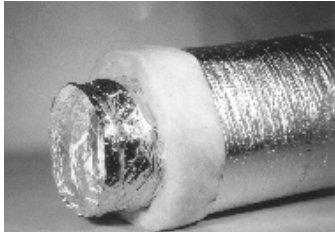


THERMICAL INSULATED PRODUCTS

DEC International® produces different thermically insulated products for several purposes. The thermic insulation is suitable for preventing condensation and minimizing heat loss and loss of cold.

The **thermically insulated** product series consist of:



The **ISODEC®** series:

The **ISODEC®** series consists of an aluminium laminate inner duct, thermically insulated with a glass wool layer and provided with an either glass fibre strengthened outer jacket, (**ISODEC® 25** and **ISODEC® 250**)



The **ISOSLEEVE:**

The **ISOSLEEVE** consists of an aluminium laminate outer jacket, strengthened with glass fibre and provided with a glass wool insulation layer.

The **ISODEC®** fulfills all the requirements and are classified as specified within:
EN 13180 : "*Ventilation for buildings-Ductwork-Dimensions and mechanical requirements for flexible ducts*"

Range of application in practice

- Insulation in ventilation and air supply systems
- Air conditioning systems
- Thermic insulation in order to prevent heat loss or loss of cold
- Preventing of condensation in ventilation systems

Restrictions in the range of application

The **ISODEC®** ducts are not suitable for transporting air with a high concentration of acid and base. Neither are the **ISODEC®** ducts suitable 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.

According to NEN 3883 tested by TNO:

- Flame spread: class1
- Flame transfer: class1
- Smoke figure: 2

To select the appropriate thermically insulated product, consult the table on the next page.

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	ISODEC® 25	ISODEC® 250
Mechanical properties		
Temperature range (°C)		
Inner duct	-30 - +140	-30 - +250 ¹⁾
Outer duct	-30 - +140	-30 - +140
Maximum operating pressure (Pa)	+2500	+3000
Maximum air velocity (m/s)	25	30
Diameter range (mm)	82 - 508	65 - 635
Fire classes according to		
Europe (EN 13502-1)	B-s1, d0	B-s1, d0
The Netherlands (NEN 6065/6066)	1	1
Germany (DIN 4102)	B2	B1
France (CSTB)	M1	M0/M1
Switzerland (BKZ)	x	5.3
United Kingdom (BS 476)	6, 7 and 20	6, 7 and 20
Austria (B3800)	B1	B1
Italy (CSI)	1-0	1-0
Technical data		
Article code	DI{Ø}	DIX{Ø}
Material structure/ 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 ²⁾ mm
Minimum bending radius	0.54 x Ø + †	0.58 x Ø + †
Standard length (meters)	10	10
Standard color	aluminium	aluminium

X = not been tested

† = thickness of glass wool

¹⁾ = heat resistance inner duct: up to 250 °C

²⁾ = two different wires have been used alternately

Product specific properties ISODEC®

The ISODEC® is also available, on request, with a 50 mm glass wool layer, the article number is: DI(X)50{Ø}

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

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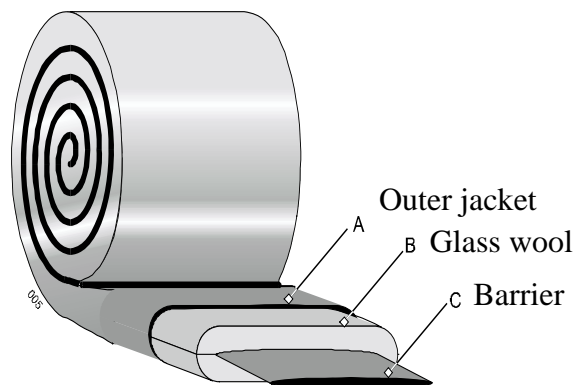
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ISOSLEEVE

	ISOSLEEVE 25	ISOSLEEVE 50
Mechanical properties		
Temperature range (°C)	-30 - +140	-30 - +140
Maximum operating pressure (Pa)	+2000	+2000
Maximum air velocity (m/s)	irrelevant	irrelevant
Diameter range (mm)	52 - 635 ¹⁾	52 - 635 ¹⁾
Fire classes according to		
Europe (EN 13501-1)	B-s1, d0	B-s1, d0
The Netherlands (NEN 6065/6066)	3-1	3-1
France (CSTB)	M1	M1
Technical data		
Article code	DHB{Ø}	DHB50{Ø}
Material structure	see product specific properties	
Construction	see product specific properties	
Standard length (meters)	10	10
Standard color	aluminium	Aluminium

