



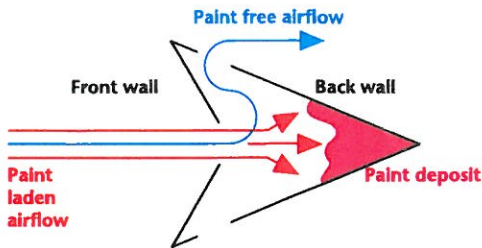
FILTERS

PRINCIPLE AND TECHNOLOGY OF THE "ANDREAEFILTERS" filter

OPERATION

Straining is not exclusively the interception of particles in an air stream with a succession of wider to smaller meshed apertures.

The "ANDREAEFILTERS" filters use another principle : INERTIA SEPARATION.



The paint laden air flow (overspray) suffers several radical changes in direction. The paint particles, heavier than air, are ejected out of the air stream.

ADVANTAGES

1. NO MIGRATION

When the paint particle is deposited in the holding pocket it remains in a dead end, away from the air stream, and cannot migrate.

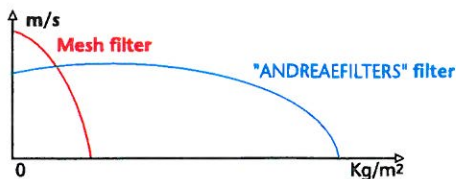
► BETTER FILTRATION EFFICIENCY

2. HIGH LOADING CAPACITY

During the life of the "ANDREAEFILTERS" filter, static pressure remains constant although the filter is loading up with paint. The "ANDREAEFILTERS" filters will only clog when totally loaded. As opposed to the "ANDREAEFILTERS" filters, a mesh filter will quickly face load and clog.

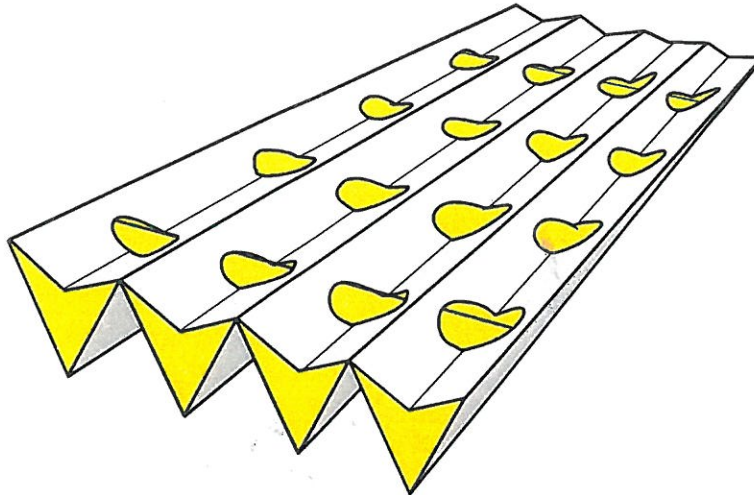
► EXTENDED FILTER LIFE SPAN

3. STABILITY OF THE AIR FLOW



This graphic compares the air flow velocity and the filter loading at a constant fan power. The "ANDREAEFILTERS" filter has a longer and flatter curve than the mesh filter. This demonstrates the holding capacity and the more stable resistance to air flow during the life of the filter.

► MORE EVEN BOOTH OPERATING CONDITIONS






Sketch of the STD "ANDREAEFILTERS" filter

2 layers of heavy "kraft" paper, punched, pleated and glued together.

Technical data

Recommended air velocity	0,5 m/s to 1 m/s
Pressure drop at	0,5 m/s 13 PA 0,75 m/s 30 PA 1 m/s 56 PA
Maximum recommended pressure drop	130 PA (possible up to 250 PA)
Loading capacity at 0,75 m/s and 130 PA	until 18 Kg/m ²
Filtration efficiency at 0.75 m/s (modified ASHRAE test)	91% to 98,1%

Height - Area	75cm - 10m ²	90cm - 8,35m ^{2*}	90cm - 10m ²	100cm - 10m ²
BROWN 	AF711	AF811	AF911	AF111
WHITE 	AF713	AF813	AF913	AF113
FLAME RETARDANT** 	AF712	AF812	AF912	AF112
Packaging	bundle of 2 filters	bundle of 2 filters	bundle of 2 filters	bundle of 2 filters
Number of filters per pallet	60	60	60	60

* 8,35m² = 10 sqyd

**Certified product to the DIN4102-1/B2 norm