



**Acoustically treated modular louvres providing permanent ventilation combined with reduction of airborne sound transmission into or out of buildings.**

# ACOUSTIC LOUVRES

## Applications

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.

Can be installed behind standard Kingfisher louvres or as an architectural feature of a building in themselves.

## Composition

*Standard louvre blades:* 1.5mm folded aluminium sheet.

The acoustic medium is non-toxic mineral wool, density 100kg/m<sup>3</sup>, held in position within the louvre blades by perforated aluminium mesh.

## Accessories

*Bird/vermin guard:* HDPE as standard or expanded aluminium, mesh size 15mm.

*Insect guard:* HDPE, mesh size 4mm.

## Size, shape

Blade centres and blade angle are fixed, to achieve the stated acoustic performance.

Any practicable height or width of installation is possible.

Minimum module size:

20% net free area, 400mm x 350mm high.

35% net free area, 400mm x 460mm high.

Maximum module size: 1200mm x 1200mm.

## Appearance

A choice of polyester powder coat finishes to BS 6496 to external face of louvre or natural mill finish.

## Maintenance

Periodic cleaning is required to maintain appearance for finished products.

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Louvre type	Depth	Free area	Weight
<b>KA 150/20</b>	150mm	20%	38kg/m <sup>2</sup>
<b>KA 270/20</b>	270mm	20%	64kg/m <sup>2</sup>
<b>KA 540/20</b>	540mm	20%	145kg/m <sup>2</sup>
<b>KA 150/35</b>	150mm	35%	31kg/m <sup>2</sup>
<b>KA 270/35</b>	270mm	35%	51.5kg/m <sup>2</sup>
<b>KA 540/35</b>	540mm	35%	113.5kg/m <sup>2</sup>

### Performance: acoustic

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

Louvre type	Airborne sound reduction index (dB)						
	at octave band mid frequency (Hz)						
	63	125	250	500	1000	2000	4000
<b>KA 150/20</b>	6.3	5.4	5.1	9.8	13.1	17.8	19.8
<b>KA 270/20</b>	8.0	8.0	9.8	14.3	19.7	27.4	30.1
<b>KA 540/20</b>	8.6	11.2	18.3	28.6	34.2	45.9	52.8
<b>KA 150/35</b>	4.5	4.4	3.3	5.8	8.4	12.4	10.0
<b>KA 270/35</b>	6.0	6.6	7.0	8.7	12.6	17.9	13.2
<b>KA 540/35</b>	7.4	8.2	12.8	16.6	20.9	35.2	28.0

### Performance: air flow

Figures are pressure drops in pascals (Pa) at varying volumetric airflows

Louvre type	Internal to External Airflow (m <sup>3</sup> /s)				
	0.50	1.00	1.50	2.00	2.50
<b>KA 150/20</b>	9	36	81	144	225
<b>KA 270/20</b>	14	56	125	222	347
<b>KA 540/20</b>	24	96	216	385	601
<b>KA 150/35</b>	4	14	32	56	88
<b>KA 270/35</b>	4	17	38	68	106
<b>KA 540/35</b>	7	28	63	111	174

Louvre type	External to Internal Airflow (m <sup>3</sup> /s)				
	0.50	1.00	1.50	2.00	2.50
<b>KA 150/20</b>	9	34	78	138	215
<b>KA 270/20</b>	11	44	99	175	274
<b>KA 540/20</b>	24	96	216	385	601
<b>KA 150/35</b>	3	13	29	52	82
<b>KA 270/35</b>	4	15	34	61	96
<b>KA 540/35</b>	7	28	63	111	174

#### Specification clause

Provide acoustic screening and ventilation louvres to ..... as shown on drawings reference ..... Louvre blades to be 1.5mm thick folded aluminium. External louvre face to be Polyester powder coat finish to BS 6496 or natural mill finish\*. Colour ref ...

Acoustic medium: non-toxic mineral wool, density 100kg/m<sup>3</sup>, held in position within louvre blades by perforated aluminium sheet. Louvre type: KA 150/ KA 270/KA 540\*. Free Area: 20% / 35%\* Accessories: HDPE/ aluminium\* bird guard/ insect guard\*.

Louvres to be supplied by Kingfisher Louvre Systems, Plymouth Avenue, Brookhill Industrial Estate, Pinxton, Nottingham NG16 6NS. Tel: 01773 814102, Fax: 01773 814103, Email: admin@kingfisherlouvres.com \*Delete as applicable

#### KINGFISHER LOUVRE SYSTEMS

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Kingfisher Louvre Systems maintains a policy of continuous development and reserves the right to amend product specifications without notice.



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