

## Minipleat filter panels used as fine dust filters

**Fine dust filters: F756, F757, F759**

**Filter classes: F6, F7, F9**

- » For the most demanding requirements of air purity and sterility in sensitive areas
- » Installation orientation and service side optional



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## Detail



Minipleat filter panel

### » Application

Fine dust filters: Prefilters or final filters in ventilation systems for the separation of fine dust.

### » Filter types

- Type F756 (F6)
- Type F757 (F7)
- Type F759 (F9)

### » Material

- Filter packs are made of high-quality, moisture-resistant glass-fibre paper which is folded into closely spaced shallow pleats.
- Spacers provide a uniform spacing of the pleats.
- Joint sealing compound made of permanently elastic two-component polyurethane adhesive.

### » Construction

- W = Frame made of MDF (depth 60 mm)
- M = Frame made of galvanised sheet steel (depth 60 mm)
- E = Frame made of stainless sheet steel (depth 60 mm)
- K = Plastic frame (depth 48 mm, 96 mm and 150 mm)

### » Equipment

Seal: Minipleat filter panels with code numbers 93, 94, and 95 are equipped with a peripheral flat section seal on the upstream side. Minipleat filter panels in other sizes do not require a seal since the mounting frame is equipped with a seal.

### » Associated TROX filter units

- Standard cell frames for wall installation (F2/1/././..).
- Universal casings for duct installation (F3/1/././..).
- Ducted HEPA filter unit; available in various sizes as individual units or as filter unit systems (F3/3/././..).

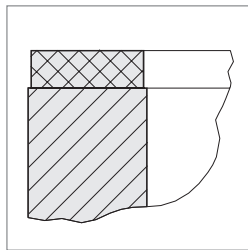
### » Certification of EUROVENT

Minipleat filter panels of filter classes F6 to F9 are certified according to Eurovent. This certification can be obtained only by manufacturers for which the technical properties of the filter, filter grade, and initial differential pressure are tested by an independent institute. In this way, the quality of the fine dust filter is guaranteed.



## Seal

For further information regarding seals, see "Equipment".



Detail drawing 1:  
Flat section seal

## Order code

<table border="1" style="margin: auto;"> <tr> <td>F</td><td>7</td><td>5</td><td>9</td><td>W</td><td>1</td><td>5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td colspan="4" style="text-align: center;">1</td> <td colspan="2" style="text-align: center;">2</td> <td colspan="2" style="text-align: center;">3</td> <td colspan="6" style="text-align: center;">4</td> </tr> </table>		F	7	5	9	W	1	5	0	0	0	0	0	0	0	1				2		3		4					
F	7	5	9	W	1	5	0	0	0	0	0	0	0																
1				2		3		4																					
<b>1</b> Filter type: Type F756 (F6) Type F757 (F7) Type F759 (F9)	<b>3</b> Code number: Size of the minipleat filter panel See code numbers in Tables 2 - 7																												
<b>2</b> Construction: W = Frame made of MDF M = Frame made of galvanised sheet steel E = Frame made of stainless sheet steel K = Plastic frame	<b>4</b> Zeros																												

**Example for minipleat filter panel**

- » Filter type: **F759**
- » Construction for frame made of MDF: **W**
- » Filter size 287 x 592 x 60 mm: **15**

F	7	5	9	W	1	5	0	0	0	0	0	0	0
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## Technical data

Filter type		F756	F757	F759
Filter class according to EN 779		F6	F7	F9
Average efficiency according to EN 779	in %	65	85	95
Initial differential pressure at nominal volume flow rate	in Pa	90	110	150
Recommended final differential pressure	in Pa	450	450	450
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 1: Technical data for filter types F756, F757, and F759

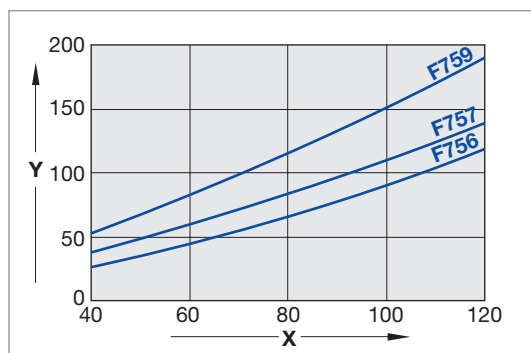


Diagram 1: Minipleat filter panels F756, F757, F759, constructions W, M, E, K

X = Volume flow rate in % of nominal volume flow rate  
 Y = Initial differential pressure in Pa

## Test

### » Testing fine dust filters

#### **EN 779: Particulate filters for general ventilation.**

This European standard describes the test method and test rig for measuring the filter performance.

