Airflow AC Middle East FZE-LLC





ACOUSTIC LOUVRE

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Description and use:

The Acoustic Louvres delivered in galvanized, RAL color, powder-coated (on customer request they can also be delivered in the ALMg3, or stainless-type). The sound insulating vents are filled with acoustic mineral wool and contained within perforated sheet for maximal sound insulation. The louvers can be optionally provided with a bird protection screen. The angle of the vents are so constructed that the vents can also be mounted as a connecting element in opening are as (inherent noise of the vents, pressure loss). The vent can be utilized in frames within walls or directly in an air conduit. The Acoustic louvre serve to reduce noises which are emitted through the vent openings in noise effected rooms into open areas. They are usually utilized in Plant room, Generator room, and noisy-intensive production areas.

Dimensions (standard dimensions):

Colour:

"A" (width) [mm]: 400; 500; 630; 800; 1000; 1250; 1400; 1600; 1800; 2000; 2250; 2500

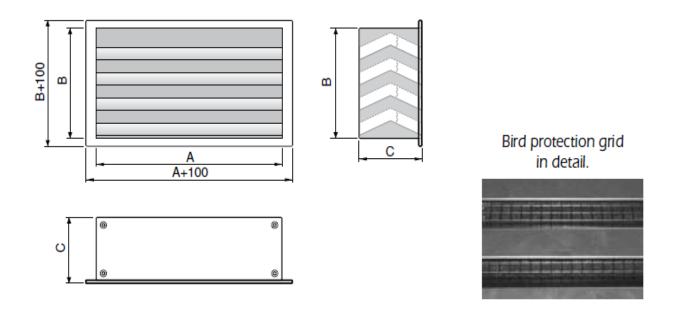
"B" (height) [mm]: 500; 630; 800; 1000; 1250; 1400; 1600; 1800; 2000; 2250; 2500

"C" (depth) [mm]: 400

Other dimensions on demand.

The dimensions indicated as "A" and "B" are in reality about 30mm smaller than the actual assembly aperture (due to easy installation). Example:

Install a vent in an air conduit from 1000x800 mm - "A" is 970 mm; "B" is 770 mm.)



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ACOUSTIC PARAMETERS

The damping capacity of a Acoustic louvre blades can be calculated by means of the ,,Methods for the Dimensioning of a Sound Insulating Vent", page 3. When planning a louvre, please pay attention that the air volume flow in a free cross section in front of the vent [dimension AxB] the desired damping [sound pressure value in defined point] and the source noise [sound capacity Lw (A)] are noted.

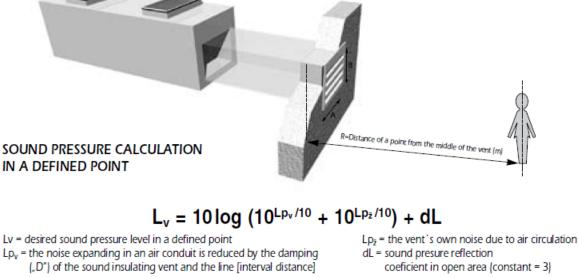
PRESSURE LOSSES FOR ACOUSTIC LOUVRE

											Air	veloci	ty in	m/s ir	n Profi	le Axi	в —	*
For heights of	0,5	0,7	0,9	1,1	1,3	1,5	1,7	2,0	2,3	2,6	2,9	3,2	3,5	3,8	4,1	4,4	4,6	5,0
	F																	
500 mm	3	5	6	14	22	29	35	44	68	90	117	143	170	221	270	287	298	320
600 mm	2	4,5	6	13	20	26	32	40	56	72	88	104	120	175	230	263	285	300
800 mm	2	4,5	6	13	20	25	29	35	47	60	73	87	100	155	210	227	239	260
1000 mm	2	4,5	6	13	20	25	29	35	47	60	73	87	100	155	210	227	239	260
1250 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
1400 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
1600 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
1800 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
2000 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
2250 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
2500 mm	1,5	4	5,5	9	14	18	22	28	40	50	63	88	90	130	160	180	194	220
	~												Pr	essur	e loss i	in Pa	\rightarrow	•

