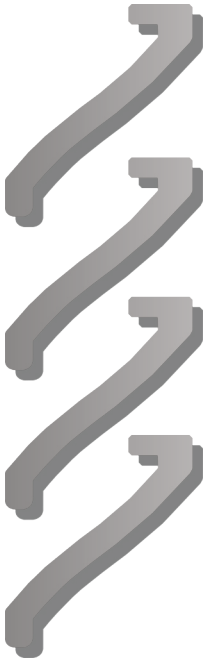
INTRODUCTION

Type **ASK75** Architectural Louvre System has been developed to give a low-pressure drop, low self-generated noise, as well as a visually pleasing aesthetic appearance complete with effective weathering performance.

The **ASK75** is a popular choice due to its suitability to a number of applications requiring permanent large-scale ventilation, such as air inlet and exhaust for air conditioning systems, plant rooms, generators and pumping stations.

The **ASK75** can be supplied in various formats to suit particular applications with different finishes and options as required.

All louvres are designed to suit your project, and our Team of Sales Engineers can assist with the design of the louvre package for the optimum product selection.



DESIGN AND MANUFACTURE

The **ASK75** Architectural Louvre system can be supplied in two different Formats. Either Site Assembled Continuous Line, or Factory Assembled Modular Formats both of which utilise aluminium components throughout.

The Continuous Line Format Louvre is an easily installed component based system using our unique clip together system which eliminates the need for any mechanical fixings, making it quick to install and efficient to transport.

The design of the system enables the louvre to be easily manipulated so that site tolerances and obstructions can be overcome with ease, and hence reducing time and cost implications.

