CONNECTDEC Type NON-WOVEN insulated

FLEXIBLE SOUND ATTENUARORS

The **CONNECTDEC TYPE NON-WOVEN INSULATED** flexible sound attenuator consists of a Polypropylene fabric cloth inner duct and provided with an aluminium/polyester laminated outer jacket. The space between the inner and outer duct is filled with 25mm sound absorbing material. The inner duct is hydrophobic and Anti-Bacterial.
The duct is standard fitted with galvanized metal sleeves at both ends to fit to any rigid ductwork or appliance instantly. Choice between: (Fit according to EN1506)

Type 1) Male - Male **Type 2) Male - Female** **Type 3) Female – Female**

*Article code: CO(1,2,or3)SB{Ø}/Length e.g. CO3SB100/1,0 (type 3 Ø100mm x 1Mtr**)***

APPLICATIONS

- **THE Solution to over bridge inaccuracy in measurements.**
- **Saves installation time and material.**
- In combination with heat exchanges, heat pumps
- Air supply systems
- Air conditioning systems
- Insertion loss damper
- Decreasing sound of machines

SPECIFICATIONS

Article code:	CO(1,2,3)SB{Ø}/L
Temperature range:	-30 ºC to 140 ºC
Operating pressure:	up to +2000 Pa
Operating air velocity:	max. 10 m/s
Min. bending radius:	1 x Ø + 25mm
Standard diameter range:	80 – 315 mm
Standard length:	0,5+1,0 mtr

CONSTRUCTION

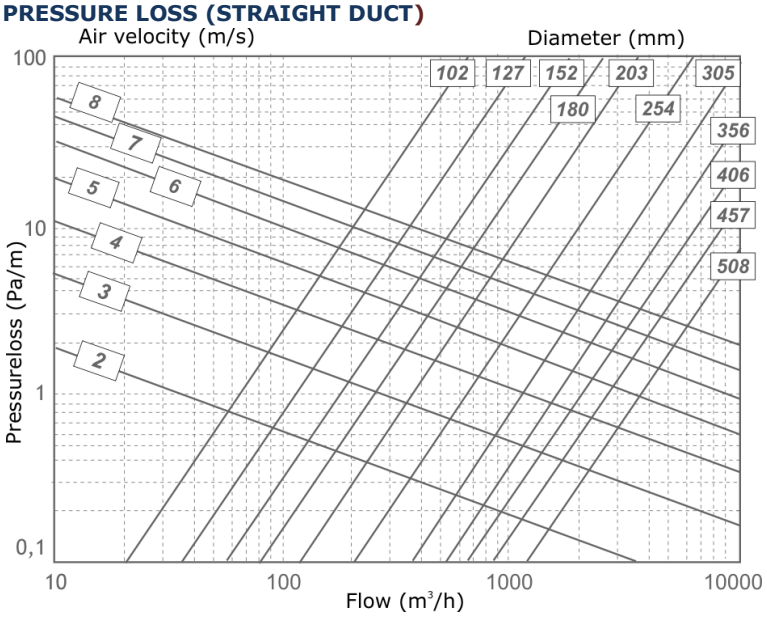
Inner duct:	Non-woven Polypropylene fabric cloth
Glass wool blanket:	25mm, 16kg/m³
Outer jacket:	Alu/poly laminate
R-value glass wool:	0.65 m² K/W (ASTM C177-76)
Appearance:	aluminium

CLASSIFICATIONS

EU (EN 13501-1):

OuterJacket:	B-s1,d0

PRESSURE LOSS (STRAIGHT DUCT)



The **CONNECTDEC TYPE NON-WOVEN INSULATED** fulfills all the requirements and are classified as specified within EN 13180: *Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.*

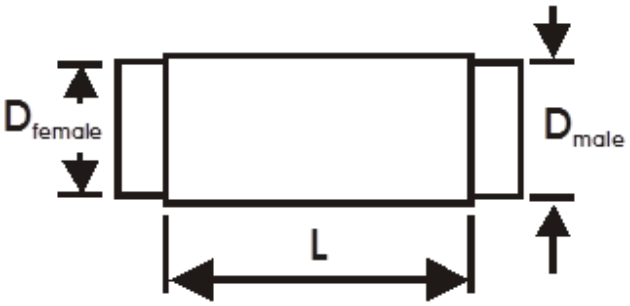
The **CONNECTDEC TYPE NON-WOVEN INSULATED** is also available, on request, with a 50 mm glass wool layer, the article number is: CO(1,2,3)5SB{Ø}
R-value glass wool: 1.3 (50 mm) m² K/W (ASTM C177-76).

