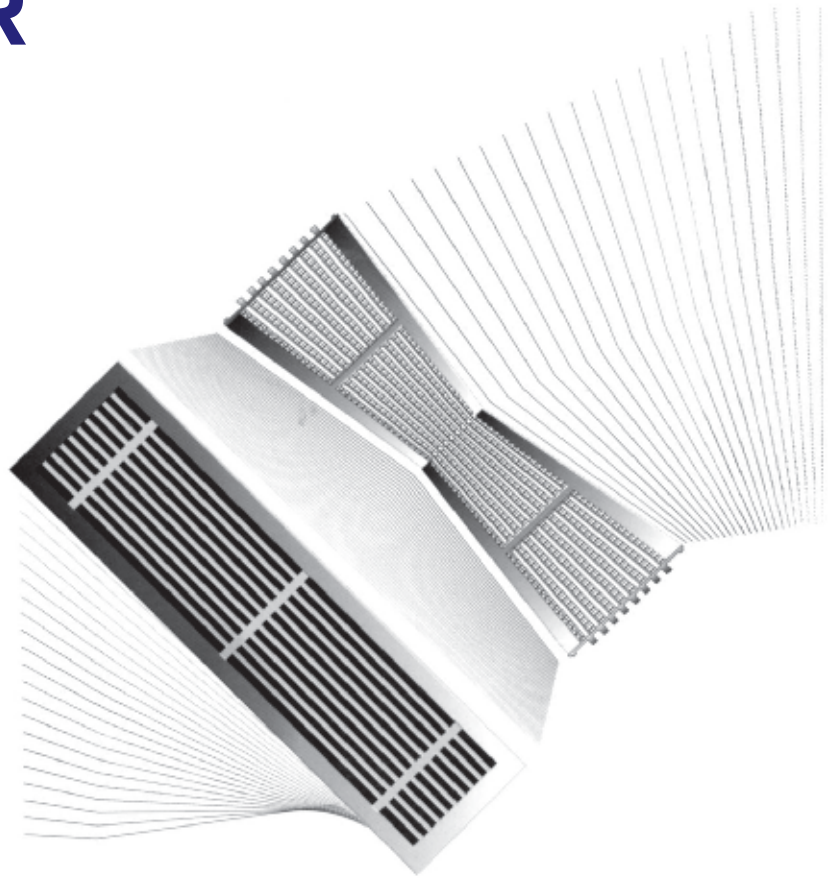


## WE SHAPE AIR



**BETA**  
industrial  
PRODUCTS CATALOGUE

PRODUCT BULLETIN

2







**BETA**  
i n d u s t r i a l

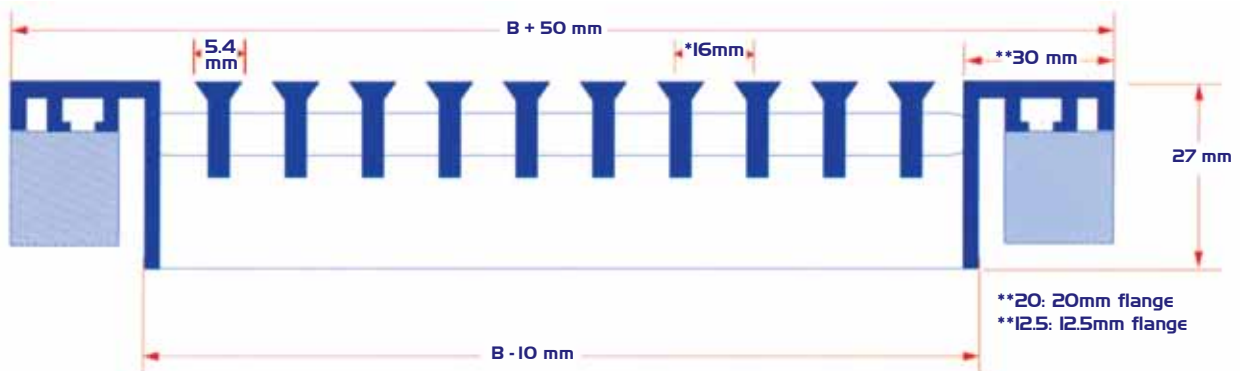
# index

|    |   |             |
|----|---|-------------|
| >> | <b>SINGLE DEFLECTION LINEAR GRILLES &amp; REGISTERS</b> | <b>1-2</b>  |
| >> | <b>DOUBLE DEFLECTION LINEAR GRILLES &amp; REGISTERS</b> | <b>3-4</b>  |
| >> | <b>ENDCAPS &amp; CORNERS</b>                            | <b>5</b>    |
| >> | <b>CURVES</b>   | <b>6</b>    |
| >> | <b>PERFORMANCE DATA</b>                                 | <b>7-12</b> |

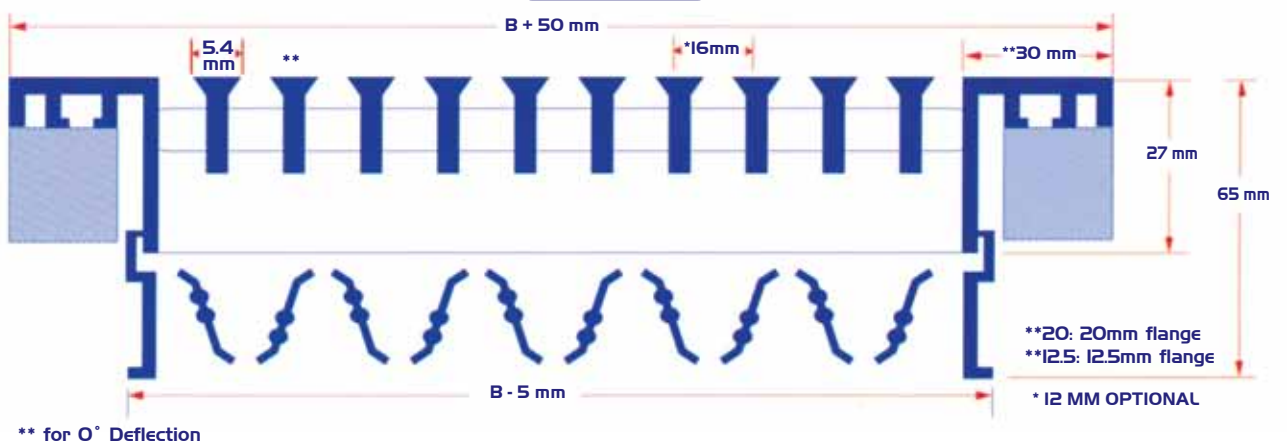




**TYPE: RLG**



**TYPE: RLR**



>> The single deflection linear grille is a wall mounted grille, used as an exhaust or return grille in cooling, heating or air ventilation applications.

>> The single deflection linear grille is composed of a set of fixed horizontal straight bars attached to a frame, both are manufactured from extruded aluminium sections.





