

# TECHNICAL DATA SHEET

# DECIBEL AL®

## Acoustic Louvers DECIBEL AL®

### Product Description :

DECIBEL AL® 300 and DECIBEL AL® 600 are a single louver attenuating system. The louvers are made of steel sheets, filled with sound-absorbing material, and one-sided cover by a perforated metal sheet.

### Sizes:

Standart size of the soundreduction box with soundabsorbing louvers model DECIBEL AL® 300

- 300 x 1000 x 1000mm
- 600 x 1000 x 1000 mm

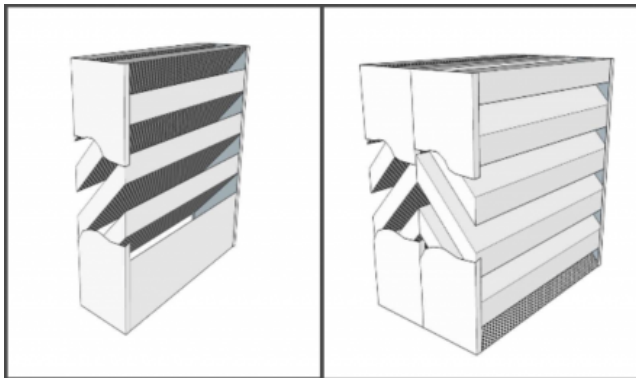
### Technical Specification:

The standard sizes of the box are 300 x 1000 x 1000mm. or 600 x 1000 x 1000mm. This makes the attenuators easy to install on facade openings or hang on support metal construction. They can also be stored as standalone screen wall attenuators. DECIBEL AL® 300 and DECIBEL AL® 600 are used mainly in engine rooms, ventilation openings, power generator rooms, boiler rooms, cooling towers, or any other industrial or HVAC systems. Custom louvers can be produced in aluminum (perforated sheet is galvanized steel).

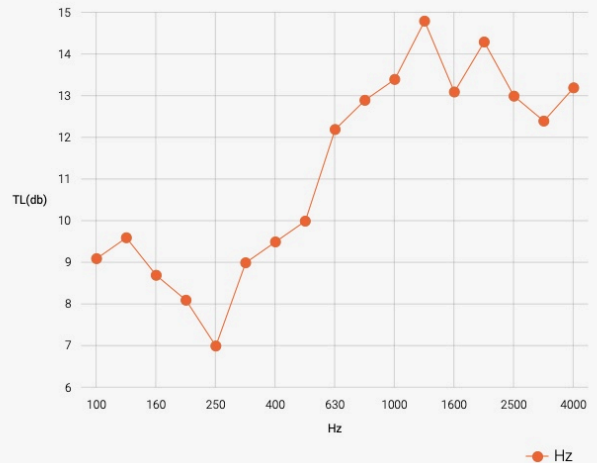
### Application:

The soundproofing box with sound absorbing louvers model DECIBEL AL® is suitable for soundproofing of:

- Heating and ventilation systems
- Compressors



Acoustic Performance of DECIBEL AL® according to EN ISO 140-1:1997



### Acoustic Performance of AL-300:

Octave band center frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss (dB)	7	8	11	13	19	19	15	14

### Aerodynamic Performance AL-300:

Static Pressure Drop (N/m <sup>2</sup> )	2,8	11,3	26,2	46,3	72,3	99,2	142,6	185,1
Face Velocity (m/s)	0,5	1	1,5	2	2,5	3	3,5	4

### Acoustic Performance of AL-600:

Octave band center frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Transmission Loss (dB)	8	10	13	25	32	34	29	30

### Aerodynamic Performance of AL-600:

Static Pressure Drop (N/m <sup>2</sup> )	5,4	21,6	50,9	90,7	147,9	208,2	283,6	357,5
Face Velocity (m/s)	0,5	1	1,5	2	2,5	3	3,5	4