



sonic S.A.
ISOLAMENTOS
ACÚSTICOS

SOUND ATTENUATORS

Brochure

Tunnels & Metro Lines



HVAC Installations



Power Generators



Special Attenuators





Sound Attenuators Brochure

SONAIR Series - Range overview

SONAIR SLK



SONAIR SLW



SONAIR SLR [400°C/2 hours]

Specially designed for Metro Lines,
Ventilation Shafts & Tunnels

Option – Final coating for
corrosivity environments
C1 to C5



SONAIR SCS



SONAIR SCT





Introduction

SONIC, S.A. is an important manufacturer of sound attenuators and acoustic louvres, and we have reached this position by delivering quality products, on time, and at the right price. This is achieved through a professional and friendly team of acoustic engineers and staff that are available to provide clients with a first class service.

SONIC, S.A. Attenuators Brochure provides comprehensive details on a wide range of standard products, that should meet most requirements. However if you can't find it here then SONIC, S.A. has the expertise to research, develop, test and construct almost any attenuator product you can think of, so please give us a call.

Some of the things that make SONIC, S.A. attenuator products stand apart from our competitors are detailed below.

- . Manufacturing technology – Our Production Centre utilises a range of specialised machinery that automates the attenuator manufacturing process. A duct line produces attenuator casings with integral 20, 30mm or 40 mm profile flanges. A splitter line de-coils and roll-forms all the splitter frame parts and all the parts finally come together on the Attenuator Assembly Line. Consequently we can make attenuator products quicker, more cost effectively and with quality.

- . Logistics Center – Our logistics center is ready to deliver and load into containers large quantities of sound attenuators. Package with plastic film and metal reinforcing straps. provided on Euro pallets.

SONIC, S.A. attenuators are manufactured to allow passage of air while reducing the noise level along the air path. The attenuators are manufactured to suit each application and are not restricted to meeting module sizes. Our manufacturing process enables maximum flexibility when balancing the space requirement with the acoustic and airflow restraints.

SONIC, S.A. has a wide range of attenuators to meet the requirements of all situations. Typically attenuators are manufactured from galvanized steel however, if required, the attenuators can be manufactured from other materials including stainless steel and aluminium to provide additional corrosion protection in harsh environments.





SONAIR SLK series



Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. Provided with 20, 30 or 40 mm profile flanges, which are compatible with flanging systems. Acoustic Splitters with spigot ends(up to certain sizes if required).

Materials

- **Outer casing**
-Outer casings of standard rectangular straight silencers shall be made of not less than 1,0 mm; lock former quality galvanized steel, [or 316/304 stainless steel, aluminum].
- **Acoustic Splitters/Baffles**
-Splitters shall be made of not less than 0,6 mm properly stiffened to ensure structural integrity; lock form quality, galvanized steel, [or 316/304 stainless steel, aluminum].

- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.
- Fire class – A1

Option selection

[Y] – Acoustic Splitters with spigot ends/aerodynamically shaped for energy saving (Pressure drop reduction 25% to 30%)

Standard Construction Codes

SONAIR	standard Splitter models	Optional code
SLK	SLK1-40	[Y]
	SLK1-50	[Y]
	SLK1-75	[Y]
	SLK1-100	[Y]
SLK	SLK2-50	[Y]
	SLK2-100	[Y]
	SLK2-150	[Y]
	SLK2-200	[Y]
SLK	SLK3-100	[Y]
	SLK3-150	[Y]
	SLK3-200	[Y]
	SLK3-300	[Y]

order example

SLK1-40-1400/1000/1250-[Y]

codes explained:

SLK1-40 - Sound attenuator model type

1400/1000/1250 - Dimensions - Width/Height/Length

Optional code [Y] - Aerodynamically shaped splitters





MODEL SLK1-40

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK1-40	140	100	2380	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f [Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	20	34	47	49	46	35
1250	10	11	24	40	50	49	50	40
1500	12	12	29	46	50	49	50	44
1800	14	15	34	50	50	49	50	50
2000	14	16	37	50	50	49	50	50
2400	16	19	44	50	50	49	50	50
3000	20	23	50	50	50	49	50	50

MODEL SLK1-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK1-50	150	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f [Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50





MODEL SLK1-75

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK1-75	175	100	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SLK1-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK1-100	200	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42





