

FLOWBAR SLOT DIFFUSER

We Care For The Air You Breathe



M

Flowbar Slot Diffuser Index

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FLOWBAR SLOT DIFFUSERS (FTFB-F)

VERTICAL THROW MODEL (FTFB-F)

Flowbar Slot Diffuser designed for high air flow quantities, suitable for ceiling applications.

Air pattern can be controlled using pattern controllers, powder coated black, if required.

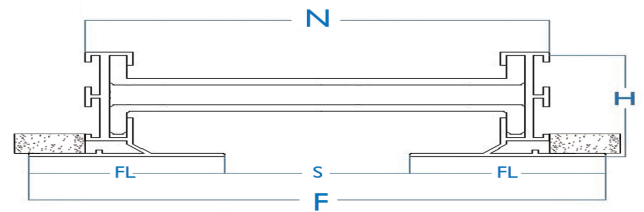
Curve is available upon request for 1 Slot Flowbar Diffuser

Flowbar 3 Slot Diffuser is available upon request



DIMENSION AND DETAILS (1 SLOT)

	FL	S	N	F	H
1 Slot (20 mm)	41	20	65	102	42
1 Slot (25 mm)	41	25	70	107	42
1 Slot (38 mm)	48	38	95	134	42
1 Slot (51 mm)	54	51	121	159	42

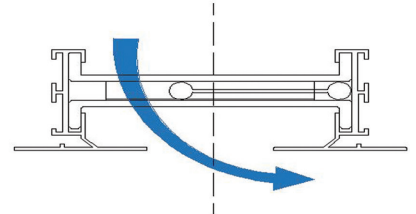
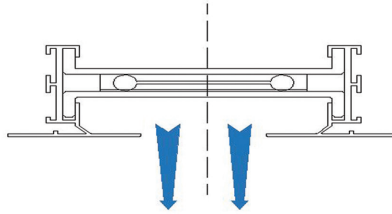
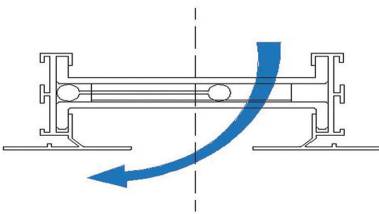


AIR MOVEMENT

Horizontal Left

Vertical

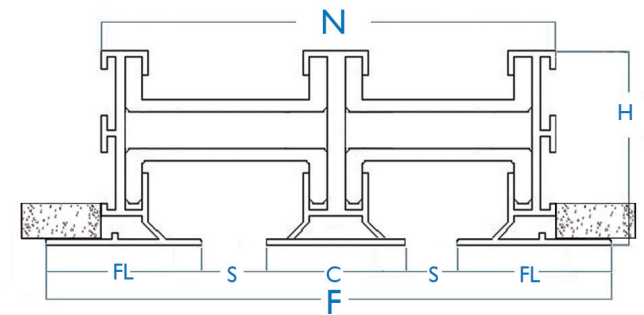
Horizontal Right



DIMENSION AND DETAILS (2 SLOT)



	FL	S	C	N	F	H
2 Slot (23 mm)	41	23	41	132	170	42
2 Slot (42 mm)	48	42	41	182	220	42
2 Slot (62mm)	54	62	41	235	273	42

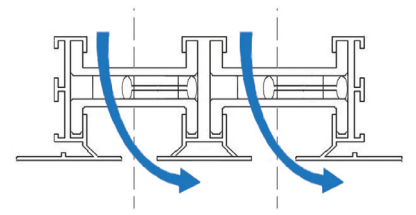
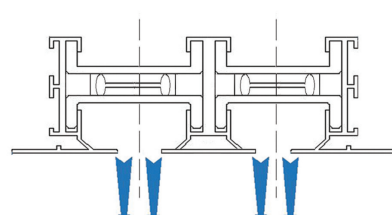
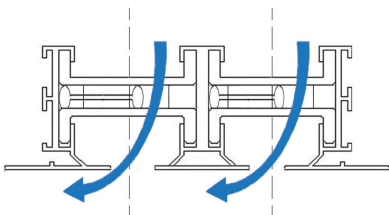


