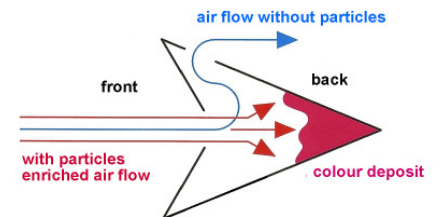


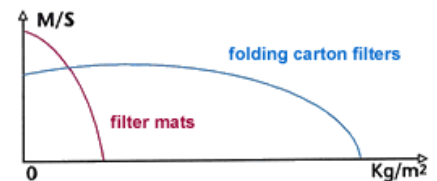
# ANDREAE FILTERS

## FUNCTION OF THE ANDREAE 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 ANDREAE 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.

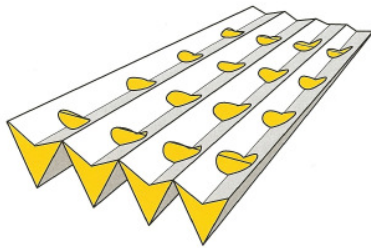
### 2. High colour storage capability

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

- LONGER LIFE SPAN
- LOWER COSTS
- BETTER QUALITY

# ANDREAE FILTERS

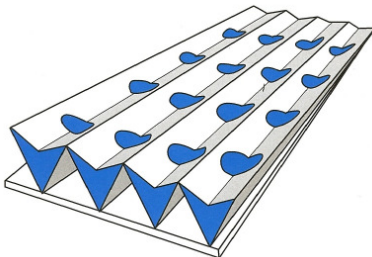
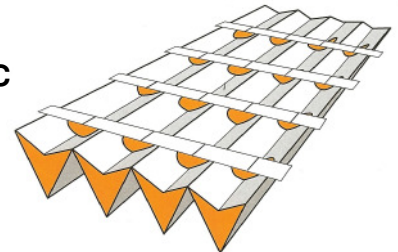


Drawing of the filter „ANDREAEFILTERS“ STD

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.

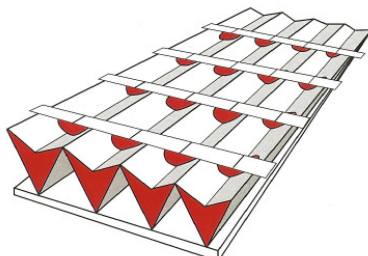
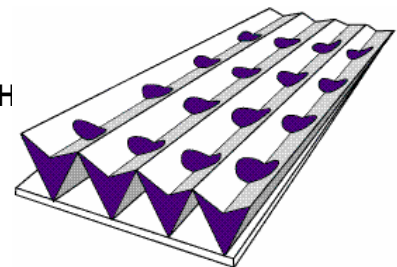


Drawing of the filter „ANDREAEFILTERS“ HE

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.

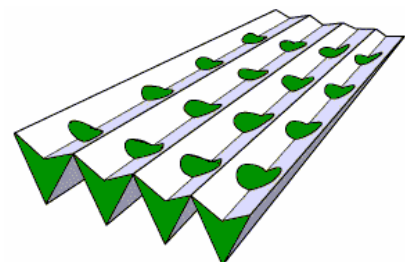


Drawing of the filter „ANDREAEFILTERS“ HP

Combination of the achievements HC and HE.

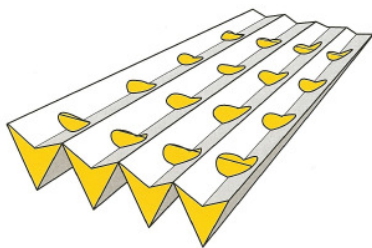
Drawing of the filter „ECOFILTERS“

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





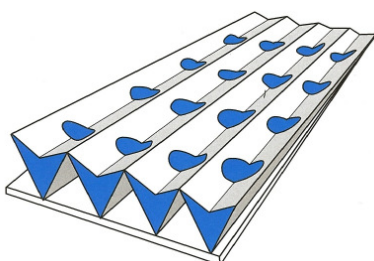
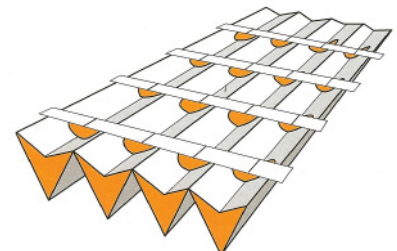
# ANDREAE FILTERS