X = Not been tested
¹⁾ = Diameter acc. to inner duct

1.6



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Range of application in practice

- Insulation in air supply systems
- Air conditioning systems
- Insulation of rainwater discharge
- Reducing of heat loss
- Preventing/discharging of condensation

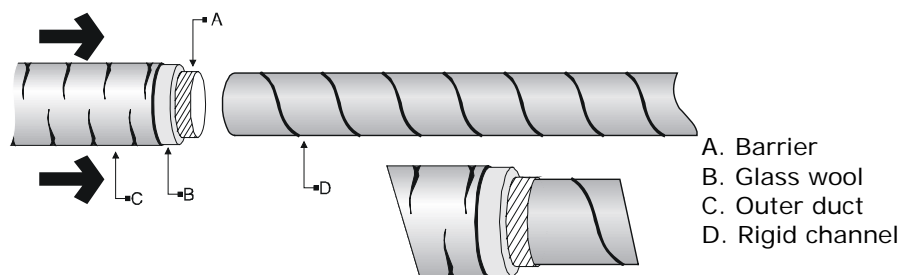
Restrictions in the range of application

The **ISOSLEEVE 25** (or **50**) is not suitable in rooms with a high concentration of acid and base.

Barrier

The **ISOSLEEVE 25** (and **50**) has standard a barrier. The barrier simplifies the mounting, and the installer will not have unnecessary contact with the glass wool.

The article numbers for the **ISOSLEEVE 25** and **50** with barrier are resp. **DHB{Ø}** and **DHB50{Ø}**.



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.

Product specific properties.

ISOSLEEVE 25/50

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

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ACOUSTICALLY INSULATED SONODEC®

DEC International® produces different thermally and acoustically insulated products for several purposes.

The **SONODEC®** series:



The **SONODEC®** series consists of a perforated aluminum laminate inner duct, a polyester barrier to prevent the diffusion of glass wool particles, thermally and acoustically insulated with a glass wool layer and provided with an outer jacket strengthened with glass fibre.

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

To select the appropriate thermally and acoustically insulated product, consult the tables on the next page.

Applications in practice

- Air-conditioning systems
- Air supply systems
- Preventing condensation in air ventilation systems
- Decreasing of machine noises
- Consult the selection tables

Restrictions in the range of applications

The **SONODEC®** ducts are not suitable for transporting air with a high concentration of acid and base. Neither are the **SONODEC®** ducts suitable 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® 25	SONODEC® 250
Mechanical properties		
Temperature range (°C)		
inner duct	-30 - +140	-30 - +250
outer duct	-30 - +140	-30 - +140
Maximum operating pressure (Pa)	+2500	+2500
Maximum air velocity (m/s)	30	30
Diameter range (mm)	76 - 635	65 - 635
Fire classes according to		
The Netherlands (NEN 6065/6066)	1	1
Germany (DIN 4102)	B2	B1
France (CSTB)	M1	M0/M1
Switzerland (BKZ)	x	5.2
United Kingdom (BS 476)	6, 7 and 20	6, 7 and 20
Austria (B3800)	B1	B1
Italy (CSI)	1-0	1-0
Technical data		
Article code	DS{Ø}/Length	DSX{Ø}/Length
Material structure	see product specific properties	
Construction	see product specific properties	
Wire spacing inner duct		
until Ø 102	25 mm	25 mm
Ø 102 and larger	36 mm	18 ¹⁾ mm
Minimal bending radius	0.54 x Ø + ↓	0.58 x Ø + ↓
Standard length (meters)	10	10
Standard color	aluminium	aluminium

x = not been tested

↓ = thickness of the glass wool

1) = two different wires have been used alternately

Product specific properties

SONODEC® 25

The **SONODEC® 25** is also available, on request, with a 50 mm glass wool layer, the article number is: DS50{Ø}

