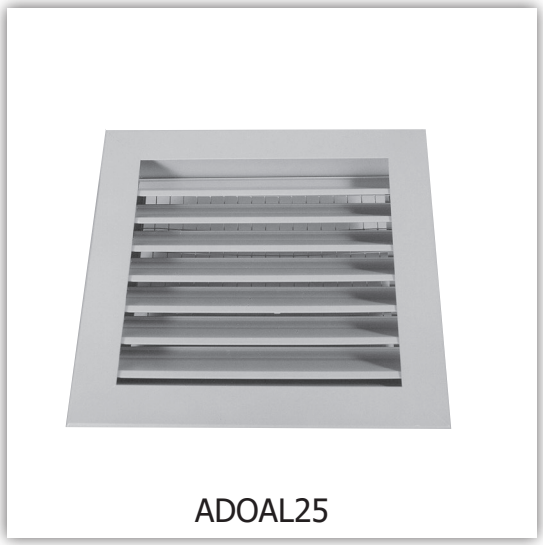
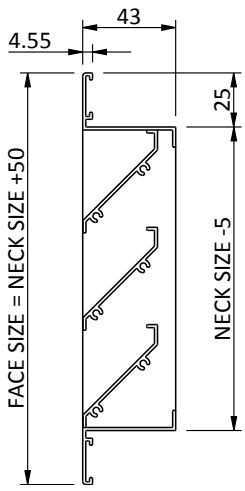
OUTSIDE AIR LOUVRE
Model ADOAL25



ADOAL25

DESIGN DETAILS (mm)



APPLICATIONS

A popular outside air louvre suitable for supply, relief and exhaust applications.

The sloping blade design minimises water ingress and provides good protection against general weather conditions

Bird mesh is fitted to the rear of the blades to prevent unwanted objects passing through the louvre.

Designed with clean lines to visually compliment the exterior of buildings.

STOCK SIZES

Code	Neck Size
OAL251515	150 X 150
OAL252020	200 X 200
OAL252525	250 X 250
OAL253030	300 X 300
OAL253535	350 X 350
OAL254040	400 X 400
OAL254545	450 X 450
OAL255050	500 X 500
OAL256060	600 X 600

FEATURES

Constructed from lightweight aluminium extrusion that will not rust when exposed to the elements.

Vermin / Bird proof galvanised mesh is fitted to the rear of all grilles as standard, 12 x 12 x .8mm.

Standard finish is 15um natural anodised.

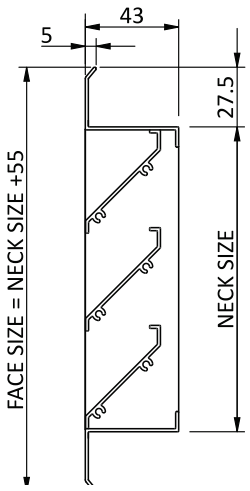
Also available in a circle finish (see next page).

Custom shapes available on request (i.e. triangle, diamond, arch).

OUTSIDE AIR LOUVRE ROUND
Model ADOAL25R

ADOAL25R

DESIGN DETAILS (mm)



APPLICATIONS

A popular outside air louvre suitable for supply, relief and exhaust applications.

The sloping blade design minimises water ingress and provides good protection against general weather conditions

Bird mesh is fitted to the rear of the blades to prevent unwanted objects passing through the louvre.

Designed with clean lines to visually compliment the exterior of buildings.

STOCK SIZES

Code	Neck Size
OAL25R10	100º
OAL25R12	125º
OAL25R15	150º
OAL25R20	200º
OAL25R25	250º
OAL25R30	300º

FEATURES

Constructed from lightweight aluminium extrusion that will not rust when exposed to the elements.

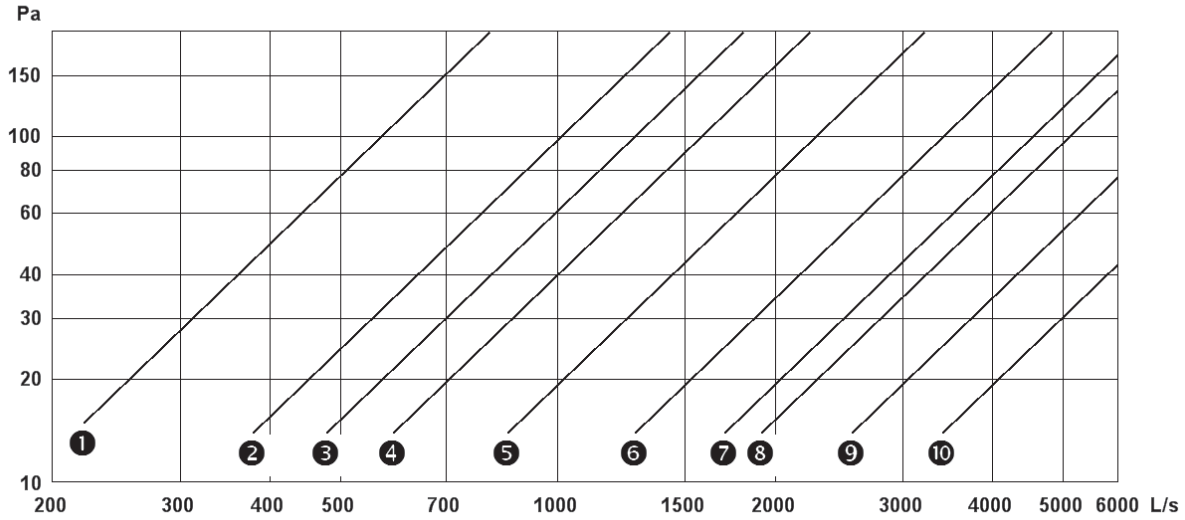
Vermin / Bird proof galvanised mesh is fitted to the rear of all grilles as standard, 5 x 5 x .8mm.

Standard finish is Powdercoat Silver.

Also available in a square finish (see previous page).

OUTSIDE AIR LOUVRE
Model ADOAL25

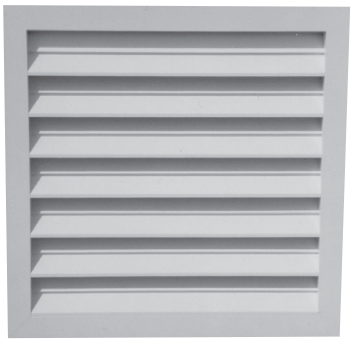
Outside Air Louvre



Nominal Neck Size

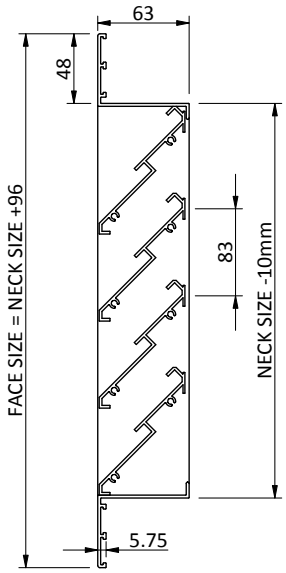
❶	❷	❸	❹	❺	❻	❼	❽	❾
300x300, 600x150	450x300, 900x150	600x300, 900x200	750x300, 600x375	900x300, 600x450	1200x300, 600x600	900x450, 675x600	1200x450, 900x600	900x900, 1350x600

HEAVY DUTY OUTSIDE AIR LOUVRE
Model ADOAL50



ADOAL50

DESIGN DETAILS (mm)



APPLICATIONS

Storm style outside air louvres feature a double rain trap and are designed to ensure minimum ingress of water whilst producing maximum air flow at low noise level.

The larger blade profile is inherently stronger and more rigid than the ADOAL25 model louvre.

This louvre can be used for both exhaust and supply application and custom shapes are a speciality (i.e. triangles, diamonds, arches, and circular).

Designed with clean lines to visually compliment the exterior of buildings.

FEATURES

All louvres are manufactured from heavy duty extruded aluminium sections.

Standard finish is 15um natural anodised.

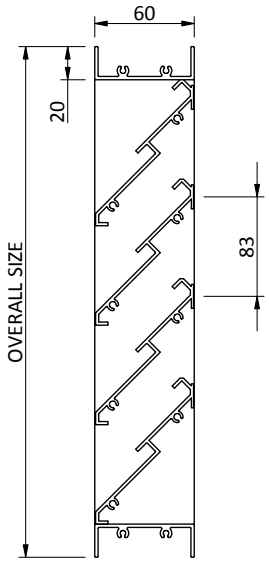
Mullion fitted when width exceeds 1500mm.

Minimum louvre height 300mm.

HEAVY DUTY OUTSIDE AIR LOUVRE
Model ADOAL50C

ADOAL50-C

DESIGN DETAILS (mm)



APPLICATIONS

Storm style outside air louvres feature a double rain trap to ensure minimum ingress of water whilst producing maximum air flow at low noise level.

The larger blade profile is inherently stronger and more rigid than the ADOAL25 model louvres. The strong aluminium channel frame provides flexibility for installation.