AIR MOVEMENT

Horizontal Left

Vertical

Horizontal Right



FLOWBAR SLOT DIFFUSERS - HIDDEN FRAME (FTFB-HF - 45°)

VERTICAL THROW MODEL (FTFB-HF)

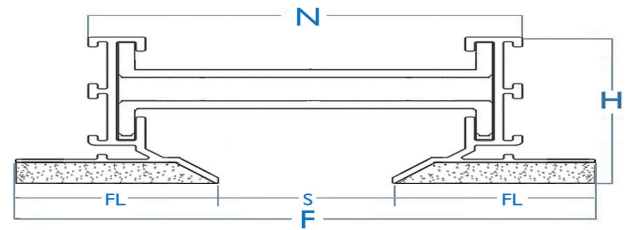
Flowbar Slot Diffuser designed for high air flow quantities, suitable for ceiling applications.

Air pattern can be controlled using pattern controllers, powder coated black, if required.



DIMENSION AND DETAILS (1 SLOT)

	FL	S	N	F	H
1 Slot (20 mm)	41	20	65	102	42
1 Slot (25 mm)	41	25	70	107	42
1 Slot (38 mm)	48	38	95	134	42
1 Slot (51 mm)	54	51	121	159	42

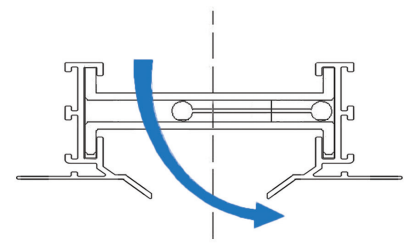
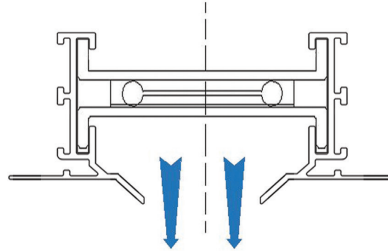
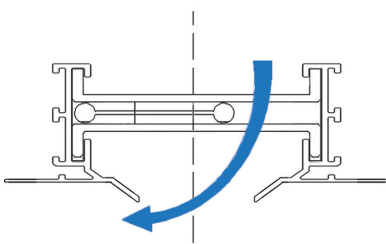


AIR MOVEMENT

Horizontal Left

Vertical

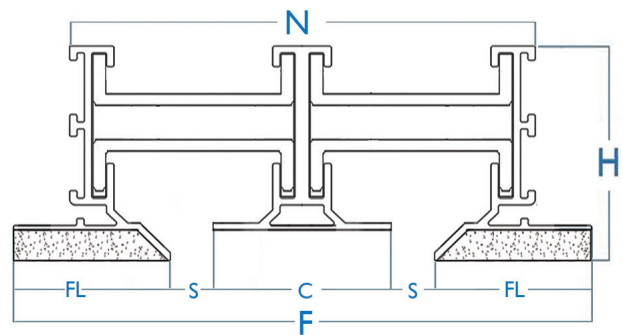
Horizontal Right



DIMENSION AND DETAILS (2 SLOT)



	FL	S	C	N	F	H
2 Slot (23 mm)	41	23	41	132	170	42
2 Slot (42 mm)	48	42	41	182	220	42
2 Slot (62mm)	54	62	41	235	273	42

