



# CONNECTDEC Type NON-WOVEN insulated

FLEXIBLE SOUND ATTENUATORS

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. (Also available with PE outerjacket (White/Grey)) The space between the inner and outer duct is filled with 25mm sound absorbing material. The inner duct is hydrophobic. 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

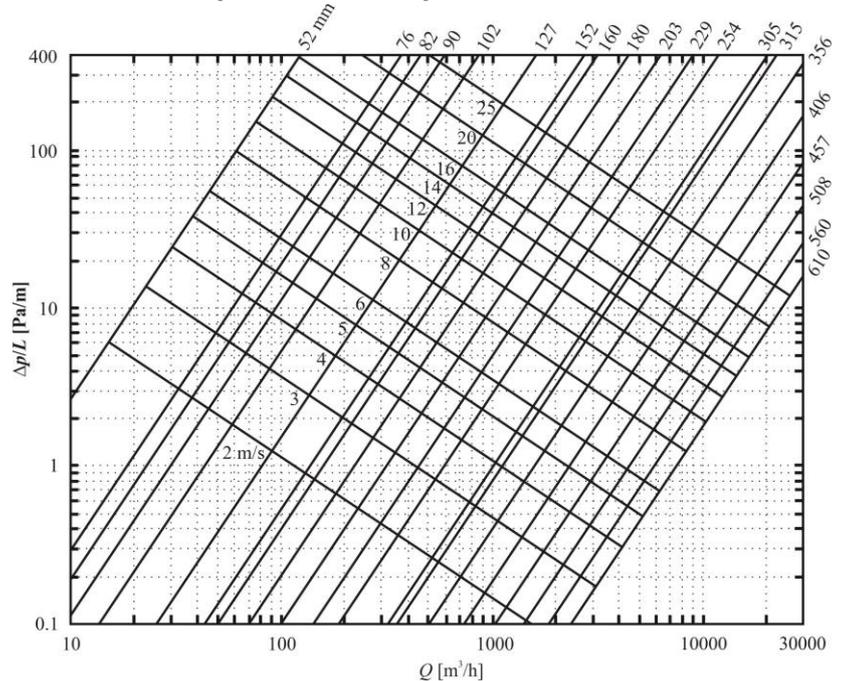
- **THE Solution to over bridge inaccuracy in measurements.**
- **Saves installation time and material.**
- In combination with heat exchanges, heat pumps
- Air supply systems
- Air conditioning systems
- Insertion loss damper
- Decreasing sound of machines



## SPECIFICATIONS

Article code: CO(1,2,3)SB{Ø}/L  
 Temperature range: -30 °C to 140 °C  
 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

## PRESSURE LOSS (STRAIGHT DUCT)



## 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

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).

## Reach/RoHs Compliant

Directive 2011/65/EU RoHS  
 Phthalates according to 1907/2006/EC REACH  
 Test result: Pass - The test items meets the requirements of the test specification



## LIABILITY:

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## PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

## TRADEMARKS:

CONNECTDEC, the DEC logo and DEC International are trademarks, or registered trademarks of Dutch Environment Corporation BV in the Netherlands and/or other countries.

## RESTRICTIONS:

The CONNECTDEC ducts are not suitable for discharging combustion products from open fireplaces and oil-fired boilers. Neither are the ducts suitable for transporting air with a high concentration of acid and base.

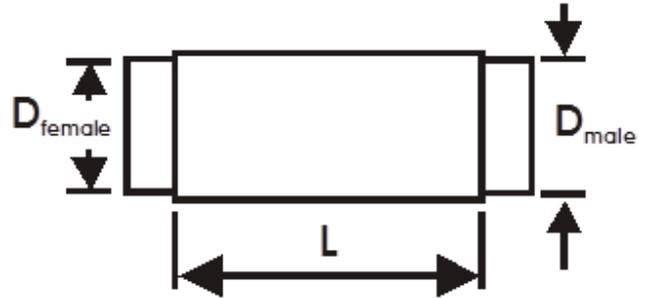




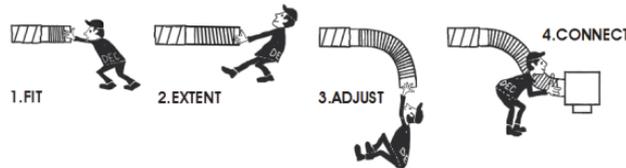
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## DIMENSIONS Metal sleeves

According to EN-1506			
Dnom (mm)	Dfemale (mm)	Dmale (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 According to ISO 7235

Non-woven ins. 25mm (Test report nr. A1672-1/A2354-1/A3198-1 Peutz bv - The Netherlands)										
Dn (mm)	L (m)	Attenuation, dB - Mid-frequency, Hz								Di (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	29.0	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	26.0	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	18.0	15.2	16.5	19.6	10.1	8.5	17
80	0.5	15.8	11.0	24.5	27.8	26.6	32.5	46.7	29.0	-
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	23.0	12.8	35
150	0.5	11.1	3.4	12.6	16.0	19.5	27.8	19.2	12.6	-
160	0.5	5.1	7.1	11.8	17.0	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	8.0	29
250	0.5	3.0	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	-
100	1.0	4.3	8.5	15.5	28.2	50.8	51.0	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
180	1.0	17.3	28.5	28.9	25.1	30.7	38.3	22.7	18.3	-
200	1.0	6.5	6.3	21.1	27.1	30.5	35.8	19.4	12.3	29
315	1.0	12.4	14.0	23.7	21.5	25.7	16.0	6.9	5.9	-
250	1.0	9.0	10.0	22.0	24.0	28.0	28.0	13.0	9.0	-
315	1.0	12.4	14.0	23.7	21.5	25.7	16.0	6.9	5.9	-

Di = Average attenuation

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