



ZL

FOR HIGH DUST CONCENTRATIONS OR AS A PREFILTER FOR FINE DUST FILTERS

Z-line filters for the separation of coarse and fine dust, used as the first stage in ventilation and air handling units or as prefilters for high-quality filter stages

- Filter classes G4 (coarse dust filter), M5 (fine dust filter)
- Large filter area due to folding
- Low differential pressures at high volume flow rates
- Moisture-resistant frame made of non-woven fibres or plastic
- Tested to EN 779

Application



Application

- Z-line filter type ZL for the separation of coarse and fine dust in ventilation systems
- Coarse dust filter: Prefilter in ventilation systems
- Fine dust filter: Prefilter or final filter in ventilation systems

Special characteristics

- High dust holding capacity at low initial differential pressure
- Long filter life
- Quick fitting and removal
- Low weight and small transport volume
- Can be easily and safely disposed of in municipal refuse incineration plants as emissions are low in harmful substances

Description



Filter classes

- Coarse dust filters G4
- Fine dust filters M5

Construction

- NWO: Frame made of non-woven fibres
- PLA: Frame made of plastic

Useful additions

- Standard cell frame (SCF-B)

Construction features

- Folded filter media
- Moisture-resistant, rigid filter frame
- Available in various filter classes and sizes, including commercial installation depths and cross-sections

Materials and surfaces

- Filter media made of synthetic fibres
- Frame made of non-woven fibres or plastic

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Filter class according to EN 779	G4	M5
Average arrestance according to EN 779	91 %	>98 %
Average efficiency according to EN 779	30 %	45 %
Nominal face velocity	2.5 m/s	2.5 m/s
Initial differential pressure at nominal volume flow rate for T = 48 mm	50 Pa	90 Pa
Initial differential pressure at nominal volume flow rate for T = 96 mm	35 Pa	70 Pa
Maximum operating temperature	80 °C	80 °C
Maximum relative humidity	100 %	100 %

Z-line filters type ZL for the separation of coarse dust when used as a prefilter, and for the separation of fine dust when used as a prefilter or final filter in ventilation systems.

Available in various filter classes and sizes, including common installation depths and cross-sections, filter classes G4, M5.

Filter media is folded; this increases the dust holding capacity and extends the filter life.

Special characteristics

- High dust holding capacity at low initial differential pressure
- Long filter life
- Quick fitting and removal
- Low weight and small transport volume
- Can be easily and safely disposed of in municipal refuse incineration plants as emissions are low in harmful substances

Materials and surfaces

- Filter media made of synthetic fibres
- Frame made of non-woven fibres or plastic

Construction

- NWO: Frame made of non-woven fibres
- PLA: Frame made of plastic

Sizing data

- Filter class
- Volume flow rate [m³/h]
- Initial differential pressure [Pa]
- Nominal size [mm]

ZL

ZL – G4 – PLA / 595 x 595 x 48

1

2

3

4

1 Type

ZL Z-line filter

2 Filter class

G4 Coarse dust filter according to EN 779
M5 Fine dust filter according to EN 779

3 Construction

NWO Frame made of non-woven fibres
PLA Frame made of plastic

4 Nominal size [mm]

B × H × T