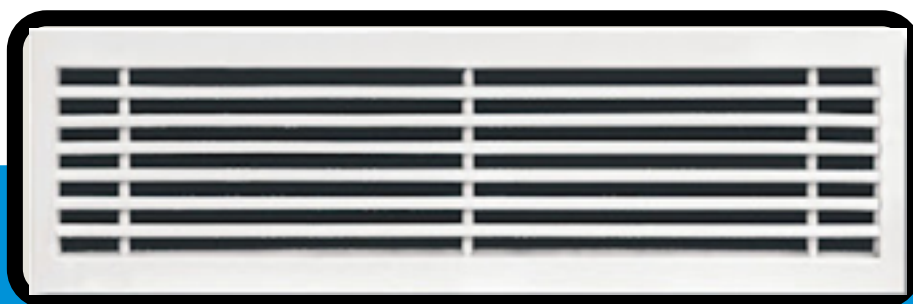




*Air Outlets*

# **Linear Bar Grilles & Register** **RLBG - SLBG - SLBR**



[Pro-airoutlets.com](http://Pro-airoutlets.com)

## TYPES

- RLBG : RETURN LINEAR BAR GRILLE.
- SLBG :SUPPLY LINEAR BAR GRILLE C/W BACK BLADE.
- SLBR : LINEAR BAR GRILLE C/W BACK BLADE &REGISTERS.

## FEATURES

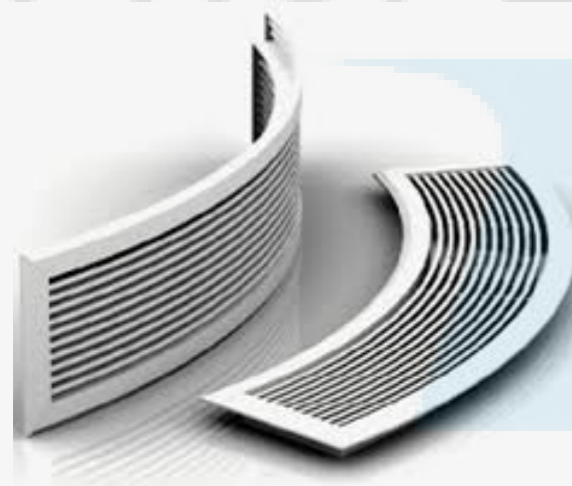
## MATERIALS

- LINEAR BAR GRILLES & DAMPER ARE MADE FROM EXTRUDED ALUMINIUM.

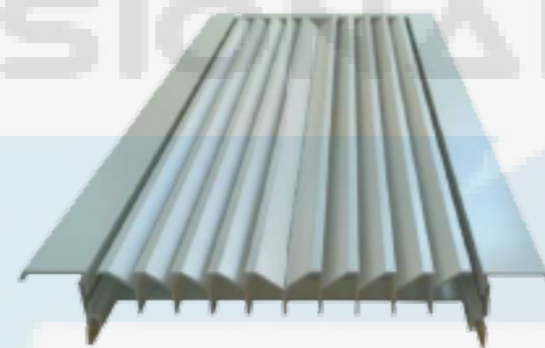
## FINISH

- STANDARD FINISH OF LINEAR BAR GRILLES& DAMPER IS SATIN ANODIZED OR POWDER COATED.

- LINEAR BAR GRILLE USED AS A SUPPLY OR RETURN GRILLE , IN ORDER TO DIFFUSE THE AIR CONDITIONING SYSTEMS AIR THROUGH A WALL OR CEILING , AS WELL.
- IT IS AN ELEGANT AND FUNCTIONAL SOLUTION FOR AIR DISCHARGE AND RETURN IN CIVIL AND COMMERCIAL PLANTS , CAN BE INSTALLED IN STORES, HOTELS, RESTAURANTS , HOSPITALS , CONFERENCE ROOMS, ETC..
- EXTRUDED ALUMINIUM CONSTRUCTION : MECHANICAL ASSEMBLY.
- BLADES SET AT 0° OR 15° DEFLECTION BARS ARE FIXED HORIZONTAL , WITH 13MM SPACING.
- SUPPLY OR RETURN AIR LINEAR GRILLE WITH FIXED HORIZONTAL PROFILED BLADES 3MM OR 5.5MM.
- THE FACE BARS ARE ASSEMBLED ON AN 8MM ALUMINIUM TUBE TO PRODUCE STRAIGHT, RIGID AND BLEMISH FREE ARE CORE SECTIONS.
- FRONT BORDER 33 MM WIDE.
- LINEAR BAR GRILLE MAY INCLUDE A REAR VERTICAL BLADES , THESE BLADES CAN BE ADJUSTED MANUALLY AND INDIVIDUALLY TO REACH OPTIMUM AIR DISTRIBUTION.
- LINEAR BAR GRILLE MAY INCLUDE OPPOSABLE BLADE DAMPER
- LINEAR BAR GRILLE ARE AVAILABLE IN DIFFERENT DIMENSION.



