

Introduction

A system of British design and manufacture. An efficient, simple and effective weather ventilation louvre that has at last achieved the combination of airflow and weatherability without compromise that has eluded other louvre manufacturers over the last 25 years.

Its all aluminium construction and unique clipping system remove the possibility of a bi-metallic reaction and "staining" on building façades.

Features & Benefits

Aesthetically pleasing – the contoured aerodynamic shape with inherent strength capability has a distinctive profile, whilst still retaining a continuous appearance.

Virtually maintenance free - its unique patent pending all aluminium assembly for louvre to mullion clip and A4 stainless steel fasteners, ensures eradication of any bi-metallic reaction.

Reduces energy costs - as the blade is aerodynamically efficient, it has the best coefficient of discharge on the market for an extruded blade, or even the well-known roll formed version. With air resistance being reduced through the louvre, it allows the aperture and plant equipment to be smaller so saving capital outlay and running costs. Special "Decoral" finish effects coated onto the aluminium produce startlingly accurate wood and marble etc. effects at a fraction of the real cost of these materials and still carry the full 25 years guarantee.

Flexibility - the system is designed to be fitted with the maximum flexibility utilising stainless steel M8 nuts and bolts to be slotted into stainless steel universal fixing brackets. This combined with the high strength of the blade allows easy and quick installation with large tolerance capacity within the aperture.

Performance - the system has the most aerodynamically efficient louvres available on the present market with an extremely impressive free area (maximum incidence). It is also remarkably weather efficient which, until now, was thought to be impossible. The aperture for air intake is smaller but the amount of water entering the system is less than any other single blade with a similar coefficient of discharge. Indeed, the 50mm Contour blade is better than some manufacturers double bank systems.

The Range

They are available as 50, 75 and 100mm ventilation louvre systems. The XL louvre provides an effective screening system. Acoustic louvres are also available to

help reduce sounds that are directly admitted into the building, as well as reflected and airborne noise. The Levolux 'sand trap' louvres are used in horizontal or inclined areas where very high degrees of weatherability is required.

System Construction

- Mullions • Louvres • Clipping System
- Fixing Brackets • Casements

• **Mullions** - the mullions are fixed back to Levolux stainless steel adjustable brackets at around 1200mm centres. There are three different types of mullion available. A strap mullion for small panels, the standard profile and a deeper profile which allows the louvre system to span greater heights, in many cases eliminating the need for secondary steelwork.

• **Louvres** - the aluminium extrusions are important in that they can be made into complex shapes required for an effective louvre system.

• **Clips** - the unique all aluminium tension clip system locates into slots in the louvre and locks under the clip above. Once positioned the clip becomes immovable. Only one mechanical fix is required.

• **Fixing Brackets** - stainless steel fixing brackets with slotted holes both horizontally and vertically, to overcome small tolerances.

• **Casements** - a range of extruded aluminium casements are available for all louvres including flange frames, cill and glazing frame options.

• **Accessories** - for the louvres include insect mesh, doors, casements, backing and insulation panels.

• **Finishes** - are available in mill, anodised or polyester powder coated to any RAL colour.

3 Year Warranty

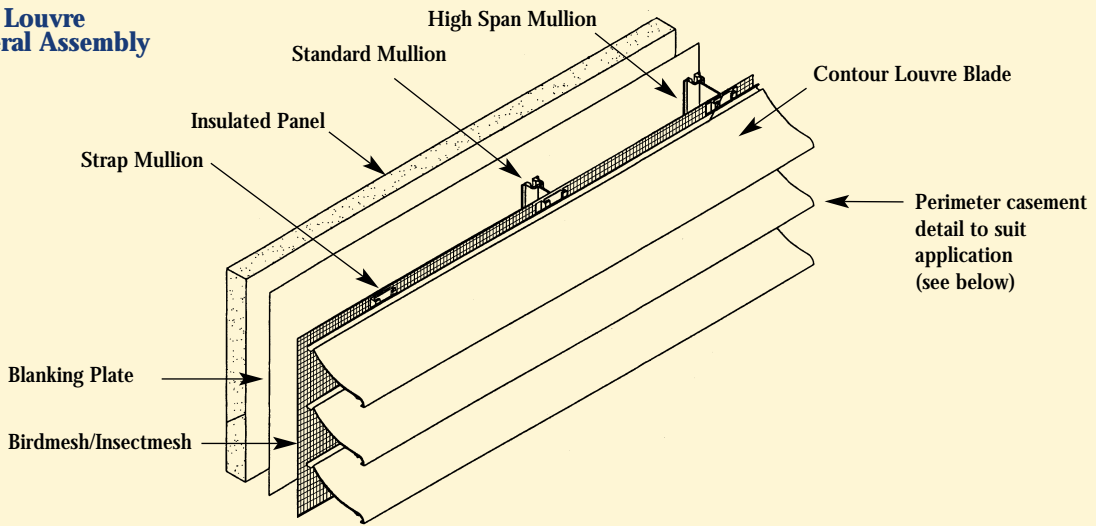
All Levolux systems are made of a high grade material to exacting specifications. This enables us to offer a guarantee providing free of charge replacement parts should any system prove defective within 3 years of installation. This guarantee is conditional on manufacturer's recommended fitting, operating and maintenance instructions having been followed.

