



ACOUSTIC LOUVER

ENVIROTECH SYSTEMS LIMITED

Complete **Noise** Solution

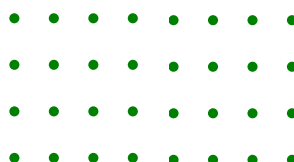
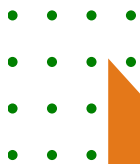


More info:
+91 8506080140
www.EnvirotechLtd.com



listed in NSE.

An ISO 9001, 14001 & 45001
CERTIFIED COMPANY



About ENVIROTECH SYSTEMS

ENVIROTECH SYSTEMS LIMITED is one of the most renowned company for its Acoustic & Noise Control Solutions. We lead the market with our large range of products and solutions that can cater to almost every acoustic need. Our capability to provide noise control solutions is spread over a number of domains. In our endeavour to reach every nook and corner, it has led us to grow in all directions. We strive to deliver the perfect solution that meets the exact requirement of our client.



VENTURES

CERTIFICATES



IGBC



GRIHA



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018

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Acoustic Louver Overview

Envirotech Systems Limited is a leading global manufacturer of rugged, high performance acoustic louvers and has completed numerous projects installations worldwide. Applications includes: -

- Fresh air intakes for ventilation systems
- Mechanical equipment screens and penthouses
- Noise barriers
- Process air intakes & Exhaust
- Cooling tower & Chillers inlets / exhausts and screens
- DG Rooms

Envirotech can provide acoustic louver solutions to combat environmental noise problems in mixed commercial / residential areas, carrying out all relevant noise surveys and acoustic analysis.

Envirotech Acoustics' Standard Blade & V-Blade louvre styles can be used to match the overall scale and aesthetics of a new building.

Form & Function

Our Acoustic Louvered Screens result in a high performance solution to unwanted levels of noise. Without the need for additional architectural cladding & to main air intake & exhaust volumes.



Acoustic Louver Overview

Envirotech Acoustic Louvers, Standard Blade and V- Blade Acoustic Louvers are designed to provide optimal acoustic performance (Transmission Loss) with minimal airflow restrictions (Pressure Drop) for a variety of space restricted applications. Acoustic louvers are manufactured with a choice of finishes and material options. If required by the system or in-field conditions, the acoustic louver may be assembled in a modular fashion. Envirotech offers a range of blade geometries that will meet your acoustic, aerodynamic and security requirements.



(Standard Blade Acoustic Louver)



(V-Blade Acoustic Louver)

Performance Data Sheet

Louver Type	Louver Model	Depth (mm)	Octave Band Transmission Loss in dB							
			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Standard Blade Acoustic Louvers	ESL-SB-100	100	4	5	3	8	13	16	14	14
	ESL-SB-150	150	6	8	7	12	16	20	19	19
	ESL-SB-200	200	9	12	10	17	21	24	22	22
	ESL-SB-300	300	11	14	15	20	25	30	26	25
V-Blade Acoustic Louvers	ESL-VB-200	200	10	13	14	18	23	27	25	23
	ESL-SB-300	300	12	16	19	24	29	32	30	27
	ESL-SB-450	450	16	21	23	27	31	37	30	28
	ESL-SB-600	600	17	22	25	28	33	38	31	28

- Transmission Loss (TL) Standard: ISO: 10140 (Part-II) – 2016 / ASTM E90
- Pressure Drop Standard: AMCA 500-L

Integrated or Standalone

Our acoustic louvers can be used as standalone screens around mechanical plant, or integrated into walls and building façades.

