



***SAND TRAP &
FRESH AIR AND
MOTORIZED LOUVERS***



KINETICS ACOUSTICS TECHNICAL SERVICES



Sand Trap Louvers



Sand Trap Louver



Sand Trap Louver - Flush Type

Weather Louvers



Fresh Air Louver



Exhaust Air Louvers

Application:

These sand trap louvers are designed to separate large sand particles at low air velocities. STL gives excellent performance at moderate pressure drops and low air velocities.

STL is provided with self-emptying base through which filtered sand is thrown out easily.

Material and specification:

Outer Frame:

Extruded aluminium sections (6063 alloy - T6 temper) cut to length and joined at corners

Blades:

Extruded aluminium sections (6063 alloy - T6 temper)

Optionals:

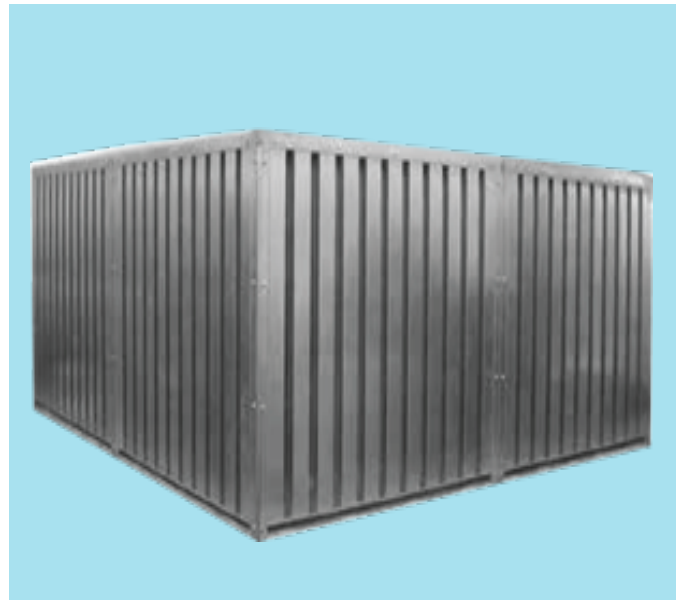
STL may be supplied with aluminium filter for better air filtration applications

STL may be supplied with aluminium filter and volume control damper.

STL may be supplied in other materials like SS or GI.

Powder Coating:

All Louvers are powder coated in all RAL colours



Material and Thickness Details

Frame		Blade	
Material	Thickness	Material	Thickness
Extruded Aluminium	1.4* mm	AL	1.2* mm
Galvanized Steel	1.2 mm	GI	0.9 mm
Stainless Steel	1.2 mm	SS	0.9 mm

Note : Maximum Constuction thicknes upto 4mm

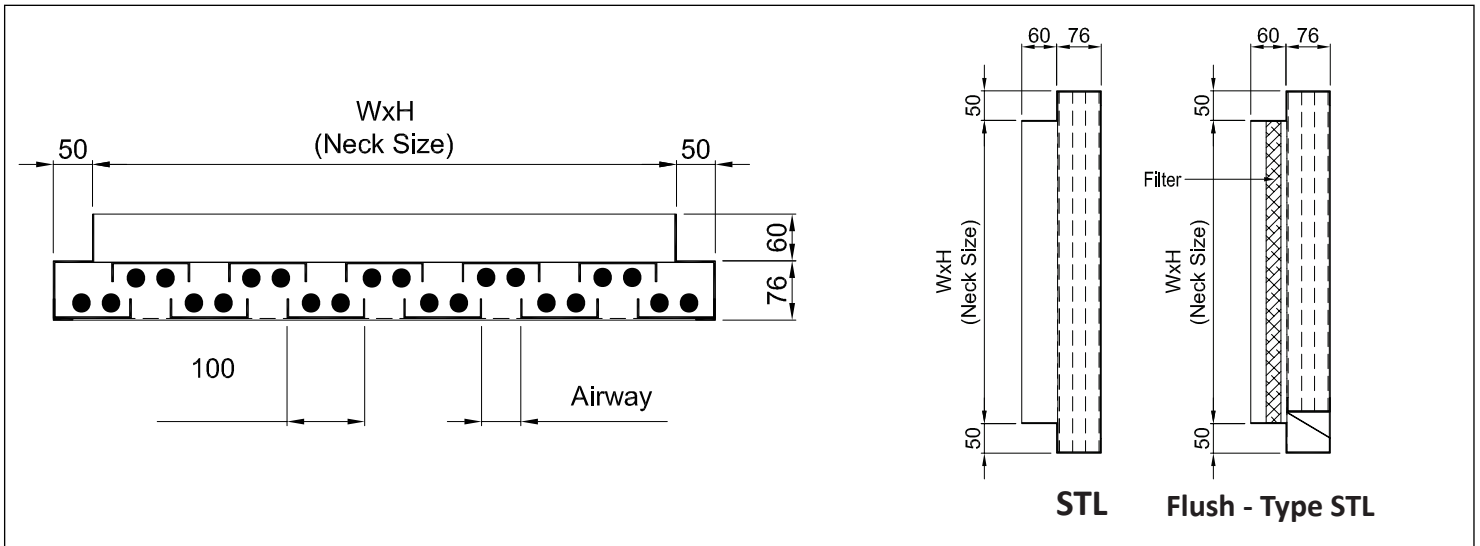
Sizes:

STL is available in all sizes. However sizes larger than 2000mm x 1200mm may be supplied in multiple sections assembled at site

Opening air ratio: 0.33

Technical Details

Structural Drawings



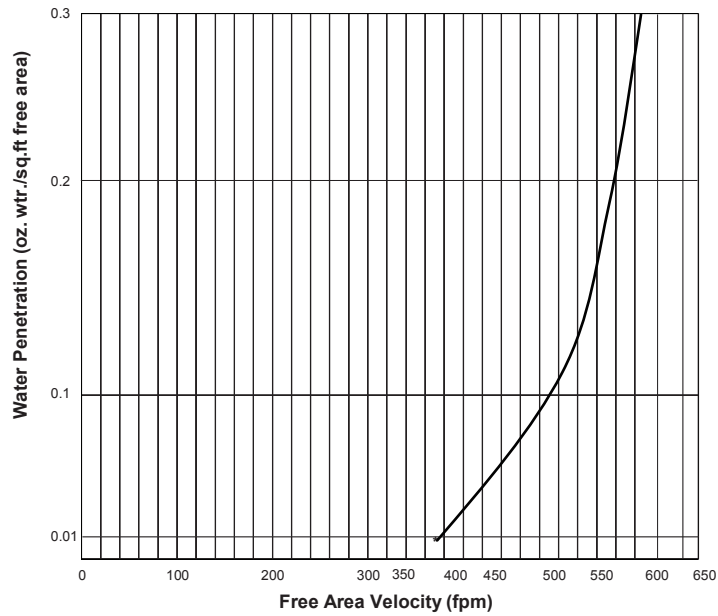
Performance Data

Free area A_k in m^2 For Model :

