

COLDSTREAM

CPNI

Centre for the Protection
of National Infrastructure

Approved by UK Government and, for single contract CPNI

Security Level Louvre High performance ventilation louvre

Typical Applications:

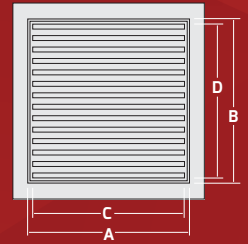
- Server Rooms
- Generator Rooms
- Air Conditioning Systems
- Sub Stations
- Chemical Storage
- Nuclear Power Stations

Technical information:

- Construction - Heavy duty steel or stainless steel.
- Tested Size - 1,000mm x 1,000mm.
- Finish - as standard powder coated Grey/White leatherette or alternatively in a colour of your choice.

Panel sizes:

Width (mm) 'A'	Height (mm) 'B'	Louvre Width (mm) 'C'	Louvre Height (mm) 'D'	Air Flow %
300	300	244	220	29%
600	600	544	540	30%
1000	1000	944	900	31%



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

600mm x 600mm (0.6m x 0.6m) unit:

Louvre area: 544mm x 540mm = 0.544m x 0.540m = 0.29376m²

Gaps between blades:
 32 of 0.168 x 0.01326 = 32 of 0.0022276 = 0.0712832m²
 14 of 0.074 x 0.01326 = 14 of 0.0009812 = 0.0137368m²
 03 of 0.168 x 0.00791 = 03 of 0.0013288 = 0.0039864m²
 0.0712832m² + 0.0137368m² + 0.0039864m² = 0.0890064m²

Free air flow percentage: $\frac{0.0937742}{0.2937600} \times 100$
 = 31% (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.