>> Front bars have one of the following basic designs:

- 0°deflection bars (Standard)
- 15°deflection, one way
- 15°deflection, two way

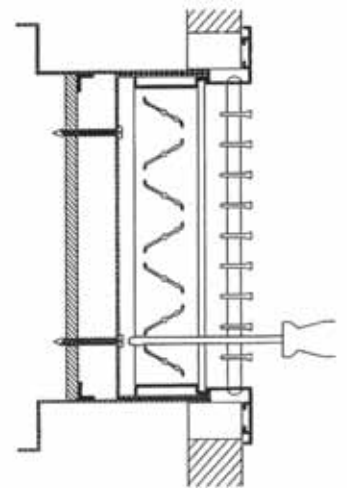
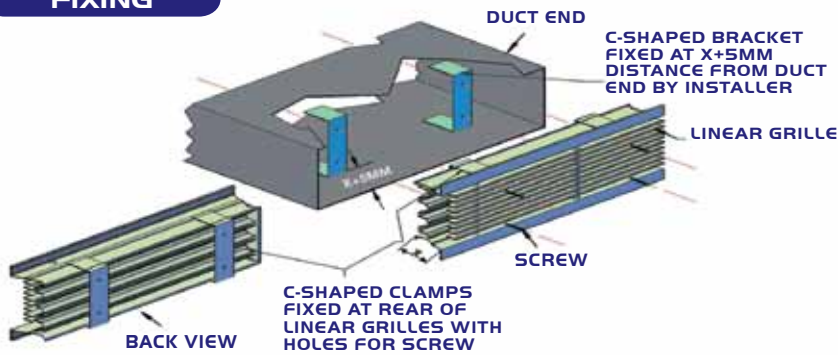
>> Front bars are assembled in horizontal straight lines with a center to center spacing of 16 mm & 12 mm.

>> Available with easily removable opposed blades damper attached to the frame by means of (5) clips to ensure tight attachment and maximum flexibility. The damper is made of extruded aluminium bars and opening of the damper is easily adjusted by means of control lever that is driven by a screw driver from the front face of the register.

Available type of finishings :

- Natural anodized aluminium finish.
- Powder coated to RAL codes.

**FIXING**



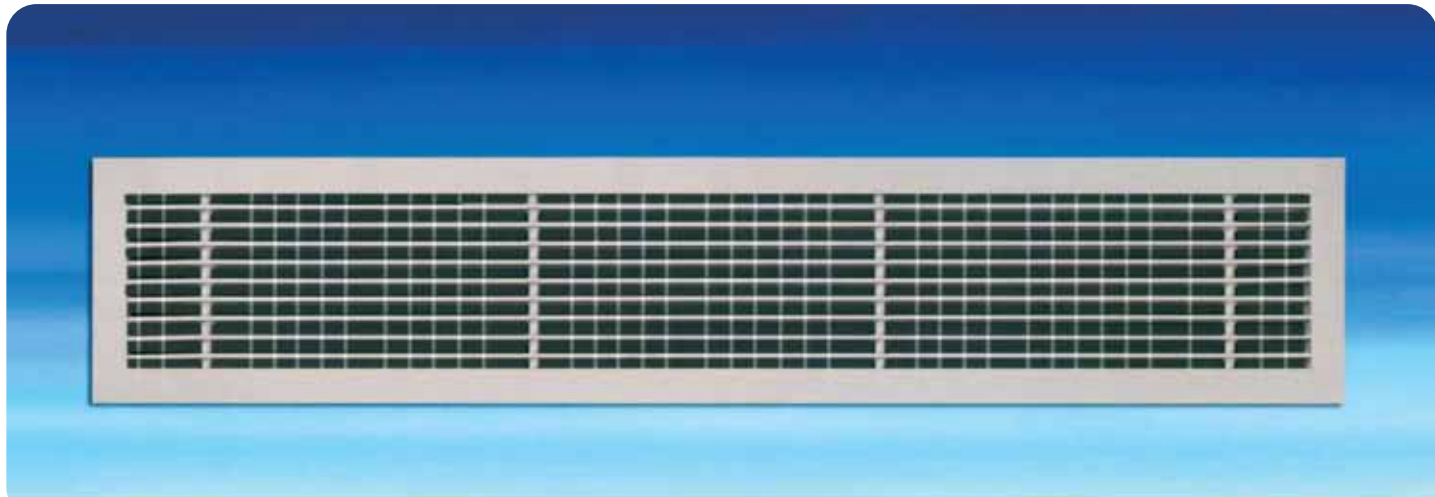
**TYPES & MODELS**



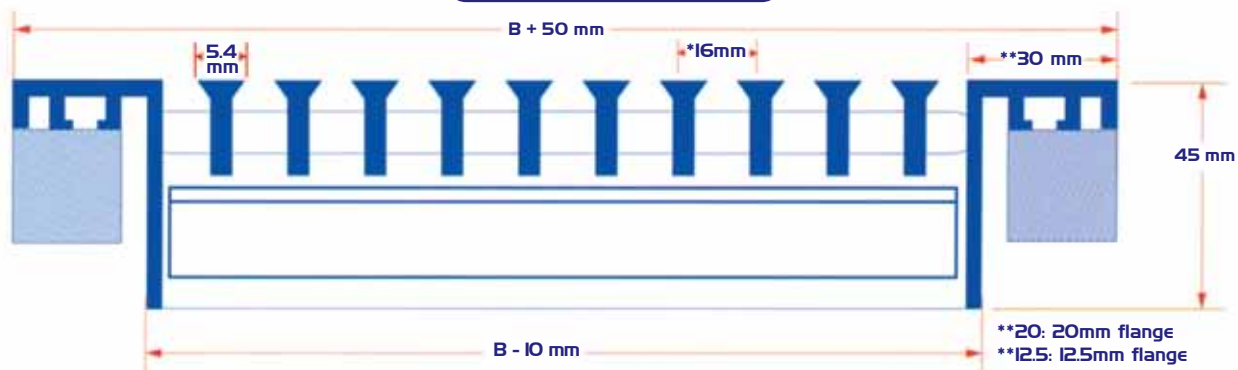
**Ordering Key:**

| R  | L | R | B | 16 | FLANGE | C | R | V | SIZE |
|--|---|---|---|----|--------|---|---|---|------|
| RLR: SINGLE DEFLECTION LINEAR REGISTER (WITH OBD)<br>RLG: SINGLE DEFLECTION LINEAR GRILLE (WITHOUT OBD)<br>RLR/RLG: COMBINED   |   |   |   |    |        |   |   |   |      |
| --: WITHOUT OBD<br>B: WITH BLACK OBD<br>M: WITH MILL FINISH OBD  |   |   |   |    |        |   |   |   |      |
| 16: 16MM CENTER-TO-CENTER SPACING<br>12: 12MM CENTER-TO-CENTER SPACING   |   |   |   |    |        |   |   |   |      |
| --: 30MM FLANGE<br>20: 20MM FLANGE<br>12.5: 12.5MM FLANGE  |   |   |   |    |        |   |   |   |      |
| -- -: STRAIGHT LINEAR REGISTER/GRILLE<br>CRV: CURVED LINEAR REGISTER/GRILLE<br>COR: CORNER (STANDARD WITH 2 X 300MM SIDES & 90° ANGLE, OTHER SIDES & ANGLES CAN BE FABRICATED);<br>EXAMPLE: RLG(16)/COR 300MM*300MM (90)*150MM |   |   |   |    |        |   |   |   |      |
| SIZE: LENGTH X HEIGHT  |   |   |   |    |        |   |   |   |      |

