

Metal Framed Pleated Panel Air Filter **G4 to EN779:2012**

Applications

The **Metal Framed Pleated Panel Air Filter** is a medium efficiency disposable air filter. This filter has the same characteristics as the cardboard framed version of the filter, making it suitable for ventilation and air conditioning systems which require a higher efficiency and greater dust holding capacity than can be achieved with glass or synthetic panels.

This filter is constructed in a fully galvanized steel frame, removing all cardboard elements, making the filter remain rigid and strong in high humidity's, and where supply air may be carrying moisture or droplets from rain.

The removal of the cardboard frame also makes this filter fully non-combustible.

The **Metal Framed G4 Pleated Panel Air Filter** can be used where glass panels are undesirable, such as in the food industry and hospitals.

Typically Metal Framed **G4 Pleated Panel Air Filters** are used as pre-filters on supply air systems to High Performance Bag Filters, or to protect heating or cooling coils from dust build up which leads to system inefficiency. Another common place to see a **Metal Framed G4 Pleated Panel Air Filter** is to protect fans in extract systems for office blocks or kitchen extract systems.

Description

Metal Framed Pleated Panel Filters consist of a dry non-woven fabric media which is pleated to give an extended surface area, producing a low initial resistance for the same air volume, making this an energy efficient filter. The pleat is supported by an expanded galvanised steel mesh.

The pleated air filter media is contained within a fully galvanised steel frame and supporting mesh. The filter media is sealed into the frame with hot melt adhesive to ensure the highest rigidity and quality.

Technical

The pleated air filter media is Flame Retardant to UL Class II

Max Operating Temp 80 Deg C

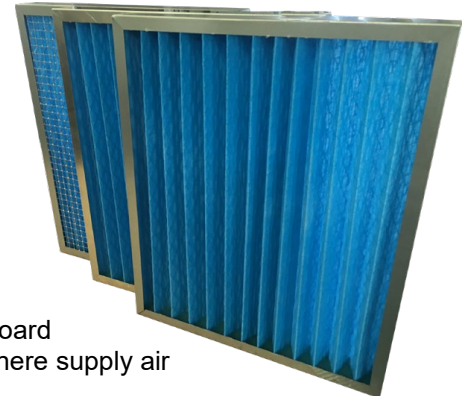
Dust Holding Capacity for 50mm Filter = 840 g/m²

Dust Holding Capacity for 100mm Filter = 1260 g/m²

Nominal to Actual Size: less 6mm on H & W, 3mm on Depth

Rated Airflows based on Face Velocities : 22mm = 2.0m/s, 47mm = 2.5m/s, 97mm = 3.0m/s

Clean Pressure Drops at Rated Airflows : 22mm = 75Pa, 47mm = 75Pa, 97mm = 75Pa



METAL FRAMED PLEATED PANEL FILTER STANDARD SIZES

Size		Flow Rate			Part Numbers		
OT Inches	Actual mm	22mm m ³ /s	47mm m ³ /s	97mm m ³ /s	1" (22mm)	2"(47mm)	4"(97mm)
10 x 10	242 x 242	0.12	0.15	0.18	1135101	1135201	1135401
12 x 12	289 x 289	0.17	0.21	0.25	1135102	1135202	1135402
15 x 15	369 x 369	0.27	0.34	0.41	1135103	1135203	1135403
18 x 18	445 x 445	0.40	0.50	0.59	1135104	1135204	1135404
20 x 10	495 x 242	0.24	0.30	0.36	1135106	1135206	1135406
20 x 16	495 x 394	0.39	0.49	0.59	1135108	1135208	1135408
20 x 20	495 x 495	0.49	0.61	0.74	1135110	1135210	1135410
25 x 16	620 x 394	0.49	0.61	0.73	1135111	1135211	1135411
25 x 20	620 x 495	0.61	0.77	0.92	1135112	1135212	1135412
24 x 12	594 x 289	0.34	0.43	0.51	1135113	1135213	1135413
24 x 20	594 x 495	0.59	0.74	0.88	1135114	1135214	1135414
24 x 24	594 x 594	0.71	0.88	1.06	1135115	1135215	1135415

FOR NON-STANDARD SIZES CONTACT THE SALES TEAM

Notes

- * Actual sized filters will be manufactured as ordered +/- 3mm
- * Rated Airflows based on Face Velocities : 22mm = 2.0m/s, 47mm = 2.5m/s, 97mm = 3.0m/s
- * Clean Pressure Drops at Rated Airflows : 22mm = 75Pa, 47mm = 75Pa, 97mm = 75Pa
- * Max Size: 625Hx900W

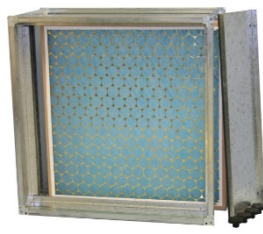
Holding Frames and Cases

Holding frames and casings for Disposable Pleated Panel Filters are available singularly or in multiples, and can be manufactured to suit non-standard sizes and special applications.

See Catalogue Section 8 (code AC8) for full information.



Front Withdrawal Frame (1810)



MEZ Flanged Side Access Housing (1820)



Duct Mounted Filter Housing (1825)



Fully Welded Side Withdrawal Filter Housing (1840)