Flanders®
FOREMOST IN AIR FILTRATION

Pre Pleat M13
LEED® Compliant
MERV 13 Pleated Filter

PB713-0209

General

Pre Pleat M13 pleated panel filters can be an ideal choice to achieve the minimum efficiency requirements of LEED® Green Building design. The low initial resistance of the M13 can also contribute to an overall strategy of reducing energy consumption. Its two-inch depth makes MERV 13 upgrades as trouble-free as a direct replacement for most commercial and industrial applications.

Flanders unique media combined with superior V-Pleat manufacturing design results in the highest performing pleat available on the market today. The Pre Pleat M13 provides an initial efficiency of MERV 13 per ASHRAE 52.2-2007 (80-85%) at a resistance of only .20" w.g. when operating at approach velocity of 375 FPM - only 0.30 at 500 FPM. These resistances are well within the operating range of standard MERV 6 - 8 pleated filters!
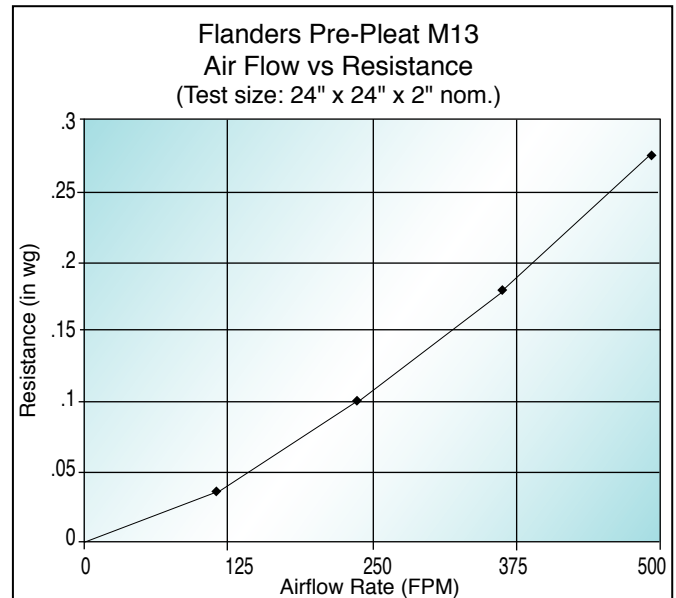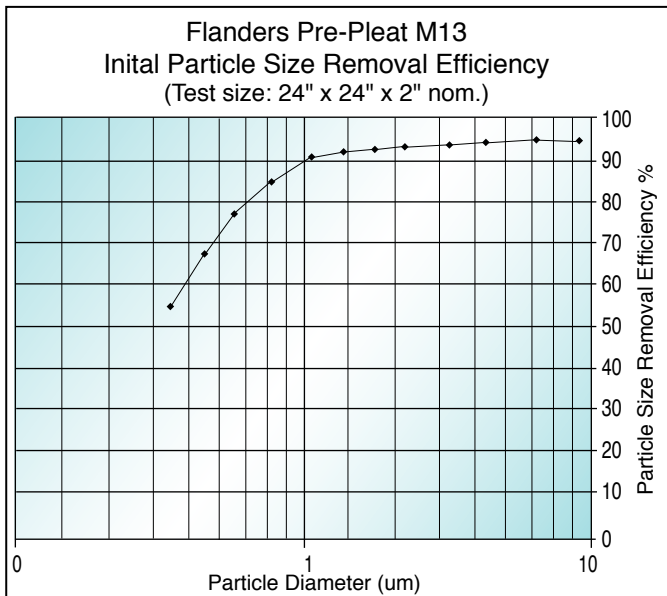
Physical Data

Media: 100% non-woven synthetic media manufactured from recyclable material.

Airflow Resistance: .30" w.g. @ 500 FPM.

Media Support: Diamond-shaped expanded metal maintains maximum support while avoiding air by-pass.

Pleat Design: V-Pleat design minimizes resistance while keeping consistent pleat count, height and shape.

Frame: Moisture-resistant recyclable clay coated frame durable for any commercial and industrial application.

Flanders Pre-Pleat M13
Inital Particle Size Removal Efficiency
(Test size: 24" x 24" x 2" nom.)

Flanders Pre-Pleat M13
Air Flow vs Resistance
(Test size: 24" x 24" x 2" nom.)

Features

• Meets LEED® Green Building criteria for minimum efficiency

• Can contribute to LEED® Point accumulation for Energy and Atmosphere, Material & Resources, and Indoor Environmental Quality

• Meets efficiency standards outlined in LEED® Programs for both Existing Buildings and New Construction

Flanders Corporation ~ Foremost in Air Filtration
Toll Free: 1-800-637-2803

Capacities and Dimensions

Nominal Depth (in.)	Pleat Count	Nominal Size W x H x D (in.)	Standard Capacity 500 FPM		Media Area sq. ft.	Wt. Each (lbs)
			cfm	PD		
2	13	10x20x2	694	0.30	6.1	0.6
	15	12x20x2	833	0.30	7.3	0.7
	15	12x24x2	1000	0.30	8.8	0.8
	18	14x20x2	972	0.30	8.5	0.8
	18	14x25x2	1215	0.30	10.6	1.0
	19	15x20x2	1042	0.30	9.1	0.8
	20	16x20x2	1110	0.30	9.7	0.9
	20	16x24x2	1335	0.30	11.2	1.0
	20	16x25x2	1390	0.30	12.2	1.1
	23	18x20x2	1250	0.30	10.9	1.2
	23	18x24x2	1500	0.30	13.1	1.3
	23	18x25x2	1563	0.30	13.7	1.1
	25	20x20x2	1390	0.30	12.2	1.3
	25	20x24x2	1667	0.30	14.6	1.3
	25	20x25x2	1735	0.30	15.2	1.5
	30	24x24x2	2000	0.30	17.5	1.6
	31	25x25x2	2170	0.30	19.0	1.6

Notes:
1. PD represents clean pressure drop in inches w.g. The recommended final pressure drop for all models is 1.0 in. w.g. System design may dictate a lower change-out point.
2. Actual filter face size for 12 x 24 and 24 x 24 filters is 5/8 in. under on height and width. Actual face size on all other sizes is 1/2 in. under on height and width.
3. Actual filter depth is 1/4 in. under for these nominal 2 in. deep filters.
4. For capacities other than those shown, ratio the face velocities.
5. Performance tolerances conform to Section 7.4 of ARI Standard 850.
6. Performance values shown in this publication may be averages or estimates intended to generally represent product styles.
7. Always contact factory for latest actual test data on specific Flanders models.

Guide Specifications

1.0 General

1.1 Air filters shall be Model Pre Pleat M13 panel filters, as manufactured by Flanders.

2.0 Filter Construction

2.1 Each filter shall consist of synthetic only media, with corrosion-resistant expanded metal backing and moisture resistant enclosing frame. The filter shall be 2" nominal depth. The grid shall be 100% bonded to the media on the air exiting side to eliminate media vibration and pull-away.

2.2 The grid shall be formed to provide a uniform V-wedge shaped pleat with the open area on the air exiting side for maximum utilization of the media and low airflow resistance. The filter shall be classified for flammability by Underwriters Laboratories, Standard 900 as Class 2.

3.0 Performance

3.1 The filter shall have a Minimum Efficiency Reporting Value of 13 by ASHRAE Standard 52.2

Flanders®

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