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Product information Wall-mounted filter system

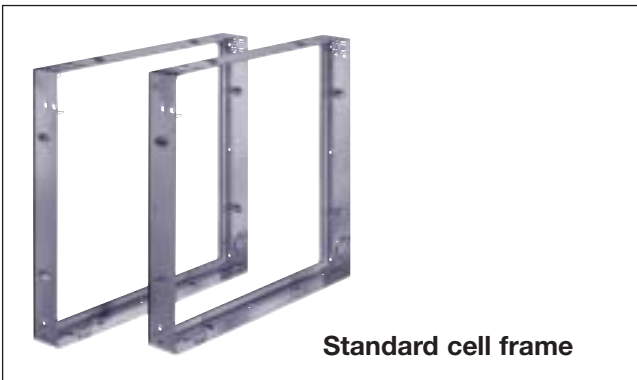
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Filter wall

Filter wall

A filter wall is made up by combining a number of standard cell frames – up to six units high and any number of units in width – in frame size increments. The static strength of the filter wall is ensured by vertical steel strips which are bolted to the cell frames and extend over the full height of the filter wall.



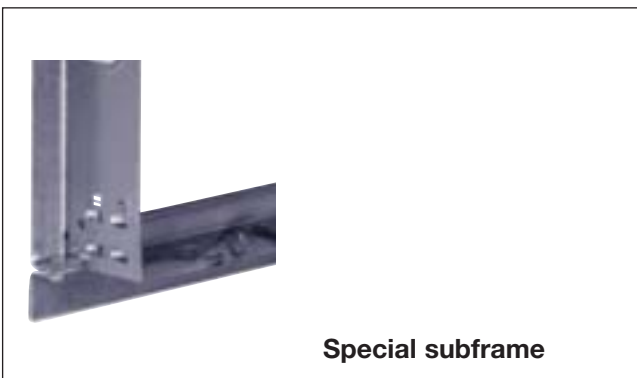
Standard cell frame

Standard cell frame

The standard cell frame consists of either a galvanised sheet steel section or stainless steel section and is supplied with a continuous foam seal, according to the filter medium selected.

A clamping device comprising four spring clips ensures a secure and permanent seal between cell frame and filter medium.

The spring clips are easy to use and make changing the filter quick and effortless.



Special subframe

Special subframe

The special subframe ensures simple and quick erection process at a realistic price. The flat section subframe is inserted into the groove in the cell frame and bolted together only at the four corners. There is no need to adjust its size, as dimensional tolerances can be taken up by the depth of the groove.

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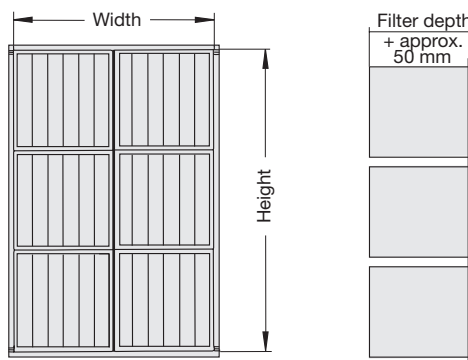
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The standard cell frame is the basic element for accommodating

- bag filter inserts
- minipleat filter inserts
- activated carbon inserts
- filter pads and
- Z-line filters.

The flow rate is to be selected in accordance with the filter media and the related system size.
In the selection table an example is given for a bag filter insert.
The flow rate is
3400 m³/h for the size 610 x 610 mm and
1700 m³/h for the size 305 x 610 mm.

Dimensions



Filter systems with vertical steel strips and special subframe

Height [mm] Cell frame No. vertical	Width [mm] Cell frame No. horizontal	610 1 x 610/610	919 1 x 610/610 + 1 x 305/610	1225 2 x 610/610	1535 2 x 610/610 + 1 x 305/610	1840 3 x 610/610	2145 3 x 610/610 + 1 x 305/610	2450 4 x 610/610	2763 4 x 610/610 + 1 x 305/610	3068 5 x 610/610	3377 5 x 610/610 + 1 x 305/610	3683 6 x 610/610
610 1 x 610/610	Flow rate in m ³ /h	3400	5100	6800	8500	10200	11900	13600	15300	17000		
	Number of cell frames	1	1 + 1/2	2	2 + 1/2	3	3 + 1/2	4	4 + 1/2	5		
	n x vertical steel strip											
	Special subframe	B221 CC0	B221 CE0	B221 CG0	B221 CJ0	B221 CL0	B221 CN0	B221 CQ0	B221 CS0	B221 CU0		
915 1 x 610/610 + 1 x 610/305	Flow rate in m ³ /h	5100		10200		15300		20400		25500		
	Number of cell frames	1 + 1/2		2 + 2/2		3 + 3/2		4 + 4/2		5 + 5/2		
	n x vertical steel strip			1xB221 CA0		2xB221 CA0		3xB221 CA0		4xB221 CA0		
	Special subframe	B221 CC1		B221 CG1		B221 CL1		B221 CQ1		B221 CU1		
1220 2 x 610/610	Flow rate in m ³ /h	6800	10200	13600	17000	20400	23800	27200	30600	34000	37400	40800
	Number of cell frames	2	2 + 2/2	4	4 + 2/2	6	6 + 2/2	8	8 + 2/2	10	10 + 2/2	12
	n x vertical steel strip		1xB221 CA2	1xB221 CA2	2xB221 CA2	2xB221 CA2	3xB221 CA2	3xB221 CA2	4xB221 CA2	4xB221 CA2	5xB221 CA2	5xB221 CA2
	Special subframe	B221 CC3	B221 CE1	B221 CG3	B221 CJ1	B221 CL3	B221 CN1	B221 CQ3	B221 CS1	B221 CU3	B221 CW1	B221 CY3
1525 2 x 610/610 + 1 x 610/305	Flow rate in m ³ /h	8500		17000		25500		34000		42500		51000
	Number of cell frames	2 + 1/2		4 + 2/2		6 + 3/2		8 + 4/2		10 + 5/2		12 + 6/2
	n x vertical steel strip			1xB221 CA3		2xB221 CA3		3xB221 CA3		4xB221 CA3		5xB221 CA3
	Special subframe	B221 CC4		B221 CG4		B221 CL4		B221 CQ4		B221 CU4		B221 CY4
1830 3 x 610/610	Flow rate in m ³ /h	10200	15300	20400	25500	30600	35700	40800	45900	51000	56100	61200
	Number of cell frames	3	3 + 3/2	6	6 + 3/2	9	9 + 3/2	12	12 + 3/2	15	15 + 3/2	18
	n x vertical steel strip		1xB221 CA5	1xB221 CA5	2xB221 CA5	2xB221 CA5	3xB221 CA5	3xB221 CA5	4xB221 CA5	4xB221 CA5	5xB221 CA5	5xB221 CA5
	Special subframe	B221 CC6	B221 CE2	B221 CG6	B221 CJ2	B221 CL6	B221 CN2	B221 CQ6	B221 CS2	B221 CU6	B221 CW2	B221 CY6
2135 3 x 610/610 + 1 x 610/305	Flow rate in m ³ /h	11900		23800		35700		47600		59500		71400
	Number of cell frames	3 + 1/2		6 + 2/2		9 + 3/2		12 + 4/2		15 + 5/2		18 + 6/2
	n x vertical steel strip			1xB221 CA6		2xB221 CA6		3xB221 CA6		4xB221 CA6		5xB221 CA6
	Special subframe	B221 CC7		B221 CG7		B221 CL7		B221 CQ7		B221 CU7		B221 CY7
2440 4 x 610/610	Flow rate in m ³ /h	13600	20400	27200	34000	40800	47600	54400	61200	68000	74800	81600
	Number of cell frames	4	4 + 4/2	8	8 + 4/2	12	12 + 4/2	16	16 + 4/2	20	20 + 4/2	24
	n x vertical steel strip		1xB221 CA8	1xB221 CA8	2xB221 CA8	2xB221 CA8	3xB221 CA8	3xB221 CA8	4xB221 CA8	4xB221 CA8	5xB221 CA8	5xB221 CA8
	Special subframe	B221 CC9	B221 CE3	B221 CG9	B221 CJ3	B221 CL9	B221 CN3	B221 CQ9	B221 CS3	B221 CU9	B221 CW3	B221 CY9
2745 4 x 610/610 + 1 x 610/305	Flow rate in m ³ /h			30600		45900		61200		76500		91800
	Number of cell frames			8 + 2/2		12 + 3/2		16 + 4/2		20 + 5/2		24 + 6/2
	n x vertical steel strip			1xB221 CA9		2xB221 CA9		3xB221 CA9		4xB221 CA9		5xB221 CA9
	Special subframe			B221 CH0		B221 CM0		B221 CR0		B221 CV0		B221 CZ0
3050 5 x 610/610	Flow rate in m ³ /h			34000	42500	51000	59500	68000	76500	85000	93500	102000
	Number of cell frames			10	10 + 5/2	15	15 + 5/2	20	20 + 5/2	25	25 + 5/2	30
	n x vertical steel strip			1xB221 CB1	2xB221 CB1	2xB221 CB1	3xB221 CB1	3xB221 CB1	4xB221 CB1	4xB221 CB1	5xB221 CB1	5xB221 CB1
	Special subframe			B221 CH2	B221 CJ4	B221 CM2	B221 CN4	B221 CR2	B221 CS4	B221 CV2	B221 CW4	B221 CZ2