

RECTANGULAR SILENCERS ACC-SP



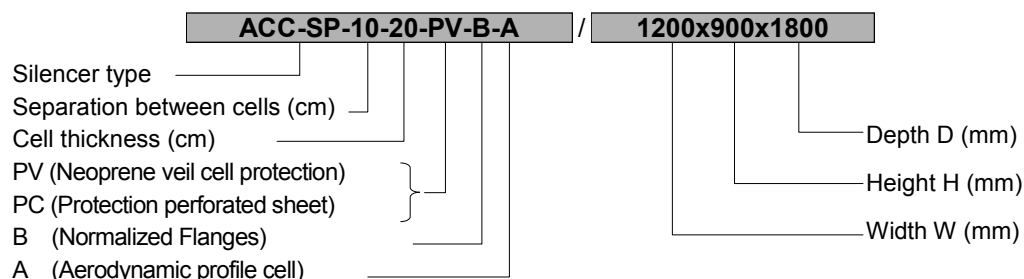
APPLICATIONS

Rectangular silencers with absorbent cell are designed for noise attenuation in ventilation, industrial, domestic, cogeneration, rail and naval engine main room, adapted to the acoustic requirements of each of the cases.

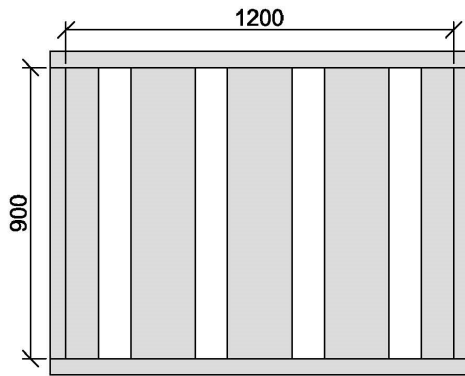
DESCRIPTION

- Metal plates can be galvanized Steel, stainless Steel and aluminium, with thickness calculated for low and medium pressure. Specified construction for pressures higher than 80 mm w.c.
- Absorbent material manufactured by diverse density inorganic and fireproof fibres. Calculated and selected on the basis of the predominant frequencies to treat.
- Absorbent material protection by hot galvanized perforated plate, with the adequate diameter and surface to ensure the adequate attenuation of the predominant frequencies.
- Normalized stiffening flanges, calculated for adequate loads.
- Aerodynamic design on the front face air inlet for the reduction of regenerated noise and pressure drop by 10%.
- Accessories: acoustic plenums, ventilators, sand and dust filter, protective grille and damper controls.
- Demountable systems for maintenance and access to equipment.

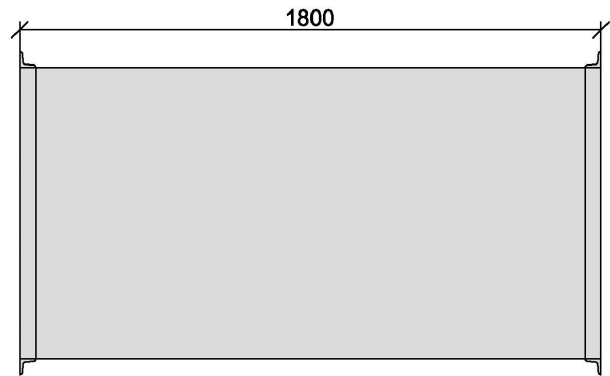
REFERENCE FOR ORDERING



DIMENSIONAL FEATURES



FRONTAL VIEW



SIDE VIEW

*mm

ACOUSTIC ABSORPTION, INTERNAL MATERIAL

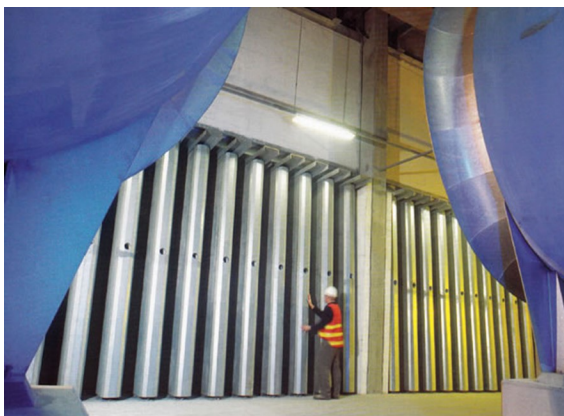
Frequency Hz		125	250	500	1.000	2.000	4.000
Thickness (mm)	50	0,13	0,40	0,72	0,85	0,95	0,80
	60	0,23	0,62	0,90	0,93	0,95	0,94
	70	0,30	0,72	0,91	0,93	0,98	0,97
	80	0,38	0,81	0,94	0,96	0,98	0,98

