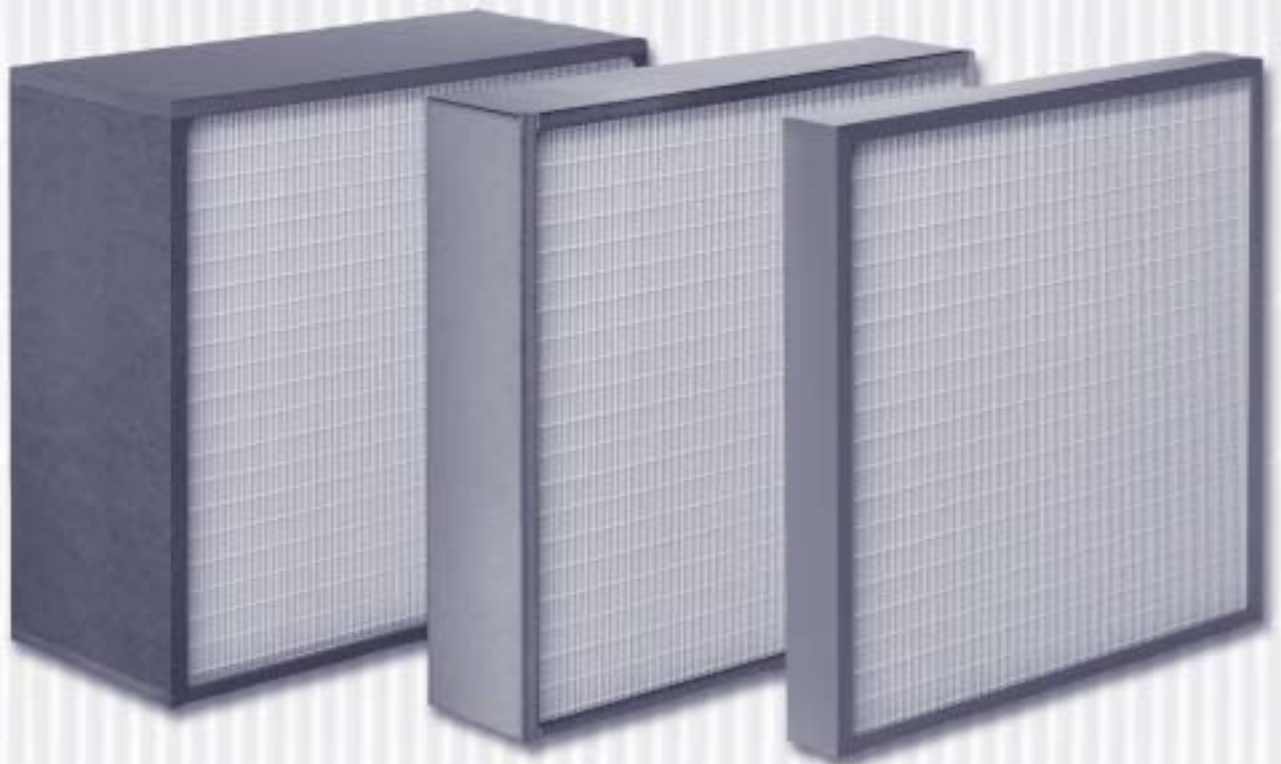


Minipleat filter panels used as HEPA filters

HEPA filters: F780, F781, F782

Filter classes: E11, H13, H14

- » High efficiency filters for very critical requirements of air purity
- » Used for industrial, research, medical, pharmaceutical, and nuclear engineering applications
- » Various dimensions and constructions



Content overview

General information	2	Construction Z	12
Order code	3	Construction Y	13
Special information	4	Construction U	14
Construction W	5	Construction V	15
Construction M and E	9	Specification text	15
Construction N	11		

Detail



Minipleat filter panel

» Application

HEPA filters: Main or final filters used for the most critical requirements of air purity and sterility in areas such as industry, research, medicine, pharmaceuticals, and nuclear engineering.

Separation of suspended particles or aerosols, toxic dusts, viruses, bacteria etc. from the supply and extract air in ventilation systems with large volume flow rates and long filter life.

» Filter types

- Type F780 (E11)
- Type F781 (H13)
- Type F782 (H14)

» Material

- Filter packs are made of high-quality, moisture-resistant glass-fibre paper which is folded into closely spaced shallow pleats.
- Spacers made of thermoplastic hot-melt adhesive 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: 78, 150 or 292 mm)
- M = Frame made of galvanised sheet steel
(depth: 150 or 292 mm)
- E = Frame made of stainless sheet steel
(depth: 150 or 292 mm)
- N = Frame made of extruded aluminium profile
(depth: 30 mm)
- Z = Frame made of extruded aluminium profile
(depth: 78 mm)
- Y = Frame made of extruded aluminium profile
(depth: 150 mm)
- U = Frame made of extruded aluminium profile
(depth: 91 mm)
- V = Frame made of extruded aluminium profile
(depth: 85 mm)

» Equipment

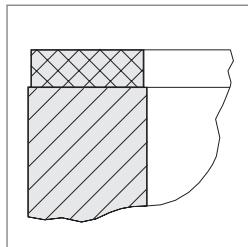
- Seal: Constructions W, M, E, N, Z, and Y are equipped with peripheral flat section seals on the upstream side.
As a variant, minipleat filter panels can be provided with a continuous foam seal or seal with a test groove (filter types F781 and F782) on the upstream side. The flat section seal or continuous seal can be fitted on the downstream side or on both sides. Constructions U and V are equipped with a fluid seal.
- Protection grid: Design variant with an expanded metal grille as a protection grid. It can be fitted on the downstream side, the upstream side, or both sides.

» Associated TROX filter units

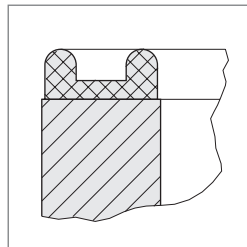
- Ducted HEPA filter units for highly sensitive areas; available in various sizes as individual units or as filter unit systems (F3/3/././.).
- HEPA terminal filter units; available in various constructions and dimensions (F6/1/././.).

Seal

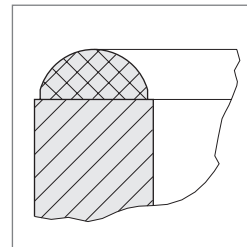
For further information regarding seals, see "Equipment".



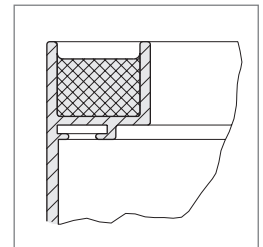
Detail drawing 1:
Flat section seal
(standard design)



Detail drawing 2:
Seal with test groove



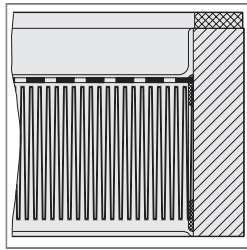
Detail drawing 3:
Continuous seal



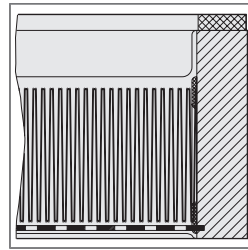
Detail drawing 4:
Fluid seal

Protection grid

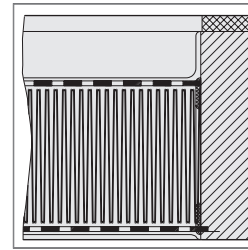
For further information regarding protection grids, see “Equipment”, page 2.



