

Technical Specification – Flue at Silk Bar 1 Parrock Street Gravesend

We would firstly point out that whilst the site is still owned by the original applicant , it is now under new management who want to ensure that the flue extraction system meets the councils full requirements.

It is understood that the Council has no objection in principle to the flue subject to it being painted white.

The following specification will be provided and the existing system upgraded as necessary:

Canopy

Within the kitchen it is proposed that one wall type canopy (extract only) with full length extract plenums fitted with stainless steel baffle type grease filters will be provided. The canopy is to be constructed from grade 304 satin finish stainless steel with all joints and seams welded and/or liquid tight. Removable stainless steel grease collecting drawers are to be provided within the apron of the filter housing. The canopy is to be fitted with welded hanging cleats to each corner and pre-drilled to accept M10 drop rods. The anticipated total ventilation rates will be as follows: • Extract – $0.48\text{m}^3/\text{s} = 1728\text{m}^3/\text{h}$

The canopy is to conform fully to the standards and specifications of HVCA Specification for Kitchen Ventilation Systems DW172. The grease filters are to comply with the requirements of LPS 1263. Extract System. It is proposed that the kitchen will be served by a single acoustic box extract fan- as originally submitted. It is proposed that a roof cowl will be provided to discharge the exhaust air at least 1m above the eaves level. The extract fan will be mounted externally on the roof and sitting on rubber anti vibration mounts along with all odour control equipment. The extraction system has been designed to suit the cooking equipment located beneath the canopy.

Ductwork

All the duct work has been manufactured from stainless steel, and will be painted white as requested by the Conservation Officer. Where it sits on the flat roof it is mounted on anti-vibration pads and where attached to the external fabric of the building it will be suspended from AV mounts as shown below:



Stage Odour control Stage 1

Pleated panel filter as specified below. There will be 1no 24 x 24 x 2

Product Data Sheet

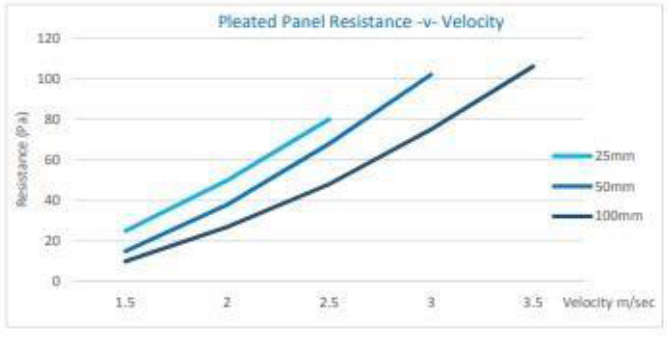


FP Pleated G4 Panel Filter



- Pre-filtration with low air resistance yet maximum protection
- Available in a vast range of sizes
- Bespoke sizes readily available
- Long life and robust construction
- Fully incinerable for easy disposal
- Economical
- Made in Britain

Filter Reference	Nominal size (mm)	Rated Velocity (m/sec)	Efficiency rating (EN779)	Initial resistance at rated Velocity (pa)	Rated final resistance (pa)	Maximum Humidity	Maximum temp °C
FP-PL1	25	1.5	G3	25	250	80% RH	80
FP-PL2	50	2.0	G4	38	250	80% RH	80
FP-PL4	100	3.2	G4	78	250	80% RH	80



Please note: In their continuous search for product improvement Westbury Filtration reserve the right to change materials and specifications without prior notice.

Head Office & Works:
Westbury Filtration Ltd
Unit 1 Sandringham Court
Network 65 Business Park
Bumley BR11 5TD, United Kingdom
T: +44 (0) 1282 459744 F: +44 (0) 1282 459521
E: sales@westburyfiltration.com
W: www.westburyfiltration.com

Southern Sales Office:
Westbury Filtration Ltd
Holl Farm Estate, Gadbrook Road
Belchworth
Surrey RH3 7AH United Kingdom
T: +44 (0) 1306 611611 F: +44 (0) 1306 611613



**westbury
filtration**
Established 1969
Air Filter's Fan Belts Engineering

FPPL000100CE

FP Pleated G4 Panel Filter					
Nominal Imperial Dimensions (inches)	Actual Metric Dimensions (mm)			Capacity (m ³ /hr)	Initial Resistance (Pa)
	W	H	D		
24x24x2	596	596	47	2,558	38

Stage 2

CP4 Fire rated bag filters 1no 600x600x295



G4

CP4 Synthetic Bag Filter Fire Rated BS5588 Part 9 (CP413)

GENERAL DESCRIPTION

The CP4 is a general use bag filter, suitable for fresh air intakes and heavy loading situations. Manufactured from a deep loft graduated density filter media this provides exceptional dirt loading and long life in even the most testing situations. This bag filters is ideal as a grease eliminator in extraction systems off commercial kitchens, bakerys, restaurants and food preparation areas.

Construction

This product is made by mounting a series of filter pockets on a metal slide channel header frame.

Features

- Rolled safety edge to prevent the material being cut and to prevent injury to the engineers who handle them
- Stiffened filter media to give stability in all airflows, even VAV systems
- anti-microbial
- Fire retardant certified to BS5588 Part 9 (CP413)
- The media has a Graduated Density for even dirt loading, which gives greater dust holding and longer filter life.
- Has a low pressure drop



Filter Efficiency to BS EN 779		G4
Rating to ASHRAE 52.2 Test Standard		Merv 9
Pocket Depth	Rated Airflow	Initial Pressure Drop
300mm	1.7m/sec	30Pa
350mm	2.46m/sec	30Pa
600mm	3.3m/sec	50Pa
Final Recommended Pressure Drop		250Pa



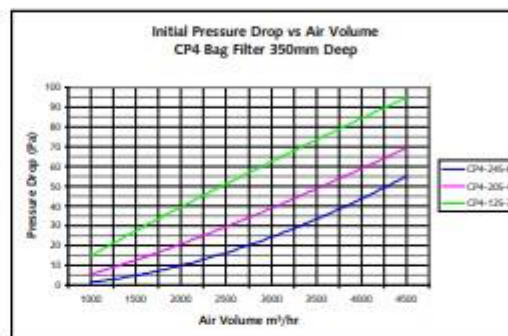
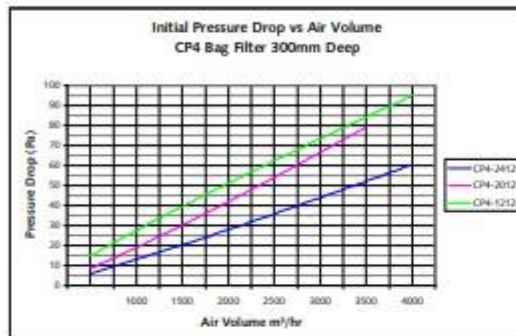
Jasun Filtration Plc
Riverside House, Parrett Way
Bridgwater, Somerset.
TA6 5LB
United Kingdom.

Tel.: +44 (0) 1278 452277
Fax: +44 (0) 1278 450873
info@jfilters.com
<http://www.jfilters.com>

CP4 Synthetic Bag Filter STANDARD SIZES

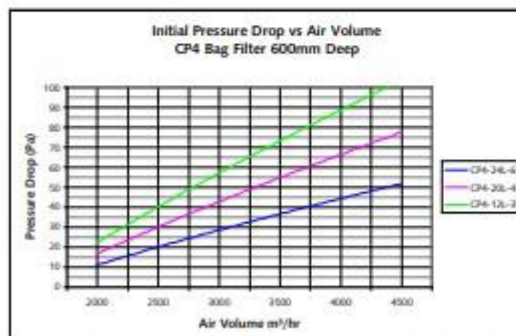
Series 300 - Economy configuration

Part Number	Header Dimensions			Pocket Details		Capacity m ³ /hr
	Height (mm)	Width (mm)	Thickness (mm)	Depth (mm)	No. of Pockets	
CP4-1212	592	287	20	300	2	1000
CP4-2012	592	492	20	300	3	1800
CP4-2412	592	592	20	300	4	2100



Series 350 - Low Initial Pressure Drop Configuration

Part Number	Header Dimensions			Pocket Details		Capacity m ³ /hr
	Height (mm)	Width (mm)	Thickness (mm)	Depth (mm)	No. of Pockets	
CP4-12S-3	592	287	20	350	3	1500
CP4-20S-4	592	492	20	350	4	2500
CP4-24S-6	592	592	20	350	6	3100



Other header thickness available:
12mm, 15mm, 22mm, 25mm, 33mm, 38mm

Other Standard Pocket Depths:
229mm, 500mm, 559mm

ANY other size and pocket configuration
made to specific requirements.

Series 600 - Long Pocket, long Life, High Capacity Configura-

Part Number	Header Dimensions			Pocket Details		Capacity m ³ /hr
	Height (mm)	Width (mm)	Thickness (mm)	Depth (mm)	No. of Pockets	
CP4-12L-3	592	287	20	600	3	2000
CP4-20L-4	592	492	20	600	4	3460
CP4-24L-6	592	592	20	600	6	4200

Stage 3

Activated carbon site safe 24x24x12 2no

Site-safe 24x24x12	594x594x297	594x198x297	3	8.4	9.70	633	1900
--------------------	-------------	-------------	---	-----	------	-----	------

$$0.48 \times 60 \times 60 = 1728\text{m}^3/\text{hr}$$

$$\text{Dwell time in the carbons} = 1900 \times 2 = 3800\text{m}^3\text{hr @}0.1\text{s dwell time}$$

$$\text{Actual dwell time} = 3800/1728 = 0.22\text{s}$$

The specified fan is calculated by taking all pressures created by all components as follows;

Clean system

Dirty system

Canopy and baffles 60 Pa

Canopy and baffles 90 Pa

Duct work over the system length including bends 40Pa

Duct work over the system length including bends 50 Pa

Pleated panel filter 38 Pa

Pleated panel filter 60 Pa

Bag Filter 30 Pa

Activated carbon 120 Pa

Bag Filter 50 Pa

Activated carbon 150 Pa

Maintenance

The maintenance of the system will be monitored on a monthly basis to determine the frequency of the maintenance. Likely frequency will be as follows.

Pleated panel filters 3 monthly

Bag filters every 6 months

Carbon filters every 12 months

Any further information please call Colin Smith 07808599883