CURVED BAR



LINEAR CEILING DIFFUSER



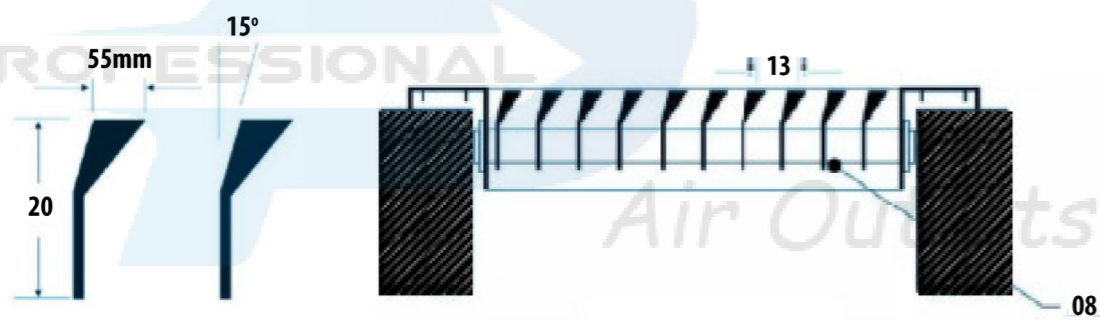
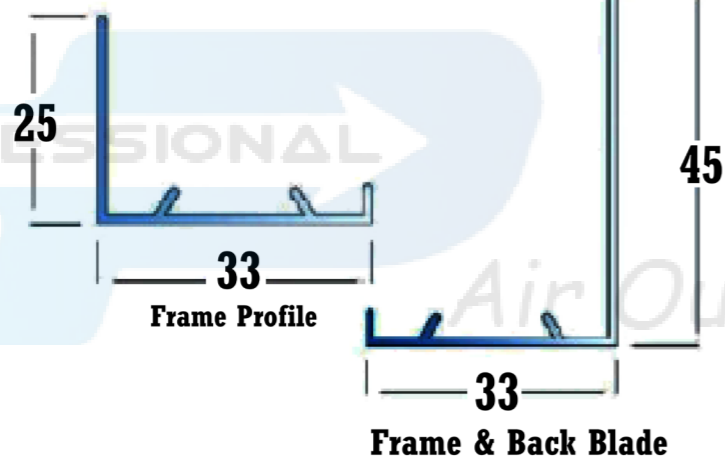
STRAIGHT BAR