TYPICAL DETAILS

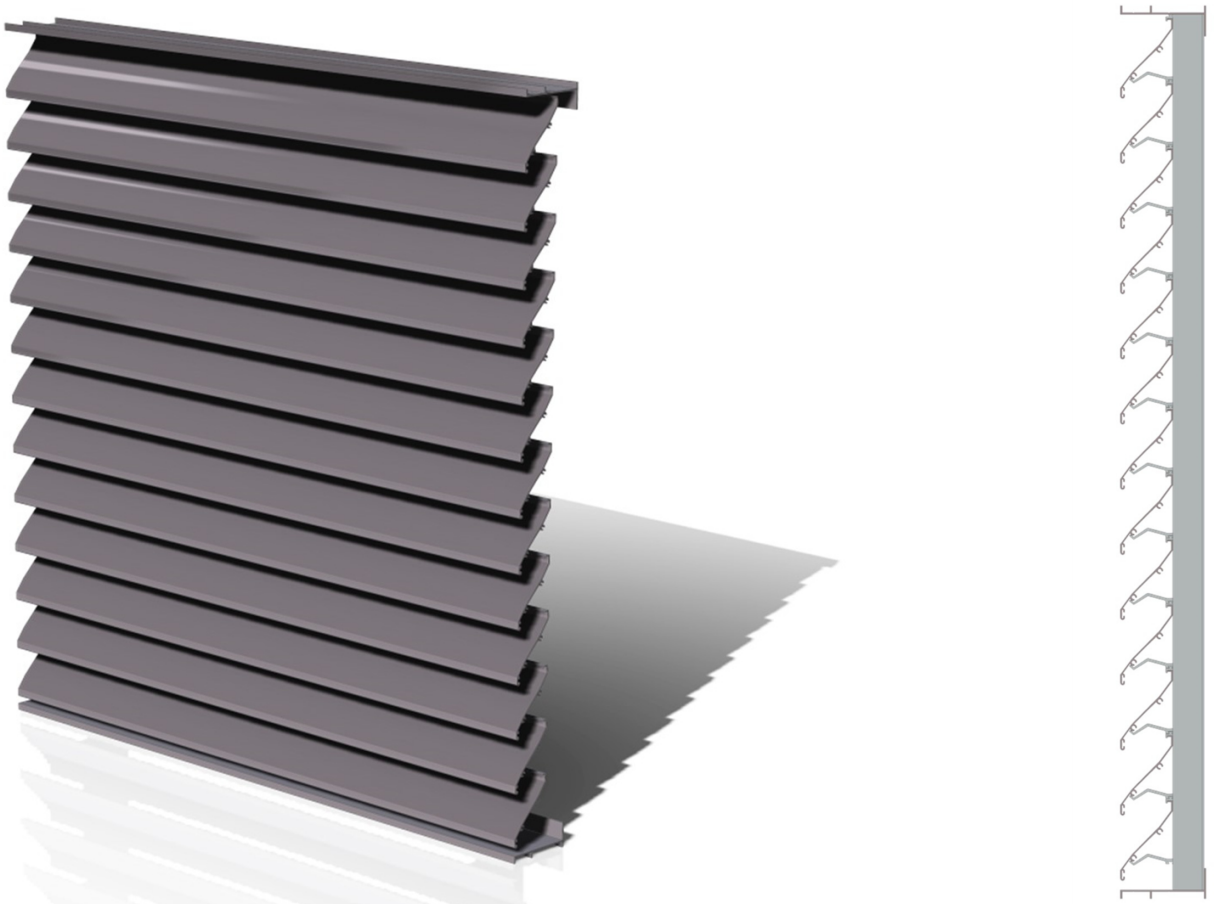


Figure 1 - Assembled Continuous Line Louvre showing concealed HAT section mullions to rear and top and bottom flashings with clip in blades.

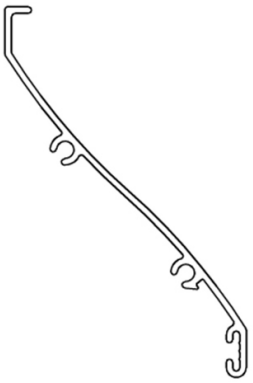


Figure 2 - ASK75 Louvre Blade.

AVAILABLE SIZES

Louvres are supplied in either Modular Format with permitted sizes of up to 2000mm wide x 2000mm high which will be Powder Coated after assembly, or Continuous Line Format with sizes from 1000mm wide x 500mm high up to any required size with blades and any frames finished prior to assembly.

Continuous Line Louvre Blades are generally supplied in 4000mm lengths with mullions positioned at 1000mm centres so that blades are joined at mullion centres.

Typical Specification

ASK75 Continuous Line Louvres.

Manufacturer:	Conabeare Acoustics Limited - 0118 930 3650
Louvre Type:	**ASK75** CF or CU Architectural Louvre.
Materials:	Extruded Aluminium Blades, Clips and Mullions to BS4174 - Grade 6063-T6.
Frame:	CF - extruded aluminium or 2.0mm pressed aluminium frame. CU - unframed louvre - concealed framework to rear.
Pitch:	75mm pitch with 60mm deep blade on 35mm mullion
Finish:	Mill Finish as Standard.
Description:	Extruded Aluminium Louvre System comprising extruded aluminium components throughout. Blades to be fitted using clip-fit system to alleviate the need for mechanical fixings for blades or clips. Louvre system to be assembled on site from pre-finished components to suit structural opening.

ASK75 Modular Louvres.

Manufacturer:	Conabeare Acoustics Limited - 0118 930 3650
Louvre Type:	**ASK75** MF or MU Architectural Louvre.
Materials:	Extruded Aluminium Blades to BS4174 - Grade 6063-T6.
Frame:	MF - extruded aluminium or 2.0mm pressed aluminium frame. MU - unframed louvre - concealed framework to rear.
Pitch:	75mm pitch with 60mm deep blade.
Finish:	Mill Finish as Standard.
Description:	Extruded Aluminium Louvre System comprising extruded aluminium components throughout. Blades to be fitted using mechanical fixings.

