# **DEC INTERNATIONAL TECHNICAL SPECIFICATIONS**





# SONODEC 50

ACOUSTICALLY AND THERMAL INSULATED DUCTING

The SONODEC 50 consists of a perforated aluminum laminate inner duct thermally and acoustically insulated with glass wool and is provided with an aluminium laminated outer jacket.

An anti-migration barrier between the duct and the insulation wool adds strength and prevents the diffusion of insulation particles, as well as the following functions: improves acoustical performance, avoids cold bridges, leakage, pressure loss, protecting the Rvalue to be effected by humidity influences and avoid grow of fungus in the insulation wool.

#### APPLICATION

Air-conditioning systems •

- Air supply systems
- Preventing condensation in air ventilation systems .
- Decreasing of machine noises

#### **SPECIFICATIONS**

Article code: Temperature range: Operating pressure: Operating air velocity: Min. bending radius: Standard diameter range: 82 - 508 mm Standard length:

#### CONSTRUCTION

Inner duct: Barrier Glass wool blanket: Outer jacket: R-value glass wool:

Appearance:

#### **CLASSIFICATIONS**

UK (BS476): FR (NF): Marine certified MED

## DS50{Ø} -30 °C to 140 °C up to +2500 Pa max. 30 m/s 0.54 x Ø + 50mm 7.5 mtr

alu/poly laminate

50mm, 16kg/m<sup>3</sup>

alu/poly laminate

Part 6, 7 and 20

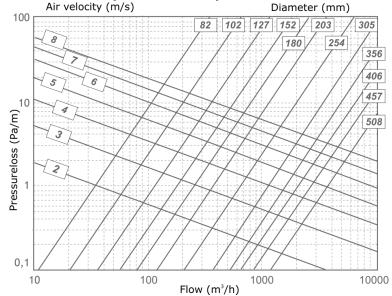
closed film

1.3 m<sup>2</sup> K/W (ASTM C177-76)

aluminium

M1

### PRESSURE LOSS (STRAIGHT DUCT)



**Regulation or protocol** French VOC Regulation

#### Conclusion



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

The **SONODEC 50** fulfills all the requirements and are classified as specified within EN 13180: Ventilation for buildings – Ductwork - Dimensions and mechanical requirements for flexible ducts.

The **SONODEC 50** is also available, as **SONODEC 25** with a 25 mm glass wool layer, the article number is:  $DS\{\emptyset\}$ R-value glass wool: 0.65 (25 mm) m<sup>2</sup> K/W (ASTM C177-76). Min. bending radius:  $0.54 \times \emptyset + 25$ mm

#### **Reach/RoHs Compliant**

Directive 2011/65/EU RoHS Phthalates according to 1907/2006/EC REACH

The information contained in this brochure was current on the



Test result: Pass - The test items meets the requirements of the test specification



TRADEMARKS:

countri

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in the Netherlands and/or other



**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

The consultant is responsible for the actual instaliation 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.

The consultant is responsible for the actual installation and

PLEASE NOTICE:

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LIABILITY:

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SOUND ATTENUATION According: ISO 7235

SONODEC 50		(Test report nr. AB323-4 Peutz bv - The Netherlands)					
		Attenuation, dB - Mid-frequency, Hz					
D1 (mm)	L (mtr)	125	250	500	1000	2000	4000
82	1	14	19	34	40	27	18
	2	19	31	42	59	45	30
	3	23	39	50	61	63	41
102	1	7	18	31	43	28	20
	2	11	32	49	61	45	27
	3	13	35	55	62	51	33
127	1	7	15	22	32	26	18
	2	14	27	47	56	40	28
	3	17	32	54	59	54	34
160	1	12	20	23	28	18	11
	2	22	36	43	50	29	20
	3	32	45	47	55	43	28
203	1	4	9	14	20	14	13
	2	13	22	35	43	30	24
	3	15	34	47	50	41	34
254	1	14	14	16	15	11	10
	2	26	28	30	31	18	14
	3	36	36	35	44	25	23
315	1	15	13	15	16	9	7
	2	27	26	28	32	15	13
	3	31	32	30	37	20	17
457	1	9	9	10	9	5	7
	2	20	19	21	17	11	13
	3	24	23	27	24	16	17
508	1	7	8	9	8	5	7
	2	19	17	20	15	9	10
	3	23	24	28	21	14	14



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