## DIMENSIONAL DATA

### MODEL (1) 15° One Way Deflection

#### FRAME

33mm flange

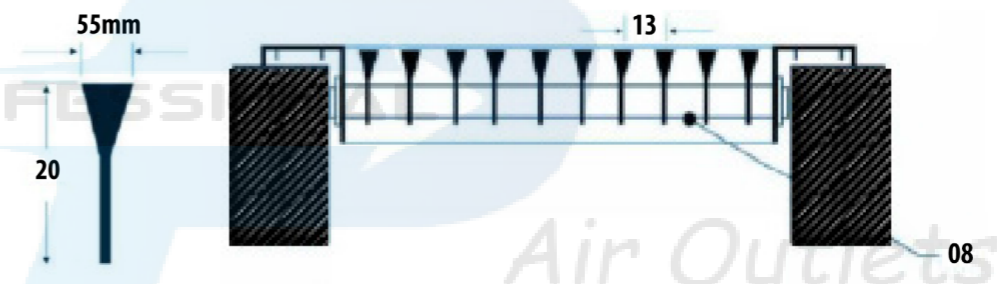
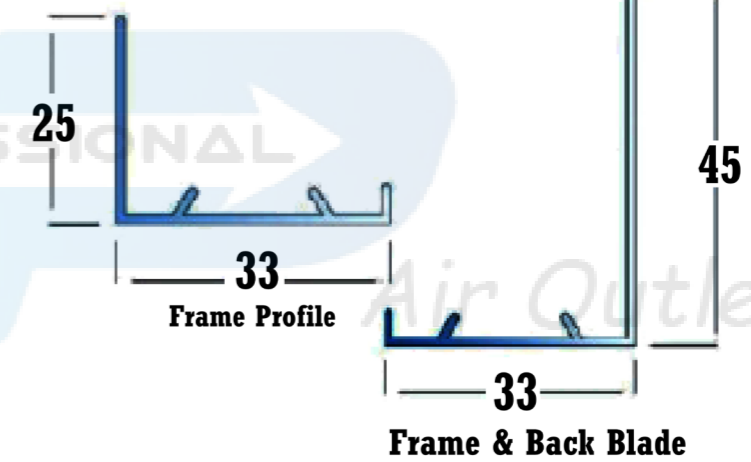


## DIMENSIONAL DATA

### MODEL (2) 15° Two Way Deflection

#### FRAME

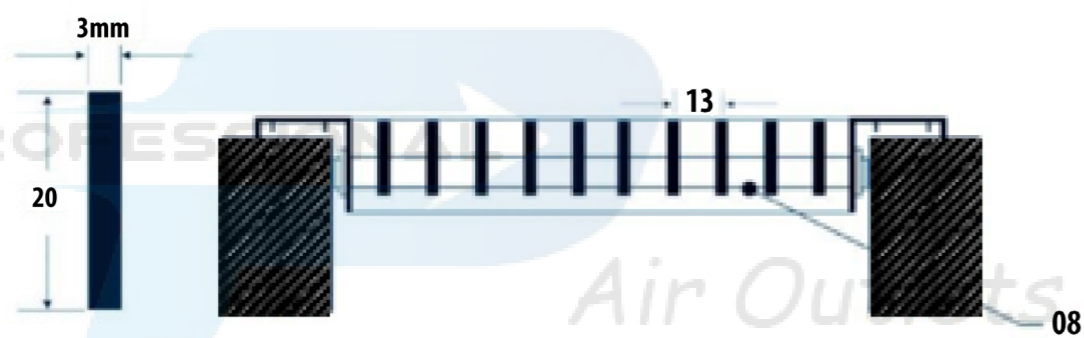
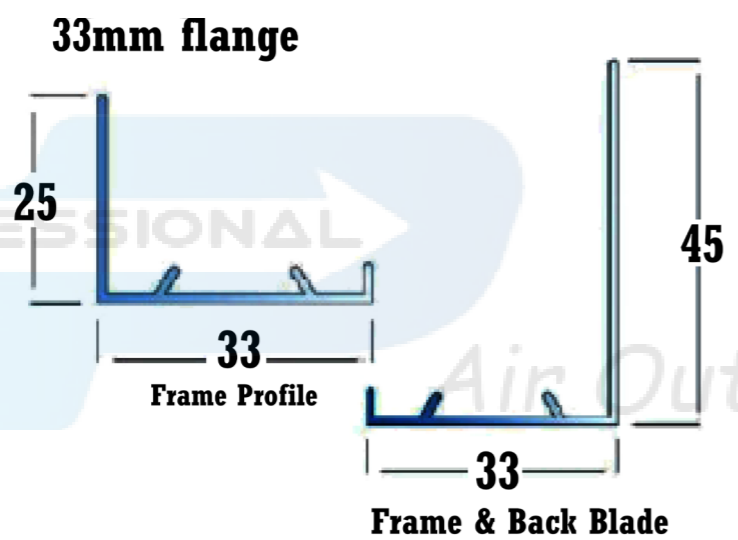
33mm flange