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METHODS FOR THE DIMENSIONING OF A SOUND INSULATING VENT



$$Lp_v = Lw_1 + 10 \log \frac{Q}{(4 x \pi x R^2)}$$

 $LW_1 = LW_A - D_t - D_{\tilde{z}}$

Lw1 = sound power level of the system "dB(A)"

Lw_A = sound power of the noise source "dB(A)"

Dt = transmission loss - reduction in sound level between two designated locations in a sound transmission system [distance] D₂ = insertion loss

$$Lp_{\tilde{z}} = Lw_{\tilde{z}} + 10 \log \frac{Q}{(4x\pi x R^2)}$$

Lw₂ = sound power level of the vent by defined speed of air circulation immediately in front of the vent R = distance of a point from the middle of the vent in "m"

Q = directional factor (defined by the planner - usually = 2)

EXAMPLE OF A CALCULATION

Performance target 800 dimension A of the vent mm dimension B of the vent 630 mm 2700 air-flow m³/h Distance of a point from the middle of the vent 2 m

2 m

SOUND POWER CAPACITY OF THE SOURCE (FAN, AIR CONDITIONING UNIT) L_W(A) TRANSMISSION LOSS OF THE LINE (LINES, SILENCER) D,

63	125	250	500	1000	2000	4000	8000
64	78	78	72,5	62,5	60,5	57	49
8	8	7	5	5	4	4	4

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The expanded noise in an air conduit is reduced by the damping "D" Lpv Vent self-noise = the part of vent background noise caused by vent Lp2 SOUND PRESSURE LEVEL IN DEFINED POINT Ly

63	125	250	500	1000	2000	4000	8000
27	46	45	35,5	16,5	13,5	13	8
10	13	10	5	0	0	0	0
30	49	48	39	22	20	18	13

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width	0,5	0,9	1,3	2	2,6	3,5	4,1	5
400 mm	12	2	37	48	55	63	19	72
500 mm	15	30	39	51	58	65	69	75
630 mm	18	31	41	52	65	67	71	76
800 mm	18	33	43	55	19	69	73	78
1000 mm	20	35	45	56	63	71	75	80
1250 mm	22	37	47	8	59	73	77	82
1400 mm	23	38	48	59	99	74	78	8
1600 mm	25	40	49	61	89	75	62	84
1800 mm	25	40	8	61	89	76	8	85
2000 mm	26	41	51	62	69	11	81	98
2250 mm				bremebuo	pore			
2500 mm					2			

Acoustic Louvre

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1250 mm 1400 mm 1600 mm

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TABLE OF VENT SELF-NOISE "Lw," (dB) WITH A HEIGHT OF 800mm

ACCORDING TO FREQUENCY RANGES

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TABLE OF SOUND POWER LEVEL , Lw," (JB) WITH A HEIGHT OF 500mm ACCORDING TO FREQUENCY RANGES

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TABLE OF SOUND POWER LEVEL , D₁" (dB) WITH A HEIGHT 500mm ACCORDING TO FREQUENCY RANGES

fm okt (Hz)	250 500 1000 2000 4000 8000	12 18 27 29 26	
	1000	27	
im okt (Hz)	2005	18	
-	250	12	
	125	10	
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TABLE OF VENT SELF-NOISE "Lw²" (dB) WITH A HEIGHT OF 1000mm

valid for all vent widths and velocities up to 5 m/s in cross section Ax B

TABLE OF SOUND POWER LEVEL "LW¹" (dB) OWITH A HEIGHT 800mm ACCORDING TO FREQUENCY RANGES

fm okt (Hz) 20 20

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fm okt (Hz) 500

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widths and velocities up to 5 m/s in cross section AxB valid for all vent