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

Sound attenuation

SONODEC® 25		(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
	3	29	45	49	54	57	38
102	1	9	19	32	37	31	21
	2	19	33	52	53	49	36
	3	25	39	50	52	54	40
127	1	12	20	21	25	29	17
	2	17	31	44	45	46	26
	3	23	46	44	47	51	34
160	1	17	22	22	27	19	14
	2	31	39	34	38	31	20
	3	29	43	41	46	39	27
203	1	7	15	17	20	16	13
	2	20	34	32	35	30	22
	3	18	40	38	41	39	30
254	1	16	16	16	16	13	10
	2	26	31	28	33	25	18
	3	32	36	32	37	34	27
315	1	11	12	12	14	11	7
	2	28	25	22	27	22	15
	3	27	32	28	34	28	19
457	1	12	10	8	8	6	8
	2	20	17	15	16	13	12
	3	25	22	21	25	19	16
508	1	8	8	8	9	6	7
	2	20	17	16	17	11	11
	3	24	22	20	25	15	14

Product specific properties

SONODEC® 250

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

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

Sound attenuation

SONODEC® 250		(Test report nr. AB323-2 Peutz bv - The Netherlands)					
D _n (mm)	L (mtr)	Attenuation, dB - Mid-frequency, Hz					
		125	250	500	1000	2000	4000
082	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	-	-	-	-	-	-

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.

1.8a

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FLEXIBLE SOUND ATTENUATOR

	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

1.8a

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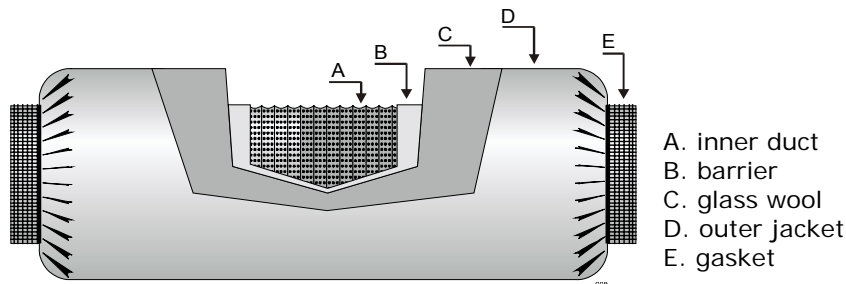
FLEXIBLE SOUND ATTENUATOR

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)



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

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

1.8a

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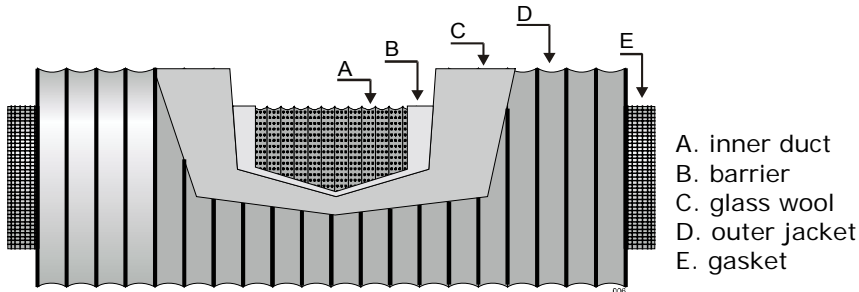
FLEXIBLE SOUND ATTENUATOR

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

1.8a

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SEMI FLEXIBLE SOUND ATTENUATOR



TSD 50

The semi flexible sound attenuator consists of a corrugated perforated aluminium innerduct and a 2 layer corrugated outerduct with end spigots made of aluminium. The space between the inner and outer duct is filled with 50mm sound absorbing material.

At request a barrier to prevent particle migration can be added.

Article code: TSD50{Ø}/Length

Application in practice

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

CONSTRUCTION

Inner Duct : Corrugated, perforated aluminium.
Insulation : Glasswool, thickness 50 mm.
Outer Duct : 2 layer corrugated aluminium.

Technical data	
Colour	aluminium
Material	corrugated aluminium
Temperature range	-30 up to +250 °C
Over pressure	max. 2000 Pa
Under pressure	max. 1500 Pa
Recommended air velocity	max. 10 m/s
Standard length	L = 0.5, 0.75, 1.0, 1.5 and 2.0 m
Bending radius	R = 2 to 3 x D2 (from 1 meter)

Fire Rating:

Ducting is tested according DIN4102 and is classified as **A1** .