MODEL SLK2-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK2-50	250	200	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SLK2-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK2-100	300	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41





MODEL SLK2-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK2-150	350	200	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	11	30	50	50	50	30	18
2400	8	14	33	50	50	50	34	21
3000	10	17	38	50	50	50	39	23

MODEL SLK2-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK2-200	400	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15





MODEL SLK3-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK3-100	400	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SLK3-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK3-150	450	300	2250	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	12	27	50	50	50	50	44	28





MODEL SLK3-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK3-200	500	300	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SLK3-300

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK3-300	600	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10





SONAIR SLW series



Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. Provided with 20, 30 or 40 mm profile flanges, which are compatible with flanging systems. Acoustic Splitters with spigot ends(up to certain sizes if required).

Materials

- **Outer casing**

-Outer casings of standard rectangular straight silencers shall be made of not less than 1,0 mm; lock former quality galvanized steel, [or 316/304 stainless steel, aluminum].

- **Acoustic Splitters/Baffles**

-Splitters shall be made of not less than 0,6 mm properly stiffened to ensure structural integrity; lock form quality, galvanized steel, [or 316/304 stainless steel, aluminum].

- Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

-Anti-erosion supplementary protection – Perforated metal sheet

- **Fire class – A1**

Option selection

[Y] – Acoustic Splitters with spigot ends/Aerodynamically shaped for energy saving (Pressure drop reduction 25% to 30%)

[M] – Melinex lining

Standard Construction Codes

SONAIR	standard Splitter models	Optional code	
SLW	SLW1-40	[Y]	[M]
	SLW1-50	[Y]	[M]
	SLW1-75	[Y]	[M]
	SLW1-100	[Y]	[M]
SLW	SLW2-50	[Y]	[M]
	SLW2-100	[Y]	[M]
	SLW2-150	[Y]	[M]
	SLW2-200	[Y]	[M]
SLW	SLW3-100	[Y]	[M]
	SLW3-150	[Y]	[M]
	SLW3-200	[Y]	[M]

order example

SLW2-50-1200/1000/1500-[Y][M]

codes explained:

SLW2-50 - Sound attenuator model type

1200/1000/1500 - Dimensions - Width/Height/Length

Optional code [Y] - Aerodynamically shaped splitters

Optional code [M] - With MELINEX lining





SLW3-300 [Y] [M]

MODEL SLW1-40

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW1-40	140	100	2380	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	20	34	47	49	46	35
1250	10	11	24	40	50	49	50	40
1500	12	12	29	46	50	49	50	44
1800	14	15	34	50	50	49	50	50
2000	14	16	37	50	50	49	50	50
2400	16	19	44	50	50	49	50	50
3000	20	23	50	50	50	49	50	50

MODEL SLW1-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW1-50	150	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50





MODEL SLW1-75

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW1-75	175	100	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SLW1-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW1-100	200	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42





MODEL SLW2-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW2-50	250	200	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SLW2-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW2-100	300	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41





MODEL SLW2-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW2-150	350	200	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	11	30	50	50	50	30	18
2400	8	14	33	50	50	50	34	21
3000	10	17	38	50	50	50	39	23

MODEL SLW2-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW2-200	400	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15





MODEL SLW3-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLK3-100	400	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SLW3-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW3-150	450	300	2250	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	12	27	50	50	50	50	44	28





MODEL SLW3-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW3-200	500	300	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SLW3-300

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLW3-300	600	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10





SLR3-300 [Y]

MODEL SLR1-40

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR1-40	140	100	2380	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	20	34	47	49	46	35
1250	10	11	24	40	50	49	50	40
1500	12	12	29	46	50	49	50	44
1800	14	15	34	50	50	49	50	50
2000	14	16	37	50	50	49	50	50
2400	16	19	44	50	50	49	50	50
3000	20	23	50	50	50	49	50	50

MODEL SLR1-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR1-50	150	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	9	18	32	45	47	41	31
1250	10	10	23	37	49	49	45	36
1500	12	11	26	43	50	49	50	29
1800	14	13	31	50	50	49	50	46
2000	14	14	34	50	50	49	50	49
2400	16	17	40	50	50	49	50	50
3000	20	20	50	50	50	49	50	50





