



SONAIR SLR series

Metro Lines designed for 400/2 hours
Ventilation shafts
Tunnel ventilation



Splitter Attenuators

Rectangular duct attenuator constructed from galvanised sheet steel, with splitter type acoustic elements. provided with 40 mm profile flanges . 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 1,25 to 2,50 mm; quality galvanized steel.
- **Acoustic Splitters/Baffles**
 - Splitters shall be made of not less than 1,0 mm properly stiffened to ensure structural integrity; lock form quality, galvanized 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.
 - Perforated metal sheet - C1 to C5 special coating for corrosivity environments if required
- **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
SLR	SLR1-40	[Y]
	SLR1-50	[Y]
	SLR1-75	[Y]
	SLR1-100	[Y]
SLR	SLR2-50	[Y]
	SLR2-100	[Y]
	SLR2-150	[Y]
	SLR2-200	[Y]
SLR	SLR3-100	[Y]
	SLR3-150	[Y]
	SLR3-200	[Y]

order example

SLR3-150-2250/1800/2000-[2Y]

codes explained:

SLR3-150 - Sound attenuator model type
2250/1800/2000 - Dimensions - Widht/Height/Length
Optional code [2Y] - Aerodynamic shapped splitters/2 sides





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

