# AIR CONTROL INDUSTRY

## FLOW BAR DIFFUSERS

**QUALITY ASSURANCE**

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

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# FLOW BAR DIFFUSER

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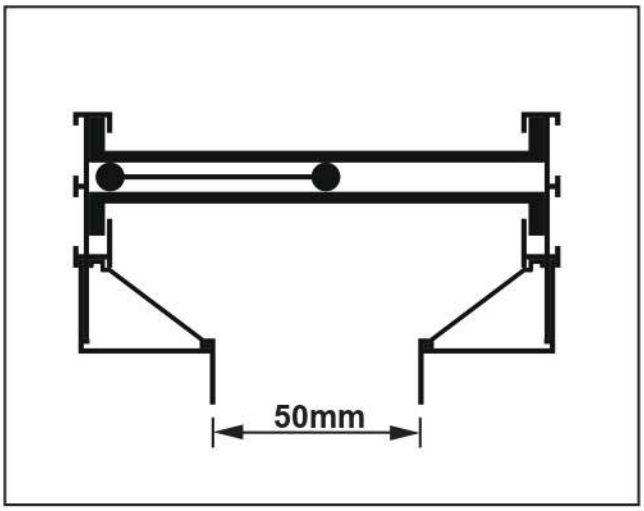
# FLOW BAR DIFFUSER

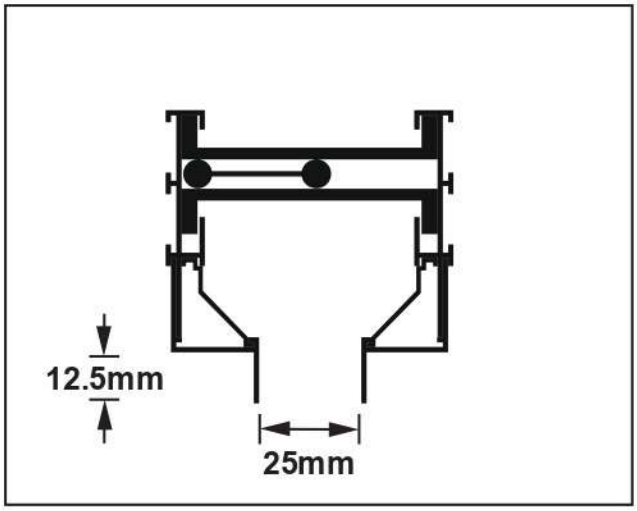
## CONSTRUCTION:

**Frame:** High quality extruded aluminium profile.
**Deflector:** Flat Aluminium profile with rounded edges.
**U-Channel:** Spring loaded Aluminium channels to hold deflector.

## DESCRIPTION:

- Air Control Flow Bar diffuser is specially designed to suit the contemporary architectural demands of modern-day interior designers. The seamless blending of slot diffusers in to the ceiling along with enhanced performance makes it a fine choice.
- AC_FB1 model flow Bar diffuser is 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.
- Multi slot options are not available for AC_FB1 model.
- Flow Bar 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.
- Air Control Flow Bar is equipped with special side deflector to channel the airflow smoothly towards the opening without any resistance to air flow thereby reducing the pressure drop and subsequently the noise level.
- White frame with black interior makes the finish more attractive.



# FLOW BAR DIFFUSER

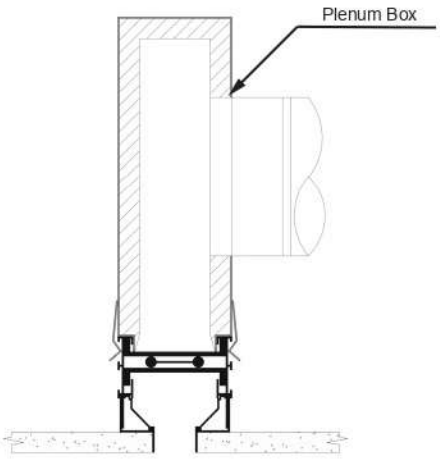
## STANDARD FINISHES:

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

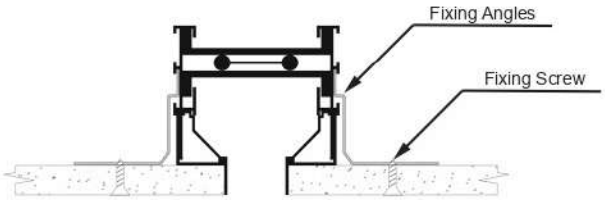
## SLOT OPENING:

- 25mm, 38mm and 50mm

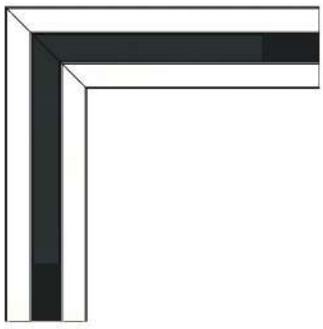
## FIXING DETAILS:



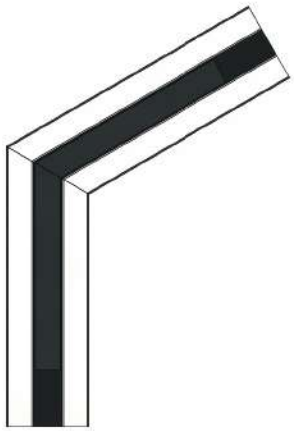

WITH PLENUM




WITH OUT PLENUM



90° Corner

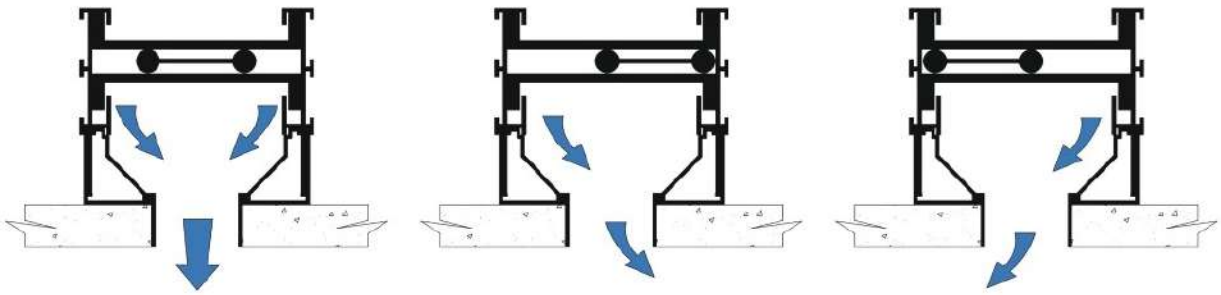


120° Corner

# PERFORMANCE DATA

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 25MM Slot | 1-Slot | Airflow, cfm/ft. | 25 | 40 | 55 | 70 | 85 | 100 | 115 |
| | | Static Pressure | 0.028 | 0.072 | 0.136 | 0.221 | 0.325 | 0.450 | 0.596 |
| | | NC (Noise Criteria) | <10 | 16 | 26 | 33 | 39 | 44 | 49 |
| | | Throw | 5-8-14 | 9-13-18 | 12-15-21 | 14-17-24 | 15-19-27 | 17-20-29 | 18-22-31 |
| | 2-Slot | Airflow, cfm/ft. | 50 | 75 | 100 | 125 | 150 | 175 | 200 |
| | | Static Pressure | 0.028 | 0.063 | 0.113 | 0.176 | 0.253 | 0.345 | 0.450 |
| | | NC (Noise Criteria) | <10 | 17 | 26 | 33 | 39 | 44 | 48 |
| | | Throw | 7-11-20 | 11-17-25 | 15-20-29 | 19-23-32 | 20-25-35 | 22-27-38 | 23-29-41 |
| 38MM Slot | 1-Slot | Airflow, cfm/ft. | 30 | 45 | 60 | 75 | 90 | 105 | 120 |
| | | Static Pressure | 0.032 | 0.073 | 0.130 | 0.203 | 0.292 | 0.398 | 0.520 |
| | | NC (Noise Criteria) | <10 | 14 | 24 | 31 | 37 | 42 | 48 |
| | | Throw | 6-10-16 | 10-14-19 | 13-16-22 | 14-18-25 | 16-19-27 | 17-21-29 | 18-22-32 |
| | 2-Slot | Airflow, cfm/ft. | 60 | 85 | 110 | 135 | 160 | 185 | 210 |
| | | Static Pressure | 0.032 | 0.065 | 0.109 | 0.164 | 0.231 | 0.309 | 0.398 |
| | | NC (Noise Criteria) | <10 | 16 | 24 | 31 | 36 | 41 | 45 |
| | | Throw | 9-14-22 | 13-19-27 | 17-21-30 | 19-24-33 | 21-26-36 | 23-28-39 | 24-29-42 |
| 50MM Slot | 1-Slot | Airflow, cfm/ft. | 30 | 50 | 70 | 90 | 110 | 130 | 150 |
| | | Static Pressure | 0.020 | 0.057 | 0.111 | 0.184 | 0.274 | 0.383 | 0.510 |
| | | NC (Noise Criteria) | <10 | 11 | 22 | 30 | 36 | 41 | 46 |
| | | Throw | 5-9-16 | 9-14-20 | 13-17-24 | 16-19-27 | 17-21-30 | 19-23-33 | 20-25-35 |
| | 2-Slot | Airflow, cfm/ft. | 60 | 95 | 130 | 165 | 200 | 235 | 270 |
| | | Static Pressure | 0.020 | 0.051 | 0.096 | 0.154 | 0.227 | 0.313 | 0.413 |
| | | NC (Noise Criteria) | <10 | 12 | 22 | 30 | 36 | 41 | 46 |
| | | Throw | 7-12-22 | 13-19-28 | 17-23-33 | 21-26-37 | 23-29-41 | 25-31-44 | 27-33-47 |

## AIR FLOW PATTERN:



VERTICAL

HORIZONTAL
RIGHT

HORIZONTAL
LEFT