

FLEXIBLE SOUND ATTENUATOR

The **Flexible Sound attenuator** series consist of a perforated aluminum inner duct, thermically insulated with a glass wool layer and provided with either an outer jacket strengthened with glass fibre (**SONODEC® TRD**) or an aluminium laminate outer duct (**SONODEC® GLX**). Both lined with a barrier to prevent glass wool particles migration.

The **SONODEC® TRD** has an increased insertion loss, the **SONODEC® GLX**, however, has an increased sound attenuation.



SONODEC® TRD



SONODEC® GLX

Application in practice

SONODEC® TRD & SONODEC® GLX

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

Restrictions in the range of application

The **SONODEC® GLX** and **SONODEC® TRD** are not suitable for using in rooms with a high concentration of acid and base and for discharging combustion gases.

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.

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	SONODEC® TRD	SONODEC® GLX
Mechanical properties		
Temperature range (°C)		
inner duct	-30 - +140	-30 - +250
outer duct	-30 - +140	-30 - +140
Maximum operating pressure (Pa)	+2000	+3000
Maximum air velocity (m/s)	30	30
Diameter range (mm)	76 - 635	76 - 635
Fire classes according to		
The Netherlands (NEN 6065/6066)	1	1
Germany (DIN 4102)	B2	X/B1
France (CSTB)	M1	M1/M0
Switzerland (BKZ)	x	x/5.2
United Kingdom (BS 476)	6, 7 und 20	6, 7 und 20
Austria (B3800)	B1	x
Italy (CSI)	1-0	x-0
Technical data		
Article code	DST{Ø}/length	GX{Ø}/length
Material structure	see product specific properties	
Construction	see product specific properties	
Wire spacing inner duct		
until Ø 102 mm	25 mm	25 mm
Ø 102 mm and larger	36 mm	18 mm
Wire spacing outer jacket	irrelevant	25
Minimum bending radius	0.54 x Ø + †	0.58 x Ø + †
Standard length (meters)	0.5, 1.0, 1.5 and 2 ¹⁾	0.5, 1.0, 1.5 and 2 ¹⁾
Standard color	aluminium	aluminium

X = not been tested

† = thickness of the glass wool

¹⁾ = lengths up to 10 meters on request

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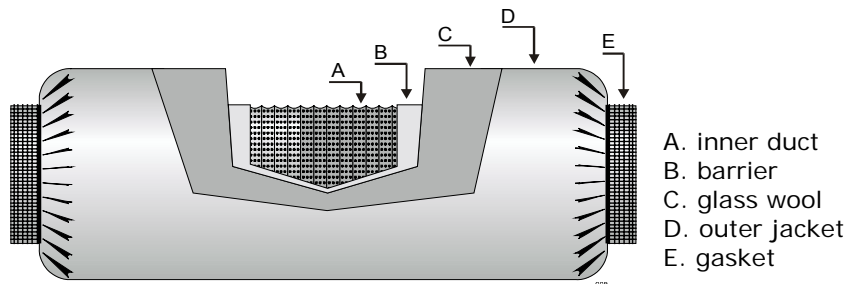
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Product specific properties

SONODEC® TRD

The **SONODEC® TRD** is also available, on request, with a 50 mm glass wool layer, the article number is: **DST50{Ø}/length**

- Material structure:
 - perforated aluminium laminate / barrier / glass wool / aluminium laminate
- Construction:
 - inner duct : aluminium, polyester laminate.
 - barrier : closed polyester film
 - glass wool blanket : 25 (or 50) mm, 16 kg/m³
 - outer jacket : aluminium, polyester laminate.
- R-value glass wool : 0.69 (25 mm) or 1.4 (50 mm) m²K/W (ASTM C177-76)



Sound attenuation

SONODEC® TRD		(Test report nr. AB323-1 Peutz bv - The Netherlands)					
D _n (mm)	L (mtr)	Attenuation, dB - Mid-frequency, Hz					
		125	250	500	1000	2000	4000
082	1	16	26	33	38	28	17
	2	21	37	48	53	46	29
102	1	9	19	32	37	31	21
	2	19	33	52	53	49	36
127	1	12	20	21	25	29	17
	2	17	31	44	45	46	26
160	1	17	22	22	27	19	14
	2	31	39	34	38	31	20
203	1	7	15	17	20	16	13
	2	20	34	32	35	30	22
254	1	16	16	16	16	13	10
	2	26	31	28	33	25	18
315	1	11	12	12	14	11	7
	2	28	25	22	27	22	15
457	1	12	10	8	8	6	8
	2	20	17	15	16	13	12
508	1	8	8	8	9	6	7
	2	20	17	16	17	11	11

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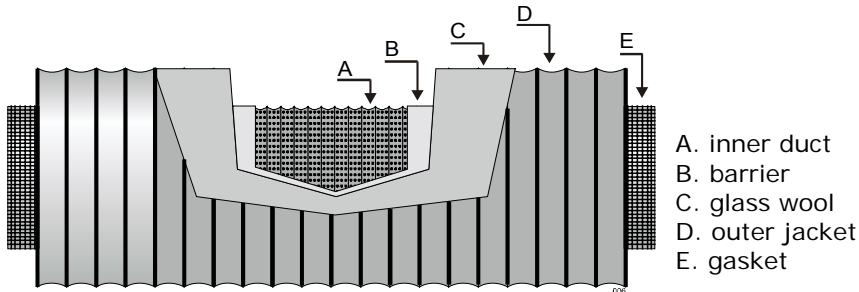
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Product specific properties

SONODEC® GLX

The **SONODEC® GLX** is also available, on request, with a 50 mm glass wool layer, the article number is: **GX50{Ø}/length**

- Material structure:
 - perforated aluminium laminate / barrier / glass wool / aluminium laminate
- Construction:
 - inner duct : aluminium, polyester laminate.
 - barrier : closed polyester film
 - glass wool blanket : 25 (or 50) mm, 16 kg/m³
 - outer duct : aluminium, polyester laminate.
- R-value glass wool : 0.69 (25 mm) or 1.4 (50 mm) m²K/W (ASTM C177-76)



On request the **SONODEC® GLX** can also be ordered with an outer jacket of **COMBIDEC®**, the articlecode is **GXC21B{Ø}/Length**

Sound attenuation

SONODEC® GLX		(Test report nr. AB323-6 Peutz bv - The Netherlands)					
D _n (mm)	L (mtr)	Attenuation, dB - Mid-frequency, Hz					
		125	250	500	1000	2000	4000
082	1	11	10	16	24	38	27
	2	11	13	25	48	57	40
102	1	3	8	19	35	30	19
	2	5	11	24	46	49	32
127	1	2	5	9	17	24	19
	2	4	8	19	36	40	25
160	1	4	6	12	21	10	8
	2	6	9	18	38	47	26
203	1	2	6	12	21	10	8
	2	5	10	22	42	22	17
254	1	3	6	11	12	8	11
	2	5	10	19	29	15	13
315	1	3	6	11	15	9	9
	2	5	8	15	26	14	16
457	1	1	3	6	9	6	8
	2	5	6	11	17	11	11
508	1	1	4	9	8	6	7
	2	4	7	15	14	10	9

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