LOUVRES

VENTILATION WITH MAXIMUM ACOUSTIC COMFORT

RENSON®

ACOUSTIC LOUVRES

Product upgrade in 2024

FOR NEW-BUILD AND RENOVATION PROJECTS

Noise nuisance prevention

Acoustic ventilation louvres are used in various applications and are designed to always allow a high air flow combined with soundproofing. In residential buildings, for example, acoustic louvres are integrated into noise-exposed façades, such as along busy roads, railway tracks, industrial estates, etc. These louvres make it possible to continuously refresh the indoor air or cool it off at night through intensive ventilation, while at the same time reducing ambient noise. Acoustic louvres are often used in industrial buildings to dampen noise from technical installations. These louvres are also often integrated into the façades of car-park buildings in order to effectively ventilate the parking area while preventing local noise pollution.

New and complete range

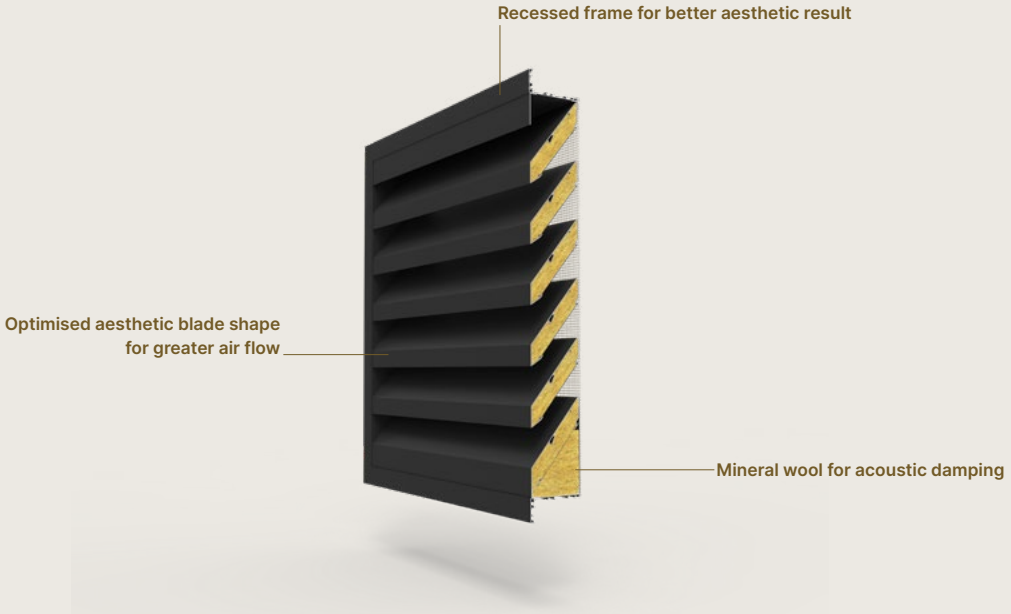
In view of ever-stricter regulations on ventilation and noise pollution, Renson has wasted no time in 2023 in optimising its range of acoustic louvres. This has resulted in a new generation of louvres with increased air flow and even greater flow rates, without compromising on acoustic performance. The updated series consists of six different types, with depths varying from 86 to 300 mm and acoustic damping varying from -6 to -17 dB. In most cases, the type of louvre to be used is determined based on the combination of the necessary air flow, noise reduction, and available installation space in the wall.

As with traditional ventilation louvres, acoustic louvres come with various options, including a drainage blade, water channel, and with or without a flange. The aluminium louvres are available in virtually any size and are anodised or have powder coating in any RAL colour.