Detail drawing 5:
Protection grid,
upstream side



Detail drawing 6:
Protection grid,
downstream side



Detail drawing 7:
Protection grid on
both sides

Order code

<table border="1" style="margin: auto;"> <tr> <td>F</td><td>7</td><td>8</td><td>1</td><td>W</td><td>3</td><td>8</td><td>X</td><td>P</td><td>0</td><td>8</td><td>0</td><td>E</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="1" style="text-align: center;">3</td> <td colspan="1" style="text-align: center;">4</td> <td colspan="1" style="text-align: center;">5</td> <td colspan="3" style="text-align: center;">6</td> <td colspan="1" style="text-align: center;">7</td> <td colspan="1" style="text-align: center;">8</td> </tr> </table>		F	7	8	1	W	3	8	X	P	0	8	0	E	0	1				2		3	4	5	6			7	8
F	7	8	1	W	3	8	X	P	0	8	0	E	0																
1				2		3	4	5	6			7	8																
<p>1 Filter type: Type F780 (E11) Type F781 (H13) Type F782 (H14)</p>	<p>5 Protection grid: 0 = Without protection grid (standard) L = Protection grid on the upstream side N = Protection grid on the downstream side P = Protection grid on both sides</p>																												
<p>2 Construction: W = Frame made of MDF M = Frame made of galvanised sheet steel E = Frame made of stainless sheet steel N = Frame made of extruded aluminium profile Z = Frame made of extruded aluminium profile Y = Frame made of extruded aluminium profile U = Frame made of extruded aluminium profile With fluid seal V = Frame made of extruded aluminium profile With fluid seal (pharmaceutical)</p>	<p>6 Pleat depth: 000 = Standard pleat depth 080 = Pleat depth 80 mm (for F781) 120 = Pleat depth 120 mm (for F781, F782) 180 = Pleat depth 180 mm (for F781, F782)</p>																												
<p>3 Code number: For the size of the minipleat filter panel, see the code numbers in Tables 2 to 28</p>	<p>7 Test: 0 = Oil mist test for F781 (standard) 0 = Scan test for F782 (standard) E = Scan test for F781 (for a surcharge)</p>																												
<p>4 Seal for constructions W, M, E, N, Z, and Y: 0 = Flat section seal X = Continuous seal Z = Seal with test groove (for F781, F782) Seal for constructions U and V: S = Fluid seal</p>	<p>8 Zero</p>																												

**Example for minipleat filter panel
(standard pleat depth)**

- » Filter type: **F781**
- » Construction for frame made of MDF: **W**
- » Filter size 610 x 610 x 150 mm: **38**
- » Flat section seal (standard): **0**
- » Without protection grid (standard): **0**
- » With standard pleat depth: **000**
- » Oil mist test (standard): **0**

F 7 8 1 W 3 8 0 0 0 0 0 0 0

**Example for minipleat filter panel
(pleat depth = 80 mm)**

- » Filter type: **F781**
- » Construction for frame made of MDF: **W**
- » Filter size 610 x 610 x 150 mm: **38**
- » Continuous seal: **X**
- » Protection grid on both sides: **P**
- » With pleat depth 80 mm: **080**
- » Scan test: **E**

F 7 8 1 W 3 8 X P 0 8 0 E 0

Technical data

Filter type		F780	F781	F782
Filter class according to EN 1822		E11	H13	H14
Efficiency (MPPS) according to EN 1822	in %	> 95	> 99.95	> 99.995
Initial differential pressure at nominal volume flow rate	in Pa	125	250	120/140 ¹⁾
Recommended final differential pressure	in Pa	300	600	600
Max. operating temperature	in °C	80	80	80
Max. relative humidity	in %	100	100	100

Table 1: Technical data for filter types F780, F781, and F782

¹⁾Based on construction

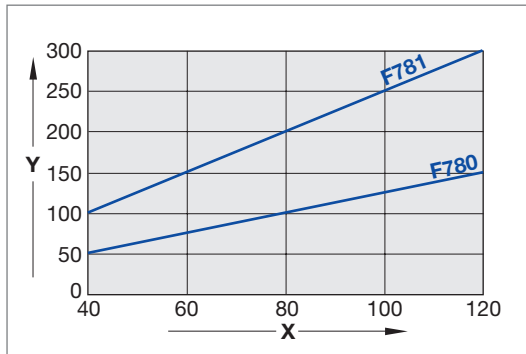


Diagram 1: Minipleat filter panels F780, F781

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

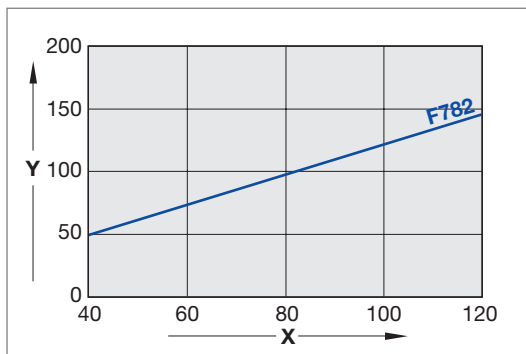


Diagram 2: Minipleat filter panels F782, construction W (T = 78 mm), construction Z (T = 78 mm), construction U (T = 91 mm), construction V (T = 85 mm)

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

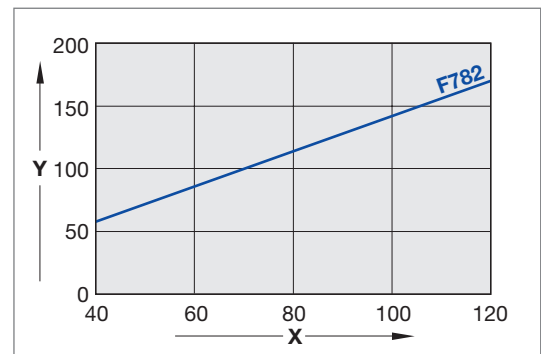


Diagram 3: Minipleat filter panels F782, construction W (T = 150 mm, 292 mm), construction M (T = 150 mm, 292 mm), construction E (T = 150 mm, 292 mm), construction Y (T = 150 mm)

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

Test

» Testing particulate filters

EN 1822: High efficiency air filters (EPA, HEPA and ULPA).

This European standard defines a method for testing the filtration efficiency based on a particle counting method using a liquid test aerosol and permits a uniform classification of the particulate filters according to the filtration efficiency.

The filtration efficiency is determined using a test aerosol whose particle sizes lie within the minimum filter efficiency range.