TABLE OF VENT SELF-NOISE "Lw¹" (dB) WITH A HEIGHT OF 630mm

Velocity in Pr	width 0,5 0,9	400 mm 8 23	500mm 10 26	630 mm 12 27	800 mm 14 29	1000 mm 16 31	1250 mm 18 33	1400 mm 19 34	1600 mm 20 36	1800 mm 21 36	2000 mm 22 37	2250 mm	2500 mm
Velocity in Profile AxB in front of the vent with a height of 630mm [m/s]	1,3	33	35	37	39	41	43	44	45	46	47		
: of the vent wit	2	44	46	48	50	52	73	55	56	57	58	han dama hana	
h a height of 6	2,6	51	33	55	57	20	61	62	63	64	65		
30mm (m/s)	35	59	61	62	65	66	68	69	71	72	72		
	4,1	63	65	67	69	71	73	¥.	75	76	11		
	2	68	70	72	74	8	78	29	80	81	82		

TABLE OF VENT SELF-NOISE "Lw;" (dB) WITH A HEIGHT OF 630mm

		4000	-12
•		2000	-13
ACCORDING TO FREQUENCY RANGE:		1000	-12
OFICEOUEN	fm okt (Hz)	500	-14
OKUNG	ł	250	-13
ACI		125	-10
		63	-13
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ACCORDING TO FREQUENCY RANGES	fm okt (Hz)

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ACCORDING TO FREQUENCY RANGES	fm okt (Hz)

TABLE OF SOUTHD BOWNED LEVEL D. "LIGHT A HEIGHT (20	

00mm	HEIGHT 10	B) WITH A H	ND POWER LEVEL "D [*] (dB) WITH A ACCORDING TO FREQUENCY RANGE	POWER LEY CORDING T	TABLE OF SOUND POWER LEVEL "D [*] (dB) WITH A HEIGHT 1000mm ACCORDING TO FREQUENCY RANGES	TABLE]	
-17	-13	-12	-14	-13	-10	-13	loss*		-24
400	2000	1000	500	250	125	63		•	8000

loss*	63 125 -13 -10	-13	500 -14	1000 -12	2000 -13	4000	8000 -24
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		4000	-12
		2000	-13
		1000	-12
	fm okt (Hz)	500	-14
	y	250	-13
		125	-10
		63	-13
			loss*
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TABLE OF VENT SELF-NOISE "Lw," (dB) WITH A HEIGHT OF 1000mm ACCORDING TO FREQUENCY RANGES

width	0,5	99	1,3	2	2,6	3,5	4,1	5
400 mm	2	23	32	44	50	88	62	67
500 mm	10	25	35	46	53	61	65	70
630 mm	11	27	36	48	54	62	8	71
800 mm	13	29	38	50	56	64	89	73
1000 mm	15	31	40	52	58	99	70	75
1250 mm	21	33	42	55	09	8	72	17
1400 mm	81	34	43	54	19	69	73	78
1600 mm	କ	35	45	ĸ	63	11	75	29
1800 mm	20	36	45	57	63	71	75	8
2000 mm	21	37	46	8	64	72	76	81
2250 mm				pnemob no	puem			
2500 mm				2010				

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width	5'0	60	1,3	2	9'2	3'5	1'5	
400 mm	7	23	32	44	50	88	62	
500 mm	10	25	35	46	53	61	59	
630 mm	11	27	36	48	54	62	99	
800 mm	13	29	38	50	56	64	89	
1000 mm	15	31	40	52	58	99	02	
1250 mm	21	33	42	55	09	89	72	
1400 mm	81	34	43	¥5	19	69	23	
1600 mm	8	35	45	8	63	11	75	
1800 mm	20	36	45	57	63	71	75	
2000 mm	21	37	46	8	64	72	9/	
2250 mm				on de	buemeh ne			
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valid for all vent widths and velocities up to 5 m/sin cross section AxB

- valid for all vent widths and velocities up to 5 m/s in cross section AxB

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TA BLE OF VENT SELF-NOISE "Lw^{3,"} (dB) WITH A HEIGHT OF 1250mm

