

# Phoenix Pleated Panel Filters EU4-8



## Typical Applications

**Hotels**

**Offices**

**Hospitals**

**Food Production**

**Pre-filtration**

**Asbestos Removal**

**General air conditioning and most applications**

All Phoenix panel filters are constructed with a robust unitary card frame and lattice support. They are available in Metal cased or beverage board if required for applications of high humidity, and moisture.

They are available in efficiencies EU4-8, wide ranges of standard sizes are available, and also we can manufacture to your required non-standard sizes.

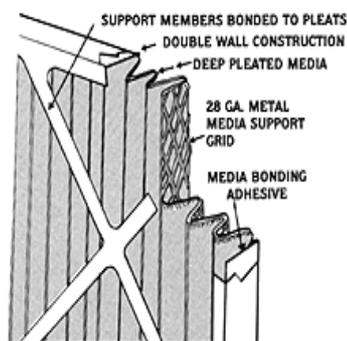
Our Phoenix pleated filters operate on a principle of filtration, which utilises controlled pleat spacing and alignment. This design assures uniform airflow throughout the filter. Initially the least resistance to airflow is at the bottom of the pleat where contaminants are filtered out. As the contaminants build up, the resistance at the bottom of the pleat increases and airflow gradually moves up the pleat. Larger dirt particles are trapped in the rear of the pleat; their inertia prevents directional change, while the smaller particles able to change direction are caught along the sides of the pleats. As the particulate matter builds up it functions as an additional filter medium.

Air filter performance is measured by dust holding capacity and filtration efficiency. Greater dust holding capacity means longer life and lower operating costs. Greater efficiency means cleaner air and reduced maintenance costs.

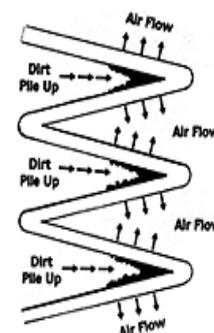
Phoenix pleated filters are excellent in both of these performance characteristics.

### Construction

The filter media is made up of reinforced non woven cotton fibres manufactured for high dust holding capacity. It is treated with a fire retardant additive for safety purposes. The filter media is bonded to an expanded metal mesh support grid. The grid has a 98% open face area. The media and grid design is bonded to the enclosure frame to prevent air bypass. This filter provides uniform pleat configuration for maximum performance.



**Construction**



**Principle of Filtration**