Sabine unit α S.
Norm ISO R-354

ACOUSTIC ABSORPTION, EXTERNAL MATERIAL

Frequency Hz		125	250	500	1.000	2.000	4.000
Thickness (mm)	30	0,10	0,34	0,69	0,84	0,93	0,91
	50	0,17	0,52	0,90	0,95	0,97	0,90
	60	0,30	0,67	0,95	0,99	0,99	0,97

Sabine unit α S.
Norm ISO R-354



More Information in www.accentoacustica.es

SELECTION BOARD ACC-SP-10-20

Selection based on airflow:

V=m/s Ps=mm w.c		5 1,2	7,5 2,4	10 5	12,5 7,3	15 10,1	17,5 14,6
W X H		AIRFLOW m³/h					
600 X 500		1800	2740	3580	4480	5400	6310
900 X 500		2680	4120	5410	6750	8150	9480
1200 X 500		3650	5410	7210	9180	10810	12650
600 X 600		2160	3240	4320	5400	6480	7560
900 X 600		3240	4860	6480	8100	9720	11340
1200 X 600		4320	6480	8640	10800	12960	15120
1500 X 600		5400	8100	10800	13500	16200	18900
1800 X 600		6480	9720	12960	16200	19440	22680
900 X 900		4860	7190	9720	12150	14580	17010
1200 X 900		6480	9720	12960	16200	19440	22680
1500 X 900		8100	12150	16200	20250	24300	28350
1800 X 900		9720	14580	19440	24300	29160	34020
2100 X 900		11340	17010	22680	28350	34020	39690
2400 X 900		12960	19440	25920	32400	38880	45360
1200 X 1200		8640	12960	17280	21600	25920	30240
1500 X 1200		10800	16200	21600	27000	32400	37800
1800 X 1200		12960	19440	25920	32400	38880	45360
2100 X 1200		15120	22680	30240	37800	45360	52920
2400 X 1200		17280	25920	34560	43200	51840	60480
2700 X 1200		19440	29160	38880	48600	58320	68040
3000 X 1200		21600	32400	43200	54000	64800	75600
1500 X 1500		13770	20655	2754	34425	41310	48195
1800 X 1500		16524	24786	33048	41310	49572	57834
2100 X 1500		19278	28917	38556	48195	57834	67473
2400 X 1500		22032	33048	44064	55080	66096	77112
2700 X 1500		24786	37179	49572	61965	74358	86751
3000 X 1500		2754	41310	55080	68850	82620	96390
1800 X 1800		19829	29743	39658	49572	59486	69401
2100 X 1800		23134	34700	46267	57834	69401	80968
2400 X 1800		26438	39658	52877	66096	79315	92534
2700 X 1800		29743	44615	59486	74358	89230	104101
3000 X 1800		33048	49572	66096	82620	99144	115668