Designed with clean lines to visually compliment the exterior of buildings.

FEATURES

Manufactured from heavy duty extruded aluminium sections.

Standard finish is 15um natural anodised.

Mullion fitted when width exceeds 1500mm.

Minimum louvre height is 300mm.

HEAVY DUTY OUTSIDE AIR LOUVRE
Model ADOAL50

Table No.1 Square metre for Louvre Size (Neck Dimensions)

Height	Width										
	300	375	450	600	750	900	1050	1200	1350	1500	1800
300	.041	0.51	.061	.082	.102	.123	.143	.164	.184	.205	.245
375	.058	0.73	.087	.116	.145	.174	.203	.232	.261	.290	.378
450	.074	.092	.111	.147	.185	.221	.258	.295	.332	.368	.442
600	.102	.127	.153	.204	.255	.305	.356	.407	.458	.509	.611
750	.132	.165	.198	.264	.330	.395	.462	.527	.594	.659	.791
900	.161	.201	.242	.322	.403	.483	.565	.644	.725	.805	.964
1050	.191	.239	.286	.382	.477	.573	.668	.764	.859	.955	1.15
1200	.220	.275	.330	.440	.550	.660	.770	.880	.990	1.10	1.32
1350	.249	.312	.375	.499	.624	.749	.874	1.00	1.03	1.25	1.50
1500	.277	.346	.418	.555	.694	.832	.973	1.11	1.25	1.39	1.66
1800	.333	.416	.499	.665	.832	1.00	1.16	1.33	1.50	1.66	2.00

Table No.2 Pressure Loss for Core Velocity

Velocity (m/s)	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0
Exhaust (Pa)	3	5	8	12	17	22	27	34	41	48	66

SELECTION PROCEDURE

e.g. An external grille for exhausting 1000 L/s with a pressure loss of 12 Pa is required.

From Table 2 (above) a velocity of 3.0 m/s would give a pressure loss of 12 Pa.

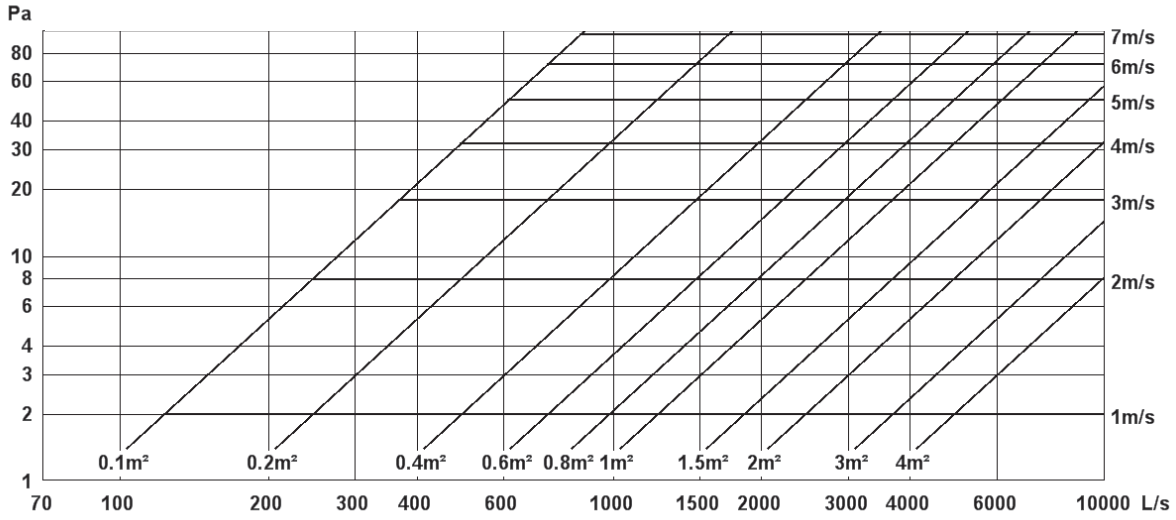
The free area corresponding to this air volume and velocity is:

$$\text{Free area} = \frac{\text{Air Volume}}{\text{Velocity} \times 1000} = 0.333 \text{ sqm}$$

From Table 1, suitable grille sizes would be 1350 x 450 or 750 x 750 or 1800 x 375

HEAVY DUTY OUTSIDE AIR LOUVRE
Model ADOAL50

Outside Air Louvre Storm Style
Exhaust Performance based on Free Area



Legend

Pa	Pascals
L/s	Litres per second
NR	Noise Rating