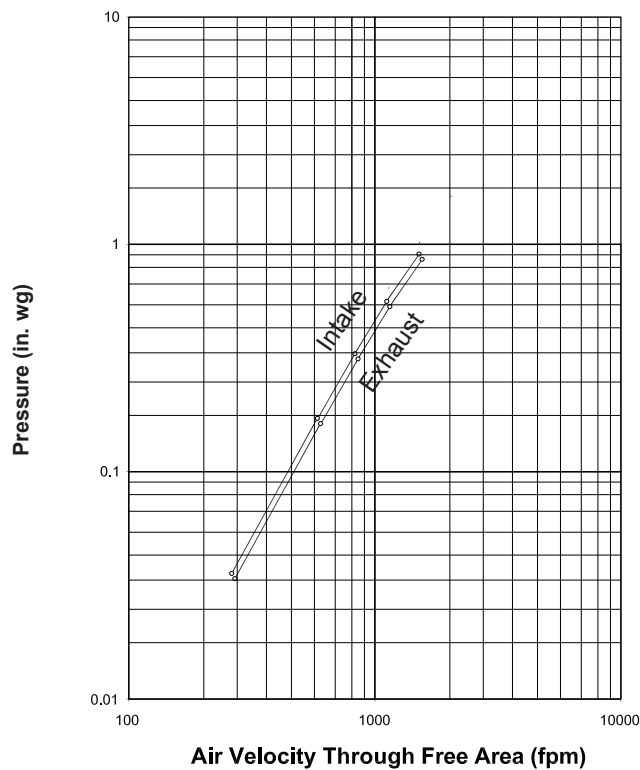
W/H	300	400	600	700	800	900	1000	1200	1500	1800	2100
300	0.010	0.018	0.025	0.033	0.040	0.048	0.055	0.060	0.075	0.090	0.105
400	0.020	0.035	0.050	0.065	0.080	0.095	0.110	0.130	0.150	0.175	0.210
600	0.030	0.053	0.075	0.098	0.120	0.143	0.165	0.180	0.215	0.260	0.305
750	0.040	0.070	0.100	0.130	0.160	0.190	0.220	0.240	0.305	0.355	0.400
900	0.050	0.088	0.125	0.163	0.200	0.238	0.275	0.310	0.380	0.430	0.505
1050	0.060	0.105	0.150	0.195	0.240	0.285	0.330	0.380	0.450	0.525	0.610
1200	0.070	0.123	0.175	0.228	0.280	0.333	0.385	0.440	0.510	0.605	0.705
1500	0.091	0.158	0.226	0.293	0.361	0.428	0.496	0.520	0.650	0.770	0.845
1800	0.111	0.193	0.276	0.358	0.441	0.523	0.606	0.681	0.830	0.950	1.145
2100	0.131	0.228	0.326	0.423	0.521	0.618	0.716	0.811	0.950	1.125	1.304
2400	0.151	0.264	0.376	0.488	0.601	0.713	0.826	0.951	1.110	1.300	1.536

Performance Data

Pressure Drop V/S Face Velocity



Size: 1200 x 1200mm



Intake / Exhaust Test

Size: 1200 x 1200mm

Application:

Fresh Air / Exhaust air louvers are mainly used in the ventilation system of a building. Fresh air louver is the same as exhaust air louver supplied with an aluminium air filter. Filter frame is made of extruded aluminium profile.

Filter media is expanded aluminium media.

Fresh air louvers are used supply fresh clean air to air handling units. Fresh air louvers may be supplied with opposed blade damper at customer's request.



Material and specification:

Outer Frame:

Extruded aluminium sections (6063 alloy - T6 temper) cut to length and joined at corners

Blades:

Extruded aluminium sections (6063 alloy - T6 temper)

Optionals:

Louvers may be supplied with Aluminium or GI bird screen. Louvers may be supplied with opposed blade damper at customer's request.

Powder Coating:

All Louvers are powder coated in all RAL colours

Material and Thickness Details

Frame		Blade	
Material	Thickness	Material	Thickness
Extruded Aluminium	1.5* mm	AL	1.2* mm
Galvanized Steel	1.2 mm	GI	1.2 mm
Stainless Steel	1.2 mm	SS	1.2 mm

Sizes:

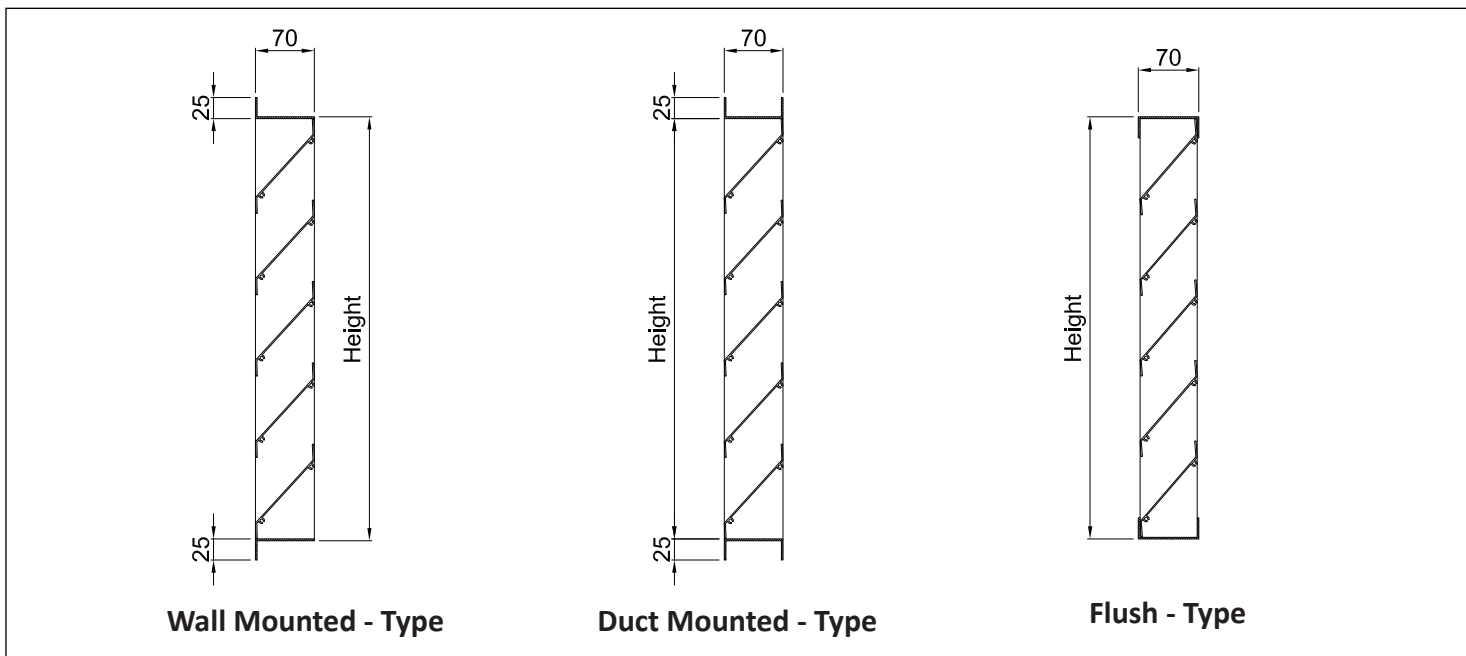
Louvers are available in all sizes. However sizes larger than 2000mm x 1200mm may be supplied in multiple sections assembled at site

Opening air ratio: 0.41

Note : Maximum Construction thickness upto 4mm

Technical Details

Structural Drawings



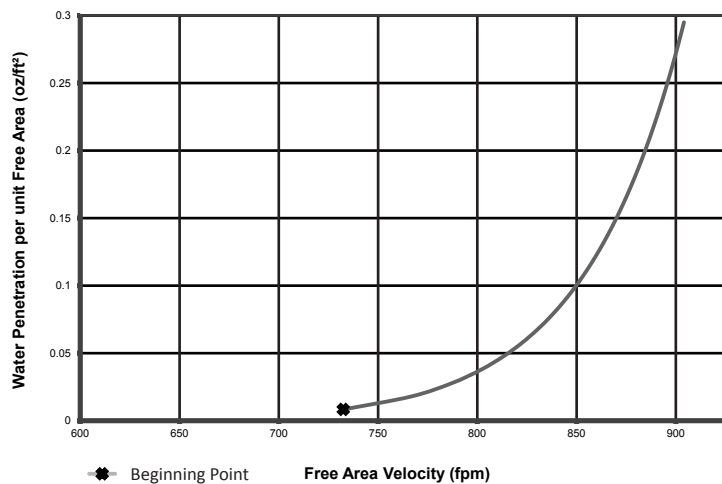
Performance Data

Free area in sq. meters											
W/H	100	200	300	400	500	600	700	800	900	1000	1200
100	0.001	0.001	0.002	0.003	0.005	0.006	0.008	0.009	0.011	0.012	0.015
200	0.005	0.004	0.010	0.017	0.025	0.032	0.039	0.047	0.054	0.062	0.076
300	0.008	0.007	0.017	0.031	0.044	0.057	0.071	0.084	0.098	0.111	0.138
400	0.012	0.010	0.025	0.045	0.064	0.083	0.102	0.122	0.141	0.160	0.199
500	0.016	0.014	0.033	0.058	0.083	0.109	0.134	0.159	0.184	0.209	0.260
600	0.019	0.017	0.041	0.072	0.103	0.134	0.165	0.196	0.228	0.259	0.321
700	0.023	0.020	0.049	0.086	0.123	0.160	0.197	0.234	0.271	0.308	0.382
800	0.027	0.023	0.056	0.099	0.142	0.185	0.228	0.271	0.314	0.357	0.443
900	0.030	0.026	0.064	0.113	0.162	0.211	0.260	0.309	0.358	0.406	0.504
1000	0.034	0.029	0.072	0.127	0.182	0.236	0.291	0.346	0.401	0.456	0.565
1200	0.041	0.036	0.087	0.154	0.221	0.287	0.354	0.421	0.488	0.554	0.688

