



Monodraught are the recognised market leaders in ultra-low carbon, low energy solutions for Natural Ventilation, Natural Cooling and Natural Lighting.

WINDCATCHER[®], **SUNPIPE**[®] and **COOL-PHASE**[®] brands are synonymous with quality and innovation (ISO9001 & 14001) and are supported by our market leading design service.

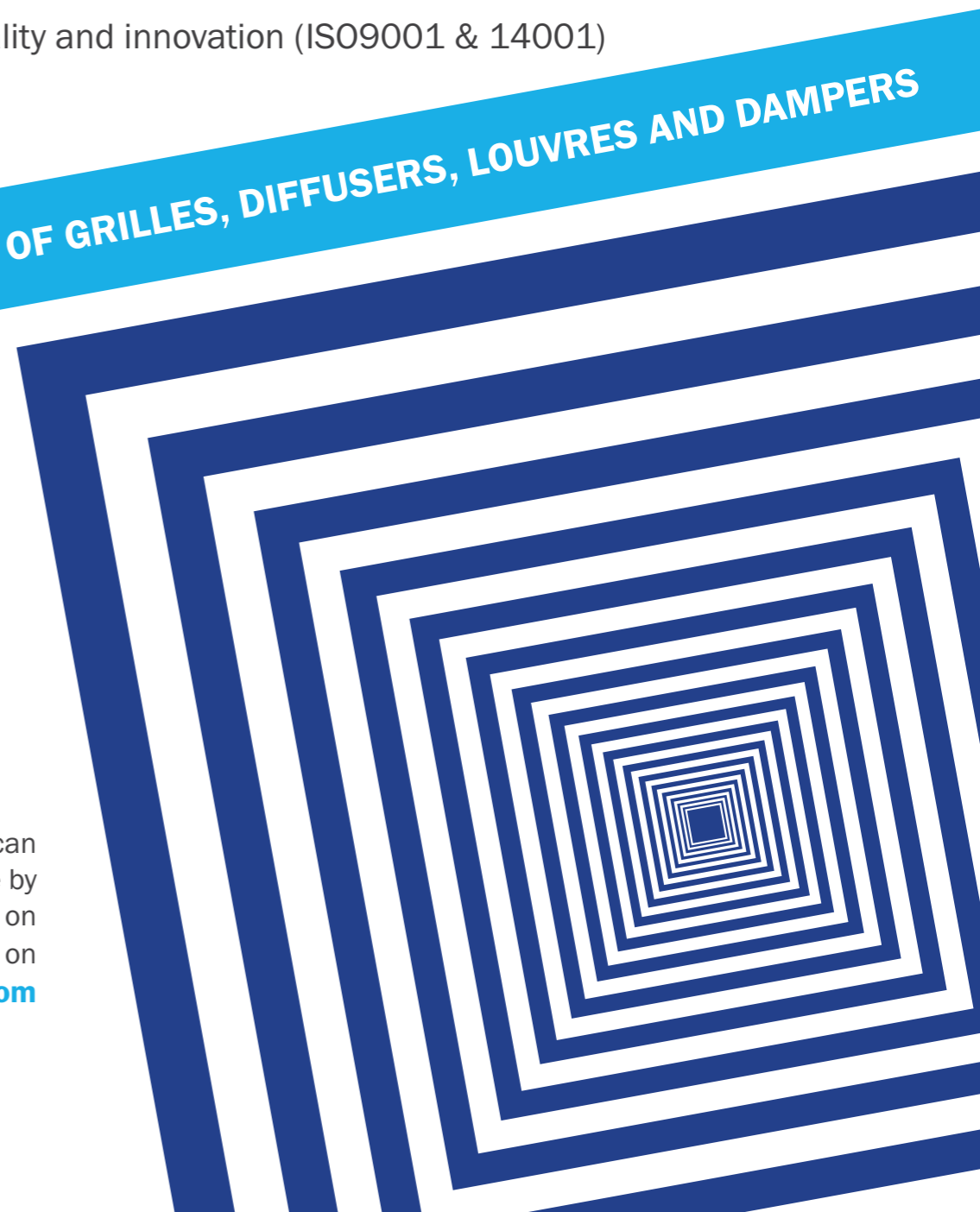
Air-Precision is an addition to Monodraught's portfolio including grilles, diffusers, external louvres and volume control dampers.

