SONODEC 250

ACOUSTICALLY AND THERMAL INSULATED DUCTING

The **SONODEC 250** series 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 R-value 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:	DSX{Ø}
Temperature range:	
Inner duct:	-30 °C to 250 °C
Outer jacket:	-30 °C to 140 °C
Operating pressure:	up to +3000 Pa
Operating air velocity:	max. 30 m/s
Min. bending radius:	0.54 x Ø + 25mm
Standard diameter range:	65 – 635 mm
Standard length:	10 mtr

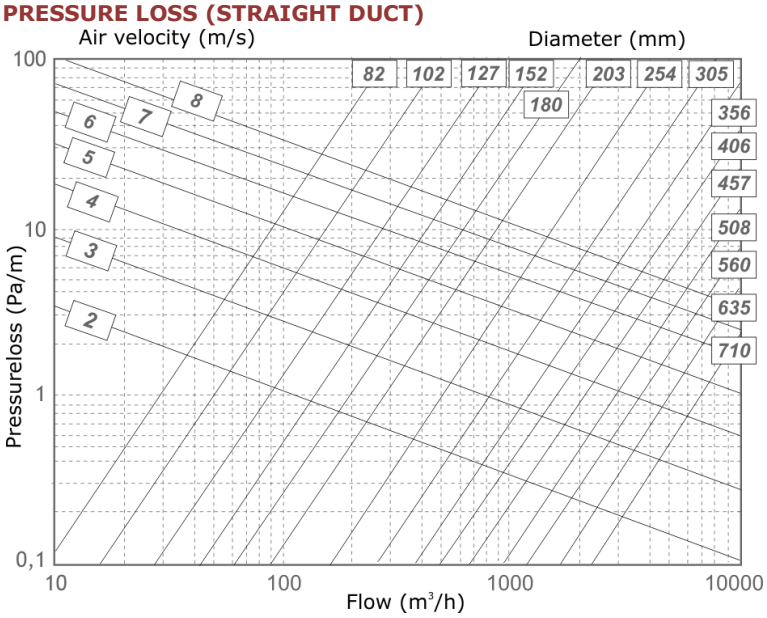
CONSTRUCTION

Inner duct:	alu/poly laminate
Barrier:	closed film
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):	B-s1,d0
NL(NEN 6065/6066)	1
FR (NF):	M0/M1
Marine certified MED	

PRESSURE LOSS (STRAIGHT DUCT)



Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation	ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)	Regulation of March and May 2011 (DEVL1101903D and DEVL1104875A)

The **SONODEC 250** 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 250** is also available, on request, with a 50 mm glass wool layer, the article number is: DSX50{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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SOUND ATTENUATION

According: **ISO 7235**

SONODEC 250		(Test report nr. AB323-2 Peutz bv - The Netherlands)					
		Attenuation, dB - Mid-frequency, Hz					
D_1 (mm)	L (mtr)	125	250	500	1000	2000	4000
82	1	16	25	34	38	30	20
	2	22	37	48	54	46	30
	3	30	43	41	43	55	43
102	1	11	25	31	36	23	15
	2	17	31	51	50	38	26
	3	20	44	51	52	51	33
127	1	11	19	23	27	25	19
	2	17	31	43	43	35	22
	3	21	40	45	48	47	27
160	1	15	26	22	27	18	13
	2	22	38	35	39	29	20
	3	33	43	39	43	39	27
203	1	6	13	15	18	11	10
	2	15	31	32	38	21	18
	3	16	36	40	42	28	24
254	1	9	11	12	10	7	11
	2	21	24	24	22	13	15
	3	29	33	31	30	19	24
315	1	8	8	8	7	6	8
	2	16	15	14	13	9	13
	3	23	23	21	19	12	17
457	1	8	8	6	6	5	7
	2	18	15	14	12	8	10
	3	24	21	20	18	11	15
508	1	7	8	7	7	6	7
	2	-	-	-	-	-	-
	3	-	-	-	-	-	-

SONODEC 500		(Test report nr. AB323-5 Peutz bv - The Netherlands)					
		Attenuation, dB - Mid-frequency, Hz					
D_1 (mm)	L (mtr)	125	250	500	1000	2000	4000
82	1	12	16	31	40	31	22
	2	18	31	50	58	48	37
	3	24	39	52	58	62	49
102	1	6	15	28	38	22	16
	2	18	31	50	59	36	26
	3	15	38	57	63	65	43
127	1	4	9	17	28	21	16
	2	10	20	42	54	29	21
	3	21	33	53	57	39	26
160	1	12	20	24	31	18	14
	2	21	38	45	51	28	20
	3	33	46	48	53	35	28
203	1	2	7	11	15	10	9
	2	11	19	34	41	20	17
	3	15	33	45	48	25	23
254	1	14	14	16	16	11	10
	2	27	27	29	22	11	15
	3	36	36	35	37	15	17
315	1	9	9	9	8	5	6
	2	19	19	20	15	10	14
	3	29	28	30	20	11	16
457	1	6	7	7	6	4	7
	2	18	18	19	13	8	11
	3	23	24	27	17	10	14
508	1	5	6	7	6	6	7
	2	16	14	15	9	8	8
	3	22	21	25	15	11	12