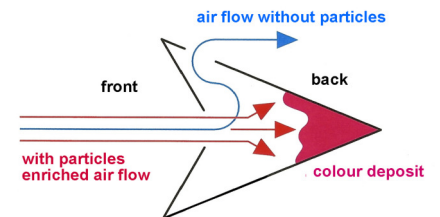


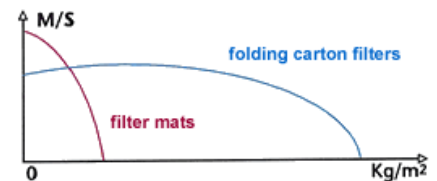
ANDREAЕ FILTERS

FUNCTION OF THE ANDREAЕ FILTERS

Filtering is not necessary only separation of mobile colour particles by an air flow with the help of one row from ever more finely becoming mesh seven. The ANDREAЕ FILTER functions after another principle: CENTRIFUGAL FORCE SEPARATION



During the passage by the filter the air flow enriched with colour particles is exposed to several times extreme changes of direction. The particles become, depending upon their mass, from the air flow discharged.



ADVANTAGES OF THE CENTRIFUGAL FORCE SEPARATION

1. No migration

As soon as the colour particles in the settling chamber settled, they are in a "dead end" outside of the air flow. This air flow can drag it along from there neither nor to "migration" move by the filter.

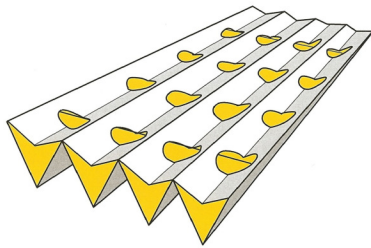
2. High colour storage capability

The settling chambers permit to the Andraea filter a 3 to 5 times larger filter capacity than a fleece filter. The way for the air flow remains freely although the filter with particles fills. With the fleece filter however usually develops a colour deposit at the surface, which clogs the filter fast. The filter limited into the depth not to enrich and thereby the filter storage capability.

The Andraea filter is however only then clogged if the settling chambers are completely determined with colour.

- LONGER LIFE SPAN
- LOWER COSTS
- BETTER QUALITY

ANDREAE FILTERS

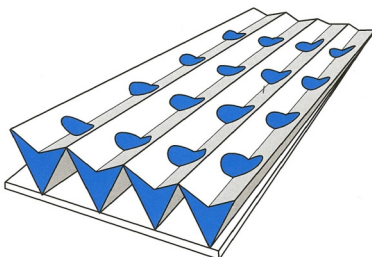
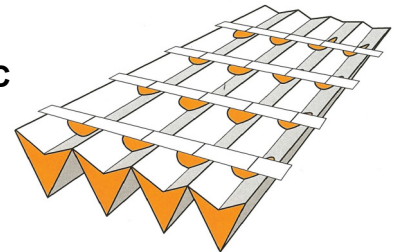


Drawing of the filter „ANDREAEFILTERS“ The Original

2 layers of punched, folded and adhesive cardboard
“strength”, with excerpt limiter.

Drawing of the filter „ANDREAEFILTERS“ HC

Improvement of the storage capability thanks
of the caused paper volumes.

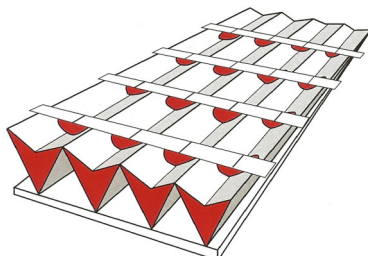
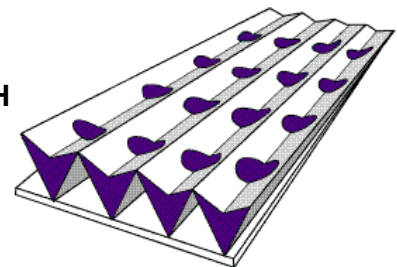


Drawing of the filter „ANDREAEFILTERS“ HE

Improvement of the degree of separation thanks of a
caused layer polyester.