## DIMENSIONAL DATA

### MODEL (3) 0° Deflection

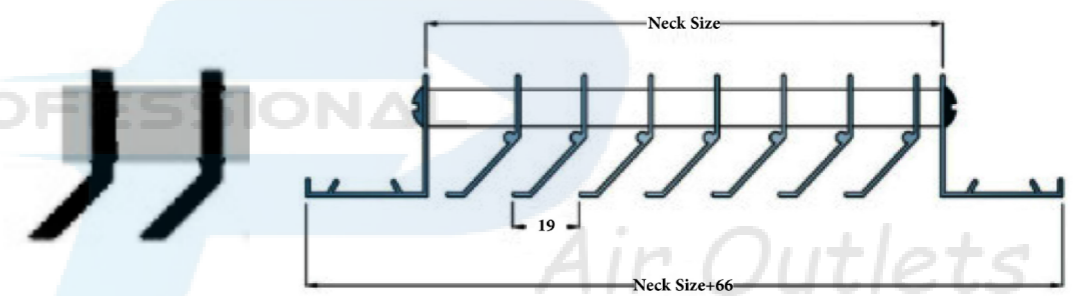
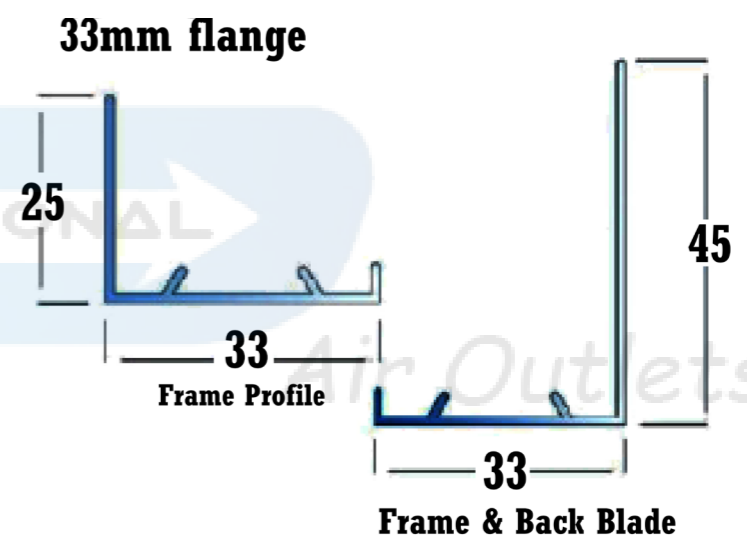
#### FRAME



## DIMENSIONAL DATA

### MODEL (4) One Way Linear Ceiling Diffusers

#### FRAME



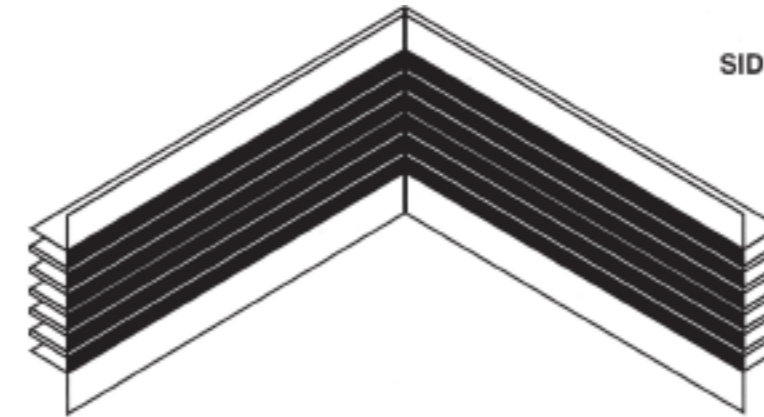
# PERFORMANCE DATA

# LINEAR BAR GRILL CLASSIFICATION

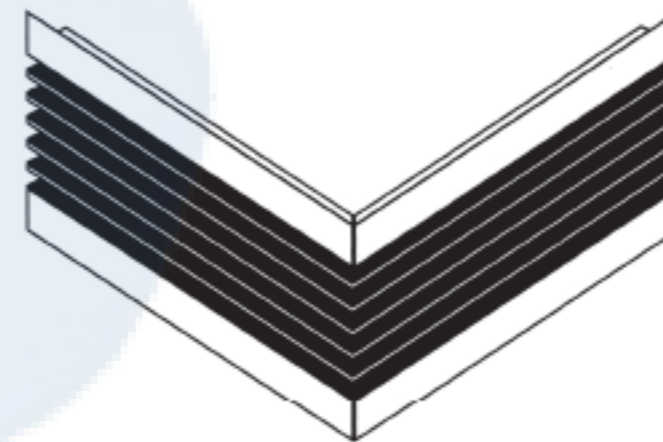
LINEAR BAR GRILLES & REGISTERS  
0° & 15° Deflection : ½" Spacing