1.8b

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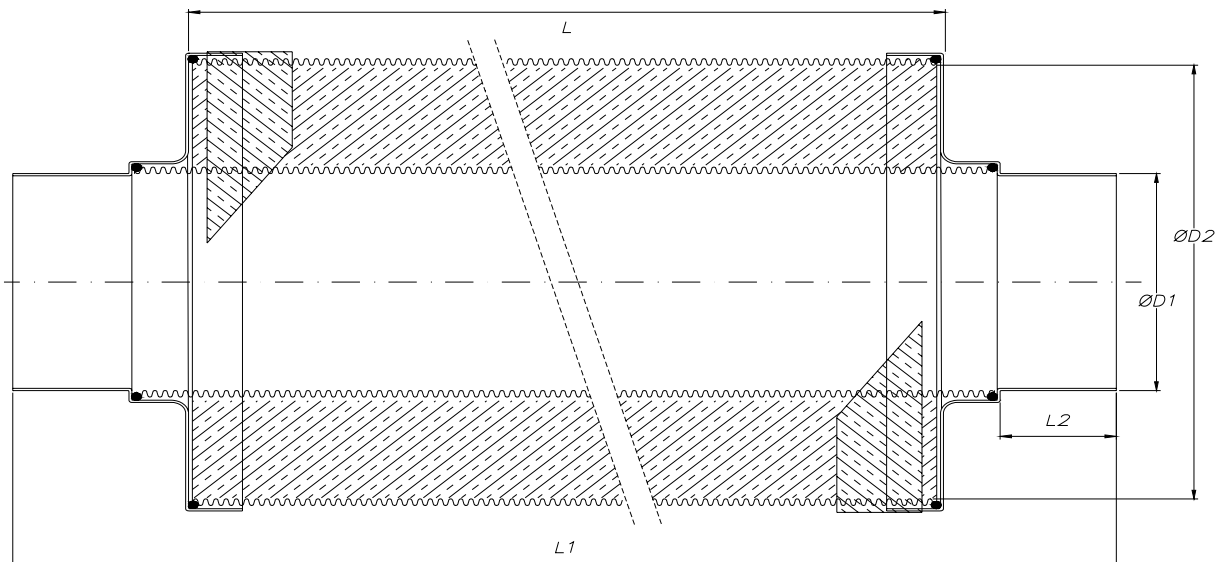
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SEMI FLEXIBLE SOUND ATTENUATOR

Sound attenuation, Dimensions and Weights

TSD50 (Test report nr. A1453-1 Peutz bv - The Netherlands)									
D _n (mm)	L (mtr)	Attenuation, dB - Mid-frequency, Hz						D _i (dB)	Weight (kg)
		125	250	500	1000	2000	4000		
080	1	11	16	40	55	65	52	32	1.3
100	1	6	13	23	44	62	41	26	1.5
125	1	7	13	26	44	51	28	27	1.7
150	1	5	11	25	44	40	25	24	1.9
160	1	3	11	25	43	40	20	22	2.0
200	1	4	10	21	43	25	14	21	2.5
250	1	3	9	20	39	15	9	17	3.1
315	1	1	5	14	30	11	6	13	3.6

D_i = Average attenuation



Diameter (D _n) range ØD1 – ØD2 (mm)	
080 – 180	224 – 315
100 - 200	250 – 355
125 - 224	280 – 400
140 - 250	300 – 400
150 – 250	315 - 400
160 – 250	355 - 450
180 – 280	400 - 500
200 – 300	

L = Effective length

D < Ø250

L1 = L + 120 mm

L2 = 40 mm

D ≥ Ø250

L1 = L + 160 mm

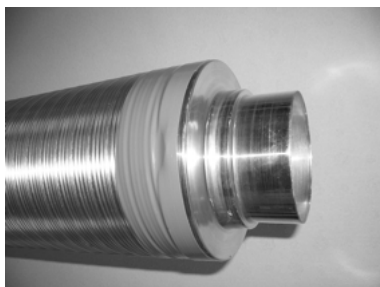
L2 = 60 mm

1.8b

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SEMI FLEXIBLE SOUND ATTENUATOR



TSD 25

The semi flexible sound attenuator consists of a corrugated perforated aluminium innerduct and a 2 layer corrugated outerduct with end spigots made of aluminium. The space between the inner and outer duct is filled with 25mm sound absorbing material.

At request a barrier to prevent particle migration can be added.

