



Information Update

PMP73 Issue 1 Oct 23

Acoustic Louvres

Acoustically modular louvres providing permanent ventilation while creating a reduction of airborne sound transmission into or out of buildings. This louvre can be used to provide airborne sound attenuation at ducted fan inlets and discharge outlets in plant room walls or elsewhere also for general plant room ventilation with sound attenuation.

They can be installed behind standard Kingfisher louvres or as an architectural feature of a building themselves. The louvres can be provided with a polyester powder coat finish to BS6496 or natural mill finish.

Configuration

The units are manufactured from 1.5mm folded aluminium sheets and the acoustic medium is non-toxic mineral wool with a density of 100kg/m³, positioned within the louvre blades by expanded aluminium mesh. Blade centres and blade angles are fixed, to achieve the stated acoustic performance.

Any practicable height or width of installation is possible.

Minimum module size:

- Free area 20% 400mm x 350mm
- Free area 35% 400mm x 460mm

Maximum module 1200mm x 1200mm.

Backing types are as follows:

- Bird/vermin guard
 - HDPE (4mm).
 - Expanded Aluminium Mesh (15mm).
- Insect guard
 - HDPE (4mm).

Performance

Airborne sound insulation independently measured by Acoustical Investigation & Research Organisation Ltd to BS EN ISO 10140.

Louvre Type	Depth (mm)	Free Area (%)	Weight (kg/m ²)	Airborne Sound Reduction Index (dB) at Octave Band Mid Frequency (Hz)						
				63	125	250	500	1000	2000	4000
KA150/20	150	20	38	6.3	5.4	5.1	9.8	13.1	17.8	19.8
KA270/20	270	20	64	8.0	8.0	9.8	14.3	19.7	27.4	30.1
KA150/35	150	35	31	4.5	4.4	3.3	5.8	8.4	12.4	10.0
KA270/35	270	35	51.5	6.0	6.6	7.0	8.7	12.6	17.9	13.2

Key:

/20 = 170mm pitch

/35 = 225mm pitch