



# ACOUSTIC LOUVRES

## SMOOTHTEK-SG Brochure



ACUSTEKPRO Acoustic Louvres are designed to provide optimal acoustic performance (noise reduction) with minimal airflow restrictions. The acoustic louvres are typically manufactured from galvanized steel to suit any opening size. Where required the acoustic louvres can be assembled in a modular fashion.

ACUSTEKPRO Acoustic Louvres can be supplied in multiple finishes including galvanized steel, powder coated or painted.

Acoustic Louvres can be also manufactured as a hinged or sliding doors. The doors are fitted to stiffened Galva bond or zinc anneals frames and fitted with hardware as required for the individual applications.

If required, ACUSTEKPRO can manufacture an acoustic louvre from other materials including 304 & 316 stainless steel to provide additional corrosion protection in harsh environments.

As with all ACUSTEKPRO products, we employ our own installation staff familiar with the installation methods required to ensure acoustic integrity. Where required or preferred we can easily assemble a complete turnkey solution.

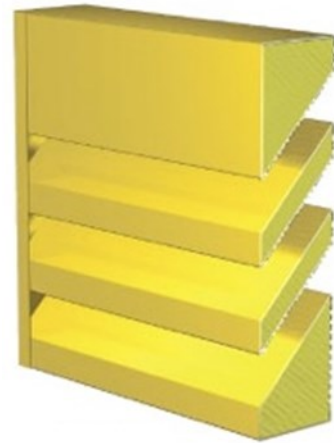
Should you have an application requiring specific acoustic performance please contact our office and we can provide additional options from our extensive range of products.



## DESCRIPTION

SMOOTHTEK Acoustic Louvres are designed for easy installation and for applications where space is limited and to provide a superior acoustic performance and low regenerated noise levels under a wide range of operating conditions. Aesthetically pleasing, they consist of fabricated metal louvre blades with acoustic infill, alternated with air gaps and fitted into a four sided metal case. The open area of the louvre has been carefully optimised for maximum air flow and acoustic performance and the entry to each airway is streamlined for low resistance. The air flow and pressure drop characteristics, excellent acoustic performance and balanced proportions of SMOOTHTEK Acoustic Louvres makes them popular with architects and engineers. Long life and freedom from maintenance are assured by the use of galvanised sheet steel or aluminium sheet and inert non-combustible acoustic infill. The acoustic and airflow performance of these louvres are guaranteed.

### ACOUSTIC LOUVRES SMOOTHTEK-SGM



### ACOUSTIC LOUVRES SMOOTHTEK-SGD



## Typical Acoustic Louvres Applications

- Plant room ventilation
- Relief air from factories and workshops
- Ventilation to acoustic equipment enclosures
- Air conditioning installations and cooling towers
- Power generation equipment
- Outdoor air ventilation systems
- Refrigeration plant

## Benefits of Acoustic Louvres

- Guaranteed performance (ISO 7235)
- Choice of finishes & build materials
- Cost effective with long life and low maintenance
- Simple installation





**Model**

**SmoothTek**

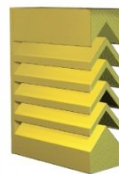
**SGM**



Thickness [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
300	Insertion Loss [dB] (EN ISO 7235 standards)							
	3	4	8	16	19	24	20	17

**SmoothTek**

**SGD**



Thickness [mm]	f[Hz]							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
600	Insertion Loss [dB] (EN ISO 7235 standards)							
	5	7	14	25	34	39	33	25

**PRESSURE LOSS**



Pressure Loss for 1 m2 SmoothTek-SGM

– serie SGD multiply x2



- WEIGHT
  - Mass/m<sup>2</sup> face area:
    - Acoustic Louvre Series SLG-Mono – 47 Kg/m<sup>2</sup>
    - Acoustic Louvre Series SLG-Duo – 94 Kg/m<sup>2</sup>
- MATERIALS

The internal acoustic blades are constructed using galvanized steel casings, with a rock fibre acoustic infill having a scrim cloth facing to prevent fibre erosion, and also a 0.7mm thick perforated galvanised sheet steel. The complete assembly can have an external primer/undercoated paint finish, suitable for additional paint treatment if required. The rock fibre acoustic infill is inert, vermin proof and non-hygroscopic.

- OVERALL DIMENSIONS

Dimensions Model	Width		Length
	(min)	(max)	
SmoothTek SGM	500 mm	2400 mm	300 mm
SmoothTek SGD	500 mm	2400 mm	600 mm

Dimensions Model	Height [mm]											
	(min)											(max)
SmoothTek SGM	600	750	900	1050	1200	1350	1500	1800	1950	2100	2250	2400
SmoothTek SGD	600	750	900	1050	1200	1350	1500	1800	1950	2100	2250	2400