



VENTILATION LOUVRES



Our details make the world of difference



INTRODUCTION

Crossflow are market leaders in the design, supply and installation of ventilation louvres in the construction industry. We manufacture a wide range of ventilation louvres that provide a combination of effective weatherability and airflow that is unsurpassed in the industry.

Our Louvres are the most aerodynamically efficient louvres available on the market that provide maximum coefficient free area. The construction of the louvre comes in five uniquely designed components, blade, mullions, clipping system, casements and fixing brackets. Once installed, the louvres are virtually maintenance free, eliminating the need for costly maintenance contracts.

FEATURES & BENEFITS

Aesthetics – our single bank “Z” shaped louvres are aerodynamically shaped that provide clean sharp lines whilst still retaining a continuous appearance and a large free area.

Maintenance – its high grade aluminium construction and A4 stainless steel fasteners, ensures minimal maintenance requirements.

Applications – the system is designed to be adaptable to virtually all on site applications and have maximum flexibility utilising adjustable stainless steel fixing cleats/ fasteners. All louvres are in kit form which enables a quick and easy install on site and allows for large on-site tolerances.

Performance – the CLS systems are aerodynamically efficient louvres with a high free area and also combine a high discharge loss coefficient with good weatherability.

PRODUCT RANGE & APPLICATIONS

Our standard louvres are available in 50, 75, 100, and 140mm pitch systems.

For good airflow and weatherability we can offer our CLS50mm Louvre system. This system is used where both good airflow and weatherability is required.

Where a high airflow and some water ingress is acceptable under storm conditions, our CLS75mm Louvre is available. This is a good “all-round” louvre system for most applications.

For a more economical louvre system our CLS100mm louvre blade is used where a good airflow is required and

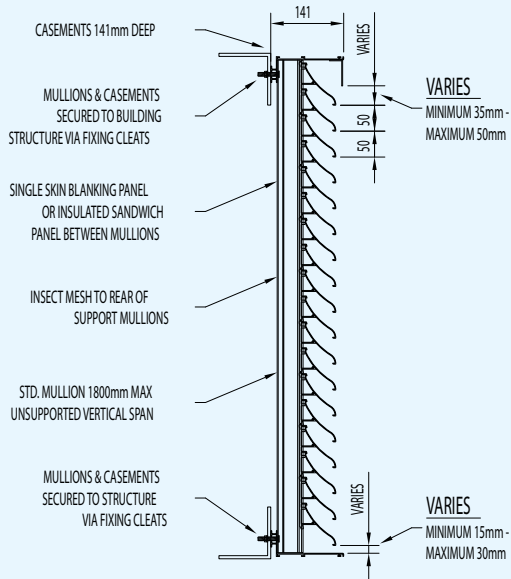
some water ingress under storm conditions is acceptable.

For open top plant screens, our 140mm pitch screening louvre is suitable to visually hide mechanical installations etc whilst still allowing good airflow. This louvre blade can also be used for horizontal Solar Shading.

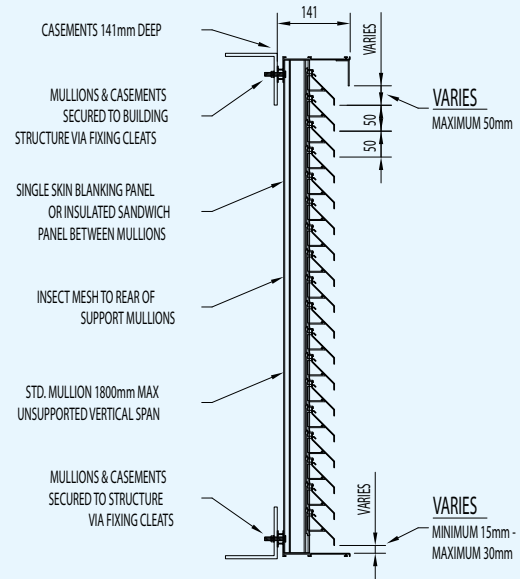
We also offer a full Acoustic Louvre Systems in 150, 300, 450 and 600mm deep modules to meet various building requirements and standards.

