



# VERTICAL STORM LOUVRE 37 XHP

*Our details make the world of difference*



## INTRODUCTION

The Crossflow CLS 37 XHP range of louvres are the premium louvres in our range in terms of weather performance and aesthetics and are of the highest standards of design and manufacture. An efficient, simple and effective weather ventilation louvre that provides a combination of airflow, weatherability and pleasing aesthetic appearance.

## FEATURES & BENEFITS

**Aesthetically** – the curved aerodynamic shape has clean sharp modern lines that provide aesthetically pleasing continuous appearance vertical louvres.

**Virtually maintenance free** – the all aluminium louvre, mullion, clip assembly and fasteners, require minimum maintenance apart from periodic cleaning as outlined in our maintenance manuals.

**Reduces energy costs** – as the blade shape is aerodynamically efficient, it has a low coefficient of discharge thus reducing air resistance through the louvre, and allowing the aperture and plant equipment to be smaller than standard louvres so saving capital outlay and running costs.

**Performance** – the CLS 37 XHP Louvre system combines aerodynamic efficiency and a high free area with the highest possible weather efficiency.

## PRODUCT RANGE & APPLICATIONS

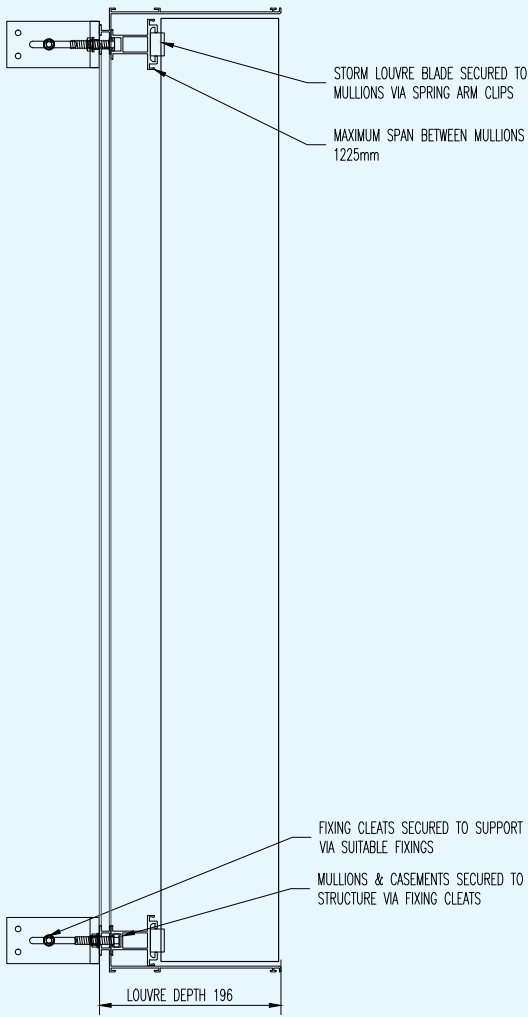
The Crossflow CLS 37 XHP Louvre providing the highest levels of rain defence (Class A Louvre at 3.5 metres/sec in accordance with EN13030 Edition 5).