Ax B in front of the vent with a height of 1250

5	59	62	63	65	67	69	0/	11	72	23		
4,1	54	57	58	60	62	64	65	67	67	89		
3,5	8	3	54	56	58	60	61	63	63	64		
2,6	43	46	47	49	5	53	55	56	56	57	b ne man de	
2	35	8	39	42	43	45	46	48	49	49	on do	00.00
1,3	24	27	28	30	32	34	35	37	37	38		
0,9	15	17	19	Z	23	25	26	27	28	29		
0,5	0	2	з	5	7	9	10	12	12	13		
width	400mm	500mm	630mm	800mm	1000mm	1250mm	14 00mm	1600mm	1800mm	2000mm	2250mm	2500mm

TABLE OF VENT SELF-NOISE "Lw₂" (db) WITH A HEIGHT OF 1250mm ACCORDING TO FRE OLIENCY RANGES

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	fm okt (Hz)	500	ዋ
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		8	-18

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2000

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fm okt (Hz) 200

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125

TABLE OF VENT SELF-NOISE "Lw," (dB) WITH A HEIGHT OF 1600mm ACCORDING TO FREQUENCY RANGES

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TABLE OF SOUND POWER LEVEL "D²" (dB) WITH A HEIGHT 1600mm ACCORDING TO FREQUENCY RANGES

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valid for all vent widths and velocities up to 5 m/s in cross section AxB

TABLE OF VENT SELF-NOISE "Lw^{3,"} (dB) WITH A HEIGHT OF 1800mm

dty in Profile AxB in front of the vent with a height of 1800r

TABLE OF SOUND POWER LEVEL "D¹" (dB) WITH A HEIGHT 1250mm ACCORDING TO FREQUENCY RANGES

	8000	33	
	4000	36	
	2000	29	
	1000	27	
fm okt (Hz)	500	18	
ų	250	12	
	125	10	
	63	15	
		loss*	

vaild for all vent widths and velocities up to 5 m/s in cross section AxB

TA BLE OF VENT SELF-NOISE "Lw^{3,"} (dB) WITH A HEIGHT OF 1400mm

width 0,5 0,9 4.00mm 0 12 5.00mm 0 15	0 12					
00	2	2	2,6	3,5	4,1	ŝ
c	2 22	33	43	48	52	57
>	15 24	36	45	50	54	59
630mm 1 16	16 26	37	47	52	95	19
m	82	39	49	54	58	63
000mm 5 20	30	41	51	56	90	65
250mm 7 22	2 32	43	53	58	62	19
400mm 8 23	ж 	44	55	59	63	89
600mm 9 25	5 8	46	55	60	64	69
800mm 10 2	25 35	46	56	61	65	70
2000mm 11 26	36	47	22	62	99	71
2250mm			1			
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TABLE OF VENT SELF-NOISE "Lw2" (dB) WITH A HEIGHT OF 1400m	

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TABLE OF VENT SELF-NOISE "Lw ¹ " (dB) WITH A HEIGHT OF 1400mm	
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	200	250	125	63

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TABLE OF SOUND POWER LEVEL "D¹" (dB) WITH A HEIGHT 1800mm ACCORDING TO FREQUENCY RANGES

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* - valid for all vent widths and velocities up to 5 m/s in cross section AxB

			3	m okt (Hz)				
	8	125	250	500	1000	2000	4000	8000
loss*	-18	6-	-11	6-	-5	9	-10	-17

	8000	-17
	4000	-10
	2000	ę
	1000	ş
fm okt (Hz)	500	9
Ŧ	250	ŧ,
	125	٩
	8	-18
		*000

ACCORDING TO FREQUENCY RANGES

	Omm	HT OF 180	1TH A HEIG	Lw [*] (dB) X	ELF-NOISE	Table of Vent Self-Noise _Lw." (dB) with a height of 1800mm	TABLE	
				onderrand				2500mm
			-	and and				2250mm
76	71	67	59	53	41	32	16	2000mm
75	70	66	88	52	40	31	15	1800mm
74	69	65	57	51	39	30	14	1600mm
73	68	64	56	49	88	29	13	14.00mm
72	67	63	55	48	37	28	12	1250mm
70	65	61	53	47	35	26	10	1000mm
68	63	59	51	45	33	功	8	800mm
66	61	57	49	43	31	22	6	630mm
65	60	56	48	41	30	20	5	500mm
62	57	53	45	39	2	18	8	4 00mm
5	4,1	3,5	2,6	2	51	0,9	0,5	width
		and	and the second second					