MODEL SLR1-75

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR1-75	175	100	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	7	6	13	24	43	45	35	24
1250	9	7	14	28	48	50	39	29
1500	9	7	17	34	50	50	44	33
1800	11	8	21	39	50	50	50	39
2000	11	9	23	42	50	50	50	40
2400	12	11	29	50	50	50	50	46
3000	16	13	35	50	50	50	50	50

MODEL SLR1-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR1-100	200	100	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	3	3	10	25	40	40	28	17
1250	3	4	14	30	45	46	33	19
1500	3	4	16	34	50	50	39	22
1800	4	5	20	40	50	50	45	27
2000	4	6	22	44	50	50	49	29
2400	5	5	24	50	50	50	50	34
3000	6	7	30	50	50	50	50	42





MODEL SLR2-50

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR2-50	250	200	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	12	14	27	47	50	50	46	36
1250	14	17	33	50	50	50	50	40
1500	16	20	39	50	50	50	50	44
1800	18	25	46	50	50	50	50	50
2000	20	27	50	50	50	50	50	50
2400	24	33	50	50	50	50	50	50
3000	30	41	50	50	50	50	50	50

MODEL SLR2-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR2-100	300	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	8	19	35	46	44	30	22
1250	8	10	23	43	50	50	35	25
1500	10	12	28	50	50	50	41	28
1800	12	14	33	50	50	50	47	30
2000	12	16	35	50	50	50	50	33
2400	14	20	41	50	50	50	50	36
3000	16	25	49	50	50	50	50	41





MODEL SLR2-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR2-150	350	200	2450	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	5	6	15	30	39	30	19	13
1250	5	7	19	37	46	34	21	15
1500	7	9	23	44	50	40	25	16
1800	7	10	27	50	50	46	27	18
2000	9	11	30	50	50	50	30	18
2400	8	14	33	50	50	50	34	21
3000	10	17	38	50	50	50	39	23

MODEL SLR2-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR2-200	400	200	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	4	12	26	31	20	12	9
1250	9	5	15	31	37	24	13	10
1500	9	6	17	36	43	27	15	10
1800	9	7	20	43	50	32	17	12
2000	13	8	22	48	50	34	19	13
2400	12	9	24	50	50	38	20	14
3000	15	10	28	50	50	46	23	15





MODEL SLR3-100

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	width	height	width	height	
SONAIR SLR3-100	400	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	8	12	27	44	41	45	33	25
1250	10	14	32	43	47	50	37	28
1500	12	17	37	47	50	50	42	29
1800	14	20	43	50	50	50	47	32
2000	14	21	47	50	50	50	50	33
2400	16	25	50	50	50	50	50	37
3000	20	31	50	50	50	50	50	41

MODEL SLR3-150

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	width	height	width	height	
SONAIR SLR3-150	450	300	2250	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	6	9	23	30	34	32	22	15
1250	6	12	28	35	40	38	25	17
1500	6	14	32	40	46	45	27	18
1800	8	16	38	48	50	50	31	19
2000	8	18	41	50	50	50	33	21
2400	10	22	48	50	50	50	38	23
3000	12	27	50	50	50	50	44	28





MODEL SLR3-200

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR3-200	500	300	2500	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	8	19	24	26	22	16	11
1250	4	9	23	28	30	27	17	12
1500	6	11	28	33	35	30	20	12
1800	6	13	32	38	40	35	22	14
2000	8	15	35	42	44	38	23	15
2400	8	17	42	49	50	44	26	17
3000	10	22	50	50	50	50	30	18

MODEL SLR3-300

Size Range

	minimum (mm)		maximum (mm)		Lengths (mm)
	widht	height	widht	height	
SONAIR SLR3-300	600	300	2400	2100	500 to 4800

other dimensions possible upon request

Performance data

Noise Reduction

Length [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	Insertion Loss [dB] (EN ISO 7235 standards)							
1000	4	6	15	18	16	13	9	7
1250	4	7	19	21	20	14	10	7
1500	4	8	23	24	24	16	12	8
1800	6	10	27	28	28	19	12	8
2000	6	11	29	31	30	20	13	8
2400	8	13	34	36	36	22	14	8
3000	8	16	43	45	43	27	17	10





