

AIR FILTERS

These requirements apply to filters that are mainly intended for use as filters for incoming air in public buildings, as well as shop, office and residential buildings.

Classified filters are divided into classes on basis of their particle separation rate:

		Minimum separation rate	
		Particle size	
		> 1.0 µm	> 0.4 µm
Pollen filter	F5 + M1 / F6 + M1	20 %	
Urban dust filter	F7 + M1	80 %	50 %
Fine particle filter	F8 + M1 / F9 + M1	90 %	70 %

Tests to be carried out on air filters and associated requirements

Property	Requirement	Measurement method
Sensory test ¹⁾	Air flowing through the product or product combination	
-trained panel	odour intensity < 4	Cleanliness testing instructions for the ventilation products attachment 1
-untrained panel	acceptability value > + 0.1	Cleanliness testing instructions for ventilation product attachment 6 or sensory testing of the building material emission classification
Fibre detachment test	< 0.1 piece/m ³	Cleanliness testing instructions for the ventilation products attachment 7

¹⁾ The test is carried out either with a trained or untrained odour panel

In addition to measurable requirements the following special requirements must be fulfilled. See [the application form](#)

- The products fulfil the type approval requirements
- No oils or biocides have been used to bind dust in the filtering material
- No labels or similar items are affixed to the internal surfaces of products
- The curve describing the initial and minimum differentiation rate, the usage and cleaning instructions of the air filter, and the nominal air flow and any applicable usage restrictions are available with the air filters as well as separately
- The particle separation rate of the filter is between F5 and F9
- The replacement interval of the filter, the cleaning interval of the electric filter, the operation of the automatic cleaning system and the environmentally friendly disposal method of the fibre filter have been defined
- Classified products are marked in such a way that they can be easily distinguished from unclassified supplies. The marking can withstand normal transportation, storage and handling on construction sites
- The products are protected from becoming dirty on inside during storage at the factory and transportation in a manner that enables them to withstand the prevailing conditions during transportation and on construction sites. Product-specific transportation, storage, installation and servicing instructions are issued and the instructions cover essential matters related to cleanliness.