Particulate filters are classified according to the values determined for the local efficiency and the overall efficiency in EPA (filter classes E10 to E12), HEPA (filter classes H13 and H14) and ULPA (filter classes U15 to U17) see Leaflet P/2/...).

» Leakage test

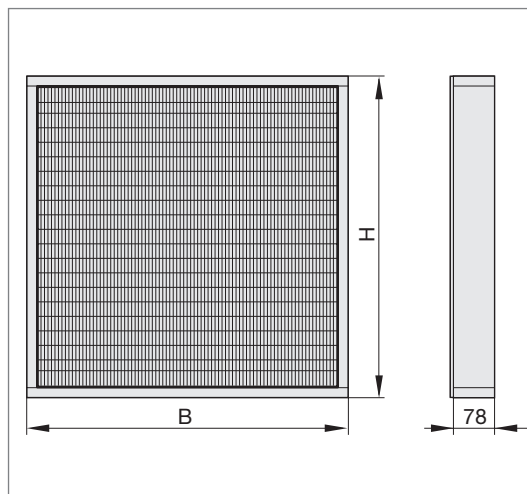
In the standard procedure, all particulate filter classes H13 and above are individually tested to prove they are leak-free.

Detail

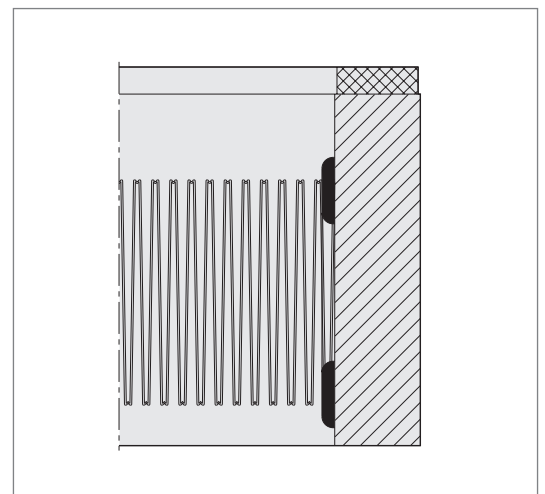
2 W = Frame made of MDF with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



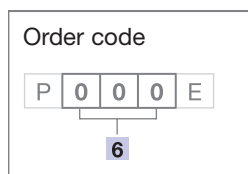
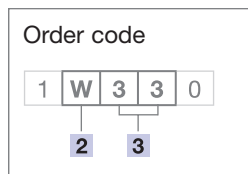
Detail drawing 8: minipleat filter panels F780, F781, F782, construction W, frame depth 78 mm



Detail drawing 9: Filter partial section

F780, F781:

6 Pleat depth 50 mm = code number 000



All weights are net, without packaging.

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
203	203	78	30	110	1.0	84
305	305	78	70	250	1.5	33
345	345	78	90	320	1.8	10
435	435	78	150	540	2.0	12
457	457	78	170	600	2.5	13
535	535	78	240	850	3.1	46
835	535	78	360	1300	4.2	47
1135	535	78	500	1800	5.2	48
557	557	78	250	910	2.8	65
575	575	78	270	970	3.4	49
305	610	78	150	540	2.5	01
610	610	78	310	1100	3.5	02
762	610	78	390	1400	4.0	05
915	610	78	470	1700	4.5	06
1220	610	78	610	2200	5.7	07
1525	610	78	760	2750	7.5	08
1830	610	78	920	3300	8.5	09
762	762	78	490	1750	5.5	21
915	762	78	580	2100	6.4	20
1220	762	78	780	2800	8.0	30
1525	762	78	970	3500	10.0	26
1830	762	78	1170	4200	12.0	27
915	915	78	690	2500	6.5	22
1220	915	78	930	3350	11.5	25
1525	915	78	1150	4150	13.0	28
1830	915	78	1390	5000	15.5	29

Table 2: Minipleat filter panels F780, F781

F782:

6 Pleat depth 50 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
203	203	78	15	60	1.0	84
305	305	78	40	150	1.5	33
345	345	78	55	190	1.8	10
435	435	78	85	305	2.0	12
457	457	78	95	340	2.5	13
535	535	78	130	465	3.1	46
835	535	78	200	725	4.2	47
1135	535	78	275	985	5.2	48
557	557	78	140	505	2.8	65
575	575	78	150	535	3.4	49
305	610	78	85	300	2.5	01
610	610	78	170	605	3.5	02

Table 3: Minipleat filter panels F782

Construction W

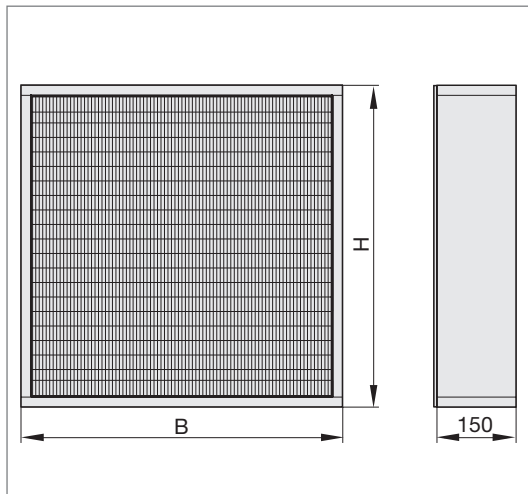
Frame depth: 150 mm

Detail

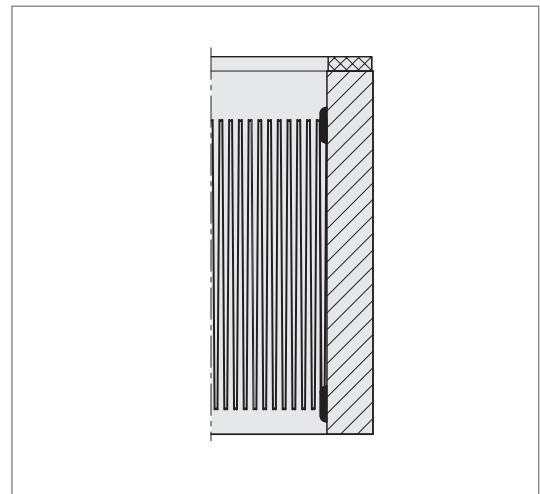
2 W = Frame made of MDF with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



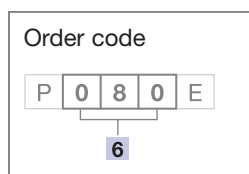
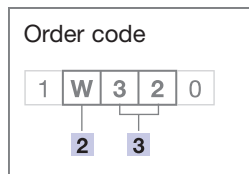
Detail drawing 10: minipleat filter panels F780, F781, F782, construction W, frame depth 150 mm



Detail drawing 11: Filter partial section

F780, F781:

6 Pleat depth 50 mm = code number 000



All weights are net, without packaging.