Acoustic Louvers Depth can also be customized as per the transmission loss requirements & architectural plan of building walls

Features of Acoustic Louvers

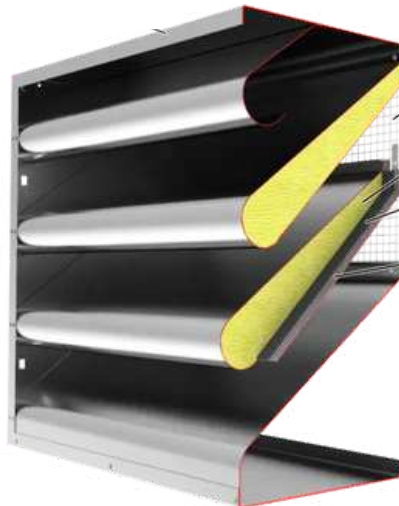
Our Acoustic Louvers are multi-purpose, permitting air to flow, whilst shielding the environment from unwanted noise. Both Envirotech Acoustic Louvers are available in an array of standard modular sizes, meaning that a wide range of performance requirements can be met. By using our range of acoustic louvers, it overcomes architectural consistency issues, especially where space is limited. Where access is required, Envirotech Acoustic Louvers can be supplied as door sets, either for inclusion in louvers screens, or as standalone units.

Envirotech Special Features

- Suitable for use behind architectural louvers (air space is required between faces)
- Bold, curved blade appearance
- A highly economical acoustic louvre system
- Linear appearance
- Superior high frequency performance

Finishes Available

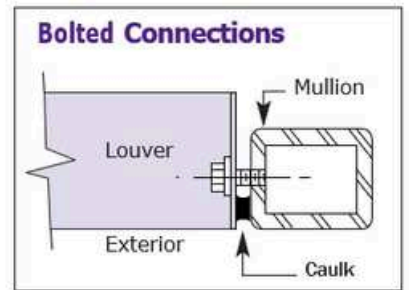
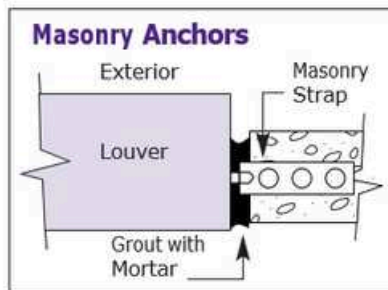
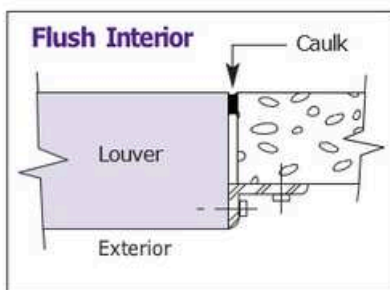
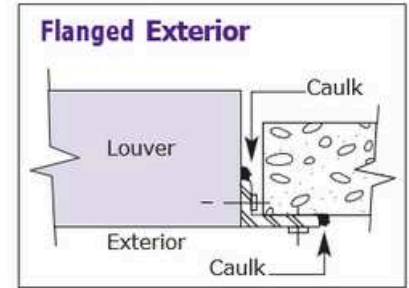
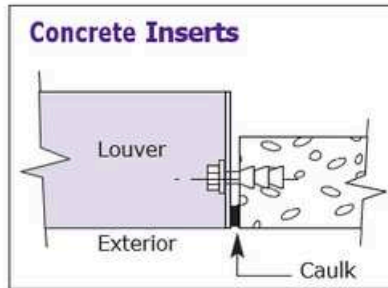
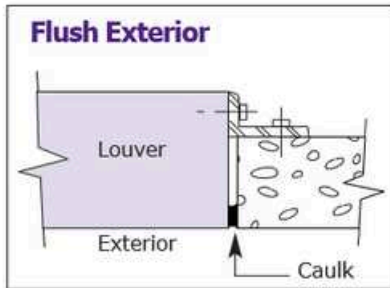
- Galvanised mild steel
- Aluminium
- Stainless steel
- Polyester Power Coated (PPC)
- Other non-standard finishes are available upon request.



