WEATHER LOUVER

AEROSYS weather Louvers is designed with weather proof external coating for air inlets and discharge openings, suitable for most external walls and screening applications. The WL is composed off frame and horizontal blade assembly, manufactured from high quality extruded a luminum* profiles. Blades are fixed rigidly to the main frame by rivets and sets at angle of 45/35 deg to the horizontal with 40/60/80 mm spacing to incline downward to protect against rain water. We manufactured them in accordance to AMCA standards for pressure drop & efficiency. We can also supply them with bird screen &



aluminum filter for freshair intake. Weather louvers are composed of frame and horizontal blade assembly, manufactured from high

quality extruded aluminum profiles* / Galvanized steel sheet / Stainless steel with the advantages of corrosion resistance and rigidity. These Weather louvers constructions conforms the standards of ADC 1602 and DW142 class C.

How to Order?

ltem	Family	Model	Spec	ification	Material		T		
			Frame	Blade	Frame	Blade	Туре	Construction	
WL	LOUVER	WL – 1A	Rectangular shaped	40*/60/80/10 0	AL*, GI, SS.	AL*, GI, SS.	Wall Mounted	Light / Medium / Heavy duty	
		WL – 1B	Rectangular shaped	40*/60/80/10 0	AL*, GI, SS.	AL*, GI, SS.	Duct Mounted	Light / Medium / Heavy duty	
		WL – 1C	Rectangular shaped	40*/60/80/10 0	AL*, GI, SS.	AL*, GI, SS.	Flush Mounted	Light / Medium / Heavy duty	
* - Standard construction.									

Standard Construction (AERO-WL-1A/B/C):

?	Frame	-	18* gauge (1.2* mm) thick Extruded aluminum profile with 30 mm
			flange.
?	Blade	-	20* gauge (1.0* mm) thick Extruded aluminum profile.
?	Bladeorientation	-	Horizontal.
?	BladePitch	-	40*/60/80 mm as per the louver depth and blade size.
?	Screen	-	12 X 12 X 1 mm GI wire mesh.
?	Finish	-	Mill Finish* Aluminum is standard supply.
?	Min.Size	-	6" x 6" (150 x 150 mm).
?	Max.Size	-	48" x 48"(1200 x 1200 mm).
?	Filter	-	Intake louver* with $\frac{1}{2}$ "*/1" Filter or Extract louver without filter.

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Optional Construction (AERO-WL-1A/B/C):

? Frame Blade

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Galvanized steel sheet / Stainless steel sheet.

Powder coated as per client request.

Galvanized steel sheet / Stainless steel sheet. _

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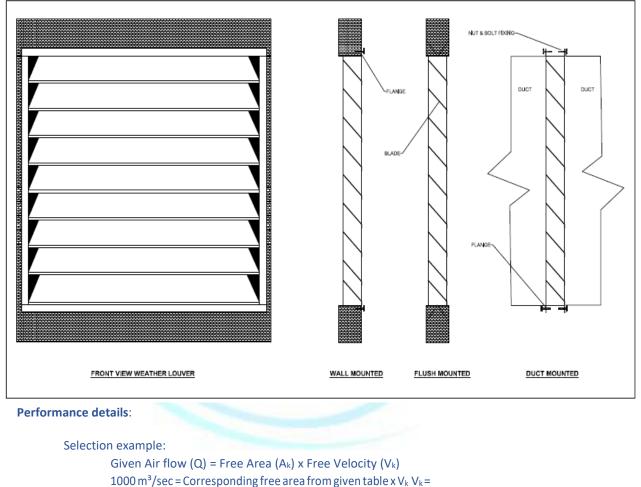
- ? Bladetype
- Finish ?
- **Mounting frame** ? ? Damper
 - Mounting frame angleflange.
 - Damper Assembly (BD Balancing Damper / CD Control Damper). More than (60" X 60") 1500 X 1500 mm in multi sections.

100 mm fixed blade for heavy duty application.

- ? BiggerSizes ? Construction
- Heavy gauge thick of 3 mm thick Aluminum profile frame & 2

mm thick Aluminum profile blade.

Constructional and Dimensional Details:



1000 m³/sec А

This is will give you Free Area velocity of the Air.

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Table for Free Area (A_k):

Free Area AK in Sqm for AERO- WL-1W/D/F											
W/H (mm)	300	450	600	750	900	1050	1200	1500	1800	2100	2400
300	0.011	0.022	0.033	0.045	0.056	0.067	0.079	0.102	0.124	0.147	0.171
450	0.022	0.046	0.069	0.094	0.117	0.141	0.165	0.212	0.260	0.307	0.354
600	0.033	0.069	0.106	0.142	0.178	0.215	0.250	0.322	0.395	0.466	0.539
750	0.045	0.094	0.142	0.190	0.239	0.287	0.336	0.432	0.529	0.627	0.724
900	0.056	0.117	0.178	0.239	0.299	0.361	0.421	0.543	0.664	0.787	0.908
1050	0.067	0.141	0.215	0.287	0.361	0.433	0.507	0.653	0.800	0.946	1.092
1200	0.079	0.165	0.250	0.336	0.421	0.507	0.592	0.763	0.935	1.106	1.277
1500	0.102	0.212	0.322	0.432	0.543	0.653	0.763	0.983	1.205	1.425	1.646
1800	0.124	0.260	0.395	0.529	0.664	0.800	0.935	1.205	1.474	1.745	2.014
2100	0.147	0.307	0.466	0.627	0.787	0.946	1.106	1.425	1.745	2.064	2.383
2400	0.171	0.354	0.539	0.724	0.908	1.092	1.277	1.646	2.014	2.383	2.752

Pressure drop Vs Air Velocity Graph:

