SECURE ROOM

Anti-ligature Ventilation Louvre

High performance ventilation louvre designed and approved for use in Special Hospitals where there is a ligature risk.

Typical Applications:

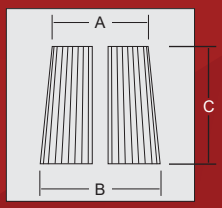
- Special hospitals
- Seclusion rooms
- Prisons

Technical information:

- Heavy duty steel construction.
- Vanes fully welded top and bottom.
- Flange fixing plate securely fitted to wall fabric.
- Pin-torx security screw fixing of the louvre to the flange fixing plate.
- Wall aperture size 380mm x 380mm.
- Finish - powder coated cream gloss as standard, other colours available, by request.

Panel sizes:

Louvre Width (mm) 'A'	Louvre Width (mm) 'B'	Louvre Height (mm) 'C'	Air Flow %
300	300	244	20%



Air flow percentages are rounded down to the nearest whole number.
Airflow calculations should be considered as a guide only.

380mm x 380mm (0.38m x 0.38m) unit:

Louvre area: Area of a trapezium = ½ x h x (a + b) = 0.5 x 0.340m x (0.280m + 0.352598m) = 0.1075417m^2

Area covered: Centre column area = 0.040m x 0.340m = 0.0136m^2

Blades area = 14 of 0.003m x 0.340m = 0.01428m^2

Angled shelf area = 2 of 0.016823m x 0.156299m = 0.0052588m^2

Total area covered = 0.0331388m^2

Louvre area - Total area covered = Gaps between blades. 0.1075417m^2 - 0.0331388m^2 = 0.0744029m^2

Free air flow percentage: $\frac{0.0883234}{0.2937600}$ x100

=69% (rounded down to nearest whole number)

Note: The value on the examples is based on air figure constant and does not include any type of mesh.

AIR FLOW DYNAMIC CALCULATIONS AVAILABLE ON REQUEST

Optional enhancements:

- **Accelerant Protection - Internal stainless steel mesh shield with bevelled run out.**
- **Vibration Alarm - sensor connected to louvre blade.**
- **Covert fixings.**

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