- Linear appearance Superior high frequency performance
- Inert, vermin-proof, weather-rated non combustible acoustic fill.
- Aerodynamic shaped splitter blade for maximum noise reduction with minimum pressure drop.
- Linear blade appearance for superior high frequency performance.
- Perforated splitter underside for maximum sound absorption.
- Weather stop inhibits rain/snow entry.
- up to 300mm for the single banked system (Standard Blade) or 600mm deep for the double banked (V- Blade / Chevron Blade) system.
- Available in a variety of durable, attractive finishes, e.g. vinyl coated steel, polyester powder paint, mill finish aluminium, anodised aluminium, Syntha Pulvin, galvanised and stainless steel.
- Modular sizes enable assembly of rectilinear louvre 'walls' of almost any size.
- Louver blade orientation blocks horizontal line of site, enhancing both aesthetics and acoustic performance.
- Bird guards are available in galvanized or stainless steel, insect screens can also be supplied.

Acoustic Louver Installation

Typical details are shown below and certified dimension drawings are provided with each acoustic louver. Envirotech Acoustic Louver will be supplied along with all supporting steelwork if necessary. For large louver banks, Envirotech Systems Limited provides installation drawings and a full installation service if required.



Engineered for Performance

Despite primarily being engineered as a high performance solution to attenuating unwanted noise, our acoustic louvers are a modular design, resulting in screens that are scalable to suit individual project requirements.





ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	4	5	3	8	13	16	14	14
Acoustic Rating	Rw 12 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.92	1.30	1.59	1.84	2.05	2.25	2.43	2.61	2.76	2.90
Nominal Free Area	42%* * Average over louver depth									
Cd						0.225				



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	6	8	7	12	16	20	19	19
Acoustic Rating	Rw 15 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.53	0.73	0.90	1.04	1.16	1.28	1.37	1.47	1.56	1.64
Nominal Free Area	37%* * Average over louver depth									
Cd						0.17				



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	9	12	10	17	21	24	22	22
Acoustic Rating	Rw 17 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.53	0.73	0.90	1.04	1.16	1.28	1.37	1.47	1.56	1.64
Nominal Free Area	32%* * Average over louver depth									
Cd					0.127					



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	11	14	15	20	25	30	26	25
Acoustic Rating	Rw 22 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.94	1.31	1.61	1.83	2.13	2.27	2.46	2.63	2.84	2.99
Nominal Free Area	45%* * Average over louver depth									
Cd						0.233				



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	10	13	14	18	23	27	25	23
Acoustic Rating	Rw 17 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.94	1.31	1.61	1.83	2.13	2.27	2.46	2.63	2.84	2.99
Nominal Free Area	42%* * Average over louver depth									
Cd						0.215				



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	12	16	19	24	29	32	30	27
Acoustic Rating	Rw 24 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.61	0.86	1.06	1.22	1.36	1.49	1.61	1.72	1.83	1.93
Nominal Free Area	42%* * Average over louver depth									

Cd

0.149



ACOUSTIC PERFORMANCE

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	16	21	23	27	31	37	30	28
Acoustic Rating	Rw 28 dB							

AERODYNAMIC PERFORMANCE

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.94	1.31	1.61	1.83	2.13	2.27	2.46	2.63	2.84	2.99
Nominal Free Area	45%* * Average over louver depth									
Cd						0.195				



ACOUSTIC PERFORMANCE

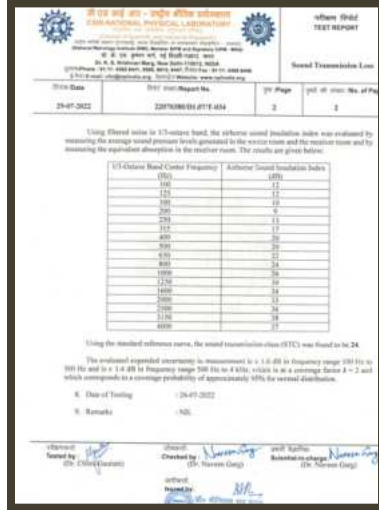
Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	17	22	25	28	33	38	31	28
Acoustic Rating	Rw 31 dB							