CONNECTDEC Type NON-WOVEN insulated

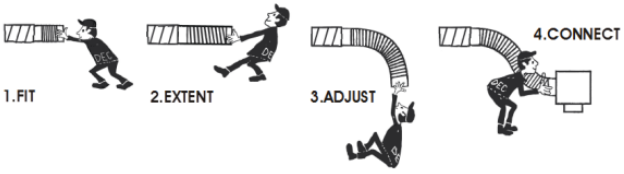
FLEXIBLE SOUND ATTENUARORS

DIMENSIONS
Metal sleeves

According to EN-1506			
D_{nom} (mm)	D_{female} (mm)	D_{male} (mm)	Tol.
080	80.5	79.3	+0 ; -0.5
100	100.5	99.3	+0 ; -0.5
125	125.5	124.3	+0 ; -0.5
150	150.6	149.3	+0 ; -0.6
160	160.6	159.3	+0 ; -0.6
180	180.6	179.3	+0 ; -0.6
200	200.7	199.3	+0 ; -0.7
250	250.8	249.3	+0 ; -0.8
315	315.9	314.3	+0 ; -0.9



HOW TO INSTALL:



SOUND ATTENUATION

Non-woven ins. 25mm (Test report nr. A1672-1/A2354-1 Peutz bv - The Netherlands)

Dn (mm)	L (m)	Attenuation, dB - Mid-frequency, Hz								D_i (dB)
		63	125	250	500	1000	2000	4000	8000	
080	**1.0**	13.6	22.4	40.2	38.7	36.5	41.3	51.6	45.8	39
100	**1.0**	15.9	22.9	31.1	38.6	36.4	40.6	50.1	35.9	39
125	**1.0**	11.7	18.9	32.4	29.9	28.8	34.5	40.9	24.5	32
150	**1.0**	12.2	10.9	29.7	30.1	29	38.3	34.6	20.4	32
160	**1.0**	19.3	25.4	30.5	27.1	23.8	32.2	27.8	17.3	28
180	**1.0**	17.3	13.6	27.6	26.5	26	35.1	22.7	13.2	
200	**1.0**	10.7	12.1	28.7	22.8	22.8	30.6	19.4	11.9	26
250	**1.0**	12.9	18.7	24.3	19.5	19.9	27.7	12.9	10.2	22
315	**1.0**	16.6	23.2	18	15.2	16.5	19.6	10.1	8.5	17
80	**0.5**	15.8	11	24.5	27.8	26.6	32.5	46.7	29	
100	**0.5**	22.5	11.2	31.1	24.8	21.4	26.3	34.5	19.9	30
125	**0.5**	12.7	10.7	17.5	20.6	19.9	25.8	23	12.8	35
150	**0.5**	11.1	3.4	12.6	16	19.5	27.8	19.2	12.6	
160	**0.5**	5.1	7.1	11.8	17	18.8	24.7	18.2	10.9	32
180	**0.5**	13.6	4.2	13.1	15.3	14.9	22.4	13.5	9.1	
200	**0.5**	9.1	7.1	16.8	14.5	13.8	19.7	10.1	8	29
250	**0.5**	3	10.9	14.6	12.6	12.3	16.4	5.3	5.2	
315	**0.5**	3.3	10.5	13.3	9.9	9.4	8.9	3.7	4.1	
Non-woven ins. 50mm										
100	**1.0**	4.3	8.5	15.5	28.2	50.8	51	57.8	38.5	30
125	**1.0**	17.7	26.3	35.4	29.2	33.3	45.4	40.5	26.5	35
160	**1.0**	16.5	24.1	30.6	27.5	29.6	41.7	28.7	18.1	32
200	**1.0**	6.5	6.3	21.1	27.1	30.5	35.8	19.4	12.3	29

D_i = Average attenuation