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500mm

400mm 30mm

Midth

000mm

TABLE OF VENT SELF-NOISE "Lw^{3,"} (dB) WITH A HEIGHT OF 1600mm

xBin



TABLE OF VENT SELF NOISE "Lwz" (dB) WITH A HEIGHT OF 2000mm

		Velocity in prof	ile AxB in front	of the vent wit	h a height of 2	2000mm (m/s)		
width	0,5	0,9	1,3	2	2,6	3,5	4,1	5
400 mm	3	18	27	39	45	53	57	62
500 mm	5	20	30	41	48	56	60	65
630 mm	6	22	31	43	49	57	61	66
800 mm	8	24	33	45	51	59	63	68
1000 mm	10	26	35	47	53	61	65	70
1250 mm	12	28	37	48	55	63	67	72
1400 mm	13	29	38	49	56	64	68	73
1600 mm	14	30	39	51	57	65	69	74
1800 mm	15	31	40	52	58	66	70	75
2000 mm	16	32	41	53	59	67	71	76
2250 mm		•		on de	mand		•	
2500 mm				Girde				

TABLE OF VENT SELF NOISE "Lw²" (dB) WITH A HEIGHT OF 2000mm ACCORDING TO FREQUENCY RANGES

		10	CONDING	OTREGOEI				
				fm okt (Hz)				
	63	125	250	500	1000	2000	4000	8000
loss	-18	-9	-11	-9	-5	-6	-10	-17

TABLE OF SOUND POWER LEVEL "D₂" (dB) WITH A HEIGHT OF 2000mm ACCORDING TO FREQUENCY RANGES

				fm okt (Hz)				
	63	125	250	500	1000	2000	4000	8000
loss*	15	10	12	18	27	29	26	23

* - valid for vent widths and velocities up to 5 m/s in cross section AxB

WEIGHTS OF THE SOUND INSULATING VENT (kg)

A mm / B mm	500	630	800	1000	1250	1400	1600	1800	2000	2250	2500
400	28,5	34,9	42,7	51,8	64,0	71,1	79,9	88,7	97,6	102,0	113,0
500	34,0	41,7	50,9	61,4	76,3	84,7	95,2	105,7	116,2	120,0	134,0
630	41,2	50,5	61,6	74,2	92,3	102,5	115,1	127,7	140, 3	145,0	161,0
800	50,6	62,0	75,7	91,0	113,2	125,7	114,1	156,5	171,9	177,0	197,0
1000	61,7	75,5	92,1	110,8	137,8	153,0	171,7	190,4	209,0	215,0	240,0
1250	75,5	92,5	112,7	135,5	168,6	187,2	209,9	232,7	255,5	263,0	292,0
1400	79,8	102,6	125,1	150, 3	187,0	207,7	232,9	258,1	283,3	291,0	324,0
1600	94,9	116,2	141,6	170,1	211,7	235,0	263,5	292,0	320,5	330,0	367,0
1800	106,0	129,7	158,1	189,8	236,3	262,3	294,1	325,8	357,6	367,0	409,0
2000	117,0	143,3	174,6	209,6	260,9	289,7	324,7	359,7	394,8	405,0	451,0
2250	121,0	148,0	180,0	215,0	266,0	295,0	330,0	366,0	402,0	453,0	504,0
2500	134,0	163,0	198,0	237,0	294,0	326,0	365,0	404,0	444,0	500,0	557,0