For fine dust filters, the average efficiency is tested with a liquid test aerosol at a particle size of 0.4 µm diameter.

The filters are classified into filter classes F5 to F9 depending on the tested values (see Leaflet P/1/././.).

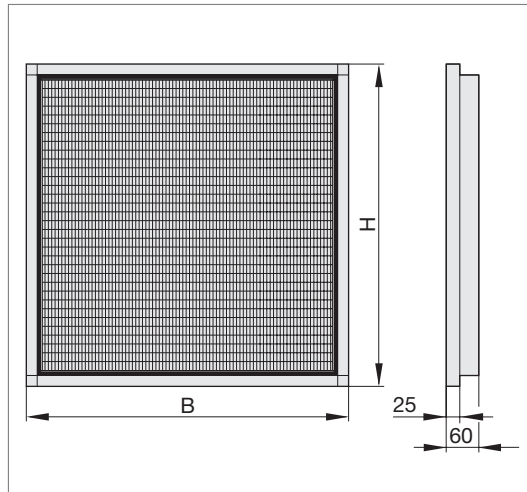
## Detail

### 2 W = Frame made of MDF without seal

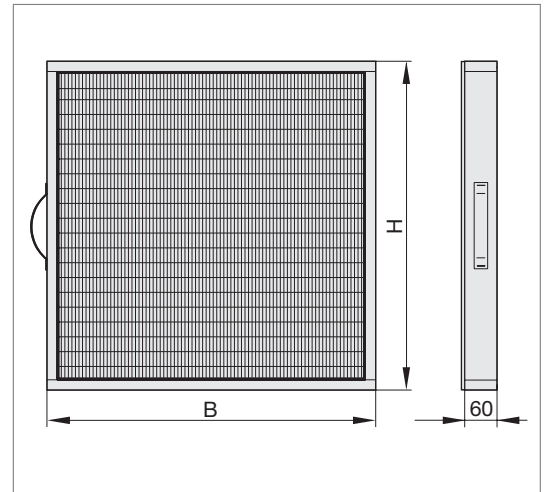
### 2 W = Frame made of MDF with flat section seal

## Technical data

Dimensional tolerance:  
+ 0 mm  
- 1 mm



Detail drawing 2: Minipleat filter panels F756, F757, F759, construction W, code numbers 15, 16



Detail drawing 3: Minipleat filter panels F756, F757, F759, construction W, code numbers 93, 94, 95

### F756, F757, F759: Frame depths 60 mm (with header frame)

### F756, F757, F759: Frame depths 60 mm

Order code

F	7	5	7	W
1				

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
287	592	60	350	1250	2.0	15
592	592	60	700	2500	3.5	16

Table 2: Minipleat filter panels F756, F757, F759

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	610	60	415	1500	2.4	95
610	610	60	830	3000	3.2	93
762	610	60	1040	3750	3.7	94

Table 3: Minipleat filter panels F756, F757, F759

Order code

7	W	1	6	0
2		3		

All weights are net, without packaging.

# Construction M and E

Frame depth: 60 mm

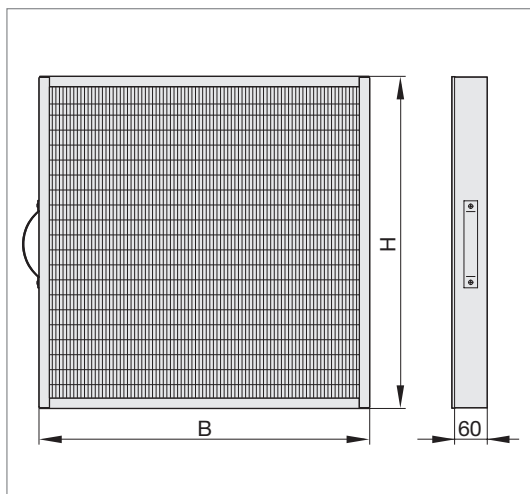
## Detail

**2** M = Frame made of galvanised sheet steel with flat section seal

**2** E = Frame made of stainless sheet steel with flat section seal

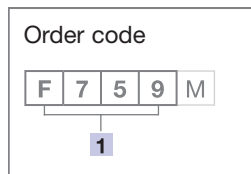
## Technical data

Dimensional tolerance:  
+ 0 mm  
- 1 mm



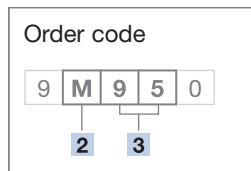
Detail drawing 4: Minipleat filter panels F756, F757, F759, construction M and E, frame depth 60 mm