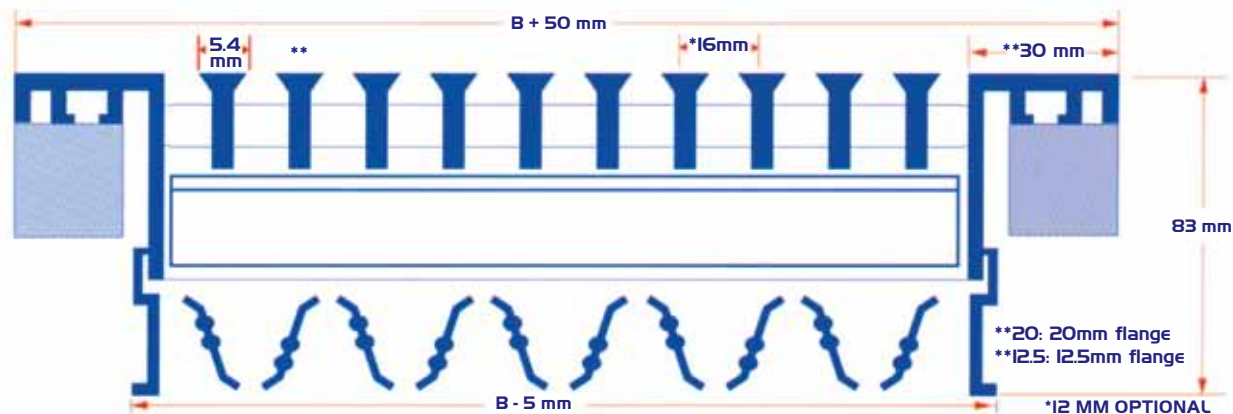




**TYPE : SLG**



**TYPE : SLR**



>> The double deflection linear grille is a wall mounted grille, used as an exhaust or return grille in cooling, heating or air ventilation applications.

>> The double deflection linear grille is composed of a set of fixed horizontal straight bars in the front face and individually adjustable vertical deflectors on the rear to control air flow pattern, both are manufactured from extruded aluminium sections.





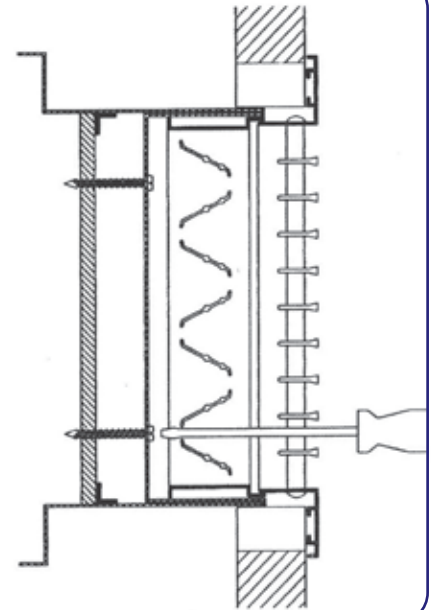
**FIXING**

>> Front bars have one of the following basic designs:

- 0° deflection bars ( Standard)
- 15° deflection, one way
- 15° deflection, two way

>> Front bars are assembled in horizontal straight lines with a center to center spacing of 16 mm & 12 mm.

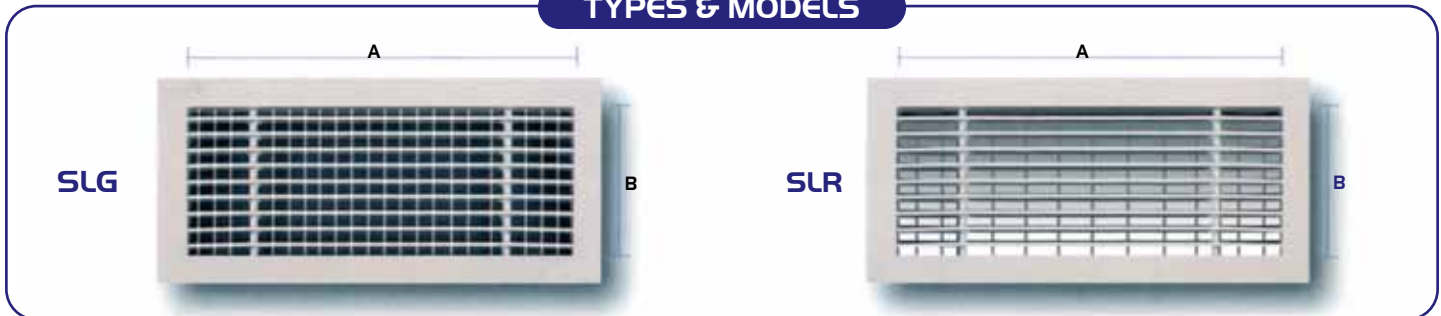
>> Available with easily removable opposed blades damper, attached to the frame by means of (S) clips to ensure tight attachment and maximum flexibility. The damper is made of extruded aluminium bars and opening of the damper is easily adjusted by means of control lever that is driven by a screw driver from the front face of the register.



**Available type of finishings :**

- Natural anodized aluminium finish.
- Powder coated to RAL codes.

**TYPES & MODELS**



**Ordering Key:**

| S   | L | R | B | IG | FLANGE | C | R | V | SIZE |
|---|---|---|---|----|--------|---|---|---|------|
| SLR: DOUBLE DEFLECTION LINEAR REGISTER (WITH OBD)<br>SLG: DOUBLE DEFLECTION LINEAR GRILLE (WITHOUT OBD)<br>SLR/SLG: COMBINED                    |   |   |   |    |        |   |   |   |      |
| -: WITHOUT OBD  |   |   |   |    |        |   |   |   |      |
| B: WITH BLACK OBD   |   |   |   |    |        |   |   |   |      |
| M: WITH MILL FINISH OBD   |   |   |   |    |        |   |   |   |      |
| 16: 16MM CENTER-TO-CENTER SPACING   |   |   |   |    |        |   |   |   |      |
| 12: 12MM CENTER-TO-CENTER SPACING   |   |   |   |    |        |   |   |   |      |
| -: 30MM FLANGE  |   |   |   |    |        |   |   |   |      |
| 20: 20MM FLANGE   |   |   |   |    |        |   |   |   |      |
| 12.5: 12.5MM FLANGE   |   |   |   |    |        |   |   |   |      |
| - - -: STRAIGHT LINEAR REGISTER/GRILLE  |   |   |   |    |        |   |   |   |      |
| CRV: CURVED LINEAR REGISTER/GRILLE  |   |   |   |    |        |   |   |   |      |
| COR: CORNER (STANDARD WITH 2 X 300MM SIDES & 90° ANGLE, OTHER SIDES & ANGLES CAN BE FABRICATED);<br>EXAMPLE: RLG(16)/COR 300MM*300MM (90)*150MM |   |   |   |    |        |   |   |   |      |
| SIZE: LENGTH X HEIGHT   |   |   |   |    |        |   |   |   |      |







1- ONE END LINEAR GRILLE/REGISTER (D1)  
AVAILABLE IN ANY STANDARD SIZE.