| Listed sizes (In ) | Velocity (VK). Fpm             | 400         | 500   | 600   | 700   | 800   | 900   | 1000  | 1200  |       |
|--------------------|--------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| AK/FT.             | Total press . H <sub>2</sub> O | 0.013       | 0.02  | 0.028 | 0.038 | 0.05  | 0.062 | 0.077 | 0.11  |       |
| 1½"                | CFM/FT                         | 19          | 23    | 28    | 32    | 37    | 42    | 46    | 55    |       |
|                    | NC                             | 15          | 25    | 30    | 32    | 35    | 40    | 45    | 50    |       |
|                    | Throw , FT.                    | Side wall   | 5-8   | 6-10  | 8-12  | 9-14  | 10-16 | 12-19 | 13-21 | 15-25 |
| AK = .046          |                                | Floor ,sill | 5-6   | 5-8   | 6-10  | 7-12  | 8-13  | 9-14  | 10-16 | 13-20 |
|                    | CFM/FT                         | 28          | 35    | 42    | 48    | 55    | 62    | 69    | 83    |       |
|                    | NC                             | 13          | 18    | 23    | 28    | 32    | 35    | 40    | 5     |       |
| 2"                 | Throw , FT.                    | Side wall   | 6-10  | 8-13  | 9-15  | 11-18 | 13-20 | 14-23 | 16-25 | 19-30 |
|                    |                                | Floor ,sill | 5-8   | 6-10  | 7-12  | 9-14  | 10-16 | 11-18 | 13-20 | 15-23 |
|                    | CFM/FT                         | 37          | 46    | 55    | 65    | 74    | 83    | 92    | 110   |       |
| 2½"                | NC                             | 13          | 18    | 23    | 28    | 32    | 35    | 40    | 45    |       |
|                    | Throw , FT.                    | Side wall   | 7-12  | 9-15  | 11-17 | 13-20 | 15-23 | 16-26 | 18-29 | 22-35 |
|                    |                                | Floor ,sill | 5-9   | 7-12  | 9-14  | 11-16 | 12-18 | 13-20 | 14-22 | 16-28 |
| 3"                 | CFM/FT                         | 44          | 55    | 66    | 77    | 88    | 99    | 110   | 132   |       |
|                    | NC                             | 13          | 18    | 23    | 28    | 32    | 35    | 40    | 45    |       |
|                    | Throw , FT.                    | Side wall   | 8-13  | 10-16 | 12-19 | 14-22 | 16-25 | 18-28 | 20-32 | 24-38 |
| AK = .11           |                                | Floor ,sill | 6-10  | 8-13  | 9-15  | 11-18 | 13-20 | 14-22 | 15-25 | 19-30 |
|                    | CFM/FT                         | 56          | 70    | 84    | 98    | 112   | 126   | 140   | 168   |       |
|                    | NC                             | 14          | 19    | 24    | 29    | 33    | 36    | 41    | 46    |       |
| 3½"                | Throw , FT.                    | Side wall   | 9-14  | 11-18 | 13-22 | 16-25 | 18-29 | 20-32 | 2-36  | 27-43 |
|                    |                                | Floor ,sill | 7-12  | 9-14  | 11-17 | 12-20 | 14-23 | 16-25 | 18-28 | 21-34 |
|                    | CFM/FT                         | 64          | 80    | 96    | 112   | 128   | 144   | 160   | 192   |       |
| 4"                 | NC                             | 14          | 19    | 24    | 29    | 33    | 36    | 41    | 46    |       |
|                    | Throw , FT.                    | Side wall   | 10-15 | 12-19 | 15-23 | 17-27 | 19-31 | 22-35 | 24-39 | 29-46 |
|                    |                                | Floor ,sill | 9-14  | 11-17 | 13-21 | 15-25 | 18-28 | 20-31 | 22-35 | 26-42 |
| AK = .16           | CFM/FT                         | 84          | 105   | 126   | 147   | 168   | 189   | 210   | 252   |       |