Article code: TSD{Ø}/Length

Application in practice

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

CONSTRUCTION

Inner Duct : Corrugated, perforated aluminium.
Insulation : Glasswool, thickness 25 mm.
Outer Duct : 2 layer corrugated aluminium.

Technical data	
Colour	aluminium
Material	corrugated aluminium
Temperature range	-30 up to +250 °C
Over pressure	max. 2000 Pa
Under pressure	max. 1500 Pa
Recommended air velocity	max. 10 m/s
Standard length	L = 0.5, 0.75, 1.0, 1.5 and 2.0 m
Bending radius	R = 2 to 3 x D2 (from 1 meter)

Fire Rating:

Ducting is tested according DIN4102 and is classified as **A1** .

1.8b

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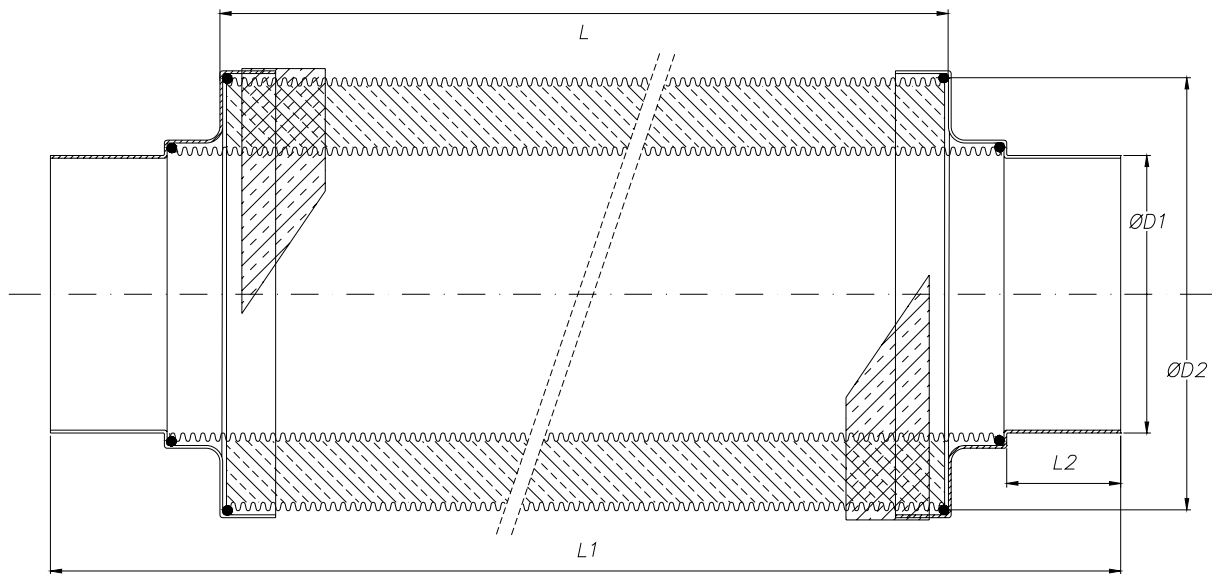
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SEMI FLEXIBLE SOUND ATTENUATOR

Sound attenuation, Dimensions and Weights

TSD25		(Test report nr. A1453-1 Peutz bv - The Netherlands)						D _i (dB)	Weight (kg)
D _n (mm)	L (mtr)	Attenuation, dB - Mid-frequency, Hz							
		125	250	500	1000	2000	4000		
080	1	6	8	19	40	64	40	22	0.8
100	1	3	7	15	37	68	33	20	1.0
125	1	5	8	16	31	51	22	20	1.2
160	1	1	4	9	24	50	18	15	1.5
200	1	2	5	9	22	29	12	15	1.9
250	1	1	3	8	21	18	8	13	2.3

D_i = Average attenuation



Diameter (D _n) range ØD1 – ØD2 (mm)	
080 – 130	224 – 280
100 – 150	250 – 300
125 – 180	280 – 355
140 – 200	300 – 355
150 – 200	315 – 355
160 – 200	355 – 400
180 – 224	400 – 450
200 – 250	450 – 500

L = Effective length

D < Ø250

L1 = L + 120 mm

L2 = 40 mm

D ≥ Ø250

L1 = L + 160 mm

L2 = 60 mm

1.8b

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