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
203	203	150	30	110	1.0	11
305	305	150	70	250	3.3	31
345	345	150	90	320	4.2	75
435	435	150	150	540	4.8	76
457	457	150	170	600	5.3	32
575	575	150	270	970	7.0	36
305	610	150	150	540	4.8	37
610	610	150	310	1100	7.5	38
762	610	150	390	1400	8.8	39
915	610	150	470	1700	10.0	40
1220	610	150	610	2200	12.7	41
1525	610	150	760	2750	16.5	42
1830	610	150	920	3300	19.0	43
762	762	150	485	1750	10.5	44
915	762	150	585	2100	11.8	45
1220	762	150	780	2800	14.0	50
1525	762	150	970	3500	17.3	51
1830	762	150	1165	4200	21.0	52
915	915	150	695	2500	13.5	53
1220	915	150	930	3350	16.2	54
1525	915	150	1150	4150	19.8	55
1830	915	150	1390	5000	23.5	56

Table 4: Minipleat filter panels F780, F781

F781:

6 Pleat depth 80 mm = code number 080

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
203	203	150	40	140	1.2	11
305	305	150	90	330	3.4	31
345	345	150	115	420	4.3	75
435	435	150	205	730	5.0	76
457	457	150	225	805	5.6	32
575	575	150	370	1325	7.6	36
305	610	150	195	700	5.2	37
610	610	150	415	1500	8.1	38
762	610	150	530	1900	9.6	39
915	610	150	640	2300	11.0	40
1220	610	150	860	3100	14.0	41
1525	610	150	1070	3850	16.9	42
1830	610	150	1290	4650	21.0	43
762	762	150	665	2400	11.5	44
915	762	150	810	2910	13.0	45
1220	762	150	1090	3920	16.0	50
1525	762	150	1350	4870	18.2	51
1830	762	150	1635	5880	23.0	52
915	915	150	980	3530	15.5	53
1220	915	150	1320	4750	18.0	54
1525	915	150	1640	5900	21.0	55
1830	915	150	1980	7130	25.4	56

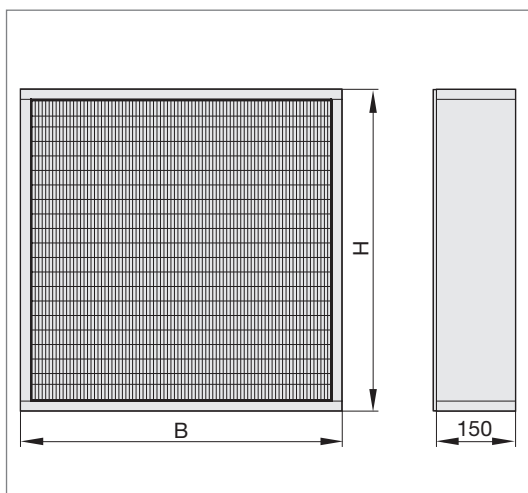
Table 5: Minipleat filter panels F781

Detail

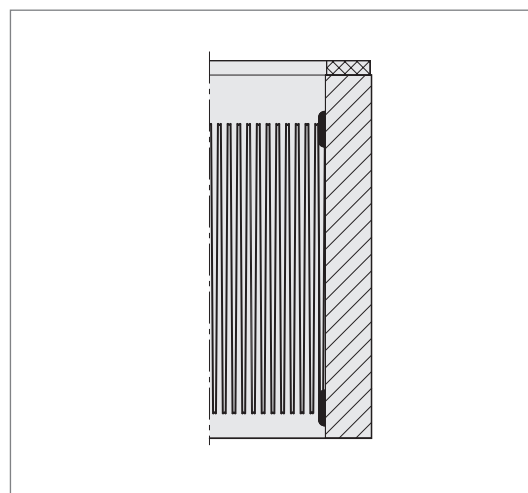
2 W = Frame made of MDF with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



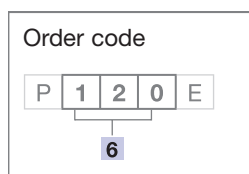
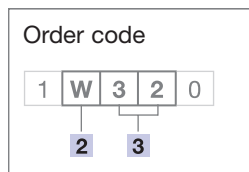
Detail drawing 12: minipleat filter panels F780, F781, F782, construction W, frame depth 150 mm



Detail drawing 13: Filter partial section

F781:

6 Pleat depth 120 mm = code number 120



Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ^③
B	H	T	l/s	m³/h		
203	203	150	55	190	1.5	11
305	305	150	130	460	3.6	31
345	345	150	165	590	4.6	75
435	435	150	285	1025	5.2	76
457	457	150	315	1130	5.8	32
535	535	150	440	1585	7.2	74
575	575	150	515	1850	8.2	36
305	610	150	270	980	5.6	37
610	610	150	585	2100	8.6	38

Table 6: Minipleat filter panels F781

F782:

6 Pleat depth 120 mm = code number 120

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ^③
B	H	T	l/s	m³/h		
203	203	150	30	100	1.5	11
305	305	150	70	250	3.6	31
345	345	150	90	320	4.6	75
435	435	150	155	560	5.2	76
457	457	150	175	620	5.8	32
535	535	150	240	870	7.2	74
575	575	150	280	1015	8.2	36
305	610	150	150	535	5.6	37
610	610	150	320	1150	8.6	38

Table 7: Minipleat filter panels F782

All weights are net, without packaging.

Construction W

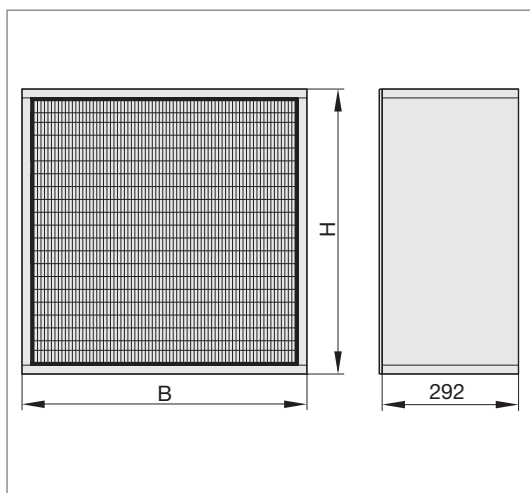
Frame depth: 292 mm

Detail

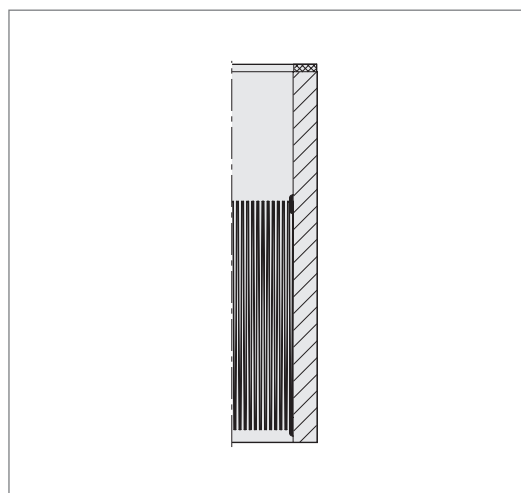
2 W = Frame made of MDF with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



Detail drawing 14: minipleat filter panels F780, F781, F782, construction W, frame depth 292 mm



Detail drawing 15: Filter partial section

F780:

6 Pleat depth 150 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
305	305	292	130	460	6.3	57
457	457	292	315	1130	10.0	58
305	610	292	270	980	9.0	59
457	610	292	430	1540	10.5	60
610	610	292	585	2100	14.0	63
762	610	292	740	2660	17.0	64

Table 8: Minipleat filter panels F780

F781:

6 Pleat depth 180 mm = code number 180

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
305	305	292	150	545	6.5	57
457	457	292	290	1340	10.5	58
305	610	292	325	1165	9.5	59
457	610	292	510	1830	11.5	60
610	610	292	695	2500	15.0	63
762	610	292	890	3160	18.5	64

Table 10: Minipleat filter panels F781

F781:

6 Pleat depth 120 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
305	305	292	130	460	6.3	57
457	457	292	315	1130	10.0	58
305	610	292	270	980	9.0	59
457	610	292	430	1540	10.5	60
610	610	292	585	2100	14.0	63
762	610	292	740	2660	17.0	64

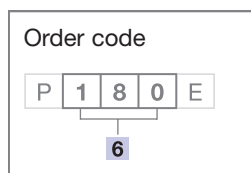
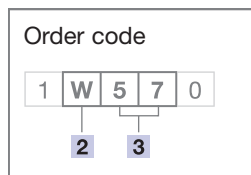
Table 9: Minipleat filter panels F781

F782:

6 Pleat depth 180 mm = code number 180

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. ③
B	H	T	l/s	m³/h		
305	305	292	90	325	6.5	57
457	457	292	225	805	10.5	58
305	610	292	195	700	9.5	59
457	610	292	305	1100	11.5	60
610	610	292	445	1500	15.0	63
762	610	292	530	1900	18.5	64

Table 11: Minipleat filter panels F782



All weights are net, without packaging.

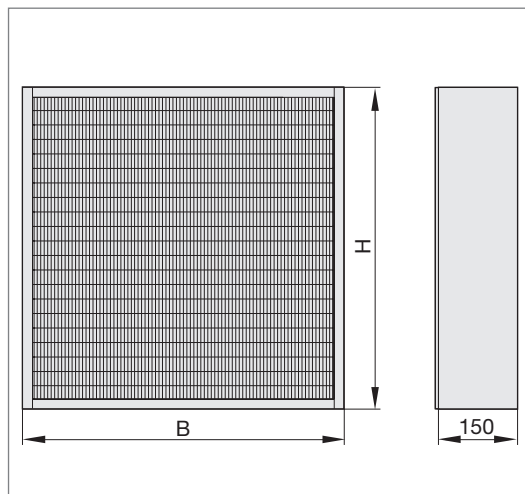
Detail

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

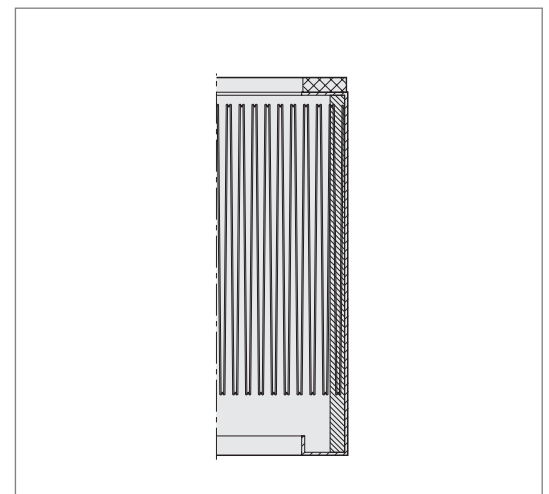
E = Frame made of stainless sheet steel with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



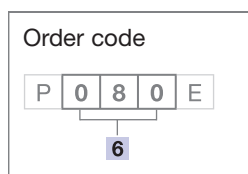
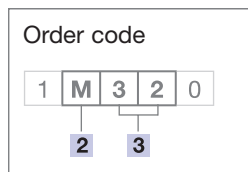
Detail drawing 16: minipleat filter panels F780, F781, F782, constructions M and E, frame depth 150 mm



Detail drawing 17: Filter partial section

F780, F781:

6 Pleat depth 50 mm = code number 000



Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	85	305	3.4	31
345	345	150	110	390	4.4	75
435	435	150	170	615	4.9	76
457	457	150	190	680	5.4	32
575	575	150	300	1075	7.1	36
305	610	150	175	625	4.9	37
610	610	150	335	1210	7.6	38
762	610	150	425	1525	9.0	39
915	610	150	510	1840	10.5	40
1220	610	150	655	2360	13.0	41

Table 12: Minipleat filter panels F780, F781

F781:

6 Pleat depth 80 mm = code number 080

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	110	400	3.5	31
345	345	150	140	510	4.5	75
435	435	150	230	830	5.2	76
457	457	150	255	915	5.7	32
575	575	150	405	1465	7.7	36
305	610	150	225	810	5.3	37
610	610	150	460	1650	8.2	38
762	610	150	575	2070	9.7	39
915	610	150	690	2490	11.2	40
1220	610	150	925	3330	14.2	41

Table 13: Minipleat filter panels F781

All weights are net, without packaging.

F781:

6 Pleat depth 120 mm = code number 120

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	155	560	3.7	31
345	345	150	200	715	4.7	75
435	435	150	320	1160	5.3	76
457	457	150	355	1280	5.9	32
535	535	150	490	1770	7.3	74
575	575	150	570	2050	8.3	36
305	610	150	315	1135	5.7	37
610	610	150	640	2310	8.8	38

Table 14: Minipleat filter panels F781

F782:

6 Pleat depth 120 mm = code number 120

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	70	250	3.7	31
345	345	150	90	320	4.7	75
435	435	150	155	560	5.3	76
457	457	150	175	620	5.9	32
535	535	150	240	870	7.3	74
575	575	150	280	1015	8.3	36
305	610	150	150	535	5.7	37
610	610	150	320	1150	8.8	38

Table 15: Minipleat filter panels F782

Construction M and E

Frame depth: 292 mm

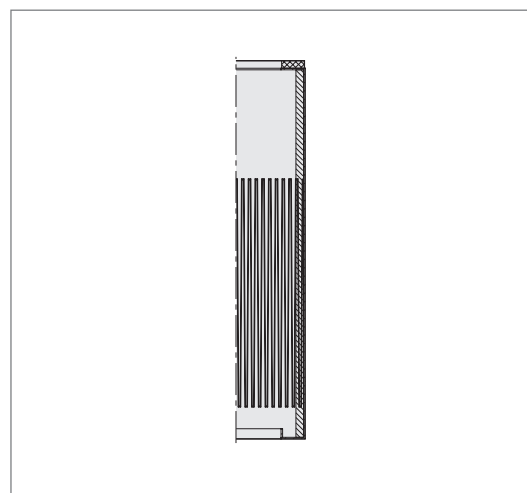
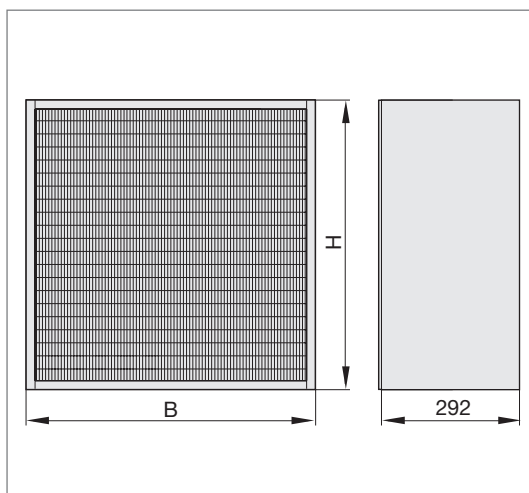
Detail

