



ACOUSTIC LOUVERS

Acoustic Louvers are recommended to reduce Sound emitted from Mechanical Equipment and Plants which get transmitted through various building openings and ventilations with minimal airflow restriction. These Louvers are particularly suited for fresh air and process intakes, air exhausts, cooling tower enclosures and combating environmental noise for commercial or residential areas. Acoustic Louvers are manufactured either from galvanized steel (or) aluminium with various surface finishes to meet project architectural requirements.

Acoustic louvers are used to prevent noise breakouts from an exhaust air opening, ventilation openings or acoustical enclosures, cooling towers and out-door equipment.

Louver blades are designed aerodynamically with various types and depth to meet varying acoustic performance through minimal pressure drop

Material	Series	Type	Construction	Purpose
AL	SBAL- 100	Single Bank	Acoustic	Louver
AL	DBAL-100	Double Bank	Acoustic	Louver

AREA OF APPLICATION

- Plant room ventilations
- Relief air from factories and workshops
- Ventilations to acoustic equipment enclosures
- Air condition installations and cooling towers
- Power generations equipment
- Outdoor air ventilation system
- Refrigeration plant
- Compressor houses
- Fan housings
- Exhaust plenum chambers.

KEY FEATURES

- Guaranteed Acoustical & weather performance.
- Highly economical with low maintenance.
- Easy Installation steps.
- Fabricated from Al-Zinc coated steel or Aluminium.
- Superior quality noncombustible Acoustic infill.
- Factory applied powder coated finish.
- Custom designs to meet Customer requirements.
- Fabricated as per ANSI / AMCA Standards
- Stainless steel finish for Shore Areas.

MATERIAL DETAILS

Alu-Zinc Alloy coated steel based on AZM150 as per ASTM A792 Standard.

Aluminium Sheet as per A1100 / 6063A Standard.

Stainless steel sheet Grade 304 or Grade 316 with 2B finish.

ACOUSTIC INFILL

High Quality, noncombustible fiberglass insulation with a density up to 50kg/m³

AVAILABLE FINISHES

Mill finish

Any powder coated RAL colour

Acoustic Louver SBAL / DBAL - 100 Series

DBAL - 100 Series Louvers are used at intake (or) ex-haust air from Various Equipment / Plant /Systems for the Building in addition to reducing the sound generated by the running equipment.

Models: NF-SBAL-100-150A/200A & 300A, NF-DBAL-100-300A/450A & 600A

Louver Frame

Louver frames is made of 18 gauge thick Aluminium sheet.

Louver depth: 150, 200, 250, 300, 450 & 600mm depending on application and nature of project.

Louver Blade

Double skin blade type with outer 1.0mm Aluminium and sheet and inner perforated 0.9 gauge Steel sheet

Acoustic Infill

Each blade, top and bottom frame cavity shall have filled with fiber glass acoustic insulation having density up to 50kg/m³.

Nominal Free Area

30 -40% (Approx.)

Optional

SS Insect / Bird screens

Acoustic Property

- Up to 75mm thick noncombustible acoustic infill with density up to 50kg/m³
- Thickness and density will vary according to acoustic calculation to get optimum performance.
- Fiber glass density shall vary based on performance re-quirement.
- Sound absorption in accordance with BD 3638 & ISO 0354

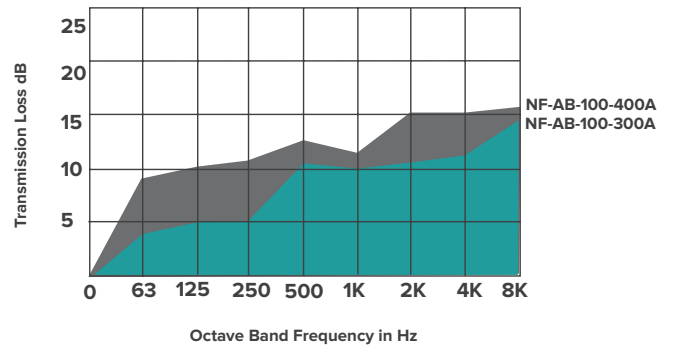
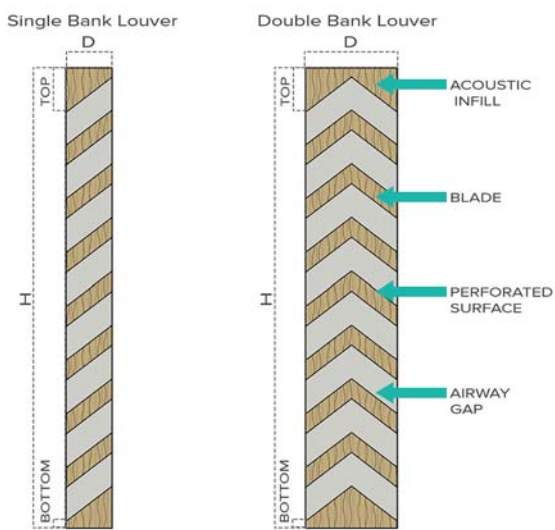
Sizes Limitations

Maximum size of Single section	2200 x2400mm
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SINGLE & DOUBLE BANK MODEL DETAILS

Model	Frame		Blade	
	Material	Thickness	Material	Thickness
NF- SBAL -100-150A	AL	1.2	AL	1.0
NF- SBAL -100-200A	AL	1.2	AL	1.0
NF- SBAL -100-300A	AL	1.2	AL	1.0
NF- DBAL -100-300A	AL	1.2	AL	1.0
NF- DBAL -100-450A	AL	1.2	AL	1.0
NF- DBAL -100-600A	AL	1.2	AL	1.0

Construction Details of SBAL / DBAL 100 Series Louver



200 Series Single & Double Bank Acoustic Louver									
Depth	Model	OCTAVE BAND Transmission Loss (dB)							
		63	125	250	500	1000	2000	4000	8000
150	NF- SBAL -100-150A	4	5	5	10	11	12	13	14
200	NF- SBAL -100-200A	9	10	11	13	12	15	15	18
300	NF- SBAL -100-300A	10	11	11	14	15	17	18	18
300	NF- DBAL -100-300A	4	5	5	11	10	11	12	14
450	NF- DBAL -100-450A	8	10	11	13	12	15	15	16
600	NF- DBAL -100-600A	11	12	13	15	14	16	16	18