AERODYNAMIC PERFORMANCE

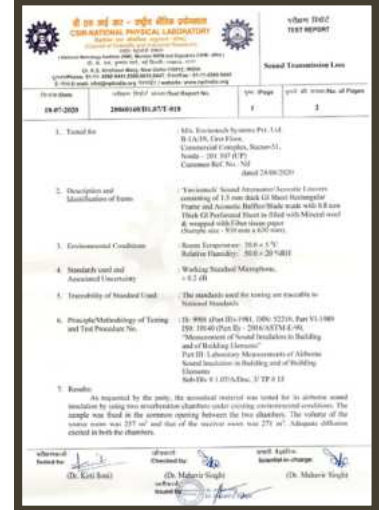
Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.68	0.94	1.15	1.30	1.47	1.61	1.77	1.89	2.02	2.13
Nominal Free Area	45%* * Average over louver depth									
Cd						0.161				



Acoustic Louver



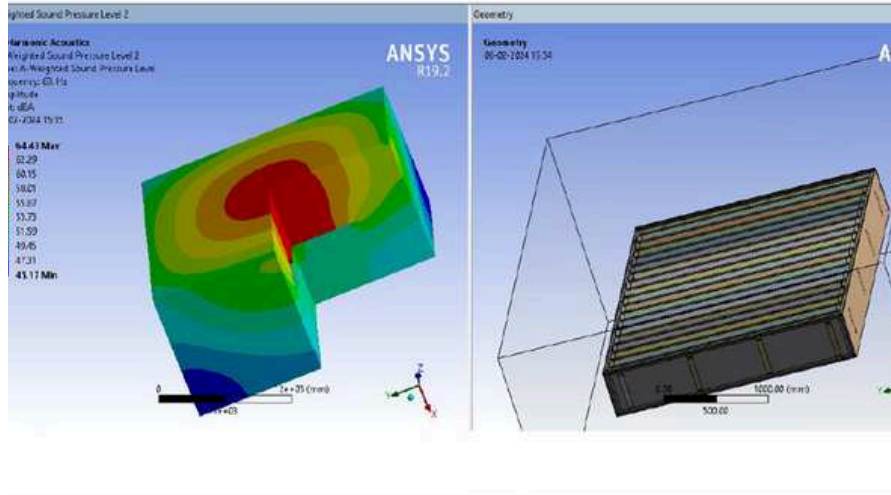
Acoustic Louver



Acoustic Louver



Acoustic Louver



Simulation

Available Instruments & Software with us for NVH analysis

- Sound Level Meter equipped with Class 1 Microphone – 02 Nos.; Make – Onossoki & Svantek
- NI microphone with DAQ & Chassis
- Tri Axial Accelerometer with DAQ & chassis
- ANSYS Simulation – NVH & STRUCTURAL MODULE, LS-DYNA
- Noise Map Tool



NVH Analysis



Some of Our Valued Client



Talk to us



+91 8506080140



ankur@EnvirotechLtd.com



www.EnvirotechLtd.com

Landline :

+91-120-4337633, 4337439

Phone:

+91- 9311011131

Mail:

sales@EnvirotechLtd.com



ENVIROTECH SYSTEMS LIMITED

Visit Our Websites

- www.EnvirotechLtd.com
- www.EnvirotechAcoustics.com
- www.EnvirotechBarrier.com
- www.EnvirotechPartitions.com
- www.EnvirotechDoors.com
- www.EnvirotechLouvers.com

Works:

B-1A/19, Commercial Complex, Sector 51, Noida - 201307, Uttar Pradesh, India

Factory:

Plot No-345-346-347, Ecotech-1 (Extension), Greater Noida-201308, Uttar Pradesh, India



VENTURES

CERTIFICATES



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ISO 9001:2015



ISO 14001:2015



ISO 45001:2018