### F756, F757, F759: Frame depths 60 mm



Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. <sup>3</sup>
B	H	T	l/s	m <sup>3</sup> /h		
305	610	60	415	1500	2.5	95
610	610	60	830	3000	3.3	93
762	610	60	1040	3750	3.8	94

Table 4: Minipleat filter panels F756, F757, F759



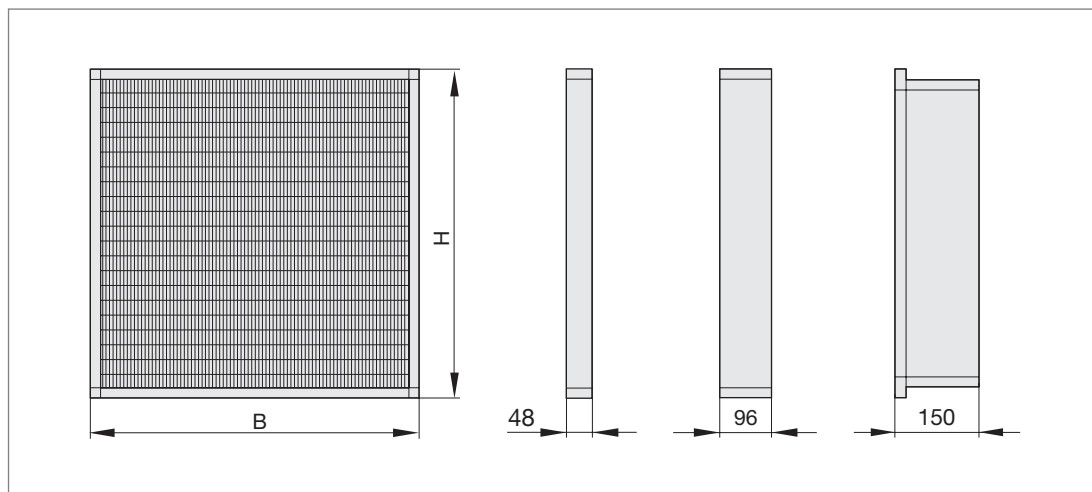
All weights are net, without packaging.

### Detail

### 2 K = Plastic frame without seal

### Technical data

Dimensional tolerance:  
+ 0 mm  
- 1 mm



Detail drawing 5: Minipleat filter panels F756, F757, F759, construction K

#### F756, F757, F759: Frame depth 48 mm

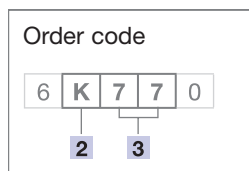
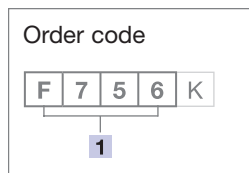
Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
287	592	48	345	1250	0.9	<b>77</b>
490	592	48	570	2050	1.5	<b>78</b>
592	592	48	695	2500	1.8	<b>79</b>

Table 5: Minipleat filter panels F756, F757, F759

#### F756, F757, F759: Frame depth 96 mm

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
287	592	96	470	1700	1.7	<b>87</b>
490	592	96	780	2800	2.9	<b>88</b>
592	592	96	940	3400	3.5	<b>89</b>

Table 6: Minipleat filter panels F756, F757, F759



All weights are net, without packaging.

#### F756, F757, F759: frame depth 150 mm (with head frame)

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
287	287	150	235	850	1.3	<b>70</b>
287	592	150	470	1700	2.5	<b>71</b>
490	592	150	780	2800	4.2	<b>72</b>
592	592	150	940	3400	5.1	<b>73</b>

Table 7: Minipleat filter panels F756, F757, F759

### Specification text

#### TROX minipleat panels F756, F757 and F759:

- » Frame made of MDF, galvanised sheet steel, stainless sheet steel or plastic.
- » Flat section seal on the upstream side.
- » Filter pack made of high-quality, moisture-resistant glass-fibre paper.
- » Tested according to EN 779.
- » Packed in stable carton suitable for transport.

#### Technical data:

Filter class according to EN 779 \_\_\_\_\_  
 Average efficiency according to EN 779 \_\_\_\_\_ %  
 Dimensions (B x H x T) \_\_\_\_\_ mm  
 Nominal volume flow rate \_\_\_\_\_ l/s (m³/h)  
 Initial differential pressure \_\_\_\_\_ Pa  
 Max. operating temperature \_\_\_\_\_ °C  
 Max. relative humidity \_\_\_\_\_ %  
 Net weight \_\_\_\_\_ kg  
 Order number \_\_\_\_\_  
 Make: TROX

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Filters

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