SONAIR SCS series

Standard Construction Codes



Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-50	100	200	500	[M]
			1000	[M]
	125	225	500	[M]
			1000	[M]
	150	250	500	[M]
			1000	[M]
	160	250	500	[M]
			1000	[M]
	200	300	500	[M]
			1000	[M]
	225	315	500	[M]
			1000	[M]
250	350	500	[M]	
		1000	[M]	
300	400	500	[M]	
		1000	[M]	
315	400	500	[M]	
		1000	[M]	

Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly bio-degradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

order example

SCS-50-DN250/1000 [M]

codes explained:

SCS-50 - Sound attenuator model with 50 mm thickness
 DN250/1000 - Nominal diam/Length
 Optional code [M] - Melinex infill

all type of Lengths possible upon request





SCS-50 Dn	standard Length (mm)	Static Attenuation (EN ISO 7235)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
100	500	3	5	8	14	23	30	18	13
	1000	4	9	15	27	42	50	43	25
125	500	3	4	7	12	21	23	21	10
	1000	4	7	12	23	38	42	29	20
150	500	2	3	7	10	19	17	9	9
	1000	3	6	10	20	35	30	19	15
160	500	2	3	6	10	18	17	8	8
	1000	3	5	9	19	34	30	18	15
200	500	1	2	5	9	16	13	5	6
	1000	2	4	8	16	31	22	12	11
225	500	1	2	5	8	15	12	4	4
	1000	2	4	7	15	29	20	10	9
250	500	1	2	4	8	14	10	3	4
	1000	2	3	6	14	28	17	8	9
300	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6
315	500	1	1	3	7	12	7	2	3
	1000	1	2	5	12	25	13	5	6

Other Lengths possible upon request





Circular Attenuators

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly biodegradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.

Fire class – A1

Option selection

[M] – Melinex lining

Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCS-100	250	450	500	[M]
			1000	[M]
	300	500	500	[M]
			1000	[M]
	315	500	500	[M]
			1000	[M]
	355	560	500	[M]
			1000	[M]
	400	600	500	[M]
			1000	[M]
	450	650	500	[M]
			1000	[M]
	500	700	500	[M]
			1000	[M]
			1250	[M]
			560	[M]
	560	710	1000	[M]
			1250	[M]
	600	800	600	[M]
			1000	[M]
	630	800	1250	[M]
			630	[M]
	630	800	1000	[M]
			1250	[M]
710	900	710	[M]	
		1000	[M]	
		1500	[M]	
800	1000	800	[M]	
		1000	[M]	
800	1000	1500	[M]	
		900	[M]	
900	1210	1500	[M]	
		2000	[M]	
1000	1250	1000	[M]	
		1500	[M]	
1000	1250	2000	[M]	
		1120	[M]	
1120	1400	1500	[M]	
		2000	[M]	
1250	1500	1250	[M]	
		1500	[M]	
		2000	[M]	

other diameters upon request

other Lengths possible upon request

order example

SCS-100-DN600/1000 [M]

codes explained:

SCS-100 - Sound attenuator model with 100 mm thickness
 DN600/1000 - Nominal diam/Length
 Optional code [M] - Melinex infill





SCS-100		Static Attenuation (EN ISO 7235)							
Dn	standard Length (mm)	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
250	500	2	4	7	14	21	13	6	5
	1000	3	8	14	26	33	21	11	9
300	500	2	3	6	13	18	10	4	4
	1000	3	6	12	24	29	16	8	7
315	500	2	3	6	13	18	10	4	4
	1000	3	6	12	24	29	16	8	7
355	500	2	3	5	11	16	9	4	3
	1000	3	6	11	22	27	14	9	8
400	500	1	3	6	12	17	8	3	3
	1000	2	5	11	23	25	12	5	5
450	500	1	3	6	15	13	11	9	7
	1000	2	5	10	22	23	11	4	5
500	500	1	2	6	15	12	10	8	7
	1000	2	4	10	21	22	10	4	4
	1250	2	6	14	30	27	13	5	6
560	560	1	2	6	15	12	10	8	7
	1000	2	4	10	21	22	10	4	4
	1250	2	6	14	30	27	13	5	6
600	600	1	3	8	17	14	12	7	6
	1000	2	6	11	22	16	15	9	7
	1250	3	7	14	28	21	17	12	11
630	630	1	3	8	17	14	12	7	6
	1000	2	6	11	22	16	15	9	7
	1250	3	7	14	28	21	17	12	11
710	710	1	3	9	15	11	9	8	8
	1000	2	4	9	21	14	12	9	8
	1500	3	5	13	17	17	14	11	9
800	800	2	4	9	12	11	8	7	5
	1200	3	5	15	25	34	28	16	13
	1500	3	6	17	32	43	35	21	17
900	1000	2	4	9	15	10	8	7	6
	1500	2	6	13	19	14	9	8	7
	2000	4	7	17	26	16	13	10	9
1000	1000	2	5	10	14	10	6	5	4
	1500	3	6	14	19	12	8	8	6
	2000	4	7	18	25	15	9	8	8
1120	1120	2	6	15	21	22	15	8	7
	1500	3	10	21	29	34	22	13	11
	2000	6	14	27	38	43	26	15	12
1250	1250	2	3	11	15	9	7	5	4
	1500	2	2	14	17	10	7	5	4
	2500	3	8	19	22	11	8	6	5