AVAILABLE OPTIONS

- Birdmesh Guards to the rear face.
- Insect mesh Guards to the rear face.
- Polyester Powder Coat to a Standard RAL Colour.
- Polyester Powder Coat to a RAL Metallic Colour.
- Anodised Finish to a Standard Colour or SAA25.
- Insulated Panel to rear face - various U values available.
- Acoustic Panel to rear face - 50mm, 75mm or 100mm.
- Single Leaf Door.
- Double Leaf Doors.
- Attenuators or Splitters.
- Filters - bag or panel.
- Dampers - Fire/Smoke or Volume Control.
- Security Bars.
- Steelwork Supports.
- Mitred Corners
- Bespoke Flashings
- Flanged or Un-flanged Frames

ENVIRONMENTAL CONSIDERATIONS

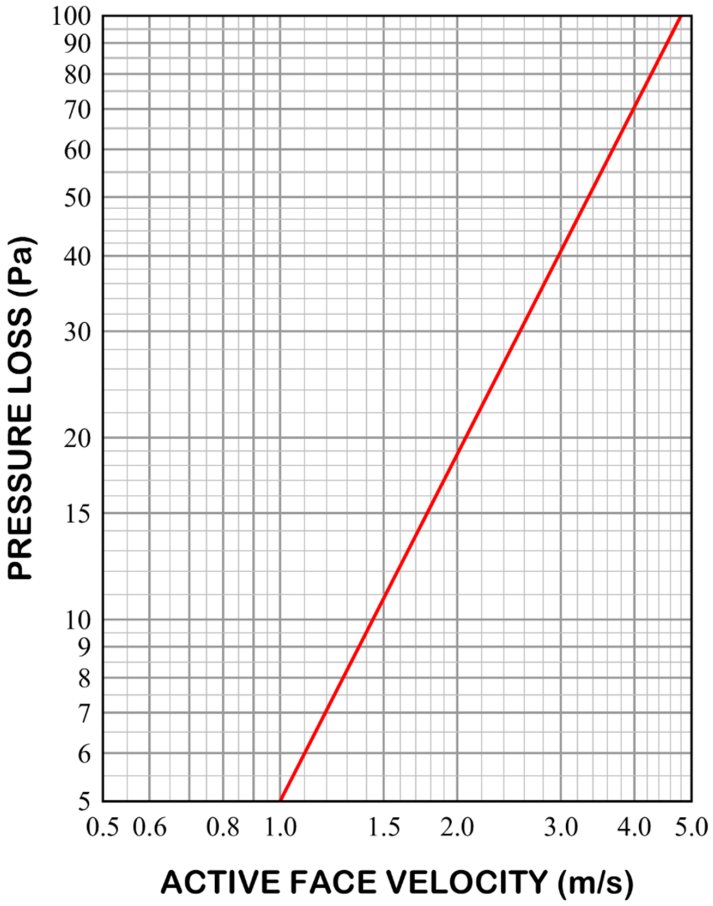
All items are produced in the UK from UK sourced suppliers and are constructed from recyclable materials throughout.

All items are supplied to ensure minimal handling, transportation and waste and as such all extrusions are ordered on a project by project basis to facilitate this.

All packaging is kept to a minimum and mainly consists of recyclable cardboard, bubble wrap or re-usable containers.

PRESSURE LOSS

$$Active\ Face\ Velocity\ (m/s)\ =\ \frac{Volume\ Flow\ Rate\ (m^3/s)}{(Width\ (m)\times(Height\ (m)-0.115))}$$



Pressure Loss % Increase Installed Situation	
Plenum To Duct (Supply air from atmosphere)	As Graph
Duct to Plenum (Exhaust air to atmosphere)	25%
Plenum to Plenum (Supply air from atmosphere)	50%
Plenum to Plenum (Exhaust air to atmosphere)	66%

EXAMPLE

ASK75 Exhaust Louvre at 1.5 metres wide x 0.8 metres high with a duty of 2.4m³/s.

$$Louvre\ Active\ Face\ Velocity\ =\ \frac{2.4m^3/s}{(1.5m\ \times(0.8m-0.115))}\ =\ 2.34\ m/s$$

$$From\ Graph\ Horizontal\ Axis\ 2.34\ m/s\ =\ 25\ Pa\ Pressure\ Loss$$

$$Exhaust\ Louvre\ Correction\ of\ 25\%\ (Duct\ to\ Plenum)\ \rightarrow\ 25\ Pa\ \times 25\%\ =\ 31.25\ Pa$$

$$Louvre\ Pressure\ Drop\ =\ 31.25\ Pa$$

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