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

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

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



Detail drawing 18: minipleat filter panels F780, F781, F782, constructions M and E, frame depth 292 mm

Detail drawing 19: Filter partial section

F780:

6 Pleat depth 150 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
305	305	292	155	560	6.8	57
457	457	292	355	1280	10.5	58
305	610	292	315	1135	9.5	59
457	610	292	480	1720	11.5	60
610	610	292	640	2310	15.0	63
762	610	292	805	2900	18.5	64

Table 16: Minipleat filter panels F780

F781:

6 Pleat depth 120 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
305	305	292	155	560	6.8	57
457	457	292	355	1280	10.5	58
305	610	292	315	1135	9.5	59
457	610	292	480	1720	11.5	60
610	610	292	640	2310	15.0	63
762	610	292	805	2900	18.5	64

Table 17: Minipleat filter panels F781

F781:

6 Pleat depth 180 mm = code number 180

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
305	305	292	185	665	7.0	57
457	457	292	425	1525	11.0	58
305	610	292	375	1350	10.0	59
457	610	292	570	2050	12.5	60
610	610	292	765	2750	16.0	63
762	610	292	955	3445	20.0	64

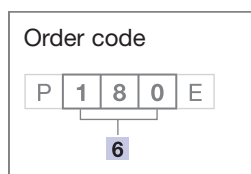
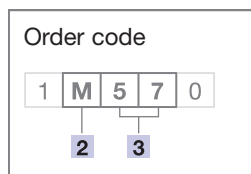
Table 18: Minipleat filter panels F781

F782:

6 Pleat depth 180 mm = code number 180

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
305	305	292	110	400	7.0	57
457	457	292	255	915	11.0	58
305	610	292	225	810	10.0	59
457	610	292	340	1230	12.5	60
610	610	292	460	1650	16.0	63
762	610	292	575	2070	20.0	64

Table 19: Minipleat filter panels F782



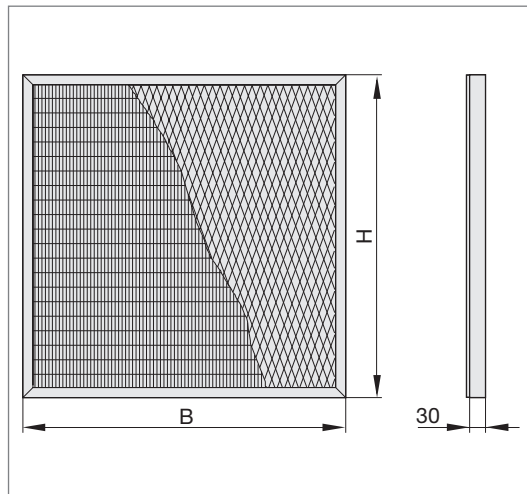
All weights are net, without packaging.

Detail

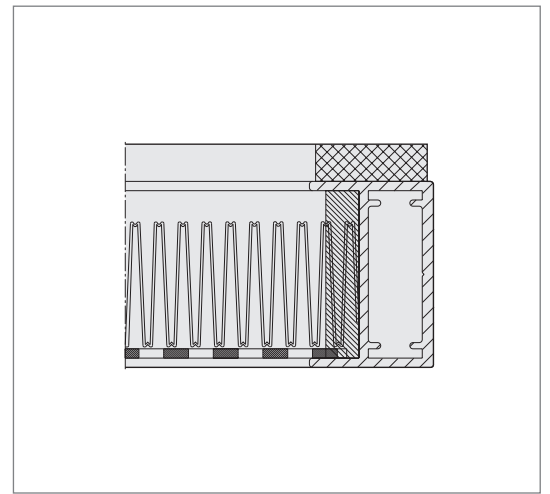
2 N = Frame made of extruded aluminium profile with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



Detail drawing 20: minipleat filter panels F780, F781, construction N, frame depth 30 mm



Detail drawing 21: Filter partial section

F780, F781:

6 Pleat depth 20 mm = code number 000

Order code

1	N	1	4	0
		2	3	

Order code

P	0	0	0	E
				6

Dimensions in mm			Nominal volume flow rate		Weight Approx.	Code no.
B	H	T	l/s	m ³ /h	kg	3
610	610	30	150	535	2.8	14
762	610	30	180	660	3.2	04
915	610	30	220	800	3.8	23
1220	610	30	300	1100	5.0	24
762	762	30	240	850	4.0	03

Table 20: Minipleat filter panels F780, F781

All weights are net, without packaging.

Construction Z

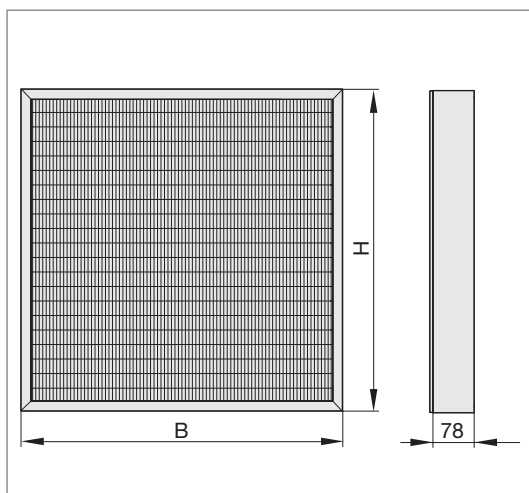
Frame depth: 78 mm

Detail

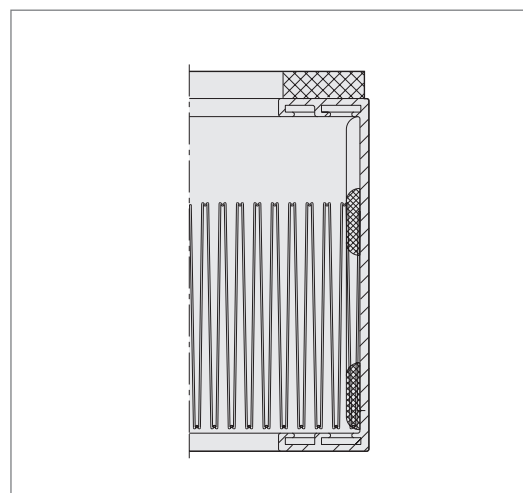
2 Z = Frame made of extruded aluminium profile with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



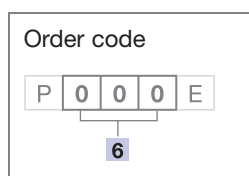
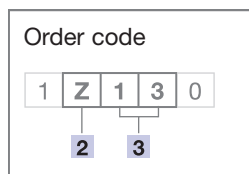
Detail drawing 22: minipleat filter panels F780, F781, F782, construction Z, frame depth 78 mm



Detail drawing 23: Filter partial section

F780, F781:

6 Pleat depth 50 mm = code number 000



All weights are net, without packaging.