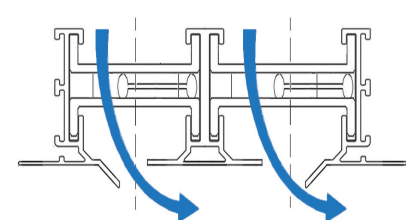
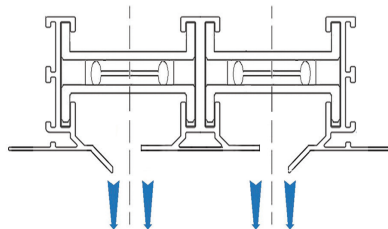
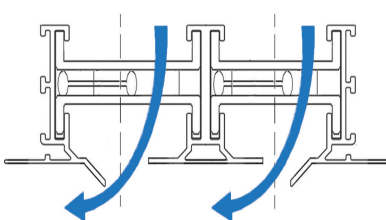


AIR MOVEMENT

Horizontal Left

Vertical

Horizontal Right



FLOWBAR SLOT DIFFUSERS - PLASTER HIDDEN FRAME (FTFB-PHF-45°)

HORIZONTAL THROW MODEL (FTFB-PHF)

Flowbar Slot Diffuser Plaster Hidden Frame is designed for high air flow quantities.

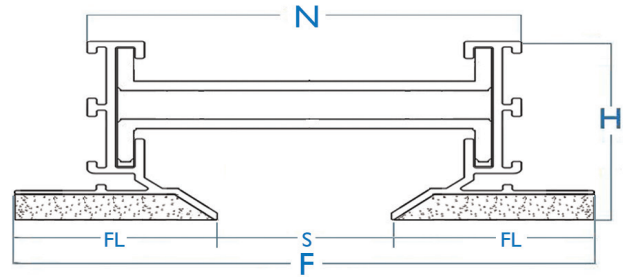
Air pattern can be controlled using pattern controllers, powder coated black, if required.

Plaster Hidden Frame design

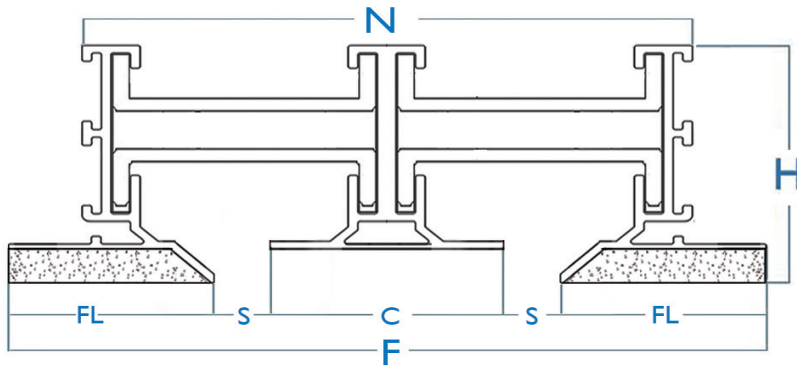


DIMENSION AND DETAILS (1 SLOT)

	FL	S	N	F	H
1 Slot (20 mm)	41	20	65	102	42
1 Slot (25 mm)	41	25	70	107	42
1 Slot (38 mm)	48	38	95	134	42
1 Slot (51 mm)	54	51	121	159	42



DIMENSION AND DETAILS (2 SLOT)



	FL	S	C	N	F	H
2 Slot (23 mm)	41	23	41	132	170	42
2 Slot (42 mm)	48	42	41	182	220	42
2 Slot (62mm)	54	62	41	235	273	42



FLOWBAR SLOT DIFFUSERS - HIDDEN FRAME (FTFB-HF-90°)

VERTICAL THROW MODEL (FTFB-HF)

Flowbar Slot Diffuser designed for high air flow quantities, suitable for ceiling applications.

Air pattern can be controlled using pattern controllers, powder coated black, if required.