Performance Data

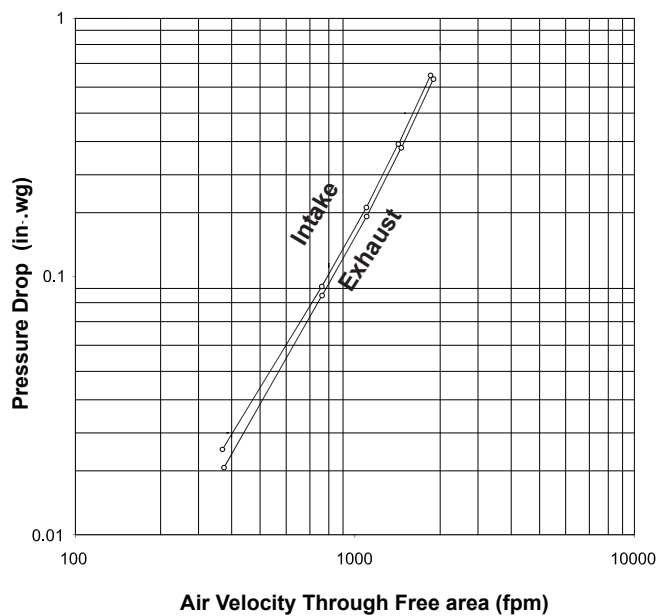
Water Penetration V/S Free Area Velocity Graph

Size : 1200 x 1200mm



Pressure Drop V/S Free Area Velocity

Size : 1200 x 1200mm



Application:

The square and rectangular type Motorized louvers are designed for handling maximum air capacities at minimum pressure drop.

These louvers are subjected to medium pressure applications to achieve low leakage efficient operation. Motorized weather louvers are square and rectangular type with parallel operation having single skin blade design.

Material and specification:

Frame:

1.2mm Thick galvanized steel sheet

Blades:

1.5mm Thick galvanized steel sheet

Bushes

Bronze.

Mechanical Linkage

Galvanized steel linkages concealed within the frame.

Axles

12mm square galvanized steel.

Gasket

Silicon rubber

Motor

Honeywell / Belimo / Siemens

Optionals:

Mesh

Galvanized steel 0.4mm Thick

SS screen (1.2mm Thick / 0.6mm Thick)

Motor

Modulate / Spring Return / On/Off

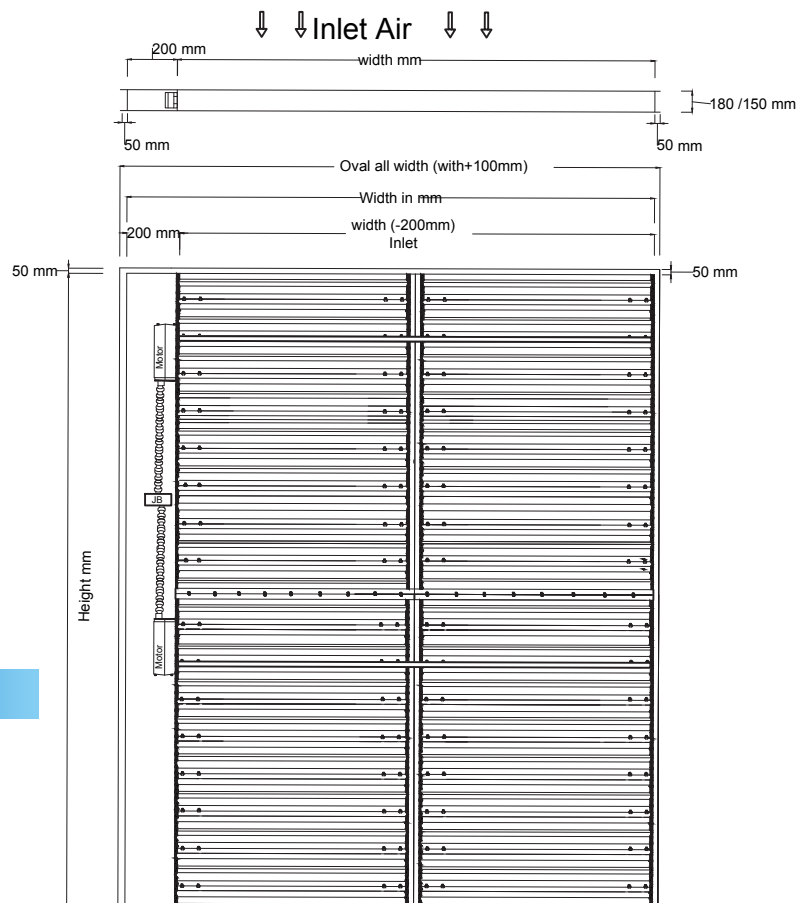
Powder Coating:

All Louvers are powder coated in all RAL colours



ML-AG-51

Structural Drawings



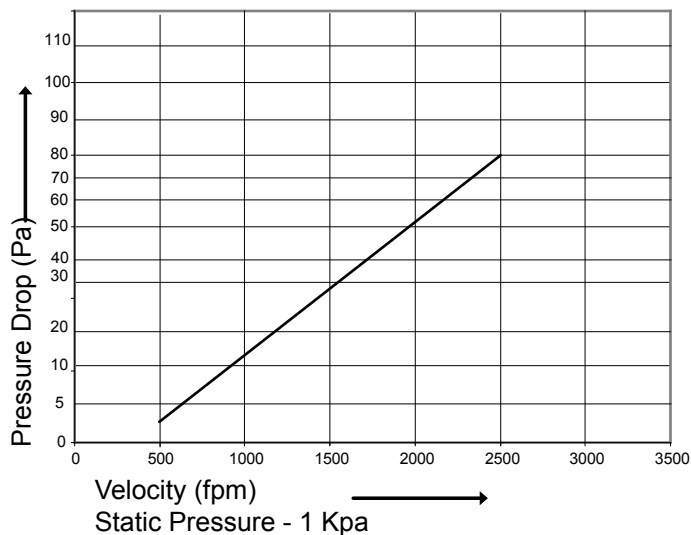
Material and Thickness Details

Frame		Blade	
Material	Thickness	Material	Thickness
Galvanized Steel	1.2* mm	GI	1.5* mm
Aluminium	1.5 mm	AL	1.5/ 2 mm
Stainless Steel	1.2 mm	SS	1.5 mm

Note : Maximum Constuction thicknes upto 4mm

Performance Data

For VCD Models : **ML-AG-51**
Single skin 3-V Blade Construction

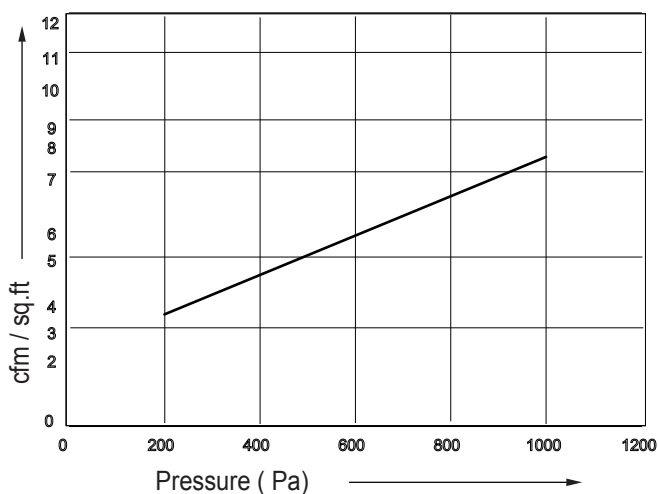


Airflow V/S Pressure Damper 100 % (full) open.					
	Max . System Pressure 1000-Pa				
Air Velocity (fpm)	500	1000	1500	2000	2500
ML-AG-51-P/O (3-V Blade single skin) Pressure drop (Pa)	3.2	12.8	28.8	51.2	80

Leakage Characteristics

Models : **ML-AG-51** - Leakage Curve (Blades 100% Closed Position)

For Models: ML-AG-51



Leakage Ratings on Blades 100 % Closed					
Max . System Pressure	200	400	600	800	1000
For ML-AG-51 (Leakage cfm / sq. ft)	15	28	40	55	70



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