Dimensions in mm			Nominal volume flow rate		Weight Approx.	Code no.
B	H	T	l/s	m³/h	kg	③
305	305	78	70	250	1.5	33
345	345	78	90	320	1.8	10
435	435	78	150	540	2.3	12
457	457	78	170	600	2.5	13
535	535	78	240	850	3.1	46
835	535	78	360	1300	4.2	47
1135	535	78	500	1800	5.2	48
575	575	78	270	970	3.4	49
305	610	78	150	540	2.5	01
610	610	78	310	1100	3.5	02
762	610	78	390	1400	4.0	05
915	610	78	470	1700	4.5	06
1220	610	78	610	2200	5.7	07
1525	610	78	760	2750	7.5	08
1830	610	78	920	3300	8.5	09
762	762	78	490	1750	5.5	21
915	762	78	580	2100	6.4	20
1220	762	78	780	2800	8.0	30
1525	762	78	970	3500	10.0	26
1830	762	78	1170	4200	12.0	27
915	915	78	690	2500	6.5	22
1220	915	78	930	3350	11.5	25
1525	915	78	1150	4150	13.0	28
1830	915	78	1390	5000	15.5	29

Table 21: Minipleat filter panels F780, F781

F782:

6 Pleat depth 50 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx.	Code no.
B	H	T	l/s	m³/h	kg	③
305	305	78	40	150	1.5	33
345	345	78	55	190	1.8	10
435	435	78	85	305	2.3	12
457	457	78	95	340	2.5	13
535	535	78	130	465	3.1	46
835	535	78	200	725	4.2	47
1135	535	78	275	985	5.2	48
575	575	78	150	535	3.4	49
305	610	78	85	300	2.5	01
610	610	78	170	605	3.5	02

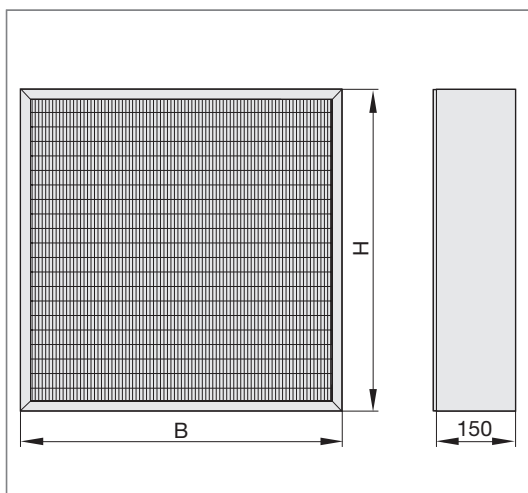
Table 22: Minipleat filter panels F782

Detail

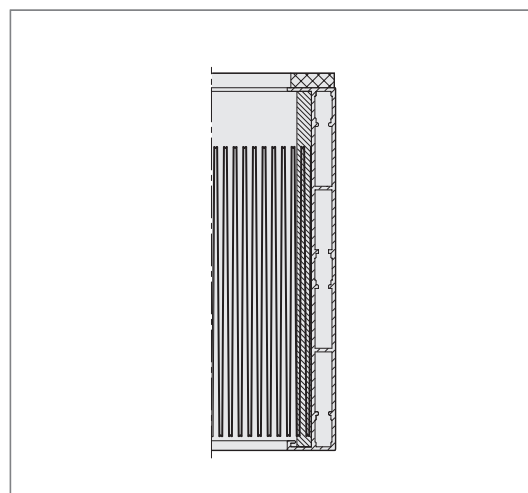
2 Y = Frame made of extruded aluminium profile with flat section seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



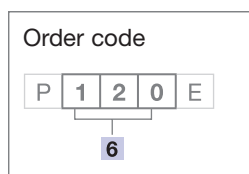
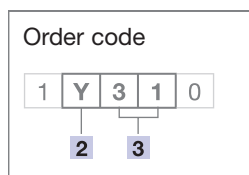
Detail drawing 24: minipleat filter panels F780, F781, F782, construction Y, frame depth 150 mm



Detail drawing 25: Filter partial section

F780, F781:

6 Pleat depth 50 mm = code number 000



Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	70	250	3.4	31
345	345	150	90	320	4.4	75
435	435	150	150	540	4.9	76
457	457	150	165	600	5.4	32
575	575	150	270	970	7.1	36
305	610	150	150	540	4.9	37
610	610	150	305	1100	7.6	38
762	610	150	390	1400	9.0	39
915	610	150	470	1700	10.5	40
1220	610	150	610	2200	13.0	41

Table 23: Minipleat filter panels F780, F781

F781:

6 Pleat depth 80 mm = code number 080

Code number 3Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	90	330	3.5	31
345	345	150	115	420	4.5	75
435	435	150	205	730	5.2	76
457	457	150	225	805	5.7	32
575	575	150	370	1325	7.7	36
305	610	150	195	700	5.3	37
610	610	150	415	1500	8.2	38
762	610	150	530	1900	9.7	39
915	610	150	640	2300	11.2	40
1220	610	150	860	3100	14.2	41

Table 24: Minipleat filter panels F781

All weights are net, without packaging.

F781:

6 Pleat depth 120 mm = code number 120

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	130	460	3.7	31
345	345	150	164	590	4.7	75
435	435	150	285	1025	5.3	76
457	457	150	315	1130	5.9	32
535	535	150	440	1585	7.3	74
575	575	150	515	1850	8.3	36
305	610	150	270	980	5.7	37
610	610	150	585	2100	8.8	38
762	610	150	730	2625	10.5	39
915	610	150	880	3150	12.2	40
1220	610	150	1170	4200	15.4	41

Table 25: Minipleat filter panels F781

F782:

6 Pleat depth 120 mm = code number 120

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. [3]
B	H	T	l/s	m³/h		
305	305	150	70	250	3.7	31
345	345	150	90	320	4.7	75
435	435	150	155	560	5.3	76
457	457	150	175	620	5.9	32
535	535	150	240	870	7.3	74
575	575	150	280	1015	8.3	36
305	610	150	150	535	5.7	37
610	610	150	320	1150	8.8	38
762	610	150	400	1435	10.5	39
915	610	150	480	1725	12.2	40
1220	610	150	640	2300	15.4	41

Table 26: Minipleat filter panels F782

Construction U

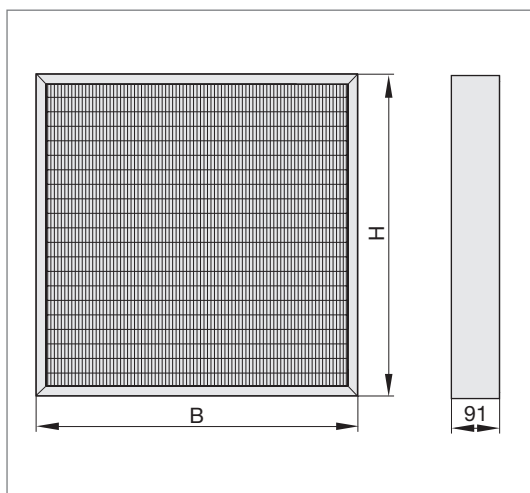
Frame depth: 91 mm

Detail

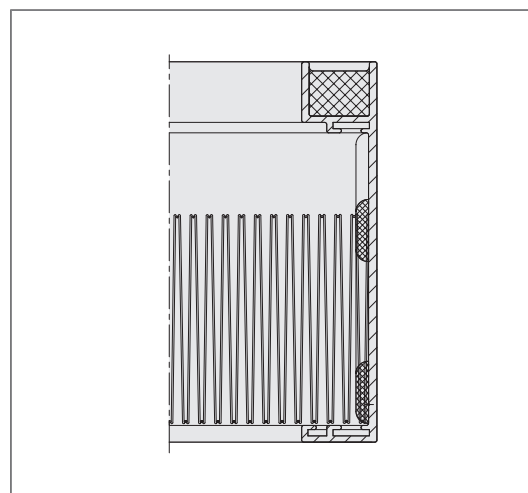
2 U = Frame made of extruded aluminium profile with fluid seal

Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm



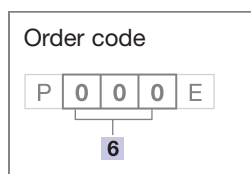
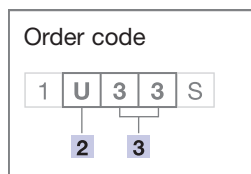
Detail drawing 26: minipleat filter panels F780, F781, F782, construction U, frame depth 91 mm



Detail drawing 27: Filter partial section

F781:

6 Pleat depth 50 mm = code number 000



Dimensions in mm			Nominal volume flow rate		Weight Approx.	Code no.
B	H	T	l/s	m ³ /h	kg	3
305	305	91	70	250	1.5	33
345	345	91	90	320	1.8	10
435	435	91	150	540	2.3	12
457	457	91	170	600	2.5	13
535	535	91	240	850	3.1	46
835	535	91	360	1300	4.2	47
1135	535	91	500	1800	5.2	48
575	575	91	270	970	3.4	49
610	610	91	310	1100	3.5	02

Table 27: Minipleat filter panels F781

F782:

6 Pleat depth 50 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx.	Code no.
B	H	T	l/s	m ³ /h	kg	3
305	305	91	40	150	1.5	33
345	345	91	55	190	1.8	10
435	435	91	85	305	2.3	12
457	457	91	95	340	2.5	13
535	535	91	130	465	3.1	46
835	535	91	200	725	4.2	47
1135	535	91	275	985	5.2	48
575	575	91	150	535	3.4	49
610	610	91	170	605	3.5	02

Table 28: Minipleat filter panels F782

All weights are net, without packaging.

Construction V / Specification text

Frame depth: 85 mm

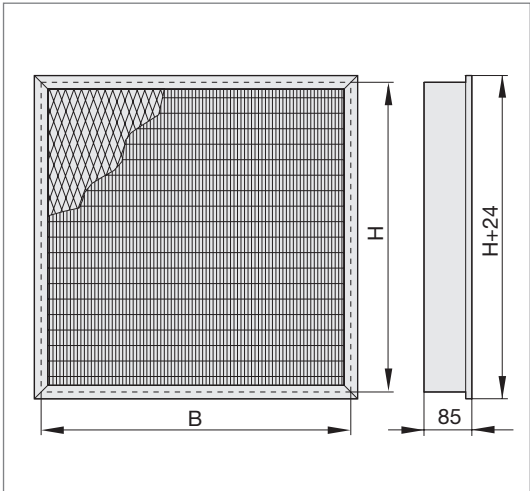
Detail

2 V = Frame made of extruded aluminium profile with fluid seal

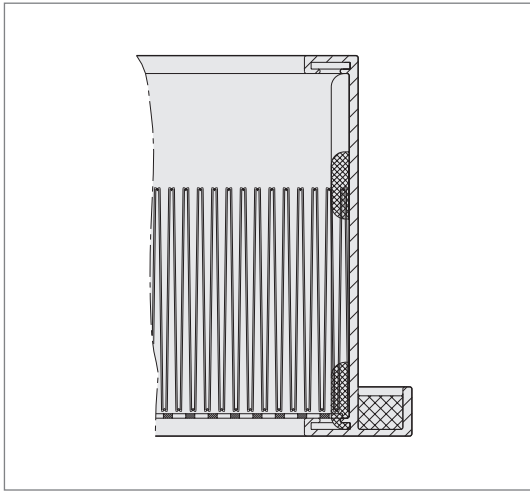
Technical data

Dimensional tolerance:
+ 0 mm
- 1 mm

All weights are net, without packaging.



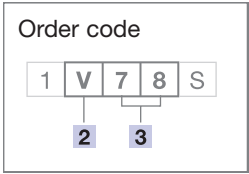
Detail drawing 28: minipleat filter panels F780, F781, F782, construction V, frame depth 85 mm



Detail drawing 29: Filter partial section

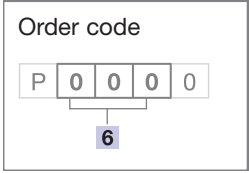
F780, F781:

6 Pleat depth 50 mm = code number 000



Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
295	295	85	65	240	2.5	77
395	395	85	125	450	4.0	78
495	495	85	200	725	5.0	79
520	520	85	220	800	5.5	80

Table 29: Minipleat filter panels F780, F781



F782:

6 Pleat depth 70 mm = code number 000

Dimensions in mm			Nominal volume flow rate		Weight Approx. kg	Code no. 3
B	H	T	l/s	m ³ /h		
295	295	85	45	170	2.5	77
395	395	85	90	315	4.0	78
495	495	85	140	510	5.0	79
520	520	85	155	565	5.5	80

Table 30: Minipleat filter panels F782

Specification

TROX minipleat filter panels F780, F781 and F782:

- » Frame made of MDF, galvanised sheet steel, stainless sheet steel, or extruded aluminium profile.
- » Filter pack made of high-quality, moisture-resistant glass-fibre paper with spacers made of thermoplastic hot-melt adhesive.
- » Tested according to EN 1822.
- » Minipleat filter panels F781 and F782. Leakage-tested at the factory according to EN 1822.
- » Packed in stable carton suitable for transport.

Technical data:

Filter class according to EN 779 _____
 Efficiency (MPPS) according to EN 1882 _____ %
 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

TROX[®] TECHNIK TROX GmbH
The art of handling air

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Filters

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