ALUMINIUM FILTER

Washable Aluminum Mesh Filter · Aluminum Extrusion Frame Series · EN779 / MERV / ISO 16890

FILTLAB® FILTRATION SOLUTIONS



DESIGN FEATURES & ENGINEERING NOTES

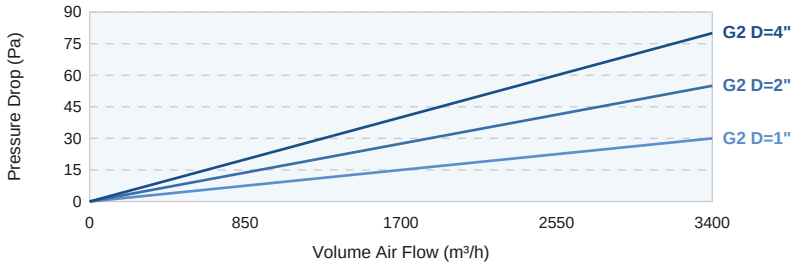
Aluminum Extrusion Frame Robust aluminum extrusion delivers dimensional stability and corrosion resistance for long-term service in demanding industrial environments.	**Aluminum Mesh Filter Media** Multi-layer corrugated aluminum mesh provides effective G2 arrestance with minimal pressure drop across all rated airflow conditions.
Aluminum Steel Support Grid Structural aluminum steel sheet backing maintains media geometry and integrity under high airflow velocities and repeated mechanical handling.	**Washable & Fully Reusable** All-metal construction withstands repeated wash cycles — rinse with water or mild detergent, dry, and reinstall — eliminating disposable filter waste.
High Temperature Rating Rated to 100 °C continuous operation, enabling deployment in engine rooms, hot industrial AHU, and high-temperature process air systems.	**Wide Humidity Tolerance** Rated to 100% RH with zero risk of swelling, delamination or media degradation — fully suited to humid, marine and wash-down environments.

PERFORMANCE MATRIX — EN779 TESTED · MERV / ISO 16890 EQUIVALENT

Nominal Size W×H×D (in)	Actual Dims (mm)	Air Flow (m³/h)	ASHRAE 52.2	Avg Arrestance (%)	EN779	ISO 16890	ΔP Initial (Pa)	ΔP Final (Pa)
12×24×1	287×592×22	1,700	MERV 3	70–75	G2	ISO Coarse	30	250
24×24×1	592×592×22	3,400	MERV 3	70–75	G2	ISO Coarse	30	250
12×24×2	287×592×47	1,700	MERV 3	70–75	G2	ISO Coarse	55	250
24×24×2	592×592×47	3,400	MERV 3	70–75	G2	ISO Coarse	55	250
12×24×4	287×592×96	1,700	MERV 3	70–75	G2	ISO Coarse	80	250
24×24×4	592×592×96	3,400	MERV 3	70–75	G2	ISO Coarse	80	250

Measurement Method: EN779:2012 | MERV & ISO 16890 = equivalent (Eurovent REC 4/23) | Initial Resistance ±10% | Other sizes available upon request

PRESSURE DROP vs. AIRFLOW (592 × 592 mm)



BILL OF MATERIALS & OPERATING CONDITIONS

Frame	Aluminum Extrusion	**Max. Temperature**	100 °C
Filter Media	Aluminum	**Humidity Limit**	100% RH
Support Grid	Aluminum Steel Sheet	**Test Standard**	EN779 (MERV / ISO equiv.)
Washable	Yes	**Applications**	Residential / Commercial / Industrial HVAC

APPLICATION SELECTION GUIDE

EN779 / MERV	ISO 16890	Typical Application	Contaminants Removed	Pre-filter
G2 / MERV 3	ISO Coarse	Residential / Commercial HVAC Industrial ventilation & engine rooms	Coarse dust, lint, fibres, large airborne particles	Stand-alone or upstream pre-filter