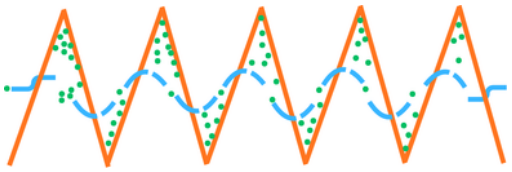
Technical Specifications

Operating Principle

The Accordion is designed to capture airborne liquid particulates and air dried fines through impaction by inertial separation and secondary straining.

Intertial Separation



Airflow is diverted through a series of directional changes within the baffle. The concave front wall directs airflow into the baffle. The inertia of particulates in the air stream cause impaction on the back wall. The air stream changes direction and exits leaving behind up to two inches of overspray in the accordion pocket.

Secondary Straining

The addition of polyester backing captures fine particulates that remain in the air stream upon exiting the baffle. The secondary stage increases arrestance efficiency and holding capacity.

Airflow Remains Uniform

Constant airflow improves the spray booth environment. Surface loading filters, such as fibrous media, fill directly behind the point of spray causing uneven loading. As airflow is impeded, particles hang in the air causing fog building bounce-back. The Accordion collects particles outside of the air stream in 2.25” deep pockets, eliminating face-loading, bounce-back and particle migration.

Efficiency	Holding Capacity	Surface Area	Pressure Drop
98.3%	2.39 lbs/sf 11.67 kg/m² (6 lbs/20 in. pad)	4.74 sf per 1 sf of baffle	0.05 inch wc @ 100 fpm 0.12 inch wc @ 150 fpm 0.22 inch wc @ 200 fpm
99.4%	2.44 lbs/sf 11.94 kg/m² (6.5 lbs/20 in. pad)	5.74 sf per 1 sf of baffle	0.10 inch wc @ 100 fpm 0.15 inch wc @ 150 fpm 0.25 inch wc @ 200 fpm

- Composition: 42 lb High Performance Liner Board, glued, with or without polyester backing
- Max Pressure Drop: 0.5 to >1 in wc (128 to > 256 pa), subject to fan motor capability
- Air Velocity: 49-197 fpm (0.25-1.00 m/s), subject to spray operation
- Meets NESHAP 6H and NFPA 33 Compliance

Accordion Standards: Best used with tacky, slow-dry coatings such as high solid enamels, epoxies, asphalts, varnish.
Accordion Poly-Backs: Best used with flash dry coatings such as enamels, primers, urethanes.

PAINT ARRESTANCE FILTER TEST REPORT

Spray Removal Efficiency and Paint Holding Capacity

BASED ON 40 CFR PART 63 NATIONAL EMISSION STANDARD

Filter Tested

Manufacturer:	AFX Manufacturing
Product Name:	AFX Standard Filter
Model No.	STD Series

Test Information

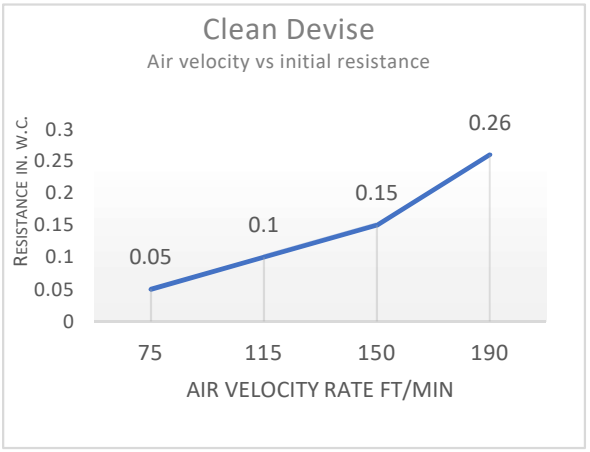
Filter Description:	20"x 20" Paper Accordion
Paint Description:	High Solids Baking Enamel SW Permaclad 2400, Grey
Spray Method:	Conventional Air at 40 PSI
Feed Rate:	140 g/min
Air Velocity:	150 FPM

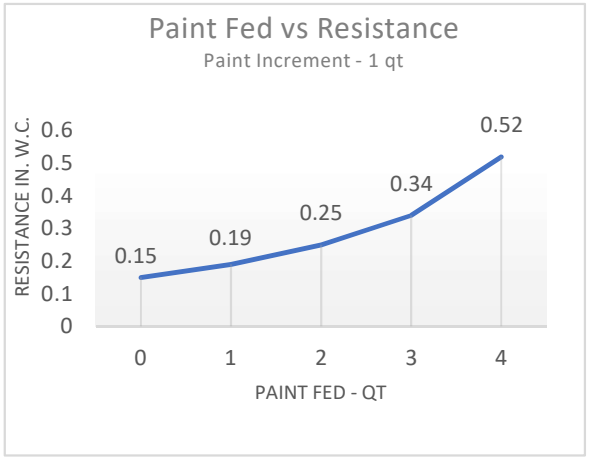
Test Results:

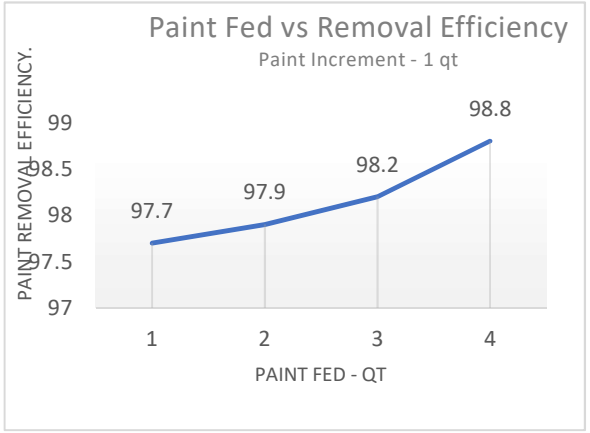
Initial Pressure Drop	0.14	in. w.c.
Final Pressure Drop	0.52	in. w.c.
Weight Gain - Tested Filter	3010.1	g
Weight Gain - Final Filter	53.55	g
Total Weight - Paint Fed	3063.65	g
Average Efficiency	98.3	%
Paint Holding Capacity	3010	g

Test Engineer: Carl S. Richerson

Report Date: 3/14/2017







PAINT ARRESTANCE FILTER TEST REPORT

Spray Removal Efficiency and Paint Holding Capacity

BASED ON 40 CFR PART 63 NATIONAL EMISSION STANDARD

Filter Tested

Manufacturer:	AFX Manufacturing
Product Name:	AFX Poly-Back Filter
Model No.	POLY Series

Test Information

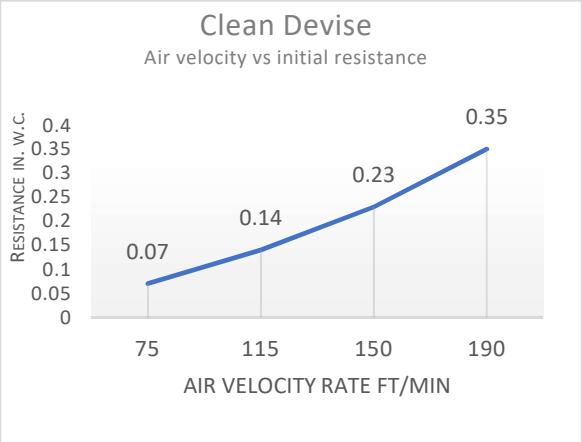
Filter Description:	20"x 20" Paper Accordion With Polyester Backing
Paint Description:	High Solids Baking Enamel SW Permaclad 2400, Grey
Spray Method:	Conventional Air at 40 PSI
Feed Rate:	140 g/min
Air Velocity:	150 FPM

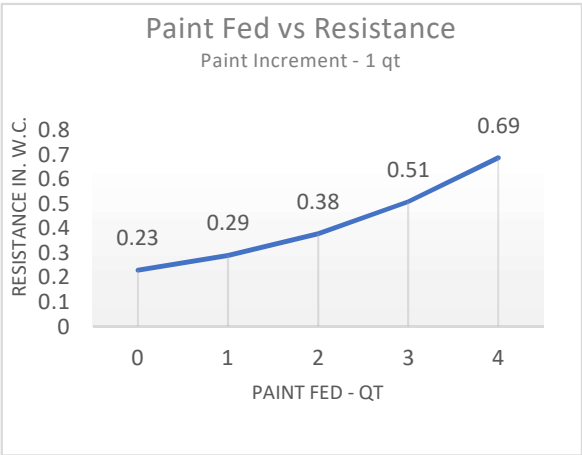
Test Results:

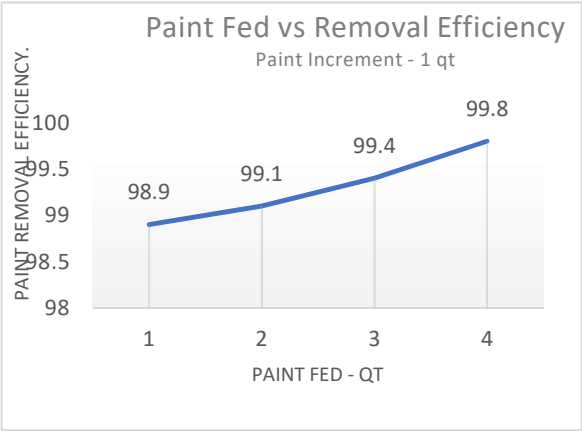
Initial Pressure Drop	0.23	in. w.c.
Final Pressure Drop	0.69	in. w.c.
Weight Gain - Tested Filter	3055.1	g
Weight Gain - Final Filter	19.71	g
Total Weight - Paint Fed	3074.81	g
Average Efficiency	99.4	%
Paint Holding Capacity	3055	g

Test Engineer: Carl S. Richerson

Report Date: 3/15/2017







How to Cut Baffle to Length

MEASURE • CUT • INSTALL

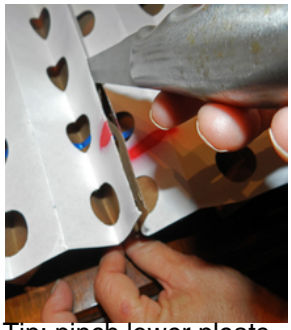
Measure length of exhaust opening (inside channel).



Count 1 red mark/foot of exhaust bank length.



Slide sharp knife under up-pleat.



Tip: pinch lower pleats behind knife blade to start cut.

Point knife tip down; slide knife along fold.



Tip: pinch top pleats behind knife to create tension.



Gather pleats together and insert into frame.

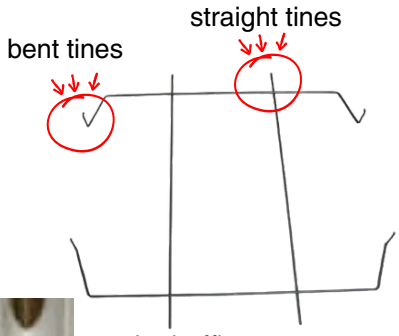


Tuck end pleats behind end clips.

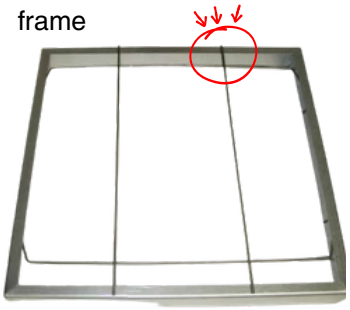
*Optimal extension: 8 pleats per foot (26 pleats/m)

Tip: When cutting polyester, use a WD40 rag to wipe the knife blade on. Your knife will glide through the poly with ease.

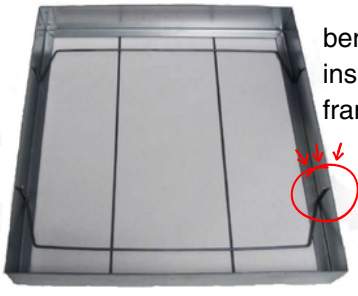
How to Install Supports

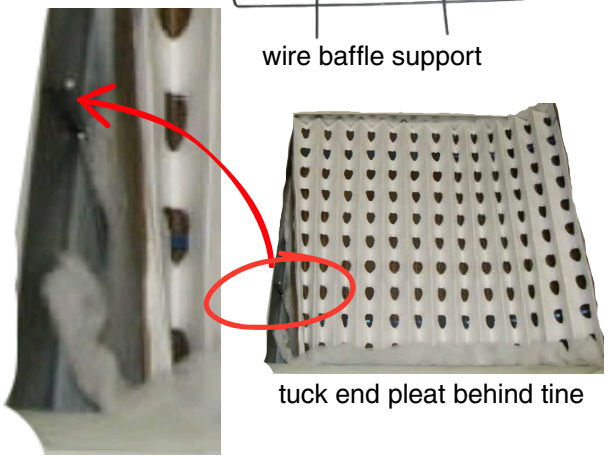


wire baffle support

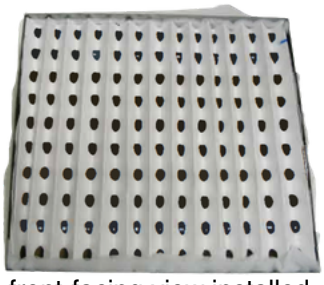


Tip: flex/bend bent tines for snug fit





tuck end pleat behind tine



front-facing view installed



back-facing view installed