

# Longar Industries Filter Efficiency Selection

European Efficiency Class	MERV Rating	Protection Level	Efficiency	Arrestance	Applications & Limitations	Longar® Type
G1, G2	MERV 1 - 4	General Protection to 15 – 20 micron	Less than 20%	60 – 80%	Coarse Prefiltration Residential Minimal Filtration	Type 4 Mesh Filters, Fiberglass Media
G3	MERV 5	General Protection to 5-15 micron. Prefiltration for fine filters.	Less than 20%	80 – 90%	Residential, Simple ventilation units for factories, garages.  Pre-filtration, Air conditioning in offices, schools, Spray booth ventilation	Type 4 Mesh Filters, Type 13 Glass Panel Filters, Type 14 Bag Filters Type 5 Eliminator & PHF
G4	MERV 6 - 8	Protection to 5 micron. Prefiltration for fine filters.	20 – 40%	90 – 95%	Hotels, offices, hospitals, food production, general air conditioning, pre-filtration asbestos removal.	Type 11 Pleated Panel Filters, Type 12 Synthetic Panel Filters, Type 14 Bag Filters
F5	MERV 8 - 10	Protection to 2 micron	40 – 60%	98%	Restaurants, Food shops, Schools, Engineering workshops	Type 14 Bag Filters Type 5 Eliminator & PHF
F6	MERV 10 - 13	Protection to 1 micron	60 – 80%	99%	Laboratories, Offices, Theatres, Computer rooms, Spray booths	Type 11 High Efficiency PPF Type 14 Bag Filters, Type 14 Rigid Bag Filters
F7	MERV 13 – 14	Protection to 1 micron	80 – 90%	99%	Offices, hospitals, public buildings, retail outlets. Pharmaceutical, mechanical and food industries	Type 11 High Efficiency PPF Type 14 Bag Filters, Type 14 Rigid Bag Filters
F8, F9	MERV 14 – 15	Protection to <1 micron	90 – 95%	99%	Clean rooms, Pharmaceutical, Animal Health, Laboratories	Type 11 High Efficiency PPF Type 14 Bag Filters Type 14 Rigid Bag Filters
H10 – H12	MERV 16	Process Specified	95% DOP	N/A	Pharmaceutical, Electronics, Sterilisations, Nuclear ventilation, Bacteria free rooms	Type 17 HEPA Filters
H13	N/A	Process Specified	99.97% 99.99% 99.999% 99.9995%	N/A	Highest air quality applications, Sterile areas, Bacteriological, Micro technology, Electro technology	Type 17 HEPA Filters



**LONGAR INDUSTRIES**

FILTERS AND FABRICATIONS FOR A CLEANER ENVIRONMENT