High Performance Ventilation Louvres

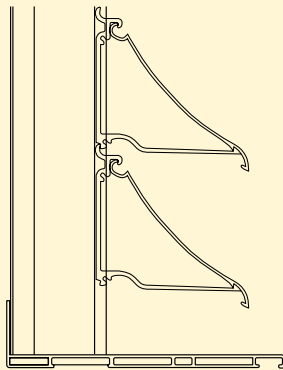
Please see separate literature for Levolux High Performance Ventilation Louvre systems.



Vent Louvre General Assembly

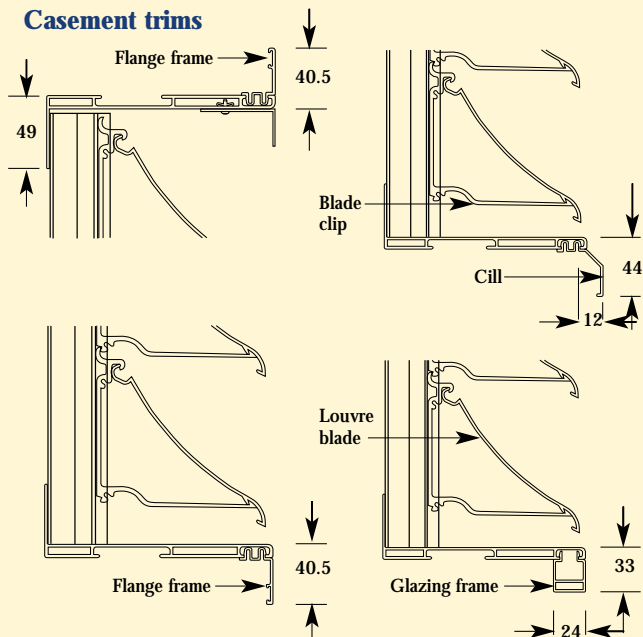


Casement details

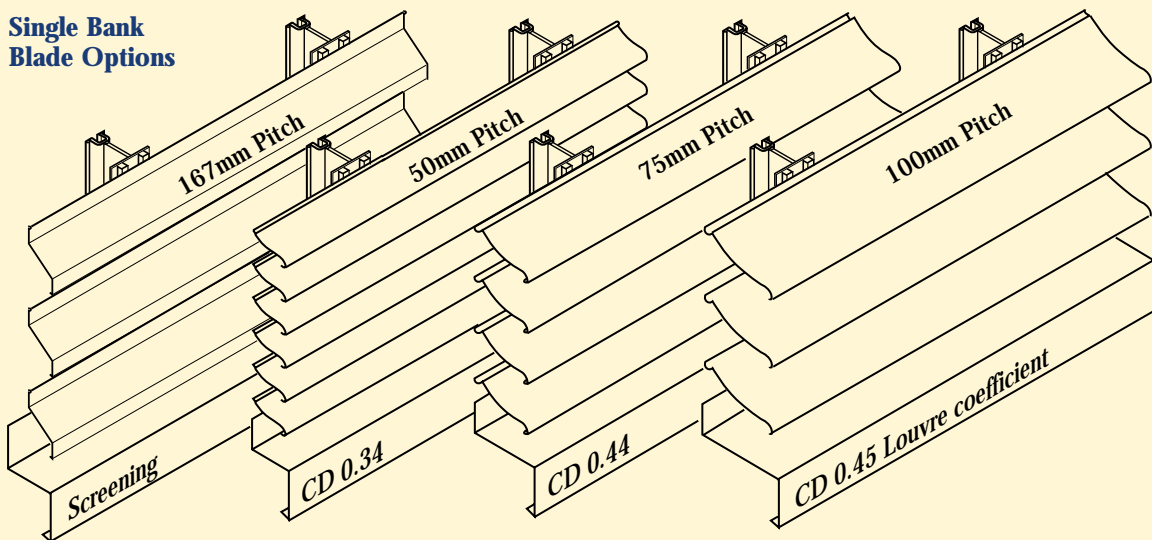


Various sizes of extruded casements are available

Casement trims



Single Bank Blade Options



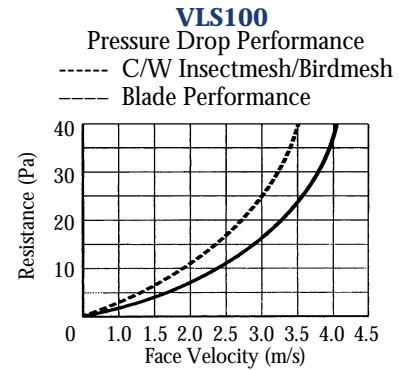
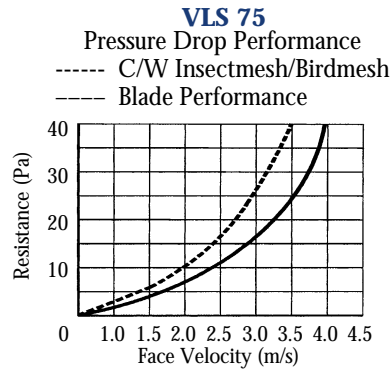
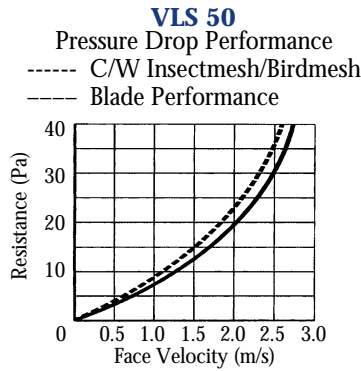
XL Louvre

VLS 50

VLS 75

VLS 100





General Description

Louvres - High performance vent louvre with hidden fixing for continuous appearance. All clip to blade and clip to mullion fixings to be aluminium alloy 6063 T6 to prevent possible bi-metallic reaction. Weatherability classification nomenclature (from results obtained from the Building Services Research and Information Association) should be as follows below.

Doors - Highly flexible extruded aluminium door designed with bespoke extrusions especially for the purpose of louvres. Hinge type and lock may be specified to suit exact customer requirement. Standard ironmongery Euro-profile mortice deadlock complete with single cylinder and escutcheons, handles integral with the aluminium frame.

Limiting Core Velocity