## WEATHER EFFECTIVENESS

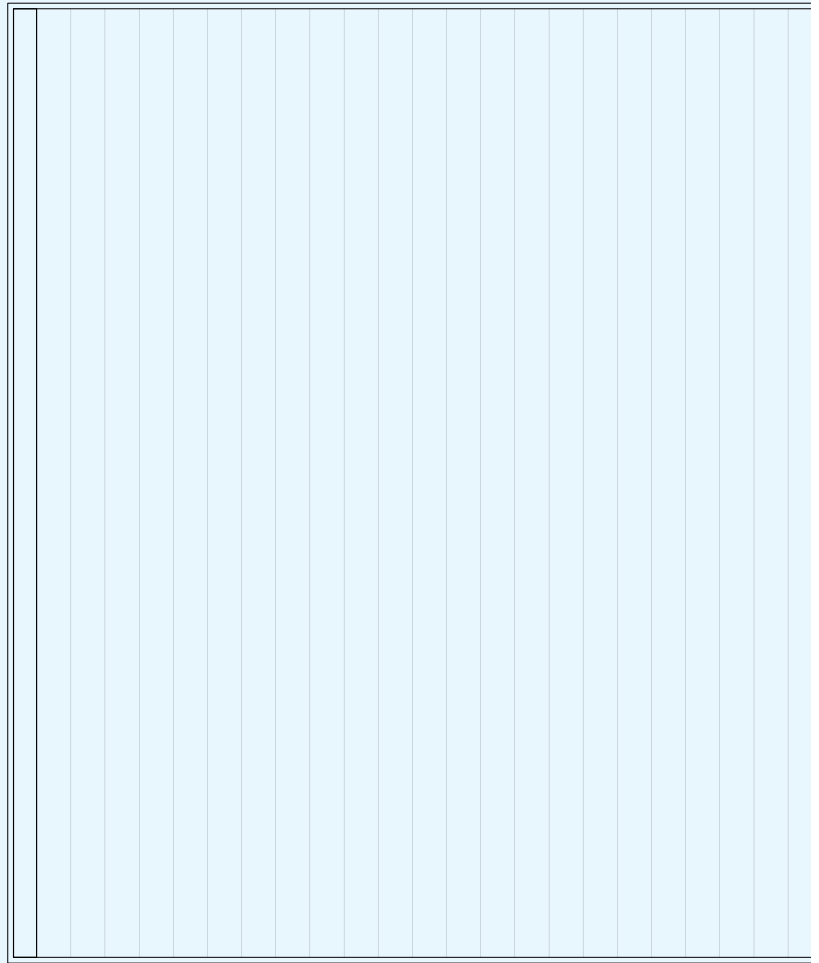
Louvre Type	FACE VELOCITY (EN13030 EDITION 5) M/SEC					
CLS 37 XHP	0.0	1	2	2.5	3.0	3.5
Water Rejection	100%	100%	100%	100%	100%	100%
HEVAC Class	A	A	A	A	A	A

## SYSTEM CONSTRUCTION

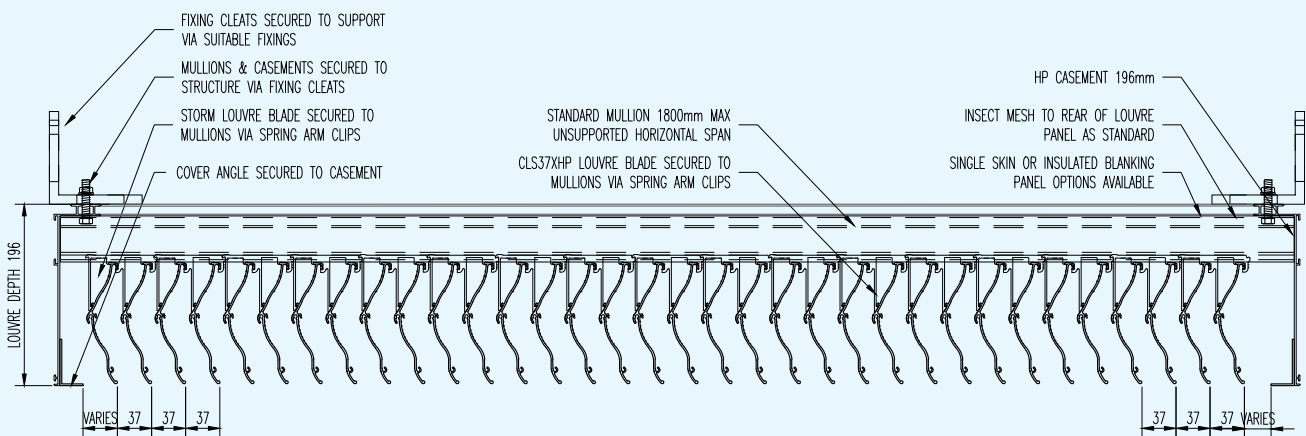
- **Mullions** – The mullions are fixed back to our aluminium adjustable cleats. There are three different types of mullions available. There is a slim mullion, standard mullion and a structural high span mullion which allows the louvre system to span greater heights in many cases eliminating the need 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 clips securely fix the louvre blade with a positive spring arm fixing action. No blades are required to be mechanically fixed.
- **Fixing Cleats** – Aluminium 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.
- **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 blanking 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.



