

Thank you for choosing Mesa Vent louvre windows. The following guide is provided as advisory information for the commissioning and maintenance of our louvre window products.

In buildings fitted with NSHEV systems certified to EN12101-2, the owner/occupier has a legal responsibility to ensure the proper function and maintenance of any installed smoke ventilation systems.

Installation Instructions

Please visit our website or contact head offices for copies of our installation instructions, and our guide on fitting loose louvre blades (if applicable).

Always refer to your project specific drawings for job specifics.

Commissioning

Commissioning Mesavent units, particularly those certified under EN12101-2, is a critical step that ensures the safety and functionality of ventilation systems. This process must be conducted by professionals who are qualified and familiar with these specific systems. The commissioning process involves several key steps to verify the proper installation and operation of Louvre Windows, which are an integral component of these ventilation units.

Firstly, the operation of each Louvre Window must be tested to confirm that they function as intended. This testing can be done using the manual control handle or the electric motor, depending on the type of system installed. This step ensures that the windows can be opened and closed without any issues, providing necessary ventilation or smoke extraction in emergency situations.

Additionally, a thorough visual inspection of the Louvre Windows is essential. This inspection includes checking the alignment of the louvres, ensuring that the spacing between them is uniform, and verifying that the ends of the louvre blades are correctly positioned in relation to the side frames. Any discrepancies, such as unevenness or gaps, could indicate that the window is not correctly installed. It's also crucial to ensure that the louvres seal evenly and tightly against the frame when closed to prevent drafts and ensure efficient operation. Should any faults be discovered during the commissioning process, they must be reported immediately to Mesa Vent Ltd.



Maintenance

Natural smoke and heat exhaust systems are critical in ensuring safety and compliance in modern buildings. These systems, often composed of elements like Mesa Vent Louvre Windows, play a vital role in ventilating smoke and heat, allowing occupants a safer environment during emergencies. For building owners and occupiers, there's a legal imperative to maintain these systems in optimal condition, ensuring they function as intended at all times.

This involves routine checks and servicing tasks to be undertaken at least once every 12 months:

1. Ensure the louvres can open and close smoothly and seal correctly when shut.
2. All moving parts and all locking points of the Tilt & Turn hardware must be greased.
3. Regular visual inspections identify and address any signs of wear and tear, gaps between louvres, or between the louvres and their frames
4. Clean any accumulated dirt that might impede function, especially around brush seals. See cleaning instructions in the section below.
5. For systems equipped with motorized components, verifying the anti-trapping functionality (where fitted) is crucial to prevent accidents during operation.

Spare parts are available directly through Mesa Vent Ltd. Building owners and occupiers are encouraged to reach out with any service-related queries or when in need of spare parts, assuring that the maintenance is conducted properly.

Cleaning

Apart from the sun and rain, external wall elements are also exposed to aggressive air constituents and are therefore subjected to soiling. This impairs the appearance of the façade and due to the constant effect of the dirt deposits; there is also a risk of corrosion. The components must therefore be cleaned at intervals which differ depending on the location.

All accessible parts of the louvre window must be cleaned on the inside and outside (including the rebate area).

Light soiling is removed with a sponge and cloth and water to which a neutral cleaning agent has been added (do not use soapsuds). Then thoroughly rinse with clean water.

If the soiling is more severe, slightly abrasive cleaners will be required; however, they may not be used on glass.

The cleaning agents must be matched to the relevant material, which must be checked before starting the work. The surface and the corrosion proofing of the parts must not be damaged by the chosen cleaning agent. To clean, use detergent solutions with a pH value of between 5 and 8. Acids such as lyes (e.g. cleaning agents outside the pH values between 5 and 8) and coarse cleaning agents (e.g. thinners, benzine) are unsuitable and can cause irreparable damage. Never use abrasive or sanding agents, wire wool or wire brushes. If in doubt, contact the manufacturer to find out whether the cleaning agent is suitable. In the case of coated surfaces, try out the chosen cleaning method in a concealed area first to ensure that the paint is neither mechanically nor chemically damaged.