Pitch	50mm	75mm	100mm
0 m/s Vent	A2	B2	C2
1 m/s Vent	B2	B2	C2
2 m/s Vent	C2	C2	C2

Specification

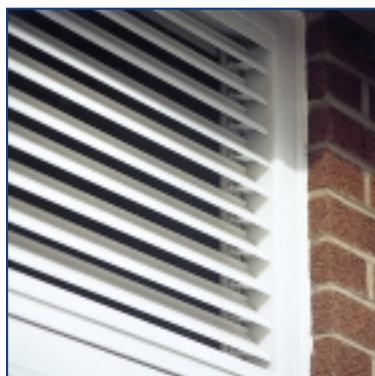
High performance vent louvre blade. Extruded aluminium profile aerodynamically designed to provide minimum resistance to air passage whilst retaining a high degree of weatherability and also incorporating high inherent strength characteristics. High performance vent louvre door using extruded aluminium profile designed to allow maximum flexibility both for build and blade type permutations. Aluminium Extrusion to BS 1474, Alloy to BS 6063 T6. Blade Pitch to be 50/75/100mm with angle varying to provide optimum performance and free area of 66/80/84%* respectively.

Finish - Polyester Powder Coated
Anodising to BS 3987 - AA25
Other finishes are also possible such as PVF2, please enquire.

Backing - Birdmesh/Insectmesh
Blanking Plate
Insulated blanking plate

Fixings - Stainless steel to a minimum A2 grade
* free area based upon maximum incidence

In line with the policy of continuous product development Levolux reserves the right to alter specifications without prior notice.



For further information on Levolux ventilation louvres and our wide range of sunscreening systems to control light, heat and glare please contact:

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