|                    | NC                             | 15          | 20    | 25    | 30    | 34    | 37    | 42    | 48    |       |
|                    | Throw , FT.                    | Side wall   | 13-20 | 16-25 | 19-30 | 22-35 | 25-40 | 28-45 | 31-50 | 38-60 |
| AK = .21           |                                | Floor ,sill | 10-16 | 13-20 | 15-24 | 18-28 | 20-32 | 23-36 | 25-40 | 30-48 |
|                    | CFM/FT                         | 100         | 125   | 150   | 175   | 200   | 225   | 250   | 300   |       |
|                    | NC                             | 15          | 20    | 25    | 30    | 34    | 37    | 42    | 47    |       |
| 6"                 | Throw , FT.                    | Side wall   | 14-22 | 17-27 | 21-33 | 24-38 | 27-43 | 31-49 | 34-54 | 41-65 |
|                    |                                | Floor ,sill | 11-18 | 14-22 | 16-26 | 19-31 | 22-35 | 25-39 | 27-43 | 33-52 |
|                    | CFM/FT                         | 140         | 175   | 210   | 245   | 280   | 315   | 350   | 420   |       |
| AK = .25           | NC                             | 16          | 21    | 25    | 31    | 35    | 38    | 43    | 48    |       |
|                    | Throw , FT.                    | Side wall   | 16-26 | 20-32 | 24-39 | 28-45 | 32-52 | 36-58 | 40-64 | 48-77 |
|                    |                                | Floor ,sill | 13-21 | 16-26 | 20-31 | 23-36 | 26-41 | 29-46 | 33-52 | 39-62 |
| 8"                 | CFM/FT                         | 184         | 230   | 276   | 322   | 386   | 414   | 460   | 552   |       |
|                    | NC                             | 16          | 21    | 26    | 31    | 35    | 38    | 43    | 48    |       |
|                    | Throw , FT.                    | Side wall   | 19-30 | 23-37 | 28-44 | 32-52 | 37-59 | 42-66 | 46-74 | 55-88 |
| AK = .35           |                                | Floor ,sill | 51-24 | 19-30 | 22-36 | 26-41 | 30-47 | 33-53 | 37-59 | 4-71  |
|                    | CFM/FT                         | 212         | 265   | 318   | 371   | 427   | 477   | 530   | 636   |       |
|                    | NC                             | 17          | 22    | 27    | 32    | 36    | 39    | 44    | 49    |       |
| 10"                | Throw , FT.                    | Side wall   | 20-32 | 25-40 | 30-48 | 35-55 | 40-63 | 43-71 | 50-79 | 59-95 |
|                    |                                | Floor ,sill | 16-26 | 20-32 | 24-38 | 28-44 | 32-51 | 36-57 | 40-63 | 48-76 |
|                    | CFM/FT                         | 212         | 265   | 318   | 371   | 427   | 477   | 530   | 636   |       |
| AK = .46           | NC                             | 17          | 22    | 27    | 32    | 36    | 39    | 44    | 49    |       |
|                    | Throw , FT.                    | Side wall   | 20-32 | 25-40 | 30-48 | 35-55 | 40-63 | 43-71 | 50-79 | 59-95 |
|                    |                                | Floor ,sill | 16-26 | 20-32 | 24-38 | 28-44 | 32-51 | 36-57 | 40-63 | 48-76 |
| 12"                | CFM/FT                         | 212         | 265   | 318   | 371   | 427   | 477   | 530   | 636   |       |
|                    | NC                             | 17          | 22    | 27    | 32    | 36    | 39    | 44    | 49    |       |
|                    | Throw , FT.                    | Side wall   | 20-32 | 25-40 | 30-48 | 35-55 | 40-63 | 43-71 | 50-79 | 59-95 |
| AK = .53           |                                | Floor ,sill | 16-26 | 20-32 | 24-38 | 28-44 | 32-51 | 36-57 | 40-63 | 48-76 |