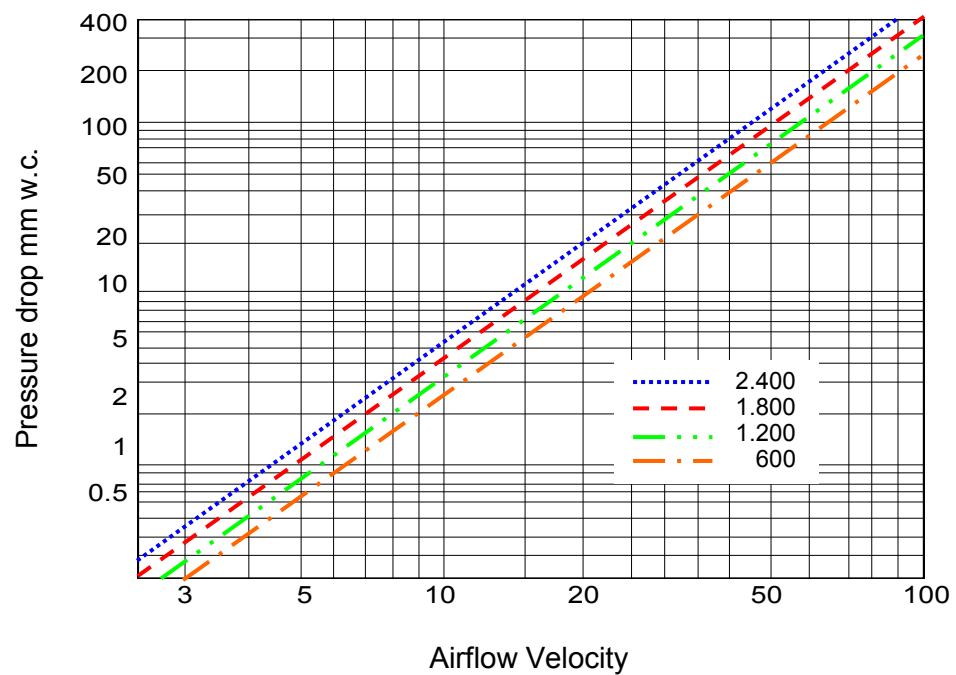
Generated noise (dB)	125	31	34	39	44	50	56
	250	26	32	36	41	46	49
	500	22	25	32	40	43	46
	1K	16	21	27	33	39	45
	2K	13	15	22	27	35	38
	4K	8	11	16	21	28	33

SELECTION BOARD ACC-SP-10-20

Attenuation Ref. ^a (10^{-12} Watt) dB

DEPTH	63	125	250	500	1K	2K	4K	8K
600	6	10	16	18	23	23	16	13
900	7	12	21	27	35	33	26	21
1200	8	13	25	38	47	45	35	28
1500	9	17	35	47	50	50	45	36
1800	10	20	40	50	50	50	50	43
2100	11	23	46	50	50	50	50	50
2400	12	25	50	50	50	50	50	50

Pressure drop vs length



NOTES:

- Pressure drop for 1200 mm length. For others lengths see the pressure drop graph.
- Attenuation in dB.
- Dimensions W x H in mm.
- Pressure drop with aerodynamic cell, 10% lower.
- Regenerated noise with aerodynamic cell, 7 % lower.
- For others dimensions to consult.

SELECTION BOARD ACC-SP-15-20

Selection based on airflow:

V=m/s Ps=mm w.c.		5 0,9	7,5 1,9	10 3,5	12,5 5,8	15 8,2	17,5 11
W X H		Airflow m³/h					
700 X 500		2650	4050	5400	6750	8100	9500
1050 X 500		4180	6080	8100	10220	12200	13950
700 X 600		3240	4860	6480	8100	9720	11340
1050 X 600		4860	7290	9720	12150	14580	17010
1400 X 600		6480	9720	12960	16200	19440	22680
1600 X 600		8100	12150	16200	20250	24300	28350
700 X 900		4860	7290	9720	12150	14580	17010
1050 X 900		7290	10935	14580	18225	21870	25515
1400 X 900		9720	14580	19440	24300	29160	34020
1750 X 900		12150	18225	24300	30375	36450	42525
2100 X 900		14580	21870	29160	36450	43740	51030
2450 X 900		17010	25515	34020	42525	51030	59535
1050 X 1200		9720	14580	19440	24300	29160	34020
1400 X 1200		12960	19440	25920	32400	38880	45360
1750 X 1200		16200	24300	32400	40500	48600	56700
2100 X 1200		19440	29160	38880	48600	58320	68040
2450 X 1200		22680	34020	45360	56700	68040	79380
2800 X 1200		25920	38880	51840	64800	77760	90720
1400 X 1500		16524	24786	33048	41310	49572	57834
1750 X 1500		20655	30983	41310	51638	61965	72293
2100 X 1500		24786	37179	49572	61965	74358	86751
2450 X 1500		28917	43376	57834	72293	86751	101210
2800 X 1500		33048	49572	66096	82620	99144	115668
3150 X 1500		37179	55769	74358	92948	111537	130127
3500 X 1500		41310	61965	82620	103275	123930	144585
1750 X 1800		24786	37179	49572	61965	74358	86751
2100 X 1800		29743	44615	59486	74358	89230	104101
2450 X 1800		34700	52051	69401	86751	104101	121451
2800 X 1800		39658	59486	79315	99144	118973	138802
3150 X 1800		44615	66922	89597	111537	133844	156152
3500 X 1800		49572	74358	99144	123930	148716	173502

