

Excelair
Acoustic Louvers

EXCELAIR

Since 1982

ACOUSTIC LOUVERS

Model: ACL-600

Acoustic louvers are used in Air intake and exhaust applications with the dual function of weather protection and airborne sound reduction. Suitable for commercial and industrial applications.

Constructional Details

- Frame**
Frame is made of 0.90mm thickness galvanized steel sheet.

Blades
Double wall galvanized steel blade filled with acoustic infill. Top of the blade is made of 0.90mm galvanized steel sheet and the bottom is from 0.70mm galvanized steel perforated sheet.

Infill
64kg/m3 density sound absorbing Rockwool insulation with Black Glass Tissue Facing to avoid the erosion of fiber particles in high airway velocities.
- Screen**
12.5 x 12.5mm galvanized steel bird screen

Mounting
Vertical

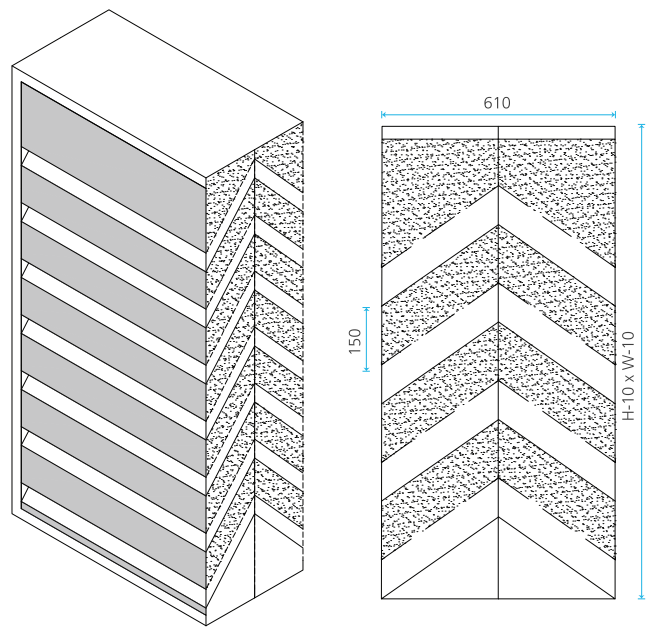
Finish
Factory mill finish
Powder Coated (Optional)

Minimum single section
300 x 350mm

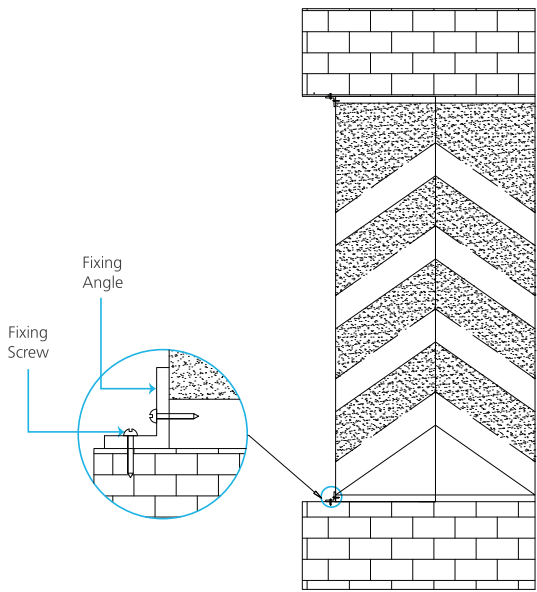
Maximum single section
1500 x 3000mm (larger sizes are manufactured in multiple pieces for assembling at site)

