

IAC Model SL300 Acoustic Louvre NBS Details

Manufacturer and reference: IAC Acoustic Company UK Ltd
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Product Reference: IAC Slimshield SL300 Acoustic Louvre – 300mm Thick

Louvre blade pattern: 100mm Blade – 100 mm Airway. Vertical face dimensions.

Construction: 25mm Leg Channel side frames.
Each frame to be fabricated from a 1.2mm thick for a steel construction or 1.5mm for Aluminium Construction.

Louvre blades

The top of blade is manufactured from 0.8mm plain galvanised steel sheet.

The underside of the blade is manufactured from 0.7mm thick punched perforated galvanised steel. Perforated with 3mm Ø holes on 5mm iso centres giving 32% open area.

The blades are assembled using 4.8mm Ø pop rivets.

For Aluminium construction the top & bottom sheets are manufactured from 1.0mm sheet.

Absorption: The blades are filled with a cut to size block of Rockwool RWA 45. (Class A fire rated).

Colour/Finishes: Self finish for internal applications or Polyester Powder Painted to a RAL or BS4800 Colour. Special Anodised finishes can also be Applied to Anodising grade Aluminium Louvres, but each job will need to be looked at individually due to the material & special finish requirements.

Acoustic Rating:

Octave Band Centre Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	6	7	10	12	18	18	14	13
Acoustic Rating	R _w 17dB / D _{new} 23dB							

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
Face free area.	45%* *For a standard height									
Open area.	34%* *For a standard height									
Discharge Coefficient (cd)	0.233									