SYSTEM CONSTRUCTION

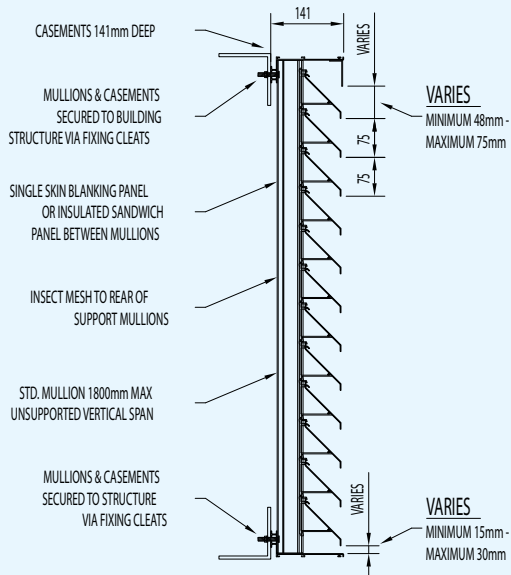
- **Mullions** – the mullions are fixed back to our stainless steel adjustable cleats. There are four different types of mullion available. There is a slim mullion, standard mullion and a structural high span mullion which allows the louvre system to span greater heights in many cases eliminating the need for secondary steelwork.
- **Louvres** – the aluminium louvres are manufactured from extruded aluminium alloy 6063 T6 and are installed in either box or kit form to suit the project specific requirements. They create a clean continuous appearance to any site dimension.
- **Clips** – extruded aluminium blade clips securely fix the louvre blade with a positive spring arm fixing action. No blades are required to be mechanically fixed.
- **Fixing Brackets** – stainless steel fixing cleats with slotted holes to overcome small tolerances, both horizontally and vertically.
- **Flashing** – extruded aluminium casement flashings are specific for the louvre system and create a weather seal around the louvre and a cill drip on the bottom.
- **Corners** – All louvre corners are compound mitred as standard. We can offer mitred and fully welded corners if required.
- **Accessories** – A full range of accessories for the louvres is available that includes insect mesh, rodent/bird mesh, fully integrated louvre doors, casement flashings, single skin backing and insulation panels.
- **Finishes** – All louvres are available anodised, mill finish or powder coated to any RAL or BS colour. A special “Decoral” finish is also available. This gives a realistic wood effect finish at a fraction of the cost of a real timber system.



