



## SONODEC 25 TRD NON-WOVEN

FLEXIBLE SOUND ATTENUATORS

The **SONODEC 25 TRD NON-WOVEN** consist of a Polypropylene fabric cloth inner duct, thermal insulated with a glass wool layer and provided with an aluminium laminated outer jacket. The inner duct is hydrophobic. Both ends are taped to make ready-made connections.

### APPLICATION

- Air supply systems
- Air conditioning systems
- Insertion loss damper
- Sound attenuator
- Decreasing sound of machines

### SPECIFICATIONS

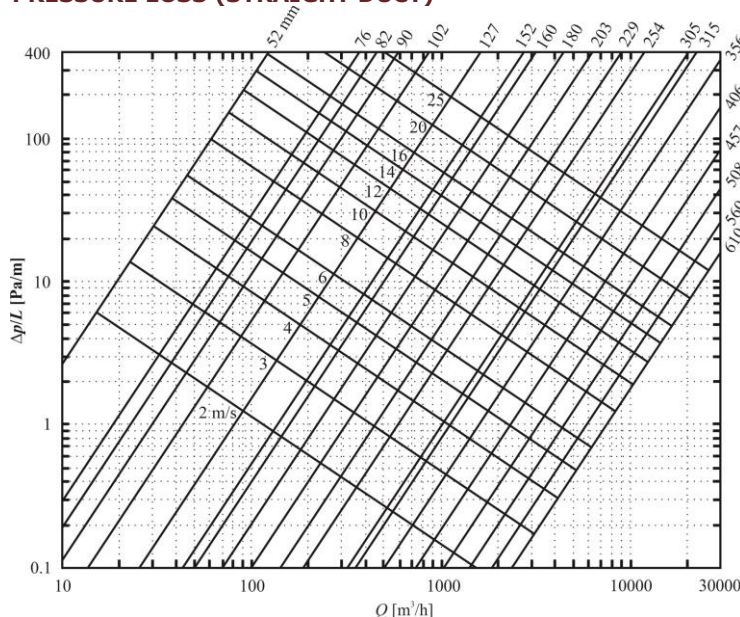
Article code:	SBIT{Ø}/L
Temperature range:	-30 °C to 140 °C
Operating pressure:	up to +2500 Pa
Operating air velocity:	max. 25 m/s
Min. bending radius:	0.54 x Ø + 25mm
Standard diameter range:	82 – 315 mm
Standard length:	0,5+1+1,5+2 mtr

### CONSTRUCTION

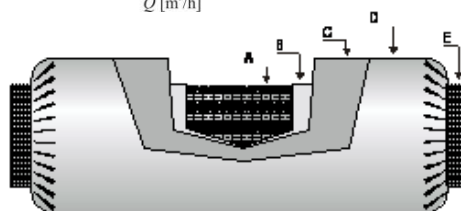
Inner duct:	Non-woven Polypropylene fabric cloth
Glass wool blanket:	25mm, 16kg/m³
Outer jacket:	alu/poly laminate
R-value glass wool:	0.65 m² K/W (ASTM C177-76)
Appearance:	aluminium



### PRESSURE LOSS (STRAIGHT DUCT)

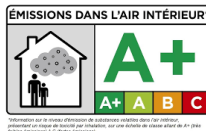


- A. inner duct  
B. barrier  
C. glass wool  
D. outer jacket  
E. gasket



**Regulation or protocol**  
French VOC Regulation

### Conclusion



**Version of regulation or protocol**  
Regulation of March and May 2011  
(DEVL1101903D and DEVL1104875A)

The **SONODEC 25 TRD NON-WOVEN** fulfils all the requirements and are classified as specified within EN 13180: *Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.*

The **SONODEC 25 TRD NON-WOVEN** is also available, on request, with a 50 mm glass wool layer, the article number is: SBIT50{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



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LGAI



### 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:

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



## SONODEC 25 TRD NON-WOVEN

FLEXIBLE SOUND ATTENUATORS

### SOUND ATTENUATION

According to: **ISO 7235**

**Non-woven ins. 25mm** (Test report nr. A1672-1/A3198-1 Peutz bv - The Netherlands)

D <sub>n</sub> (mm)	L (m)	Attenuation, dB - Mid-frequency, Hz								D <sub>i</sub> (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	15.2	16.5	19.6	10.1	8.5	17
080	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	-
125	0.5	12.7	10.7	17.5	20.6	19.9	25.8	23.0	12.8	-
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	-
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	-
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	-
<b>Non-woven ins. 50mm</b>										
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
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
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	-

D<sub>i</sub> = Average attenuation

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