

# Air filter groups and classes

Group	Filter class (example of use)	Example of use	Average collection efficiency for the most penetrating particle size (MPPS)%	Average efficiency for 0.4 µm particles %	Average arrestance of dust %
Coarse	G4	Warehouses			Over 90
Medium	M5	Protection of ventilation systems		40-59	
	M6			60-79	
Fine	F7	Schools		80-89 (min 35)	
	F8	Laboratories		90-94 (min 55)	
	F9	Healthcare		95 and above (min 70)	
Efficiency particulate filters	E10	Precision tooling	85		
	E11		95		
	E12		99.5		
High efficiency particulate filters	H13 and H14	Operating theatres	Over 99.95		
Ultra low penetration air filters	U15, U16 and U17	Space craft	Over 99.9995		

# European standard EN 13779 since April 2007 for non-residential buildings

Outdoor Air Quality (ODA)		Indoor Air Quality (IDA)			
		IDA 1 (High)	IDA 2 (Medium)	IDA 3 (Moderate)	IDA 4 (Low)
Increasing pollution ↓	ODA 1 eg countryside	F9	F8	F7	F5
	ODA 2 eg smaller towns	F7 + F9	F6 + F8	F5 + F7	F5 + F6
	ODA 3 eg city centres	F7 + GF + F9	F7 + GF + F9	F5 + F7	F5 + F6

GF = Gas filter (carbon filter) and/or chemical filter.

Table based on appendix A.3 “Use of air filters” in European standard EN 13779