Drawing of the filter „ANDREAEFILTERS“ HH

Improvement of the degree of separation
thanks of a layer glass fiber mats.

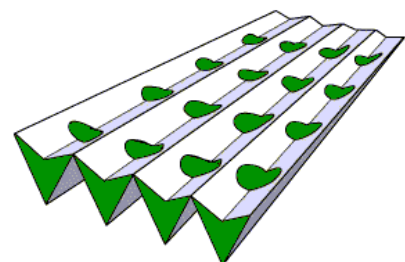


Drawing of the filter „ANDREAEFILTERS“ HP

Combination of the achievements HC and HE.

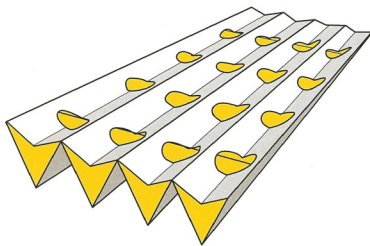
Drawing of the filter „ECOFILTERS“

2 layers of punched, folded and adhesiv
“strength”, with excerpt limiter.





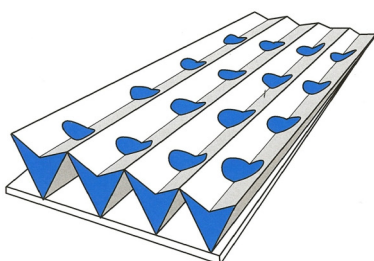
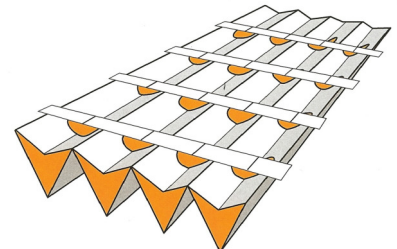
ANDREAE FILTERS



„ANDREAEFILTERS“ The Original				
Hight Effective part	75 cm 10 m ²	90 cm 8,35 m ² *	90 cm 10 m ²	100 cm 10 m ²
brown	AF711	AF811	AF911	AF111
white	AF713	AF813	AF913	AF113
flame retarding	AF712	AF812	AF912	AF112
Number of filters / pallet	60	60	60	60

* 8,35 m² = 10 sqyd

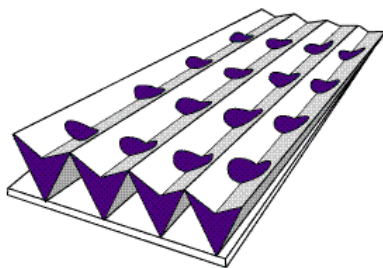
„ANDREAEFILTERS“ HC			
Hight Effective part	75 cm 10 m ²	90 cm 10 m ²	100 cm 10 m ²
brown	AF731	AF931	AF131
white	AF733	AF933	AF133
flame retarding	AF732	AF932	AF132
Number of filters / pallet	60	60	60



„ANDREAEFILTERS“ HE			
Hight Effective part	75 cm 8 m ²	90 cm 8 m ²	100 cm 8 m ²
brown	AF721	AF921	AF121
white	AF723	AF923	AF123
flame retarding	AF722	AF922	AF122
Number of filters / pallet	60	60	60

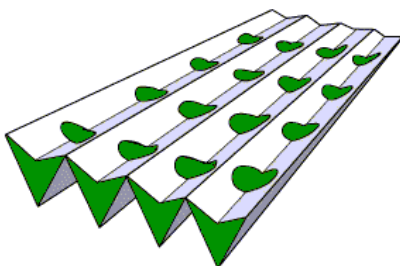
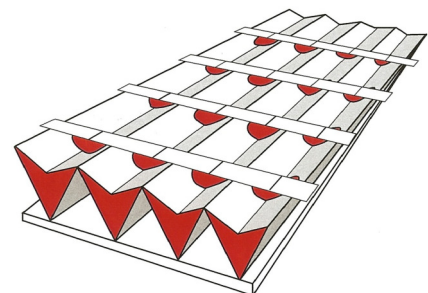