Other Lengths possible upon request





SONAIR SCT series

Standard Construction Codes



Circular Attenuators with central pod

Circular duct attenuator constructed from galvanised sheet steel, acoustic infill and perforated metal sheet, with central pod

Applications

For ventilation ducts or air conditioning installation, to reduce airborne noise transmission.

Materials

- Outer casing**
 -Outer casings of standard circular attenuators silencers shall be made of quality galvanized steel, [or 316/304 stainless steel, aluminum].
- Acoustic infill faced with perforated sheet steel**
 - Acoustically absorptive material of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be with laminated non-woven glass fibre fabric to provide protection against abrasion at air velocities of up to 20 m/s- Highly biodegradable, no health risk; moisture-repellent; rot-proof impregnation and non-flammable.
- Central Pod**

Fire class – A1

Option selection

[M] – Melinex lining

Attenuator series	nominal diameter Dn	external diameter Dx	standard Length (mm)	Optional code
SCT	315	500	500	[M]
			1000	[M]
	355	560	500	[M]
			1000	[M]
	400	600	500	[M]
			1000	[M]
	450	650	500	[M]
			1000	[M]
	500	700	500	[M]
			1000	[M]
	560	710	560	[M]
			1000	[M]
	600	800	1250	[M]
			600	[M]
	630	800	1000	[M]
			1250	[M]
	710	900	710	[M]
			1000	[M]
	800	1000	1500	[M]
			800	[M]
	900	1210	1000	[M]
			1500	[M]
	1000	1250	900	[M]
			1500	[M]
	1120	1400	1000	[M]
			1500	[M]
	1250	1500	1120	[M]
			1500	[M]
			2000	[M]
			1250	[M]
			1500	[M]
			2500	[M]

other diameters upon request

other Lengths possible upon request

order example

SCT-DN900/1500 [M]

codes explained:

SCT - Sound attenuator model
with central Pod
DN600/1000 - Nominal diam/Length
Optional code [M] - Melinex infill





SCT	standard Length (mm)	Static Attenuation (EN ISO 7235)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
315	500	2	5	9	16	21	20	21	18
	1000	4	9	15	27	34	45	39	27
355	500	2	4	8	15	19	19	17	15
	1000	5	8	14	25	32	41	37	25
400	500	1	4	8	14	18	17	16	14
	1000	3	7	13	25	40	38	29	21
450	500	1	4	7	14	16	16	14	12
	1000	3	7	12	24	39	35	26	18
500	500	1	3	7	13	16	15	13	11
	1000	2	6	12	23	38	33	24	17
	1250	5	9	16	30	50	50	33	21
560	500	1	3	6	13	15	14	11	10
	1000	2	6	11	22	36	31	21	15
	1250	4	8	15	30	50	48	29	19
600	500	1	3	6	12	15	13	10	9
	1000	2	5	11	21	34	29	19	13
	1250	4	8	14	29	50	44	26	16
630	500	1	3	6	12	15	13	10	9
	1000	2	5	11	21	34	29	19	13
	1250	4	8	14	29	50	44	26	16
710	500	1	3	6	12	14	12	9	8
	1000	2	5	10	20	33	27	17	12
	1500	4	7	13	28	50	41	23	14
800	500	1	2	5	11	13	11	8	7
	1000	2	5	9	19	31	25	14	10
	1500	3	6	13	26	49	37	20	12
900	1000	2	4	9	18	30	23	13	9
	1500	3	6	12	24	47	34	17	11
	2000	5	12	19	29	50	38	23	19
1000	1000	2	4	8	17	29	22	12	8
	1500	3	6	11	23	45	33	16	10
	2000	4	11	17	27	45	34	21	17
1120	1120	2	4	8	17	29	22	12	8
	1500	3	6	11	23	42	33	16	10
	2000	4	11	16	26	44	34	20	17
1250	1250	3	8	15	19	22	14	10	8
	1500	3	10	19	27	31	16	11	8
	2000	5	14	28	37	39	18	12	10