Note :- For Damper Addition :Add 2 dB To listed NC ; Multiply listed total pressure Values by 1.5  
For Return :Add 4dB to listed NC ; Multiply listed total pressure values by 0.8



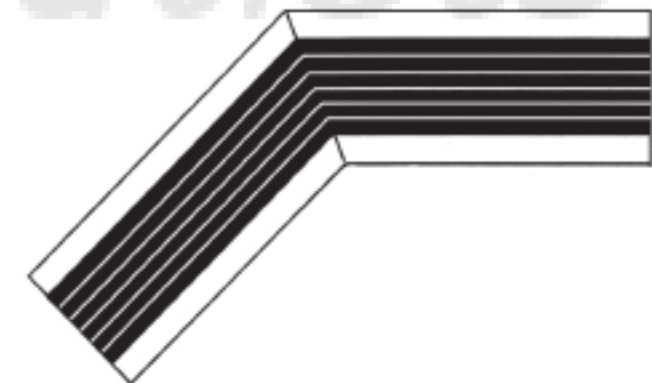
SIDE WALL - INSIDE CORNER



SIDE WALL - OUTSIDE CORNER

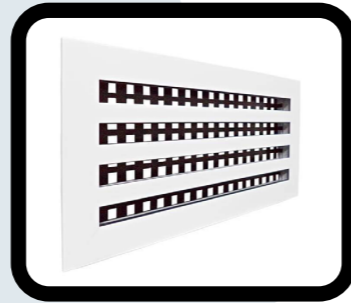


Mitred Corners





**Linear Slot Diffusers LSD**



**Linear Bar Grilles LBG**

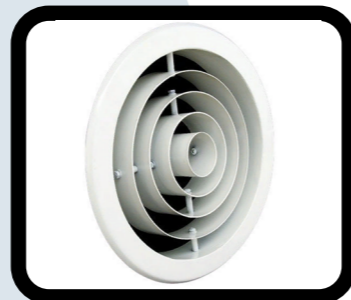
**External Louvers EX-L**



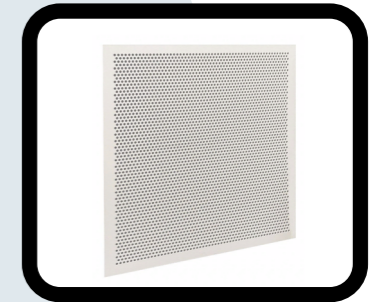
**Square Ceiling Diffusers SCD**



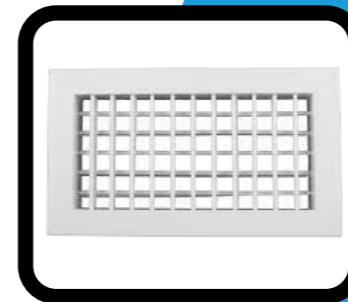
**Jet Nozzles JN**



**Perforated Ceiling Diffusers PCD**



**Grilles And Registers SR**



**Swirl Diffusers SW-D**

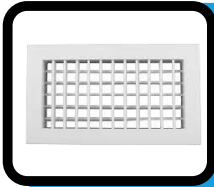


**Volume Control Dampers VCD**

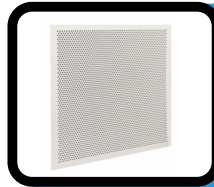


**Curtain Fire Dampers FD-C**





**GRILLES AND REGISTERS**



**PERFORATED CEILING  
DIFFUSERS**



**SQUARE & RECTANGULAR  
& Circular CEILING  
DIFFUSERS**



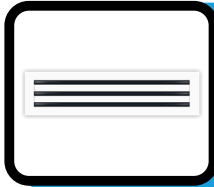
**GRAVITY SHUTTERS**



**LINEAR BAR  
GRILLES&REGISTERS**



**TRANSFER GRILLES**



**Linear Slot  
Diffusers**



**DISC VALVES**



**EXTERNAL LOUVERS**



**SWIRL DIFFUSERS**



**SAND TRAP LOUVERS**



**VOLUME CONTROL  
DAMPERS**



**JET NOZZLES**



**CURTAIN FIRE  
DAMPERS**



**JET DIFFUSERS**



**SMOKE MOTORIZED  
DAMPERS**

**Contact us**

Website: [www.Pro-airoutlets.com](http://www.Pro-airoutlets.com)

E-mail: [info@Pro-airoutlets.com](mailto:info@Pro-airoutlets.com)

Phone : 01273649465 - 01001965968

Address : #8 Mohamed Omar Street, off Taha Hussein Street, fourth floor, Apartment 7, New Nozha