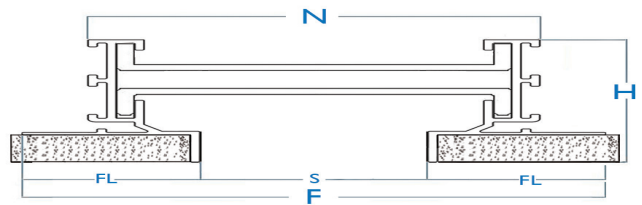
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DIMENSION AND DETAILS (1 SLOT)

	FL	S	N	F	H
1 Slot (20 mm)	41	20	65	102	42
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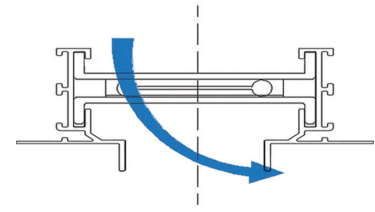
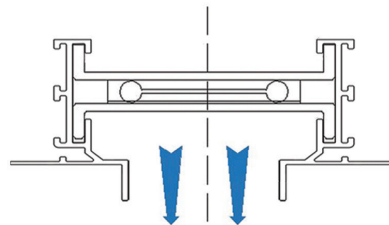
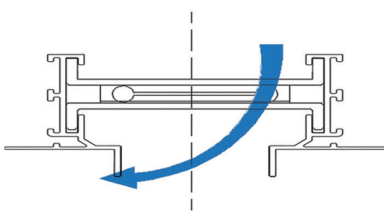


AIR MOVEMENT

Horizontal Left

Vertical

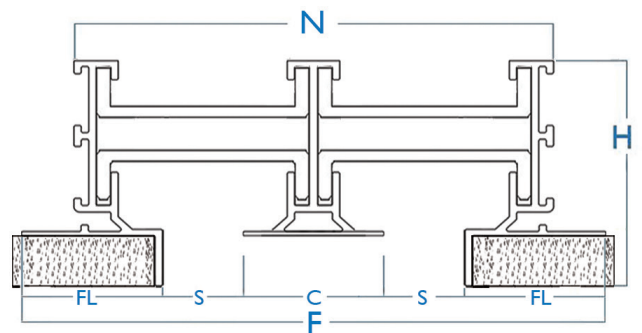
Horizontal Right



DIMENSION AND DETAILS (2 SLOT)



	FL	S	C	N	F	H
2 Slot (23 mm)	41	23	41	132	170	42
2 Slot (42 mm)	48	42	41	182	220	42
2 Slot (62mm)	54	62	41	235	273	42

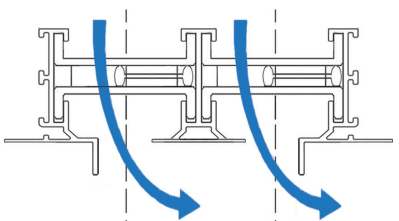
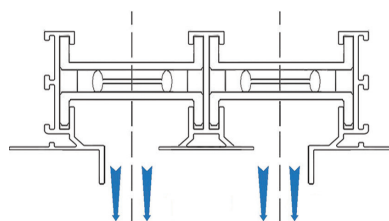
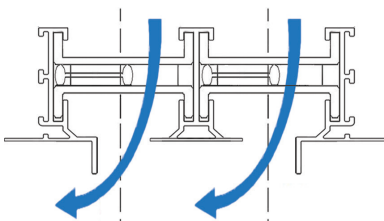


AIR MOVEMENT

Horizontal Left

Vertical

Horizontal Right



GENERAL NOTES

1. All pressures are given in Pascal (Pa).
2. Pressure loss data assumes a duct velocity less than 4m/sec in the inlet duct
3. The test were conducted with no Plenum effect for pressure or sound.
4. Isothermal throw values are given for terminal velocities of 0.3, 0.5, and 0.8 m/sec.
5. Throw values for High Throw units are based on a 1-way discharge from the slot.
6. Throw data are based on active sections 1200mm active section.
7. For a 600mm section, the throw values are 0.72 times those shown. For a 3000m continuous length, the throw values are 1.7 times those shown, 1.8 for 3600mm units.
8. Throws listed are for the 1-way air pattern. For divided airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots.
9. Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure in any of the octave bands, 2nd through 7th, with a room absorption of 10dB, re 1012 Watts, for a 1200mm section, (See Table A for other lengths). For supply units used as a return, add 3 NC.

PERFORMANCE DATA (FTFB-F / FTFB-HF 450 / FTFB-HF 900)

1 SLOT								
20 mm Slot Width	Air Flow (l/s-m)	28	49	65	83	103	119	137
	Static Pressure, Pa	4	17	28	46	70	92	122
	NC (Noise Criteria)	<15	17	23	32	41	46	50
	Throw (m)	1.2-2.4-4.7	2.8-4.1-6.0	3.7-5.0-7.0	4.7-5.5-7.9	5.2-6.4-8.9	5.4-6.8-9.8	6.0-7.1-10.3
25 mm Slot Width	Air Flow (l/s-m)	36	58	79	101	122	144	165
	Static Pressure, Pa	7	18	34	55	81	112	148
	NC (Noise Criteria)	<10	16	26	33	39	44	49
	Throw (m)	1.5-2.5-4.3	2.8-4-5.5	3.8-4.5-6.5	4.3-5.3-7.3	4.5-5.8-8.3	5.3-6-8.8	5.5-6.8-9.5
38 mm Slot Width	Air Flow (l/s-m)	43	65	86	108	129	151	173
	Static Pressure, Pa	8	18	32	51	73	99	129
	NC (Noise Criteria)	<10	14	24	31	37	42	48
	Throw (m)	1.8-3-5	3-4.3-5.8	4-5-6.8	4.3-5.5-7.5	5-5.8-8.3	5.3-6.5-8.8	5.5-6.8-9.8
51 mm Slot Width	Air Flow (l/s-m)	43	72	101	129	158	187	216
	Static Pressure, Pa	5	14	28	46	68	95	127
	NC (Noise Criteria)	<10	11	22	30	36	41	46
	Throw (m)	1.5-2.8-5	2.8-4.3-6	4-5.3-7.3	5-5.8-8.3	5.3-6.5-9.3	5.8-7-10	6-7.5-10.8

2 SLOT								
23 mm Slot Width	Air Flow (l/s-m)	36	58	79	101	122	144	165
	Static Pressure, Pa	4	9	20	30	42	51	62
	NC (Noise Criteria)	<10	<15	<15	25	30	33	38
	Throw (m)	1.0-1.2-2.1	1.4-2-2.8	1.9-2.3-3.3	2.2-2.7-3.6	2.3-2.9-4.2	2.7-3-4.4	2.8-3.4-4.8
42 mm Slot Width	Air Flow (l/s-m)	43	65	86	108	129	151	173
	Static Pressure, Pa	4	9	19	23	35	40	52
	NC (Noise Criteria)	<10	<15	<15	20	30	32	35
	Throw (m)	1-1.5-2.5	1.5-2.2-2.9	2-2.5-3.4	2.2-2.8-3.7	2.5-2.9-4.2	2.7-3.3-4.4	2.8-3.4-4.9
62 mm Slot Width	Air Flow (l/s-m)	43	72	101	129	158	187	216
	Static Pressure, Pa	3	7	14	21	31	38	51
	NC (Noise Criteria)	<10	<15	<15	18	20	30	35
	Throw (m)	1.0-1.4-2.5	1.4-2.2-3	2-2.6-3.4	2.5-2.9-4.2	2.7-3.2-4.7	2.9-3.5-5	3-3.8-5.4

Length (mm)	600	1200	1800	2400	3000
Supply	- 3	0	+ 2	+ 3	+ 5
Return	0	+ 3	+ 5	+ 6	+ 8

Length (mm)	600	1200	2400	3000	3600
Throw Correction	0.72	1	1.5	1.7	1.8