**CLS37XHP – STORM LOUVRE**  
SECTION DETAILS



**CLS37XHP – STORM LOUVRE**  
ELEVATION



**CLS37XHP – STORM LOUVRE**  
PLAN DETAILS

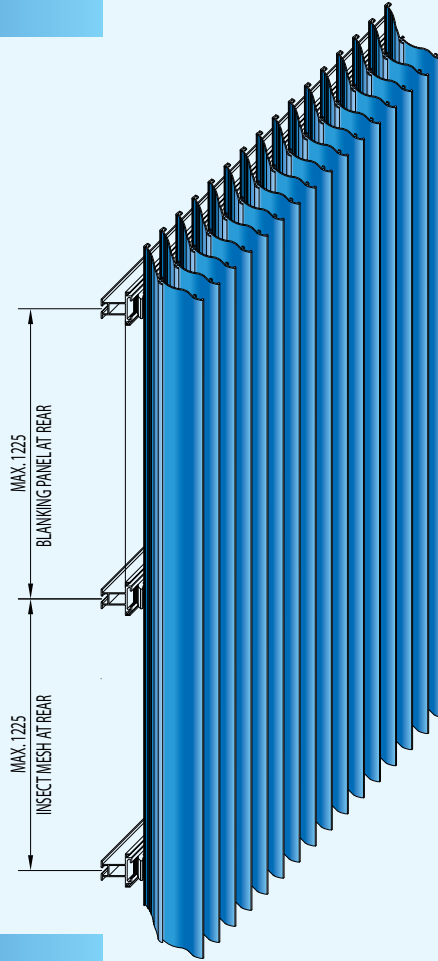
## LOUVRE ACCESSORIES

STORM LOUVRE SYSTEM ON STANDARD SUPPORT MULLIONS

INSECT MESH TO REAR AS STANDARD

SINGLE SKIN BLANKING PANEL BETWEEN SUPPORT MULLIONS

INSULATED SANDWICH PANEL BETWEEN SUPPORT MULLIONS



## TECHNICAL SPECIFICATIONS

### CROSSFLOW CLS 37 XHP VERTICAL LOUVRE

**Product:** Crossflow CL 37 XHP Vertical Storm Louvre

**Material:** All material manufactured from aluminium alloy to BS1474 grade 6063 T6 inclusive of blade, mullion, clips and casement.

**Blade pitch:** 37mm pitch with aerodynamically curved blade with dynamic angles of incidence to aid airflow whilst preventing rain ingress.

**Blade performance:** The blade will be tested to EN13030 edition 5 and

effectiveness shall be as follows:

**CD:** 0.4

**Nominal Free Area:** 57%

**Weatherability:** Class A up to 3.5m/s EN1303 Edition 5

**Orientation:** Vertical

N.B. Louvres must be fitted in vertical orientation only for weatherability

### Special Features:

Louvre blades shall be extruded to ensure the most advantageous profile for the minimum pressure losses possible with maximum weatherability; ensuring air flow is not split and turbulence is kept to the absolute minimum. The blade shall be clipped to an all aluminium mullion construction and shall support the blade locally over not less than 25mm width per clip for strength whilst still allowing for thermal expansion. The mullion shall be extruded and designed to allow maximum flexibility both in terms of fitting and spanning large centres for minimum secondary steelwork requirement and shall have an average of 3mm wall thickness. All fixings to structure shall be as per manufacturer's recommendations.

### Accessories:

- Louvre System to include matching Single/Double Louvred Door. Door to incorporate the CLS 37 XHP Vertical Louvre complete 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 insulated panels.
- 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 corrosion resistant

**Installation:** By Crossflow Ltd.

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