

Rectangular straight attenuator

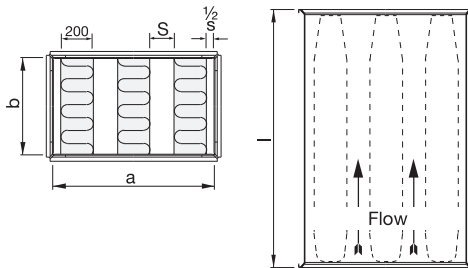
SLRS



Description

Rectangular straight attenuator from the Aerodim™ series. SLRS is built with the Aerodim™ attenuator splitter SLRA. The SLRA is manufactured with a frame of galvanized sheet and absorption material type Lindtec™. The splitter is available in a width of 200 mm. Attenuator is equipped with flange profile RJFP or LS. Due to the aerodynamic design, the SLRS has a low pressure loss and a low generation of flow noise. To calculate the attenuator, you can use our IT-online tool LindQST or DIMsilencer, where width, height, length and splitter distance can be optimized for the best performance. Tested according to ISO 7235 standard. SLRS is tested with the whole Lindab smoke evacuation system according to EN 1366-9.

Dimensions



* See how to calculate (S) from a given (a) in the separate AeroDim-SLRA-SLRS installations instruction page 4.

Order code

Product	SLRS	200	S*	a	b	l	c
SLRS							
Splitter width in mm	200 mm						
Splitter distance (S) in mm	Calculate*						
Width (a) in mm	Min. - Max. 400 - 2400 mm						
Height (b) in mm	Min. - Max. 200 - 2400 mm						
Length l_{nom} in mm	Min. - Max. 500 - 2550 mm						
Connection type	e.g. RJFP or LS						

Example: SLRS - 200 - 100 - 1200 - 900 - 1000 - RJFP

Technical data examples

Splitter distance S = 60

Length l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	4	9	18	26	35	32	22	16	8,9
1350	6	15	31	46	50	50	36	25	12,0
1500	7	16	34	50	50	50	39	27	12,9
1950	9	21	44	50	50	50	48	32	15,2
2550	11	26	50	50	50	50	50	37	18,5

Splitter distance S = 80

Length l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	3	7	15	23	30	27	18	14	4,9
1350	5	12	26	40	50	48	30	21	6,5
1500	5	14	29	44	50	50	32	22	6,9
1950	7	18	38	50	50	50	40	26	8,1
2550	8	22	47	50	50	50	49	31	9,6

Splitter distance S = 100

Length l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	3	6	13	20	26	22	15	11	2,8
1350	4	11	23	36	50	40	24	17	3,8
1500	5	12	26	40	50	44	27	18	4,0
1905	6	15	33	50	50	50	33	22	4,7
2550	7	19	43	50	50	50	40	26	5,6

Splitter distance S = 120

Length l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	2	6	12	19	23	18	12	9	1,8
1350	4	10	21	33	45	33	20	14	2,4
1500	4	11	23	36	50	36	22	15	2,5
1950	5	14	30	47	50	47	27	18	3,0
2550	6	18	39	50	50	50	33	22	3,5

Splitter distance S = 140

Length l_{nom} [mm]	Insertion loss [dB] for centre frequency [Hz]								Pressure value ξ
	63	125	250	500	1k	2k	4k	8k	
750	2	5	11	17	20	15	10	8	1,1
1350	3	9	19	30	39	27	17	12	1,5
1500	4	10	22	34	44	30	18	12	1,7
1950	4	12	28	44	50	38	22	15	2,0
2550	5	16	36	50	50	49	27	18	2,4

NB. Max. attenuation specified is 50 dB.
 Standard lengths (l) : 750, 1350, 1500, 1950, 2550.
 (shown in table above).
 Standard heights (b): 300, 600, 900, 1200, 1800.

(Other lengths and heights are available. See min. - max. dimensions in order code. Note that you can exceed the max. dimensions by building together several SLRA/SLRS. See the AeroDim installation instruction for more details).

Special materials and sizes, please contact Lindab sales. The pressure loss Δp in Pa can be calculated from the pressure value ξ : $\Delta p = 0,6 \times v^2 \times \xi$, where (v) is the velocity on the face area of the attenuator.