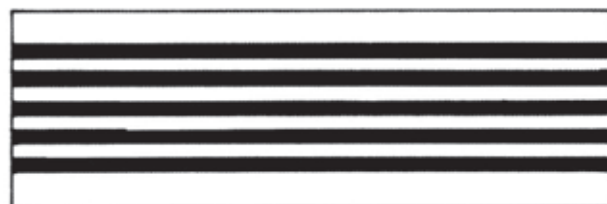
2- INTERMEDIATE LINEAR GRILLE/REGISTER (D2)  
AVAILABLE IN ANY STANDARD SIZE.

3- CORNER PIECES (D3,D4,D5)  
AVAILABLE IN ANY COMBINATION OF B, X, Y &  $\angle$

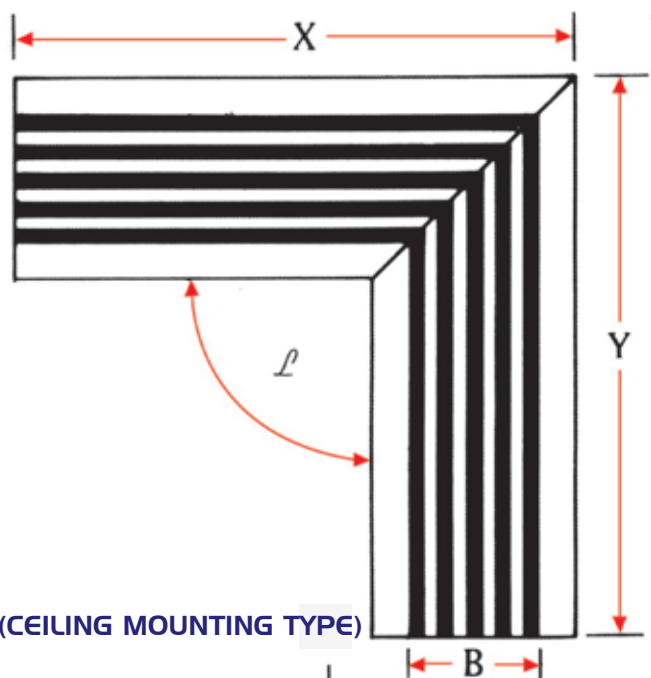
| B (mm) | X(mm) | Y(mm) | $\angle$ (degree) |
|--------|-------|-------|-------------------|
| 100    | 300   | 300   | 45°               |
| 150    | 600   | 600   | 90°               |
| 200    | 800   | 800   | 135°              |
| 250    | 1000  | 1000  |                   |
| 300    | 1200  | 1200  |                   |



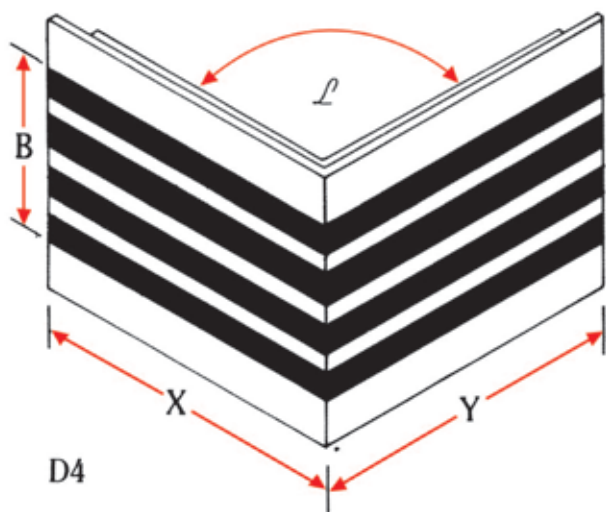
D1



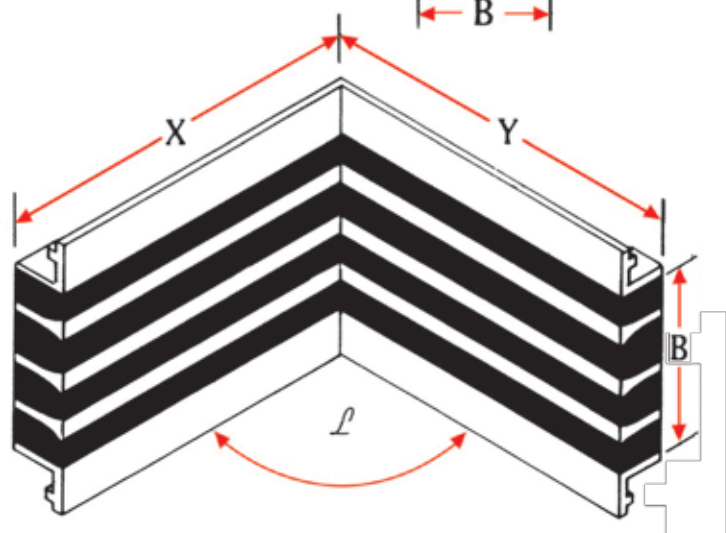
D2



D3 (CEILING MOUNTING TYPE)



D4

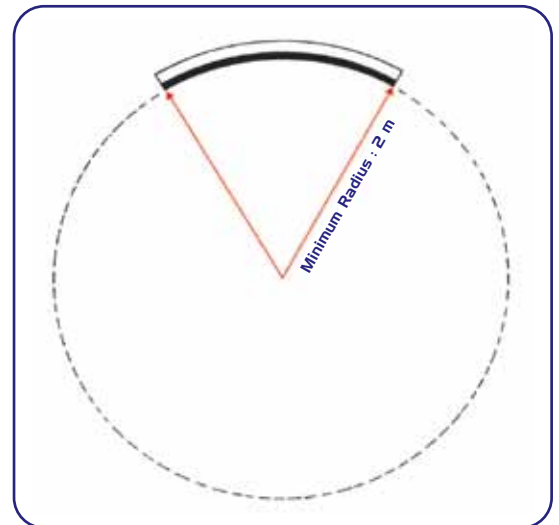
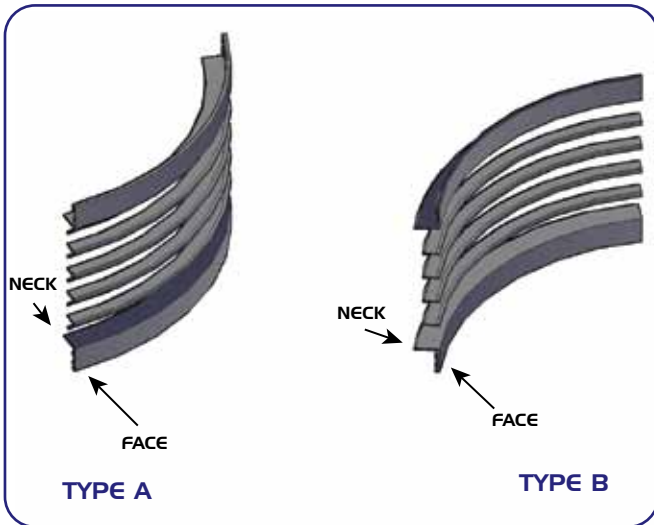