Optional Constructions:
1. Aluminum 2. Stainless Steel

Dimensional Details



Installation Details



Acoustic Performance

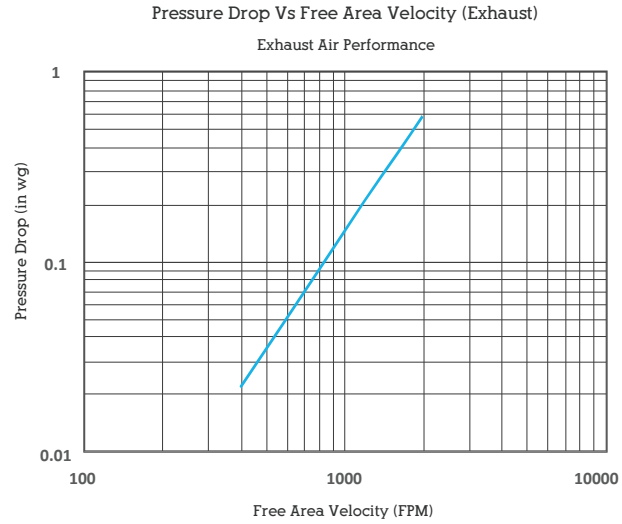
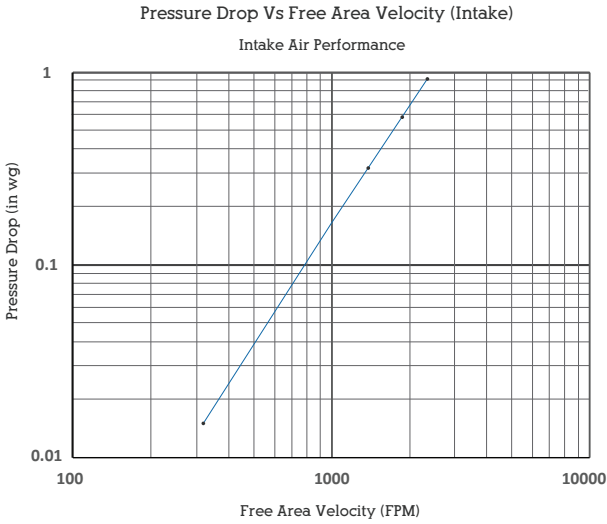
Frequency (Hz)	125	250	500	1000	2000	4000	STC
Transmission Loss (dB)	11	17	16	17	21	21	17
Free Field Noise Reduction (dB)	17	23	22	23	27	27	

● Free Field Noise Reduction = Transmission Loss + 6 dB ● STC - Sound Transmission Coefficient

Free Area Chart
Louver Width mm (Inch)