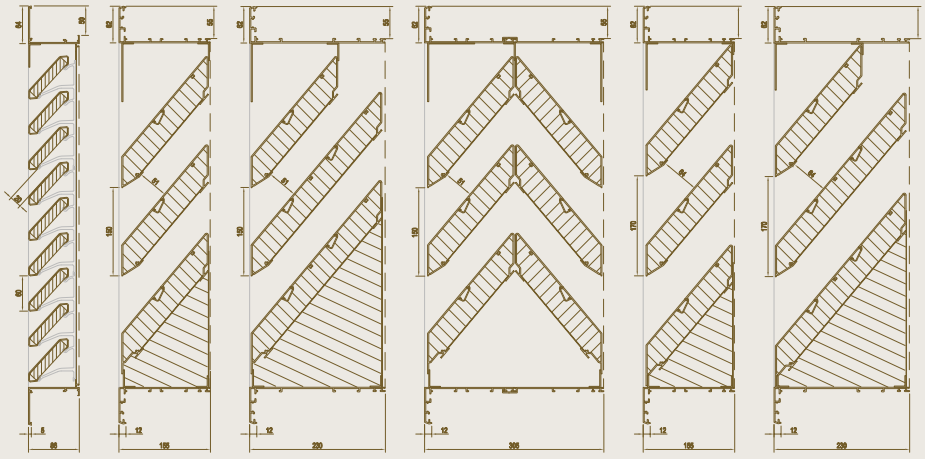
Test certificates

Every louvre type is certified by independent testing laboratories:

- BSRIA (UK) - airtightness and water resistance (EN 13030)
- Peutz (NL) - noise reduction and acoustics (EN ISO 10140, EN ISO 717-1)



TECHNICAL SPECIFICATIONS	445/86	448/150	448/225	448/300	449/150	449/225
Material						
Aluminium profile	AlMgSi 0.5 (in accordance with EN 12020-2)					
Acoustic soundproofing material	Non-flammable mineral wool					
Mesh	Stainless steel 304 - 6 × 6 mm					
Stainless	100 %					
Finishing	Anodized in satin colour (20 micron) or powder-coated in any RAL or Syntha Pulvin colour (40 micron)					
Dimensions						
Blade pitch (mm)	60	150	150	150	170	170
Minimum dimensions (W x H) (mm)	230 × 230	250 × 410	250 × 410	250 × 421	250 × 430	250 × 430
Height in steps of (mm)	60	150	150	150	170	170
Total depth (mm)	86	155	230	305	155	230
Recessed depth (mm)	81	143	218	293	143	218
Flange (mm)	50	55	55	55	55	55
Water resistance (EN 13030)						
Class (without water channel; see test report for details)	C (0 m/s)	B (0 m/s)	C (0,5 m/s)	C (0,5m/s)	C (0 m/s)	C (0,5m/s)
Airflow (EN 13030) and flow rate						
Class	2	3	3	4	3	3
K-value (entry)	10,75	16,00	20,29	25,77	14,57	19,07
K-value (discharge)	9,95	21,24	23,11	27,13	19,07	21,43
C_E coefficient	0,305	0,250	0,222	0,197	0,262	0,229
C_D coefficient	0,317	0,217	0,208	0,192	0,229	0,216
Physical free area	34 %	34 %	34 %	34 %	37 %	37 %
Comfort (EN ISO 10140:2021; EN ISO 717-1:2020)						
Sound reduction R_w ($C;C_{tr}$)(dB)	6 (-1;-2)	11 (-1;-2)	14 (-0;-3)	17 (-1;-4)	10 (-0;-1)	13 (-0;-3)
Sound reduction in dB per frequency						
F (Hz)	R (dB)	R (dB)	R (dB)	R (dB)	R (dB)	R (dB)
63	10,4	7,1	9,6	9,9	7,1	7,8
125	5,8	4,5	5,3	4,6	4	4,7
250	1,5	4	4,7	5,2	4,3	4,6
500	1,6	6,3	8,4	11,6	6,4	7,7
1000	4,5	12,3	16,6	22	11,5	15
2000	9,9	13,5	21,5	26,1	12,5	18,1
4000	10,8	12,1	16,7	22,1	11,2	14,3



445/86 448/150 448/225 448/300 449/150 449/225

Want to find out more?

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