D5 (WALL MOUNTING TYPE)





CURVED LINEAR REGISTERS / GRILLES (D6)



- >> Minimum radius = 2000 mm
- >> Used as Supply/Return linear grille

STANDARDS

ASHRAE 70-1991 "Method of Testing for Rating the Performance of Air Outlets and Inlets"

ADC 1062: GRD-84 "Test Code for Grilles, Registers and Diffusers"

ISO 5219 "Air Distribution and Air Diffusion - Laboratory Aerodynamic Testing and Rating of Air Terminal Devices"



SCOPE OF TESTING

- A) Sound Power Level and Air Velocity versus Static Pressure, 0 and 45 Degree Deflection Supply and 0 Degree Deflection Return (Damper in the Full Open Position)
- B) Area Factor, 0 and 45 Degree Deflection Supply and 0 Degree Deflection Return (Damper in the Full Open Position)
- C) Throw Pattern, 0 and 45 Degree Deflection Supply (Damper in the Full Open Position)





Intertek



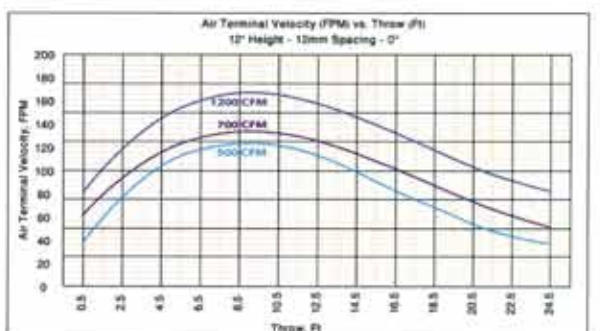
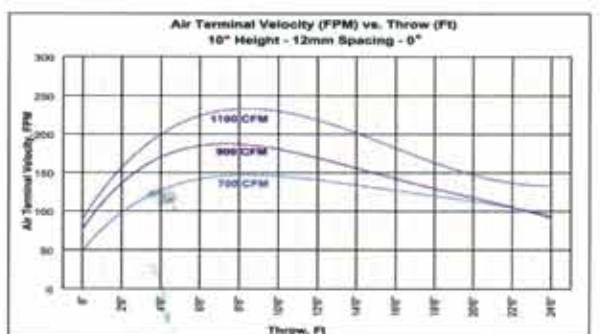
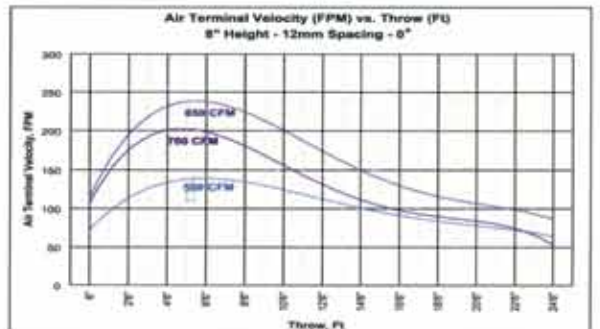
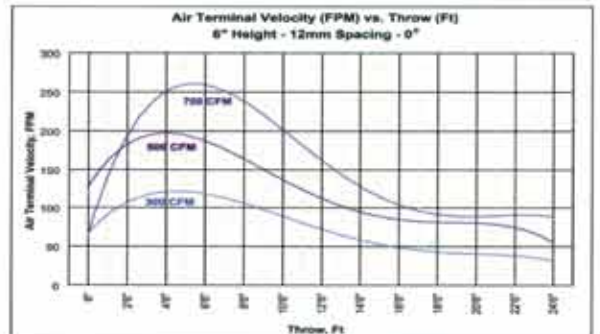
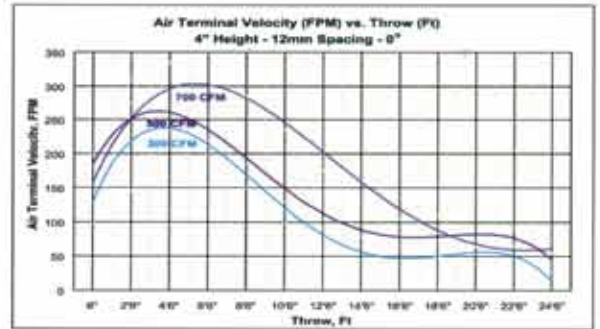
PERFORMANCE DATA - SUPPLY

12mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 0°

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Vn  | Pt    | NC |
|---|--------------|-----|-------|----|
| 4 Inch<br>An=0.333 sq.ft.<br>Ak=0.243 sq.ft.  | 90           | 270 | 0.024 | 16 |
|   | 120          | 360 | 0.032 | 19 |
|   | 150          | 450 | 0.040 | 20 |
|   | 180          | 540 | 0.050 | 23 |
|   | 210          | 630 | 0.065 | 26 |
|   | 240          | 720 | 0.085 | 30 |
| 6 Inch<br>An=0.500 sq.ft.<br>Ak=0.342 sq.ft.  | 210          | 420 | 0.041 | 18 |
|   | 240          | 480 | 0.054 | 23 |
|   | 270          | 540 | 0.067 | 28 |
|   | 300          | 600 | 0.082 | 32 |
|   | 330          | 660 | 0.096 | 34 |
| 8 Inch<br>An=0.667 sq.ft.<br>Ak=0.478 sqft    | 240          | 360 | 0.023 | 19 |
|   | 270          | 405 | 0.027 | 23 |
|   | 300          | 450 | 0.032 | 27 |
|   | 360          | 540 | 0.047 | 33 |
|   | 405          | 608 | 0.057 | 37 |
| 10 Inch<br>An=0.834 sq.ft.<br>Ak=0.657 sq.ft. | 210          | 252 | 0.006 | 15 |
|   | 240          | 288 | 0.008 | 18 |
|   | 270          | 324 | 0.010 | 22 |
|   | 300          | 360 | 0.012 | 25 |
|   | 330          | 396 | 0.014 | 29 |
| 12 Inch<br>An=1.001 sq.ft.<br>Ak=0.836 sq.ft. | 240          | 216 | 0.007 | 17 |
|   | 270          | 243 | 0.007 | 21 |
|   | 300          | 270 | 0.008 | 23 |
|   | 405          | 364 | 0.013 | 35 |
|   | 450          | 405 | 0.023 | 33 |

THROW



SYMBOLS

- CFM : Air Volume in cubic foot per minute
- Ak : Effective Face Area in feet square per feet length
- An : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise criteria

