	7
160	600	13	19	18	18	16	7	6
200	600	14	17	12	13	14	7	5
250	600	15	15	10	12	14	6	5

Silencer length: 1,200mm								
Ød ₁ (rated) [mm]	L [mm]	attenuation [dB] in frequency [Hz]						
		125	250	500	1,000	2,000	4,000	8,000
100	1,200	29	37	33	36	35	24	13
125	1,200	30	36	30	34	32	25	12
160	1,200	17	29	28	30	30	23	11
200	1,200	24	30	23	26	27	16	10
250	1,200	22	23	18	22	19	8	7

50mm insulation available upon request.

Design version — marking example:

TLE — nipple — this is the standard version
TLE-L — a nipple with an EPDM gasket installed
TLE-F — coupling

Marking example

Product code: TLE - 25 - aaa - bbb
type -----
insulation thickness -----
Ø d₁ -----
L -----