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

\* 8,35 m<sup>2</sup> = 10 sqyd

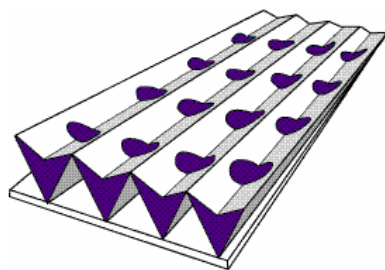
„ANDREAEFILTERS“ HC			
<b>Hight Effective part</b>	75 cm 8 m <sup>2</sup>	90 cm 8 m <sup>2</sup>	100 cm 8 m <sup>2</sup>
<b>brown</b>	AF731	AF931	AF131
<b>white</b>	AF733	AF933	AF133
<b>flame retarding</b>	AF732	AF932	AF132
<b>Number of filters / pallet</b>	60	60	60



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

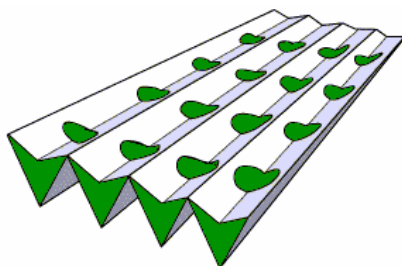
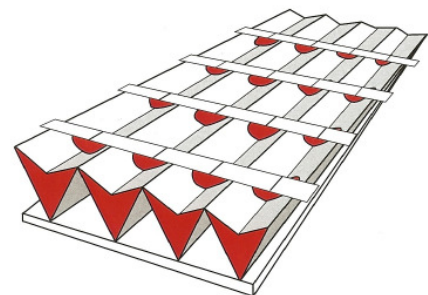


# ANDREA E FILTERS



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

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

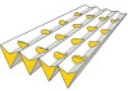
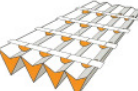
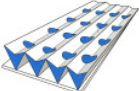
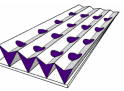
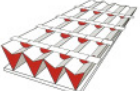
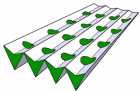


„ECOFILTERS“				
<b>Hight Effective part</b>	75 cm 10 m <sup>2</sup>	90 cm 8,35 m <sup>2</sup> *	90 cm 10 m <sup>2</sup>	100 cm 10 m <sup>2</sup>
<b>brown</b>	EF711	EF811	EF911	EF111
<b>white</b>	EF713	EF813	EF913	EF113
<b>Number of filters / pallet</b>	60	60	60	60

\* 8,35 m<sup>2</sup> = 10 sqyd



# ANDREA E FILTERS

	<b>STD</b>	<b>HC</b>	<b>HE</b>	<b>HH</b>	<b>HP</b>	<b>ECO</b>
						
<b>Storage capability up to</b>	18 kg/m <sup>2</sup> **	28 kg/m <sup>2</sup> **	20 kg/m <sup>2</sup> **	22 kg/m <sup>2</sup> **	29 kg/m <sup>2</sup> **	18 kg/m <sup>2</sup> **
<b>Degree of separation up to</b>	98,1% **	98,3% **	99,21% **	99% **	99,3% **	98,1% **
<b>Recommended air flow speed</b>	0,25 to 1 m/s					
<b>Difference of pressure</b>						
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
<b>Max. recommended final difference of pressure</b>	128 pa (possible to 256 pa)					

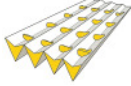
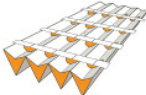
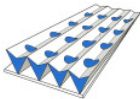
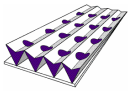
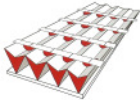
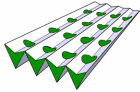
\*\* in accordance with the applied colour





# ANDREA E FILTERS

## Efficiency comparison

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

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