CONDITIONS

- \* Supply
- \* Vertical blades deflection: 0° deflection
- \* Noise Criteria values are based on (10 dB) room attenuation
- \* Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- \* Damper is fully open
- \* Data is based on lft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |





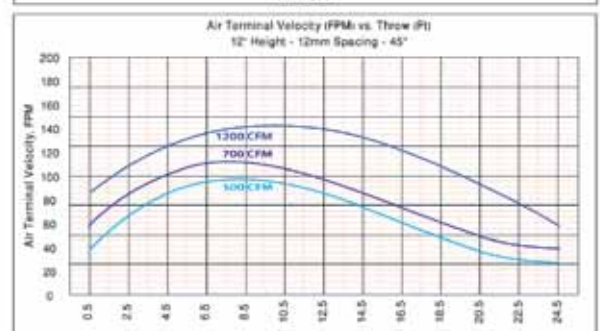
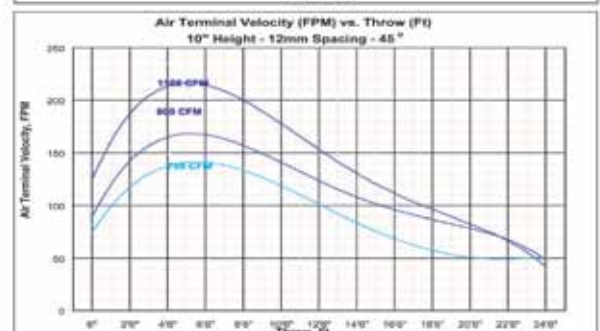
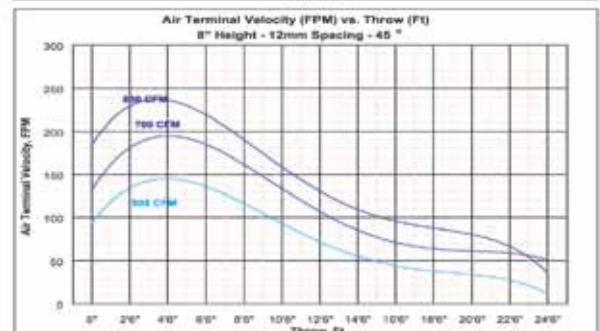
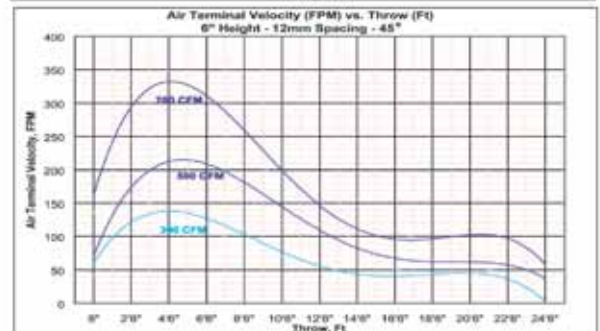
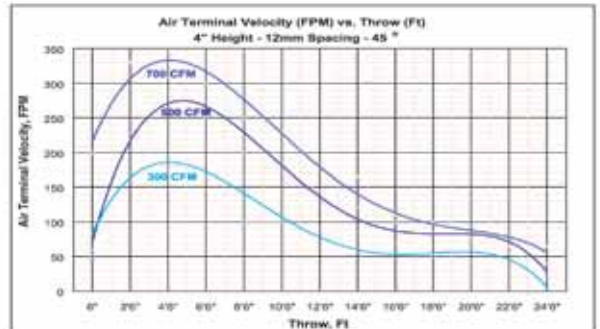
PERFORMANCE DATA - SUPPLY

12mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 45°

THROW

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Vn  | Pt    | NC |
|---|--------------|-----|-------|----|
| 4 Inch<br>An=0.333 sq.ft.<br>Ak=0.202 sq.ft.  | 90           | 270 | 0.001 | 15 |
|   | 120          | 360 | 0.004 | 16 |
|   | 150          | 450 | 0.043 | 20 |
|   | 180          | 540 | 0.082 | 24 |
|   | 210          | 630 | 0.121 | 30 |
|   | 240          | 720 | 0.160 | 36 |
| 6 Inch<br>An=0.500 sq.ft.<br>Ak=0.283 sq.ft.  | 270          | 810 | 0.194 | 39 |
|   | 135          | 270 | 0.029 | 15 |
|   | 180          | 360 | 0.058 | 20 |
|   | 210          | 420 | 0.071 | 24 |
|   | 240          | 480 | 0.094 | 29 |
|   | 270          | 540 | 0.117 | 33 |
| 8 Inch<br>An=0.667 sq.ft.<br>Ak=0.396 sqft    | 300          | 600 | 0.142 | 36 |
|   | 330          | 660 | 0.167 | 39 |
|   | 210          | 315 | 0.021 | 18 |
|   | 240          | 360 | 0.028 | 22 |
|   | 270          | 405 | 0.040 | 27 |
|   | 300          | 450 | 0.047 | 31 |
| 10 Inch<br>An=0.834 sq.ft.<br>Ak=0.545 sq.ft. | 330          | 495 | 0.060 | 33 |
|   | 360          | 540 | 0.072 | 36 |
|   | 405          | 608 | 0.092 | 40 |
|   | 210          | 252 | 0.009 | 15 |
|   | 240          | 288 | 0.015 | 20 |
|   | 270          | 324 | 0.016 | 23 |
| 12 Inch<br>An=1.001 sq.ft.<br>Ak=0.700 sq.ft. | 300          | 360 | 0.023 | 27 |
|   | 330          | 396 | 0.024 | 31 |
|   | 360          | 432 | 0.031 | 34 |
|   | 405          | 486 | 0.039 | 37 |
|   | 210          | 189 | 0.003 | 12 |
|   | 240          | 216 | 0.002 | 18 |



SYMBOLS

- CFM : Air Volume in cubic foot per minute
- AK : Effective Face Area in feet square per feet length
- AN : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise Criteria

CONDITIONS

- \* Supply
- \* Vertical blades deflection: 45° deflection
- \* Noise Criteria values are based on (10 dB) room attenuation
- \* Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- \* Damper is fully open
- \* Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |





PERFORMANCE DATA - RETURN

12mm Spacing - 0° DEFLECTION

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Ps    | NC  |
|---------|--------------|-------|-----|
| 4 Inch  | 90           | 0.001 | 15  |
|         | 120          | 0.027 | 20  |
|         | 150          | 0.053 | 24  |
|         | 180          | 0.079 | 29  |
|         | 210          | 0.105 | 33  |
|         | 240          | 0.150 | 33  |
|         | 270          | 0.180 | 33  |
| 6 Inch  | 135          | 0.030 | 19  |
|         | 180          | 0.050 | 20  |
|         | 210          | 0.065 | 24  |
|         | 240          | 0.090 | 29  |
|         | 270          | 0.110 | 33  |
|         | 300          | 0.135 | 37  |
|         | 330          | 0.160 | 41  |
| 8 Inch  | 210          | 0.025 | 15  |
|         | 240          | 0.030 | 25  |
|         | 270          | 0.040 | 33  |
|         | 300          | 0.050 | 35  |
|         | 330          | 0.060 | 35  |
|         | 360          | 0.070 | 44  |
|         | 405          | 0.090 | 42  |
| 10 Inch | 240          | 0.025 | 15  |
|         | 250          | 0.025 | 22  |
|         | 270          | 0.030 | 28  |
|         | 330          | 0.035 | 29  |
|         | 390          | 0.055 | 35  |
|         | 450          | 0.075 | 42  |
|         | 480          | 0.085 | 46  |
| 12 Inch | 240          | 0.020 | <15 |
|         | 270          | 0.020 | 23  |
|         | 330          | 0.010 | 23  |

SYMBOLS

- CFM : Air volume in cubic feet per minute.
- PS : Negative static pressure in inches water gauge.
- N.C. : Noise Criteria

CONDITIONS

- \* Return
- \* Noise Criteria is based on (10 dB) room attenuation
- \* Damper is fully open
- \* Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |





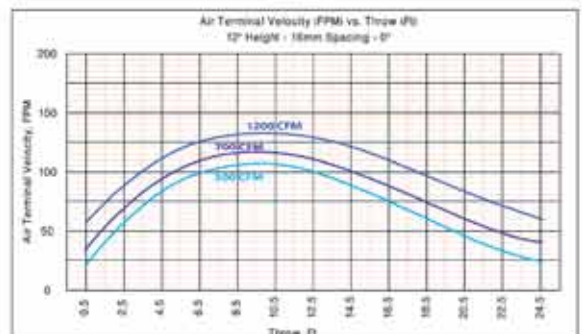
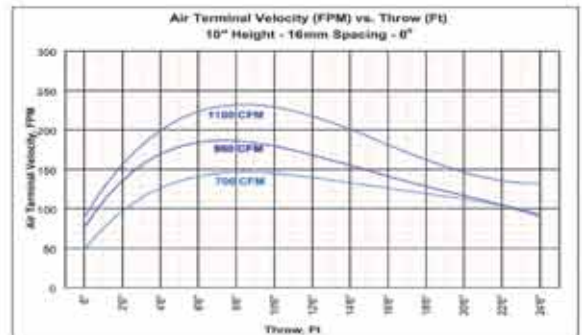
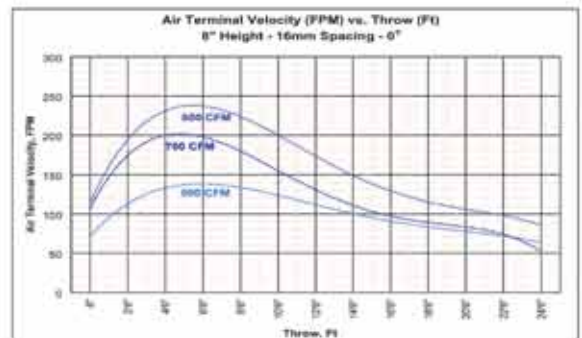
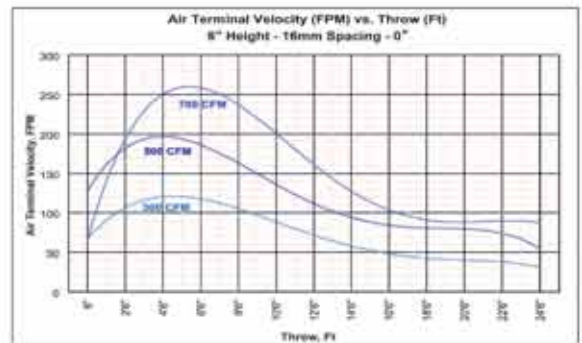
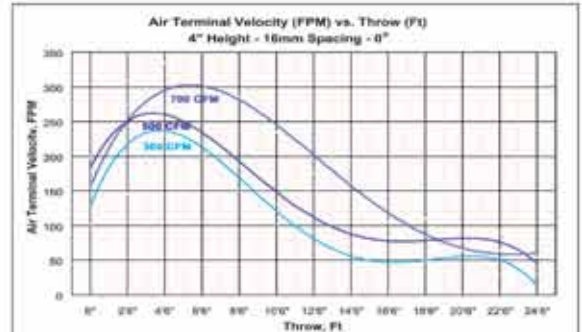
**Intertek** **PERFORMANCE DATA - SUPPLY**

16mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 0°

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Vn  | Pt    | NC |
|---|--------------|-----|-------|----|
| 4 Inch<br>An=0.333 sq.ft.<br>Ak=0.248 sq.ft.  | 90           | 270 | 0.001 | 15 |
|   | 120          | 360 | 0.014 | 17 |
|   | 150          | 450 | 0.026 | 19 |
|   | 180          | 540 | 0.039 | 21 |
|   | 210          | 630 | 0.051 | 23 |
|   | 240          | 720 | 0.078 | 30 |
|   | 270          | 810 | 0.105 | 37 |
| 6 Inch<br>An=0.500 sq.ft.<br>Ak=0.347 sq.ft.  | 210          | 420 | 0.031 | 19 |
|   | 240          | 480 | 0.049 | 23 |
|   | 270          | 540 | 0.062 | 29 |
|   | 300          | 600 | 0.077 | 32 |
|   | 330          | 660 | 0.096 | 35 |
|   | 405          | 810 | 0.139 | 41 |
| 8 Inch<br>An=0.667 sq.ft.<br>Ak=0.495 sqft    | 210          | 315 | 0.011 | 15 |
|   | 270          | 405 | 0.019 | 21 |
|   | 300          | 450 | 0.023 | 28 |
|   | 330          | 495 | 0.028 | 30 |
|   | 360          | 540 | 0.032 | 32 |
|   | 405          | 608 | 0.042 | 36 |
|   | 450          | 675 | 0.052 | 39 |
| 10 Inch<br>An=0.834 sq.ft.<br>Ak=0.665 sq.ft. | 240          | 288 | 0.005 | 15 |
|   | 270          | 324 | 0.006 | 21 |
|   | 300          | 360 | 0.008 | 24 |
|   | 330          | 396 | 0.009 | 28 |
|   | 360          | 432 | 0.011 | 31 |
|   | 405          | 486 | 0.014 | 35 |
| 12 Inch<br>An=1.001 sq.ft.<br>Ak=0.835 sq.ft. | 270          | 315 | 0.003 | 27 |
|   | 300          | 342 | 0.005 | 28 |
|   | 330          | 369 | 0.006 | 32 |
|   | 360          | 432 | 0.004 | 38 |
|   | 405          | 472 | 0.008 | 40 |
|   | 450          | 515 | 0.003 | 27 |

**THROW**



**SYMBOLS**

- CFM : Air Volume in cubic foot per minute
- AK : Effective Face Area in feet square per feet length
- AN : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise criteria

**CONDITIONS**

- \* Supply
- \* Vertical blades deflection: 0° deflection
- \* Noise Criteria values are based on (10 dB) room attenuation
- \* Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- \* Damper is fully open
- \* Data is based on ft length.

**CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS**

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |





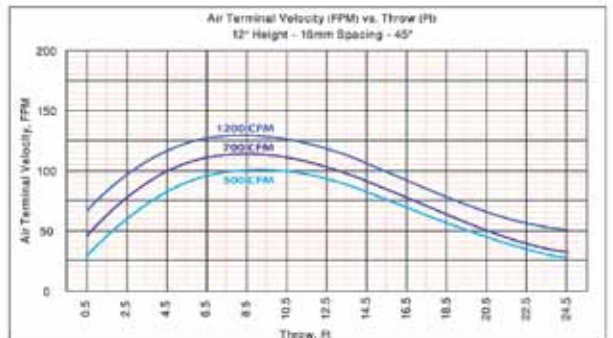
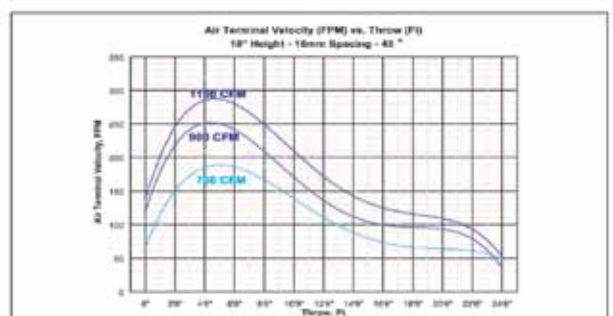
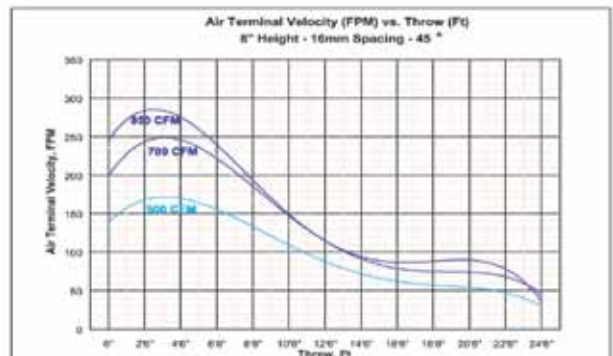
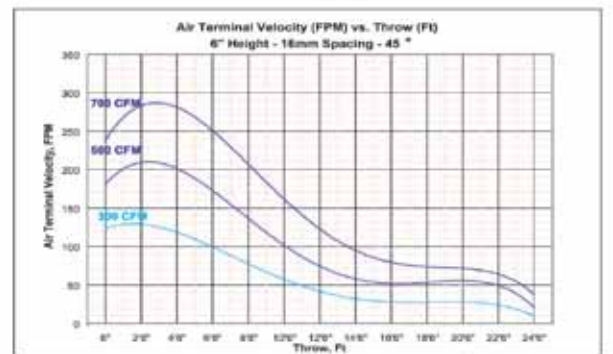
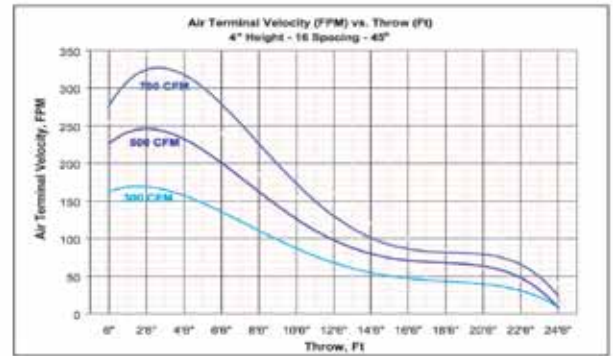
**Intertek** **PERFORMANCE DATA - SUPPLY**

16mm Spacing - 0° DEFLECTION - VERTICAL BLADES AT 45°

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Vn  | Pt    | NC |
|---|--------------|-----|-------|----|
| 4 Inch<br>An=0.333 sq.ft.<br>Ak=0.184 sq.ft.  | 90           | 270 | 0.001 | 15 |
|   | 120          | 360 | 0.026 | 19 |
|   | 150          | 450 | 0.051 | 23 |
|   | 180          | 540 | 0.076 | 27 |
|   | 210          | 630 | 0.101 | 31 |
|   | 240          | 720 | 0.130 | 36 |
| 6 Inch<br>An=0.500 sq.ft.<br>Ak=0.271 sq.ft.  | 270          | 810 | 0.159 | 41 |
|   | 180          | 360 | 0.048 | 19 |
|   | 210          | 420 | 0.061 | 24 |
|   | 240          | 480 | 0.079 | 29 |
|   | 300          | 540 | 0.102 | 33 |
|   | 360          | 600 | 0.132 | 36 |
| 8 Inch<br>An=0.667 sq.ft.<br>Ak=0.384 sqft    | 420          | 660 | 0.161 | 39 |
|   | 450          | 900 | 0.176 | 41 |
|   | 210          | 315 | 0.021 | 17 |
|   | 240          | 360 | 0.028 | 22 |
|   | 270          | 405 | 0.035 | 25 |
|   | 300          | 450 | 0.047 | 30 |
| 10 Inch<br>An=0.834 sq.ft.<br>Ak=0.665 sq.ft. | 330          | 495 | 0.055 | 33 |
|   | 360          | 540 | 0.067 | 36 |
|   | 405          | 585 | 0.080 | 39 |
|   | 210          | 252 | 0.010 | 15 |
|   | 240          | 288 | 0.013 | 19 |
|   | 300          | 360 | 0.021 | 25 |
| 12 Inch<br>An=1.001 sq.ft.<br>Ak=0.680 sq.ft. | 330          | 396 | 0.024 | 29 |
|   | 405          | 486 | 0.039 | 36 |
|   | 450          | 540 | 0.047 | 39 |
|   | 480          | 576 | 0.052 | 41 |
|   | 210          | 189 | 0.001 | 13 |
|   | 240          | 216 | 0.002 | 16 |
|   | 300          | 270 | 0.005 | 20 |
|   | 330          | 297 | 0.007 | 25 |
|   | 405          | 387 | 0.002 | 33 |

**THROW**



**SYMBOLS**

- CFM : Air Volume in cubic foot per minute
- AK : Effective Face Area in feet square per feet length
- AN : Neck Area in feet square per feet length
- Vn : Neck Velocity in feet per minute
- Pt : Total Pressure in inches water gauge
- Th : Throw in feet
- N.C. : Noise criteria

**CONDITIONS**

- \* Supply
- \* Vertical blades deflection: 45° deflection
- \* Noise Criteria values are based on (10 dB) room attenuation
- \* Throw Figures are measured for Linear Grilles fixed at 6" from the Ceiling
- \* Damper is fully open
- \* Data is based on 1ft length.

**CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS**

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |





PERFORMANCE DATA - RETURN

16mm Spacing - 0° DEFLECTION

\*IMPERIAL UNITS

| WIDTH   | CFM per foot | