



AIR CONTROL INDUSTRY



FLOW BAR DIFFUSERS

QUICK FACTS

- ▶ All Flex flow bar diffuser are designed to be flushed with ceiling tile and serve ceiling mounted applications. No flange is visible and the view of a black opening into the ceiling gives a high-class finish to the interior.
- ▶ This model can handle more air volume per length for the same opening as compared to regular slot diffuser.
- ▶ The deflector is sandwiched between U-Channels to control the direction of air flow. The U channels are spring loaded for smooth operation of deflector.

QUALITY ASSURANCE

An ISO 9001:2015 certified company
Product tested and approved by ETL testing laboratories USA





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INTRODUCTION

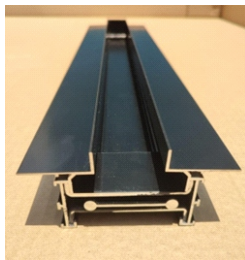
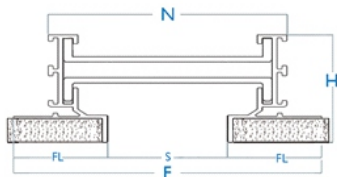
Flex Flow Bar is an architecturally designed high capacity linear slot diffuser. It is designed to combine a high air handling capacity with maximum flexibility and is suitable for either ceiling or sidewall applications. The flexibility of the system can blend into a design or provide contrast with its striking but simple design. Flow Bar is a flexible system that can provide straight lines or curves to blend with other architectural elements and enhance the overall concept of the project.

STANDARD FINISHES

Powder coated frame as per RAL colour codes with black interior.

AVAILABLE MODELS

- 1.Flowbar_25 (FB25)
- 2.Flowbar_38 (FB38)
- 3.Flowbar_51 (Fb51)



Flow bar Diffusers - Dimensions

MODEL	N (mm)	S (mm)
FB25	70	25
FB38	80	38
FB51	94	51
H-41mm & FL – 41mm		

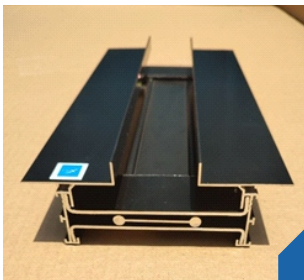


HIGH THROW FLEX FLOW BAR

- ▶ The Flex high throw series is primarily designed for ceiling applications and allows the air diffuser to become inconspicuous, whilst fully integrating into the ceiling system.
- ▶ The Flow Bar systems satisfy both architectural and engineering requirements for designing an air distribution system that will maintain optimum room air conditions whilst being efficient yet inconspicuous.

1. HTFlowbar_25 (HT/FB25)
2. HTFlowbar_38 (HT/FB38)
3. HTFlowbar_51 (HT/FB51)

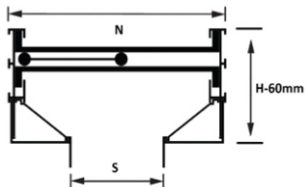
Flowbar Diffusers - Dimensions		
MODEL	N (mm)	S (mm)
HT/FB25 B/FB25	94	25
HT/FB38 B/FB38	107	38
HT/FB51 B/FB51	120	51



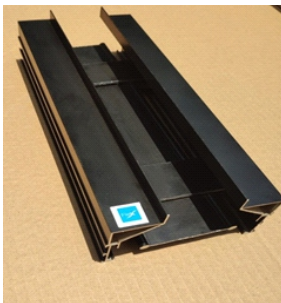
HIGH THROW FLOW BAR

BOX TYPE FLOW BAR

1. BoxFlowbar_25 (B/FB25)
2. BoxFlowbar_38 (B/FB38)
3. BoxFlowbar_51 (B/FB51)



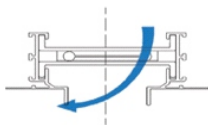
BOX TYPE FLOW BAR



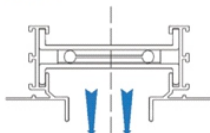


AIR MOVEMENT FOR ALL THE MODELS OF FLOW BAR

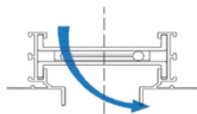
Horizontal Left



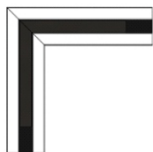
Vertical



Horizontal Right



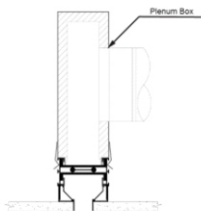
FIXING DETAILS



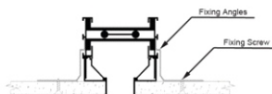
90° Corner



120° Corner



WITH PLENUM



WITH OUT PLENUM



ENGINEERING & PERFORMANCE DATA

HIGH THROW FLOW BAR - HT/FB25

Airflow lps	70	130	180	220	270	320	360
Pressure Pa	10	15	32	52	80	110	134
NC db	<15	<15	25	35	40	45	50
Throw mtr	1.5 2.5 4	2.5 4 5.5	3.5 4.3 6.5	4.5 5.5 7.5	4.8 5.9 8.4	5.2 6.2 9	5.5 6.8 9.6
Slot width mm	25	25	25	25	25	25	25

HIGH THROW FLOW BAR - HT/FB51

Airflow lps	80	170	240	295	360	423	485
Pressure Pa	10	14	28	40	54	75	95
NC db	<15	<15	24	29	35	40	45
Throw mtr	1.5 2.3 4.2	2.5 4.5 6	4 5.5 7.5	4.5 5.8 8.2	5 6.2 9	5.5 6.8 10	6 7.5 11
Slot width mm	51	51	51	51	51	51	51

HIGH THROW FLOW BAR - B/FB25

Airflow lps	80	130	180	230	280	330	380
Pressure Pa	8	15	32	52	80	110	150
NC db	<15	<15	25	35	40	45	50
Throw mtr	1.5 2.5 4.4	2.7 4.2 5.6	3.8 4.6 6.5	4.4 5.2 7.5	4.6 5.9 8.4	5.2 6.2 9	5.5 6.8 9.6
Slot width mm	25	25	25	25	25	25	25

HIGH THROW FLOW BAR - B/FB38

Airflow lps	85	140	200	250	310	370	420
Pressure Pa	6	14	28	41	50	68	99
NC db	<15	<15	25	32	38	41	48
Throw mtr	1.3 2.2 4.2	2.5 4.1 5.4	3.6 4.5 6.4	4.2 5 7.3	4.5 6 8.2	5.4 6.6 9.5	5.6 7 10
Slot width mm	38	38	38	38	38	38	38

HIGH THROW FLOW BAR - B/FB51

Airflow lps	90	160	230	290	350	415	480
Pressure Pa	5	13	27	40	54	75	95
NC db	<15	<15	24	29	35	40	45
Throw mtr	1.5 2.3 4.2	2.5 4.5 6	4 5.5 7.5	4.5 5.8 8.2	5 6.2 9	5.5 6.8 10	6 7.5 11
Slot width mm	51	51	51	51	51	51	51

- Data based on one meter length of the flow bar diffuser.
- Throw (meters) is measured for terminal velocities of 0.25, 0.5 & 0.75 m/sec.
- The given air flow data is for vertical throw.
- NC based on a room attenuation of 10dB.
- For horizontal throw reduce 45% from the above airflow value.



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