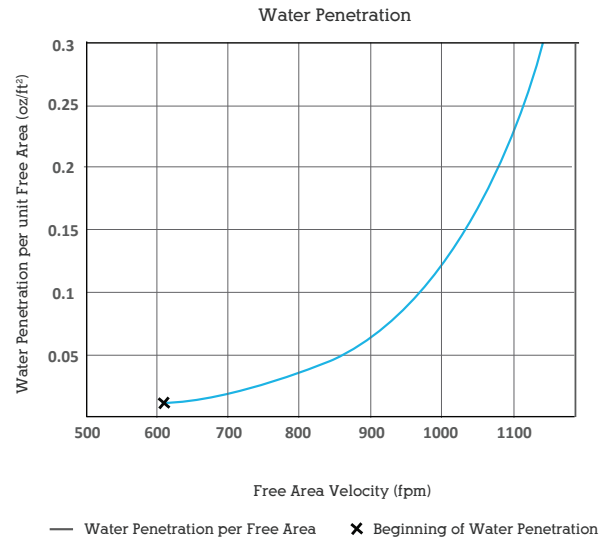
		305	457	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2286	2438	2591	2743	2896	3048
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
356	14	0.023	0.036	0.050	0.063	0.076	0.089	0.102	0.116	0.129	0.139	0.152	0.165	0.178	0.191	0.205	0.218	0.231	0.244	0.257
		0.25	0.39	0.53	0.67	0.81	0.96	1.10	1.24	1.39	1.50	1.64	1.78	1.93	2.07	2.21	2.35	2.49	2.63	2.77
610	24	0.046	0.073	0.099	0.125	0.152	0.178	0.205	0.231	0.257	0.277	0.304	0.330	0.356	0.384	0.410	0.437	0.463	0.490	0.516
		0.50	0.78	1.07	1.35	1.64	1.93	2.21	2.49	2.77	2.99	3.27	3.55	3.84	4.13	4.41	4.70	4.98	5.27	5.56
914	36	0.069	0.109	0.149	0.188	0.228	0.267	0.307	0.348	0.387	0.416	0.455	0.496	0.536	0.575	0.615	0.655	0.694	0.734	0.773
		0.75	1.17	1.60	2.02	2.45	2.88	3.31	3.74	4.17	4.48	4.91	5.34	5.76	6.19	6.62	7.05	7.47	7.90	8.33
1219	48	0.092	0.145	0.198	0.251	0.304	0.356	0.410	0.463	0.516	0.554	0.608	0.661	0.714	0.767	0.820	0.872	0.926	0.979	1.032
		0.99	1.56	2.13	2.71	3.27	3.84	4.41	4.98	5.56	5.97	6.55	7.12	7.69	8.25	8.82	9.39	9.97	10.54	11.11
1524	60	0.116	0.182	0.248	0.314	0.380	0.447	0.513	0.579	0.645	0.694	0.760	0.826	0.892	0.958	1.025	1.091	1.157	1.223	1.289
		1.24	1.95	2.66	3.38	4.09	4.81	5.51	6.23	6.94	7.47	8.18	8.89	9.60	10.32	11.03	11.75	12.45	13.17	13.88
1829	72	0.139	0.218	0.297	0.376	0.455	0.536	0.615	0.694	0.773	0.833	0.912	0.991	1.070	1.151	1.230	1.309	1.388	1.469	1.548
		1.49	2.34	3.20	4.05	4.91	5.76	6.62	7.47	8.33	8.97	9.81	10.67	11.53	12.39	13.23	14.09	14.95	15.81	16.65
2134	84	0.161	0.254	0.347	0.439	0.532	0.625	0.717	0.810	0.903	0.971	1.064	1.156	1.250	1.342	1.434	1.527	1.620	1.713	1.805
		1.74	2.73	3.73	4.73	5.72	6.72	7.72	8.72	9.71	10.45	11.45	12.45	13.44	14.44	15.44	16.45	17.44	18.44	19.44
2438	96	0.207	0.327	0.446	0.564	0.684	0.803	0.922	1.042	1.161	1.249	1.367	1.487	1.606	1.725	1.845	1.964	2.083	2.202	2.321
		2.23	3.51	4.80	6.08	7.36	8.65	9.92	11.21	12.50	13.44	14.72	16.01	17.29	18.57	19.86	21.14	22.42	23.71	24.98
2743	108	0.230	0.363	0.495	0.627	0.760	0.892	1.025	1.157	1.289	1.387	1.520	1.652	1.784	1.917	2.049	2.182	2.314	2.446	2.580
		2.48	3.91	5.32	6.75	8.18	9.60	11.03	12.45	13.88	14.94	16.36	17.79	19.21	20.64	22.06	23.49	24.92	26.33	27.76
3048	120	0.253	0.399	0.545	0.690	0.836	0.981	1.128	1.273	1.419	1.526	1.672	1.817	1.964	2.109	2.254	2.400	2.545	2.692	2.837
		2.73	4.29	5.86	7.43	9.00	10.56	12.13	13.71	15.27	16.42	18.00	19.56	21.13	22.69	24.27	25.84	27.40	28.97	30.54

Free Area in Sqr.meter and Sqr.ft



In accordance with ANSI/AMCA 500-L standard, Figure 5.5.

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Beginning of water penetration per AMCA publication 511 section 8.3.2 based on measured free area is 607.5 FPM



Century Mechanical Systems Factory LLC certifies that the Model: ACL-600 shown herein is Licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The Certified Ratings Seal applies to water penetration, air performance and sound ratings only

Ordering Requisites | Acoustic Louvers

1. Type	Acoustic Louver 600mm		ACL-600
2. Size	Face Width		in mm
	Face Height		in mm
3. Bird Screen	Galvanized bird screen		GI
	Aluminum bird screen		AL
	Stainless steel bird screen		SS
4. Number of Units	In numbers		

Note: The photos shown are only for illustration purpose. The actual product may vary. Please contact the technical/sales department for more information. As a part of continuous improvement, CMS reserve the right to make technical modifications without prior notice.



EXCELAIR

Products from



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