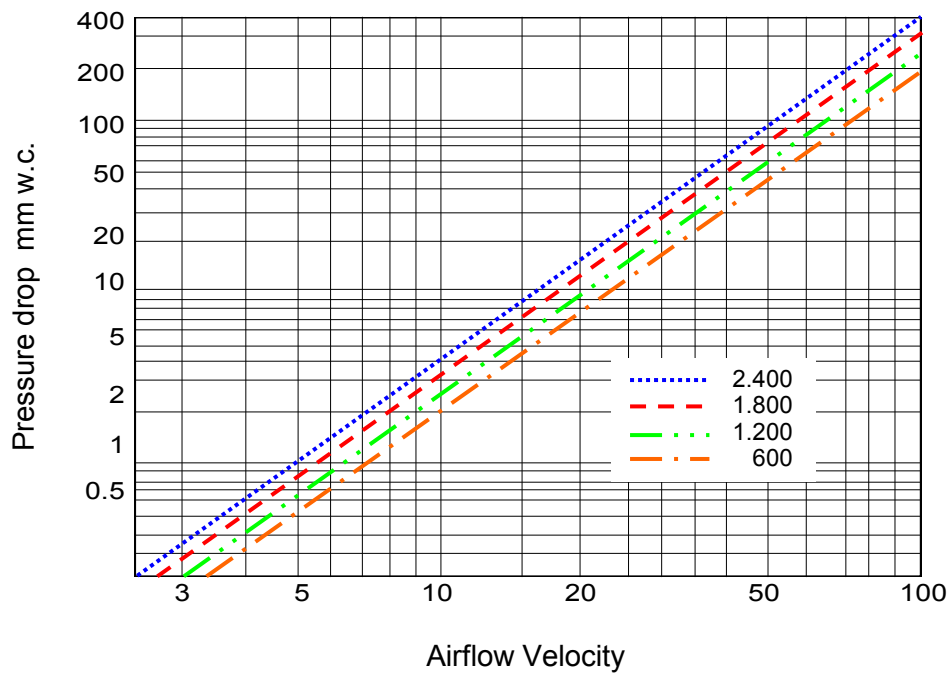
Generated noise (dB)	125	32	31	40	42	50	50
	250	27	34	37	42	47	49
	500	23	26	34	40	45	48
	1K	15	21	28	35	40	41
	2K	12	17	23	28	34	36
	4K	9	10	16	22	26	34

SELECTION BOARD ACC-SP-15-20

Attenuation Ref. ^a (10^{-12} Watt) dB

DEPTH	63	125	250	500	1K	2K	4K	8K
600	4	9	11	15	20	17	9	7
900	5	10	15	23	30	25	15	12
1200	6	12	20	33	39	32	21	17
1500	7	12	25	40	49	41	26	22
1800	7	14	29	48	50	48	31	26
2100	8	16	33	50	50	50	36	30
2400	9	19	37	50	50	50	42	34

Pressure drop vs length



NOTES:

- Pressure drop for 1200 mm length. For others lengths see the pressure drop graph.
- Attenuation in dB.
- Dimensions W x H in mm.
- Pressure drop with aerodynamic cell, 10% lower.
- Regenerated noise with aerodynamic cell, 7 % lower.
- For others dimensions to consult.

SELECTION BOARD ACC-SP-20-20

Selection based on airflow:

V=m/s Ps=mm w.c.	5 0,7	7,5 1,5	10 3	12,5 4,6	15 7	17,5 9,6
W X H	AIRFLOW m ³ /h					
400 X 500	1820	2700	3630	4500	5400	6300
800 X 500	3680	5400	7200	9000	10810	12650
1200 X 500	3460	8100	10890	13500	16200	18900
400 X 600	2160	3240	4320	5400	6480	7560
800 X 600	4320	6480	8640	10800	12960	15120
1200 X 600	6480	9720	12960	16200	19440	22680
1600 X 600	8640	13960	17280	21600	25920	30240
800 X 900	6480	9720	12960	16200	19440	22680
1200 X 900	9720	14580	19440	24300	29160	34020
1600 X 900	12960	19440	25920	32400	38880	45360
2000 X 900	16200	24300	32400	40500	48600	56700
2400 X 900	19440	29160	38880	48600	58320	68040
800 X 1200	8640	12960	17280	21600	25920	30240
1200 X 1200	12960	19440	25920	32400	38880	45360
1600 X 1200	17280	25920	34560	43200	51840	60480
2000 X 1200	21600	32400	43200	54000	64800	75600
2400 X 1200	25920	38880	51840	64800	77760	90720
2800 X 1200	30240	45360	60480	75600	90720	105840
3200 X 1200	34560	51840	69120	86400	103680	120960
1200 X 1500	16524	24786	33048	41310	49572	57834
1600 X 1500	22032	33048	44064	55080	66096	77112
2000 X 1500	27540	41310	55080	68850	82620	96390
2400 X 1500	33048	49572	66096	82620	99144	115668
2800 X 1500	38556	57834	77112	96390	115668	134946
3200 X 1500	44064	66096	88128	110160	132192	154224
3600 X 1500	49572	74358	99144	123930	148716	173502
1600 X 1800	26438	39658	52877	66096	79315	92534
2000 X 1800	33048	49572	66096	82620	99144	115668
2400 X 1800	39658	59486	79315	99144	118973	138802
2800 X 1800	46267	69401	92534	115668	138802	161935
3200 X 1800	52877	79315	105754	132192	158630	185069
3600 X 1800	59486	89230	118973	148716	178459	208202
4000 X 1800	66096	99144	132192	165240	198288	231336

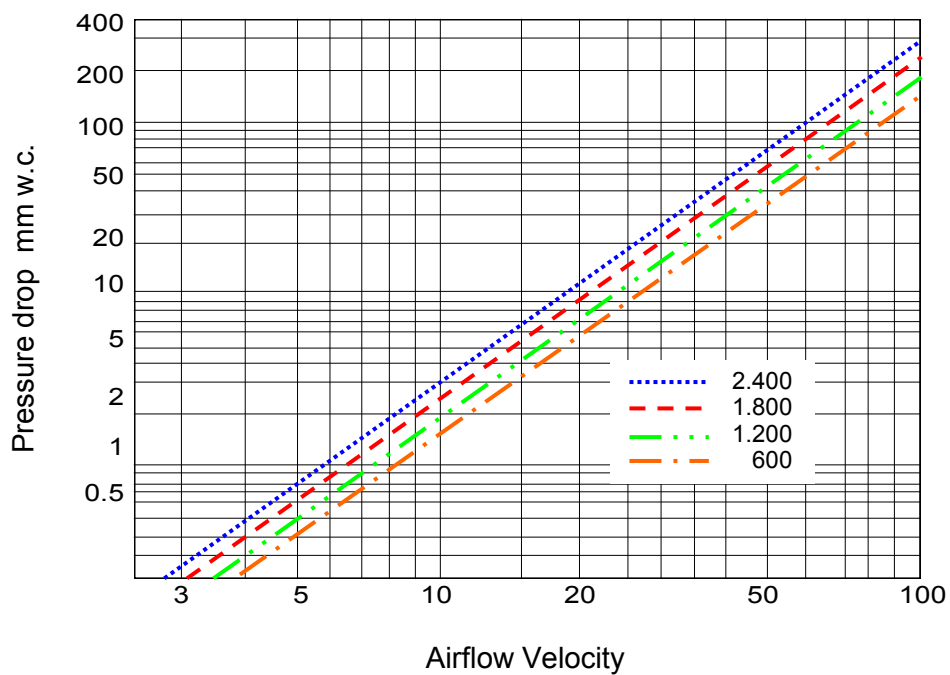
Generated noise (dB)	125	32	32	41	42	50	51
	250	28	34	37	41	48	48
	500	23	26	34	40	43	46
	1K	17	22	28	36	41	41
	2K	13	18	24	28	34	35
	4K	9	10	16	23	26	34

TABLAS DE SELECCIÓN ACC-SP-20-20

Attenuation Ref. ^a (10^{-12} Watt) dB

DEPTH	63	125	250	500	1K	2K	4K	8K
600	3	5	10	13	16	13	7	6
900	4	8	12	21	24	19	10	8
1200	5	9	15	26	32	26	14	11
1500	5	11	17	34	40	32	17	14
1800	6	12	21	41	48	38	21	17
2100	8	14	25	48	50	45	24	19
2400	9	15	28	50	50	50	28	23

Pressure drop vs length



NOTES:

- Pressure drop for 1200 mm length. For others lengths see the pressure drop graph.
- Attenuation in dB.
- Dimensions W x H in mm.
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