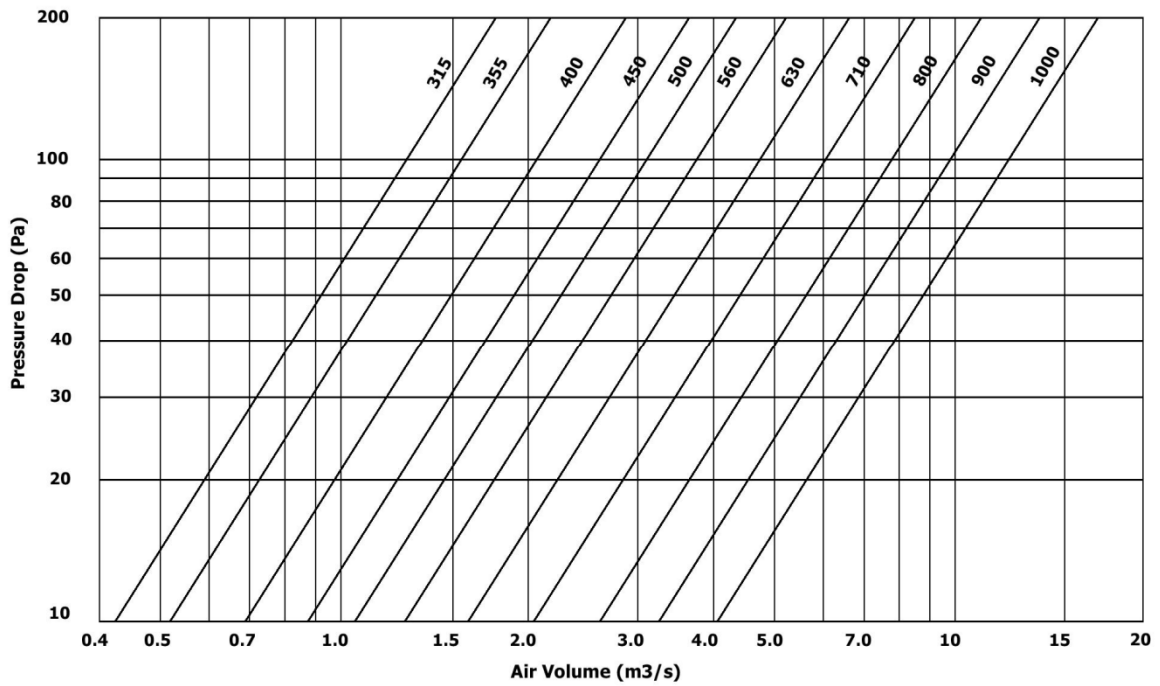
Other Lengths possible upon request





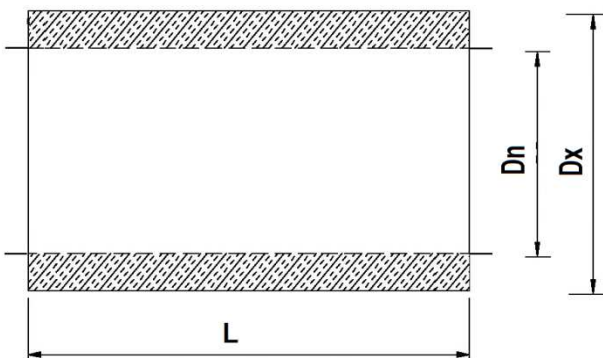
Pressure loss for SONAIR - SCT

circular sound attenuators with central Pod



Pressure Loss for SONAIR – SCS circular sound attenuator without central Pod is negligible

Sound Attenuator SCS series



Sound Attenuator SCT series