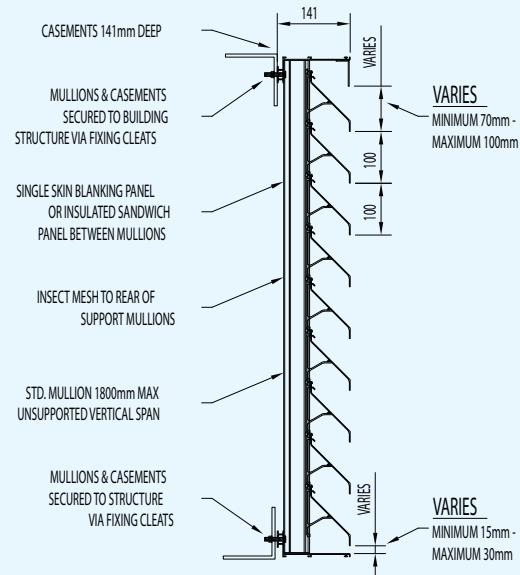
CLS50 CONTOUR LOUVRE PANEL SYSTEM



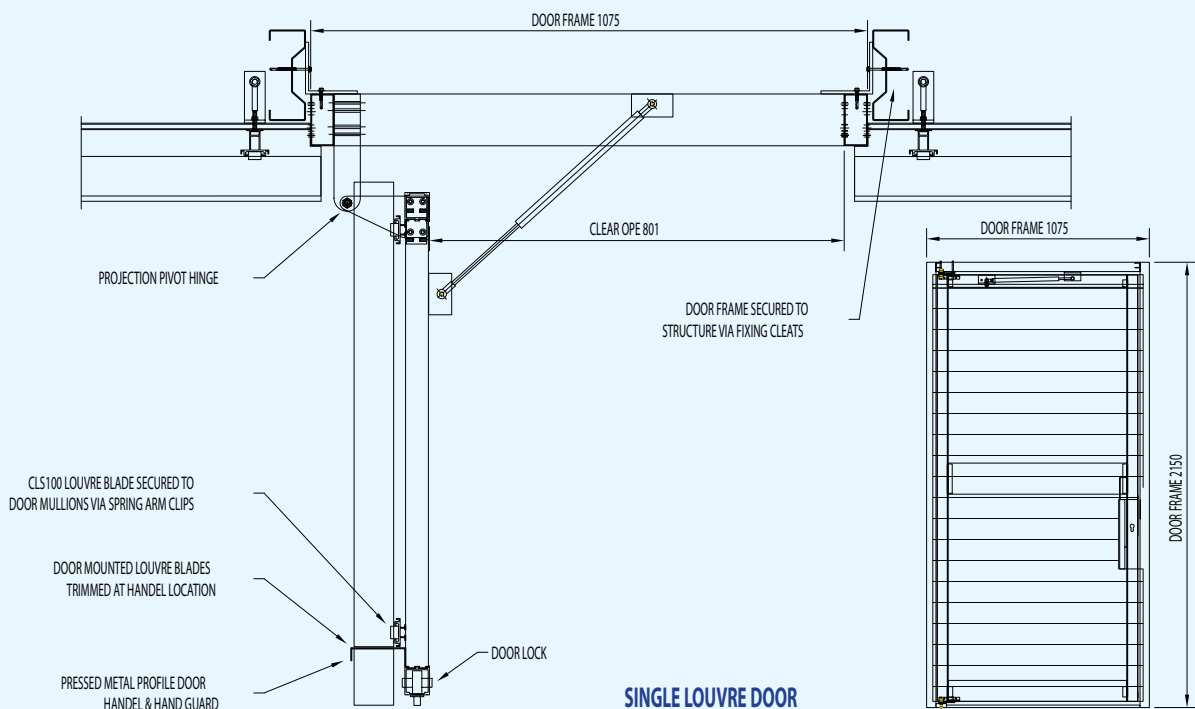
CLS50Z LOUVRE PANEL SYSTEM



CLS75Z LOUVRE PANEL SYSTEM



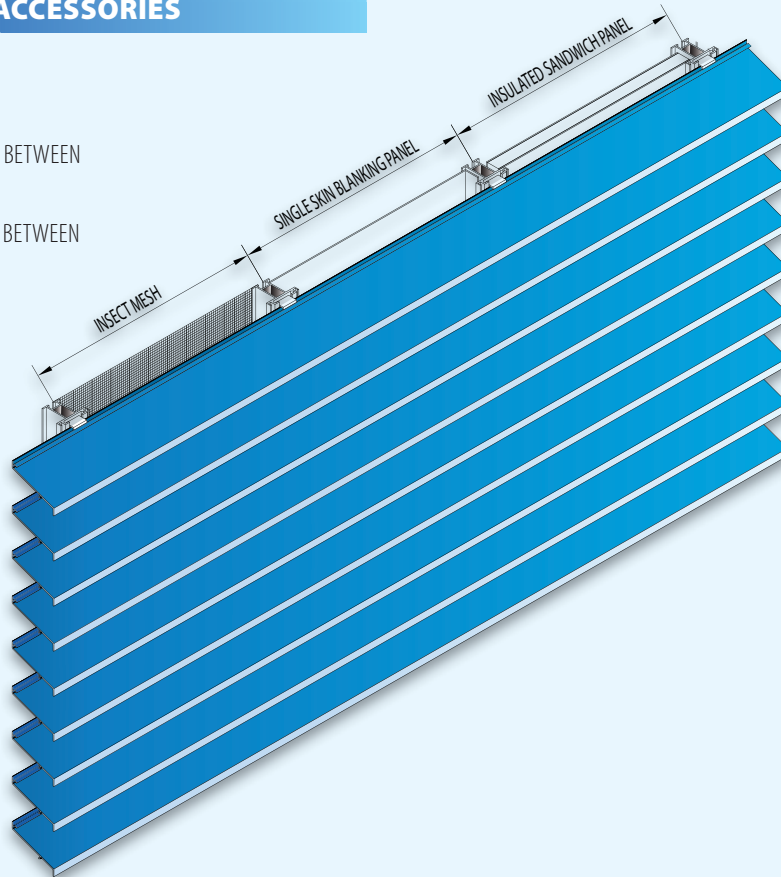
CLS100Z LOUVRE PANEL SYSTEM



SINGLE LOUVRE DOOR

LOUVRE ACCESSORIES

- INSECT MESH TO REAR
- SINGLE SKIN BLANKING PANEL BETWEEN SUPPORT MULLIONS
- INSULATED SANDWICH PANEL BETWEEN SUPPORT MULLIONS



TECHNICAL SPECIFICATIONS

Product reference: Crossflow CLS 50mm/75mm/100mm: Ventilation Louvre Blade mounted on mullions fixed to structure with adjustable stainless steel cleats. Interface between building and louvre to be extruded aluminium casements.

Louvre System: Blades are to be extruded from a minimum 1.6mm and maximum of 2mm thick aluminium to provide a minimum resistance to airflow whilst maintaining a high level of weatherability. Test results incl insect mesh. Nominal free area is 50%, 53%, 58%. HEVAC test conducted by BSRIA to the standard EN 13030 Edition 5. Water penetration test measured at a given face velocity and specifically not core velocity Louvre to give a continuous appearance but expansion gaps need to be considered at 6mt maximum centres. Mullions and Blades are to be manufactured from extruded aluminium allot 6063 T6, complete with extruded aluminium blade clips to securely fix the louvre blade with a positive spring arm fixing action at maximum centres of 1225mm. Mechanical fixing of blade will not be allowed.

Blade Pitch and Angle: 45 degree and 50mm/75mm/100mm pitch

Accessories:

- Louvre System to include matching Single/Double Louvred Door. Door to incorporate the 50mm/75mm/100mm blade system complete with Euro-profile mortice deadlock with single cylinder/thumb turn and escutcheons, gas stay and stainless steel pivot hinges, shoot bolt to top and bottom on double doors and closure blade casements.
- Blanking to the rear of the louvre blades available in single skin sheet and 25mm/46mm and 66mm insulated panels with Plastisol finish to both sides.
- Insect mesh/Bird mesh available in fibreglass/HDPE and aluminium.

Finishes Available:

- Polyester Powder Coat, 60 microns to BS8496 to any RAL or BS colour. Select as required
- Anodised finish AA25 to BS3987
- Mill finish natural aluminium
- Decoral Timber effect finish.

Fixings: All fixings to be A4 grade stainless steel

Installation: By Crossflow Ltd.



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