

Intake Louvres

Gilberts Natural Ventilation intake louvres provide a high weather efficiency design with only a standard single louvre bank arrangement. Under driving wind and rain conventional single bank louvres will allow some degree of water ingress. With motorised dampers (and possibly coils) behind the louvre this is undesirable and for this reason Gilberts Natural Ventilation louvres are all of a high efficiency design as standard.

Our slender weather efficient, patented louvre design is not only narrow but also offers a much lower pressure resistance than conventional double bank high weather protection designs. This allows us to use smaller louvre areas for any given air requirement or, in effect, simply provide more air, size for size as

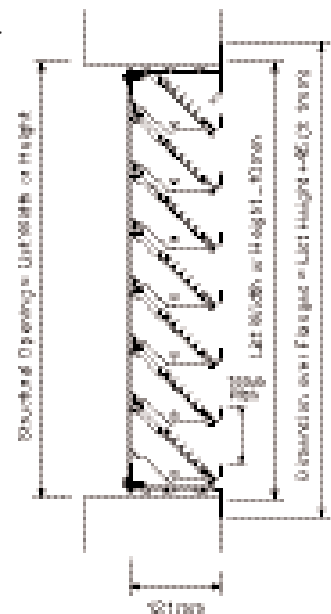
compared to competitive designs. A key benefit here is that this reduces the size requirements not only for the louvre but also for expensive associated components like dampers and heating/cooling coils to ensure maximum design cost efficiency. Manufactured from extruded aluminium our louvres are structurally very strong and can be fitted into either the window openings or into the walls.

All louvres are fitted with bird guard screens as standard with insect screens and weather cills also optionally available.

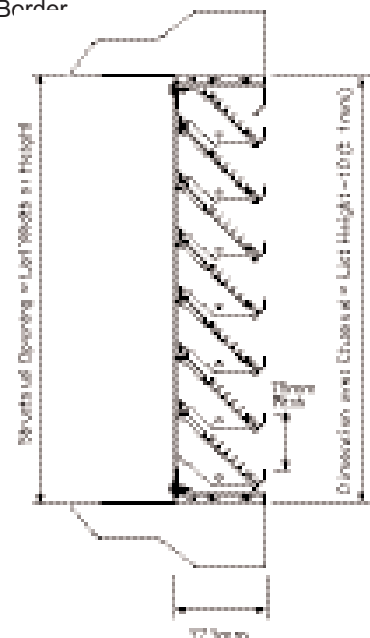
A durable polyester powder finish to any BS/RAL colour also allows architectural choice to blend or contrast with the building structure as required



Type NV-WHF/75
- Flange Face Border



Type NV-WHC/75
- Channel Frame Border





Efficiency Graph

Testing in accordance with European Standard EN13030 for weather louvre Performance shows our WH unit be 99.5% effective in screening/exhaust applications and 99% effective even with face velocities of up to 1m/sec (rated at class 'A'). The performance graphs below illustrate effectiveness under differing weathering parameters.

All testing was conducted in accordance with European Standard EN 13030 ie: simulated conditions of 13m/sec (30mph) wind speed with heavy rain. Even at extremes of selection the unit offers excellent weather protection.

Similarly the pressure loss graph clearly indicates the minimal pressure losses incurred by the WH design. Performance at this level ranks the units alongside the very best in performance louvres.

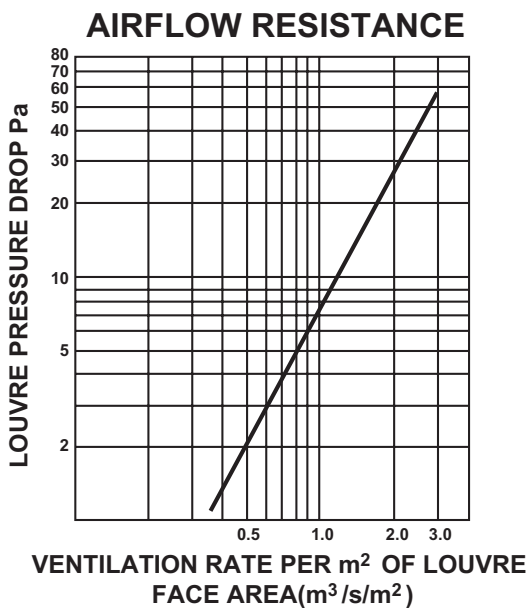
Water Repellent & Drainage Features

All Natural Ventilation assemblies are normally provided as standard with a high efficiency weather louvre on the outside. These units have been classified to the current weather louvre test standard reference BS EN 13030 and offer a high degree of water protection.

If however a small amount of water does pass through the weather louvre blades, provision has been built in to the Natural Ventilation design which will cater for collection and the drainage of this water back to the outside via the lower section of the assembly.

This design is similar to the design used on some double glazed units and prevents water lodging in any part of the assembly. It is however recommended that the units are cleaned on a regular basis with all drain channels checked.

Pressure/Volume Graph



Effectiveness/Volume Flow Graph