ANDREA E FILTERS



„ANDREA E FILTERS“ HH			
Hight Effective part	75 cm 8 m ²	90 cm 8 m ²	100 cm 8 m ²
brown	AF751	AF951	AF151
white	AF753	AF953	AF153
Number of filters / pallet	52	52	52

„ANDREA E FILTERS“ HP			
Hight Effective part	75 cm 8 m ²	90 cm 8 m ²	100 cm 8 m ²
brown	AF741	AF941	AF141
white	AF743	AF943	AF143
flame retarding	AF742	AF942	AF142
Number of filters / pallet	60	60	60

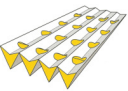
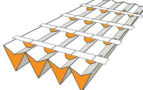
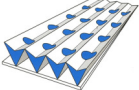
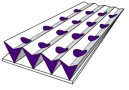
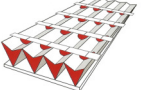
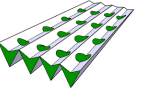


„ECOFILTERS“				
Hight Effective part	75 cm 10 m ²	90 cm 8,35 m ² *	90 cm 10 m ²	100 cm 10 m ²
brown	EF711	EF811	EF911	EF111
white	EF713	EF813	EF913	EF113
Number of filters / pallet	60	60	60	60

* 8,35 m² = 10 sqyd



ANDREA FILTERS

	<u>The Original</u>	<u>HC</u>	<u>HE</u>	<u>HH</u>	<u>HP</u>	<u>ECO</u>
						
Storage capability up to	18 kg/m ² **	28 kg/m ² **	20 kg/m ² **	22 kg/m ² **	29 kg/m ² **	18 kg/m ² **
Degree of separation up to	98,1% **	98,3% **	99,21% **	99% **	99,3% **	98,1% **
Recommended air flow speed	0,25 to 1 m/s					
Difference of pressure						
0,25 m/s	8 pa	8 pa	8 pa	8 pa	8 pa	8 pa
0,5 m/s	20 pa	21 pa	21 pa	20 pa	21 pa	20 pa
0,75 m/s	30 pa	32 pa	32 pa	30 pa	32 pa	30 pa
1 m/s	40 pa	42 pa	42 pa	40 pa	42 pa	40 pa
Max. recommended final difference of pressure	128 pa (possible to 256 pa)					

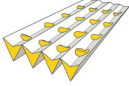
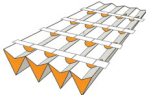
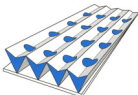
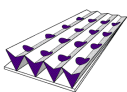
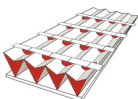
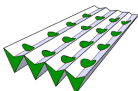
** in accordance with the applied colour





ANDREA E FILTERS

Efficiency comparison

Paint type Filter	Laquer	High Solid	Polyester Bi Component
The Original 	Storage capability 10 kg/m² Degree of separation 90%	Storage capability 15 kg/m² Degree of separation 97%	Storage capability 18 kg/m² Degree of separation 98,5%
HC 	Storage capability 13 kg/m² Degree of separation 91%	Storage capability 20 kg/m² Degree of separation 97,5%	Storage capability 28 kg/m² Degree of separation 98,8%
HE 	Storage capability 9 kg/m² Degree of separation 97%	Storage capability 15 kg/m² Degree of separation 98,5%	Storage capability 20 kg/m² Degree of separation 99,2%
HH 	Storage capability 11 kg/m² Degree of separation 95%	Storage capability 17 kg/m² Degree of separation 98%	Storage capability 22 kg/m² Degree of separation 99%
HP 	Storage capability 16 kg/m² Degree of separation 97,2%	Storage capability 21 kg/m² Degree of separation 98,6%	Storage capability 29 kg/m² Degree of separation 99,3%
ECO 	Storage capability 10 kg/m² Degree of separation 90%	Storage capability 15 kg/m² Degree of separation 97%	Storage capability 18 kg/m² Degree of separation 98,5%

These achievements are indicated only as comparison, they can change in accordance with the use conditions and the paint type.