PRODUCT RANGE OF GRILLES, DIFFUSERS, LOUVRES AND DAMPERS

We are supporting this range with:

- £1 million of fast moving stock
- Bespoke manufacture with any standard RAL colour within 5 days
- 15 dedicated selection experts
- Designed with industry leading software
- Belimo actuators used throughout
- AA5 anodisation (ISO7599) utilised
- Market leading quality fully supported by a **10 year guarantee**

We are confident that we can beat any quotation you have by 10% so please contact us on **01494897700** or email us on **air-precision@monodraught.com**



Acoustic Louvres - AL



Series AL acoustic louvres are specialist external louvres, designed primarily for areas like plant rooms or inner city car parks, where noise generated by machinery or vehicles cannot be allowed to leak into the surrounding area.

Using a twin part aluminium blade infilled with mineral wool, Air-Precision acoustic louvres offer a high resistance to rain ingress, whilst also having the sufficient depth to provide useful levels of sound attenuation throughout a wide range of frequencies

Acoustic louvres are available in the following variants:

AL150: Slimline 150mm deep.

AL1: Standard 300mm deep.

AL2: Heavy duty 600mm deep.

All of the above units can be supplied without mineral wool infill should it be required.

Supplied as standard in a recessed frame, various flanges are optional.

Materials:

- Case and mineral wool infill holder: Galvanised steel
- Blades: Extruded aluminium
- Blade infill: Mineral wool (optional)

Blade:

- AL150: Single part aluminium extrusion
- AL1: Twin part aluminium extrusion
- AL2: Two banks of twin part aluminium blades set back to back (chevron)

Series:

- AL150: 150 mm deep single bank acoustic louvre
- AL1: 300 mm deep single bank acoustic louvre
- AL2: 600 mm double bank (chevron) acoustic louvre

Debris Screen:

- BS: Bird Screen (12 mm x 12 mm mesh)
- IS: Insect Screen

Frame:

- Standard: Recessed
- Optional: Flanged

Flanges:

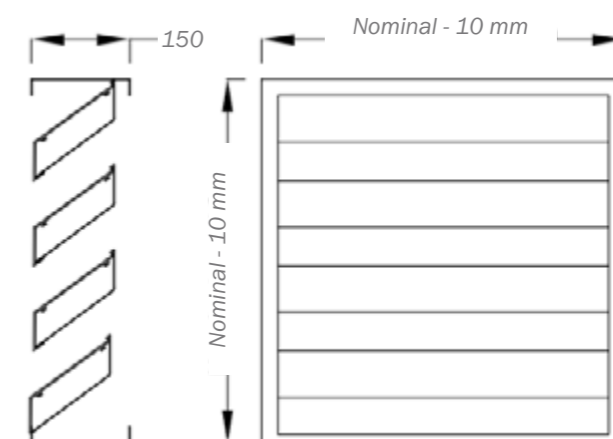
- 25F: 25 mm flat flange
- 30FW: 30 mm flat flange
- 50FS: 50 mm flat flange - shallow
- 75FS: 76 mm flat flange - shallow
- 100FS: 102 mm flat flange - shallow

Mass / m² face area:

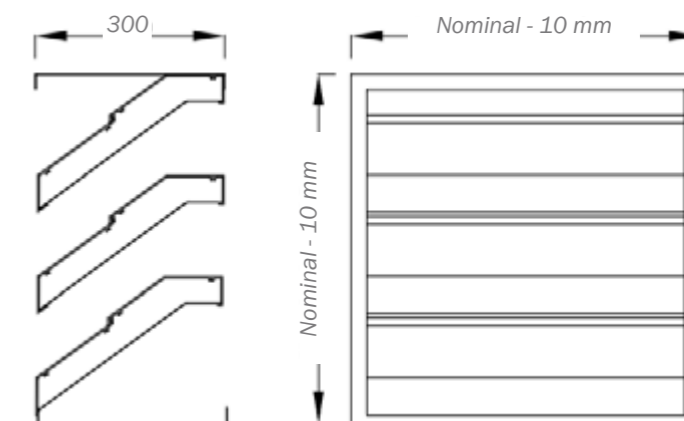
- AL150: 22 kg
- AL1: 44 kg
- AL2: 88 kg

