
Ref. no.: 13 - 16

Aero

Attenuator





 Aero - ALUFLEX attenuator

 Aero attenuator galvanized with Aero-Aluflex duct

 Aero attenuator galvanized with galvanized perforated plate



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Advantages and construction details

Aero attenuators

The non-combustible insulating layer is coated with abrasionproof glass fibre and is delivered in the thickness of 25 and 50 mm. A thickness of 75 mm and 100 mm is available on request. On page 3 you can see the values of sound dissipation (insertion loss) depending on the insulation thickness. End caps made of galvanized steel enable an easy duct installation. The applied electrical tape serves as aid for easy fitting during installation and can be removed before mounting the attenuator.

Aero -ALUFLEX attenuators

Ref. no. 13

are based on the Aero-ALUFLEX duct. **In the area of the insulation section the internal duct is mechanically perforated.** Depending on the nominal width the bending radius is the 2 to 2,5-fold of the diameter of the external duct. The Aero-ALUFLEX attenuator can even be mounted in bent shape.

Aero attenuators (galvanized with Aero-Aluflex duct)

Ref. no. 15

consist of an Aero-Aluflex duct inside. **In the area of the insulation section the internal duct is mechanically perforated.** The outer casing consists of galvanized steel (0.7 mm).

Aero attenuators (galvanized with perforated plate)

Ref. no. 16

consist inside of a **perforated plate** (0.7 – 0.9 mm) **made from galvanized steel.** The outer casing consists of galvanized steel (0.7 mm).

Specifications: Aero-Aluflex attenuator, type TSD, **ref. no. 13**, internal duct made from Aero-Aluflex duct, mechanically perforated. External duct made from Aero-Aluflex duct. Insulation layer made from glass fibre with glass fleece, abrasionproof and non-combustible according to DIN 4102 class A1.

NW internal duct: _____mm
NW external duct: _____mm
Length: _____mm

Specifications: Aero attenuator, type TSD, **ref. no. 15**, internal duct made from Aero-Aluflex duct, mechanically perforated. External duct made from rigid, galvanized, longitudinally laser-welded flat duct. Insulation layer made from glass fibre with glass fleece, abrasionproof and non-combustible according to DIN 4102 class A1.

NW internal duct: _____mm
NW external duct: _____mm
Length: _____mm

Specifications: Aero attenuator, type TSD, **ref. no. 16**, internal duct made from galvanized perforated plate. External duct made from rigid, galvanized, longitudinally laser-welded flat duct. Insulation layer made from glass fibre with glass fleece, abrasionproof and non-combustible according to DIN 4102 class A1.

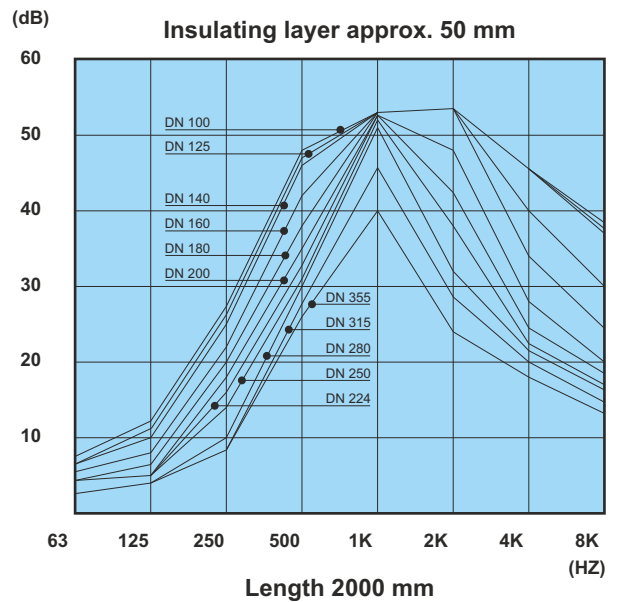
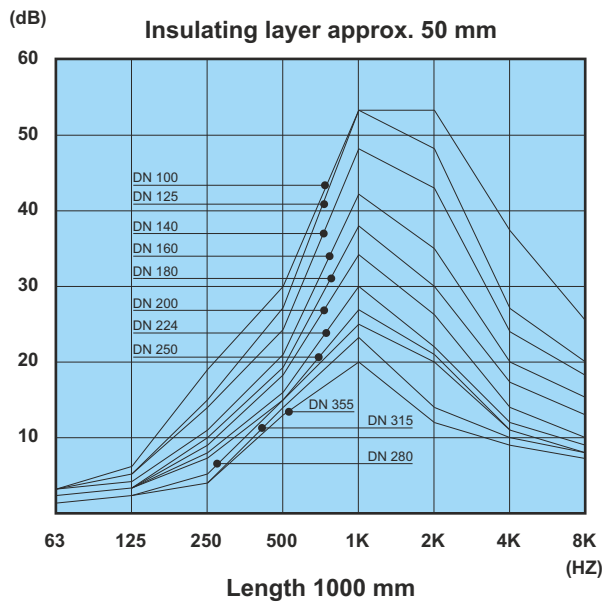
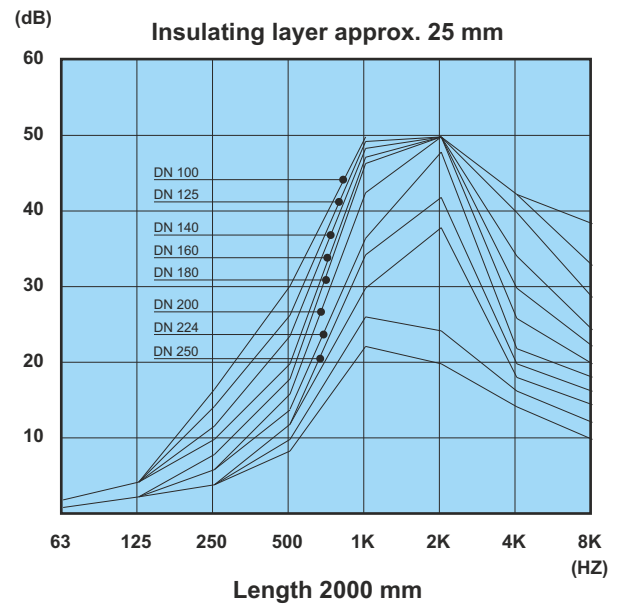
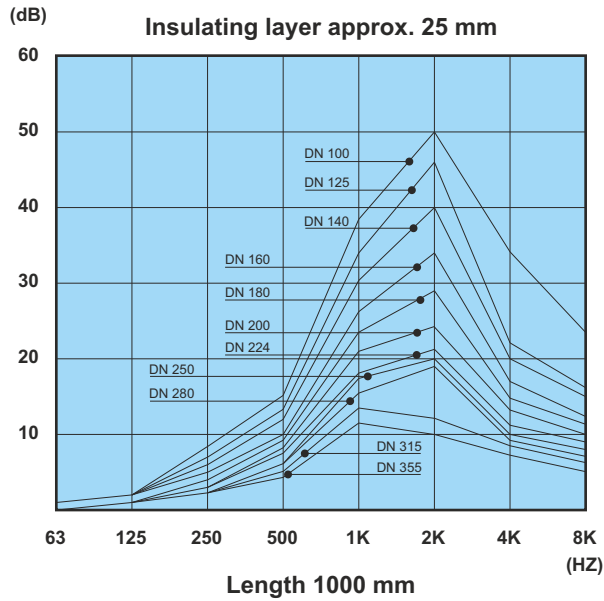
Nominal width: _____mm
Outside diameter: _____mm
Length: _____mm

Manufacturer: Aerotechnik E. Siegwart GmbH
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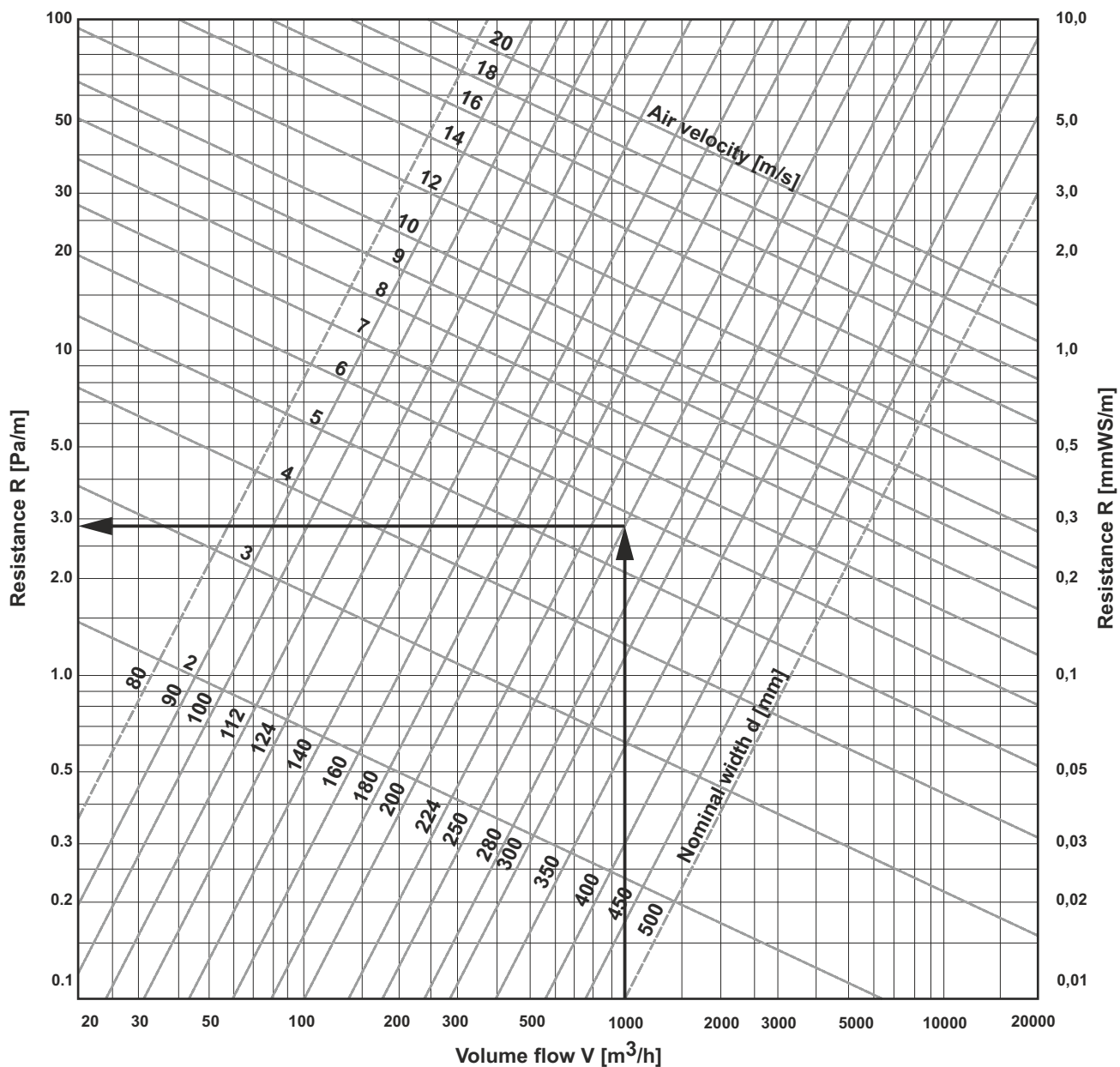


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Values of acoustic insulation regarding the reverberation chamber method in accordance with the ISO specification DIN 7235



Duct friction chart



Example: V = 1000 m³/h; duct NW 250 mm → 2,9 Pa/m

Valid for air of a temperature of + 20°C and the thickness of 1,2 kg/m³
 Resistance determined x correction factor = actual resistance

Temperature (°C)	-20	± 0	20	40	60	80	100	120
Correction factor	1,158	1,073	1	0,936	0,88	0,83	0,785	0,746

ALUFLEX bend: Resistance approx. 2 x resistance of the plain ended pipe bend of the same dimensions.



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