FREE SURFACE OF THE SOUND INSULATING VENT KLASIK

height (B) (mm)	free surface (%)		width	n "A" (mm) / fr	ee surface v (m²)	
500	32%	500	0,080	630	0,101	800	0,128
630	38%	500	0,120	630	0,151	800	0,192
800	40%	500	0,160	630	0,202	800	0,256
1000	40%	500	0,200	630	0,252	800	0,320
1250	45%	500	0,280	630	0,353	800	0,448
1400	46%	500	0,320	630	0,403	800	0,512
1600	45%	500	0,360	630	0,454	800	0,576
1800	44%	500	0,400	630	0,504	800	0,640
2000	44%	500	0,440	630	0,554	800	0,704
2250	44%	500	0,495	630	0,624	800	0,792
2500	44%	500	0,550	630	0,693	800	0,880
500	32%	1000	0,160	1250	0,200	1400	0,224
630	38%	1000	0,240	1250	0,300	1400	0,336
800	40%	1000	0,320	1250	0,400	1400	0,448
1000	40%	1000	0,400	1250	0,500	1400	0,560
1250	45%	1000	0,560	1250	0,700	1400	0,784
1400	46%	1000	0,640	1250	0,800	1400	0,896
1600	45%	1000	0,720	1250	0,900	1400	1,008
1800	44%	1000	0,800	1250	1,000	1400	1,120
2000	44%	1000	0,880	1250	1,100	1400	1,232
2250	44%	1000	0,990	1250	1,238	1400	1,386
2500	44%	1000	1,100	1250	1,375	1400	1,540

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Acoustic Louvre

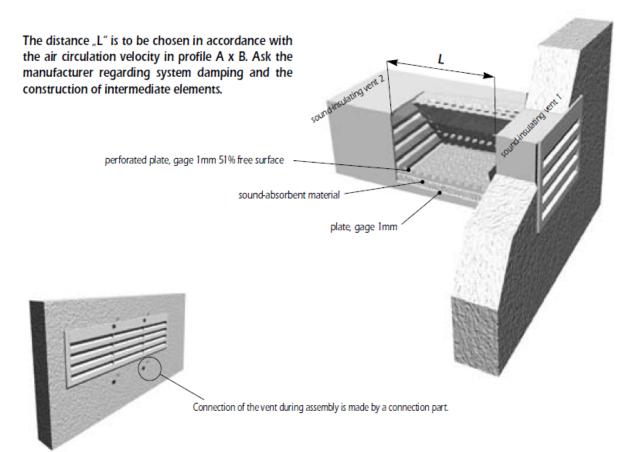


height (B) (mm)	free surface (%)		widt	h "A″ (mm) / fr	ee surface v (m²)	
500	32%	1600	0,256	1800	0,288	2000	0,320
630	38%	1600	0,384	1800	0,432	2000	0,480
800	40%	1600	0,512	1800	0,576	2000	0,640
1000	40%	1600	0,640	1800	0,720	2000	0,800
1250	45%	1600	0,896	1800	1,008	2000	0,120
1400	46%	1600	1,024	1800	1,152	2000	0,280
1600	45%	1600	1,152	1800	1,296	2000	1,440
1800	44%	1600	1,280	1800	1,440	2000	1,600
2000	44%	1600	1,408	1800	1,584	2000	1,760
2250	44%	1600	1,584	1800	1,782	2000	1,980
2500	44%	1600	1,760	1800	1,980	2000	2,200
500	32%	2250	0,360	2500	0,400		
630	38%	2250	0,539	2500	0,599		
800	40%	2250	0,720	2500	0,800		
1000	40%	2250	0,900	2500	1,000		
1250	45%	2250	1,266	2500	1,406		
1400	46%	2250	1,449	2500	1,610		
1600	45%	2250	1,620	2500	1,800		
1800	44%	2250	1,782	2500	1,980		
2000	44%	2250	1,980	2500	2,200		
2250	44%	2250	2,228	2500	2,475		
2500	44%	2250	2,475	2500	2,750		

FREE SURFACE OF THE SOUND INSULATING VENT KLASIK

Installation:

ALIGNMENT OF THE SOUND INSULATING VENT BEHIND ONE ANOTHER



Alignment of the sound insulating vent beside one another

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