Technical Drawings:

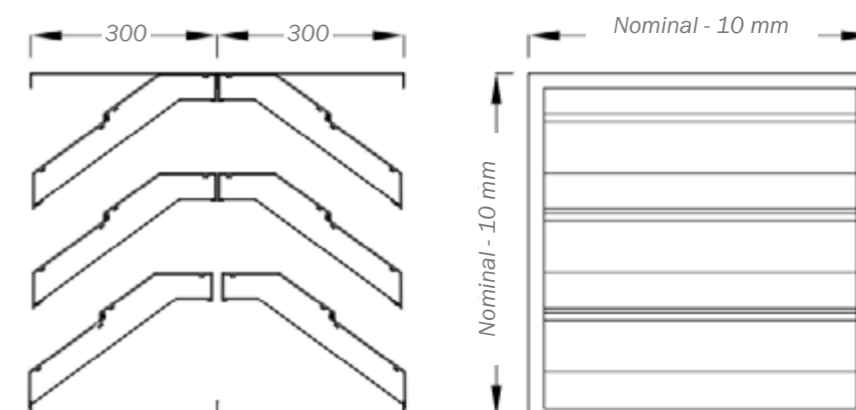
- AL150



- AL1



- AL2



Acoustic Louvres - AL

Fixings:

- **None (standard):**

Most acoustic louvres are supplied with no fixings.

In this instance we recommend drilling through either the louvre flange (if fitted) or the case and screwing directly into the supporting structure with an appropriate fixing.



- **Predrilled Face Fixing Holes - FH:**

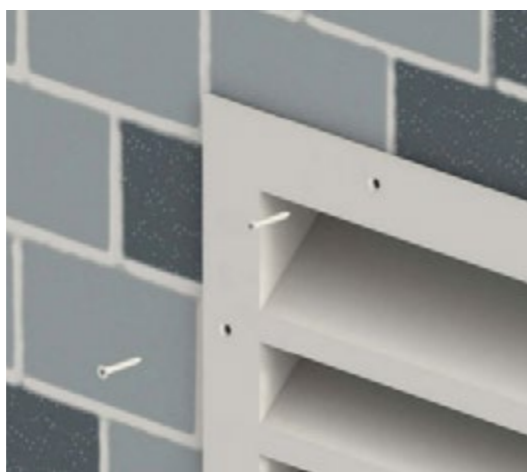
5.7 mm countersunk fixing holes will be punched into the louvre frame before powder coating, allowing quick and easy fitting on site.

Number and layout of fixing holes will be appropriate to louvre size.

Arrangements can be specified.

Supplied with pozidrive self tapping screws in the same finish as the louvre.

Only available if the louvre is specified with an optional flange.



Performance:

The following table gives the levels of sound reduction in dB at the shown frequencies for AL1 and AL2 acoustic louvres.

SERIES	63 Hz	125 Hz	250 Hz	500 Hz	1 K Hz	2 K Hz	4 K Hz	8 K Hz
AL1	5	6	8	13	17	20	15	14
AL2	7	10	13	23	30	32	30	28

Technical Notes:

Blade Spacings:

Blade pitch will vary between 160 mm and 195 mm based on louvre height with AL1 and AL2 louvres.

If the requirement exists for louvres of different heights to be placed next to each other, please contact our design team who will design your louvres to your specification and provide drawings for approval.

Flange Type:

The below table shows the standard and optional flanges available for Series AL acoustic louvres, along with ordering codes and dimensions.


These are only standard sizes (If your requirement is not shown below, please contact us):


FRAME CODE	DESCRIPTION	NOMINAL TO OVERALL SIZE
25F	25 mm flat	+37 mm
30FW	30 mm flat	+47 mm
50FS	50 mm flat (shallow)	+85 mm
75FS	76 mm flat (shallow)	+136 mm
100FS	102 mm flat (shallow)	+187 mm


Finish:


- Standard Galvanised steel and Mill aluminium
- RAL: Polyester powder coated to RAL
- BS: Polyester powder coated to BS



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engineering delivered. naturally

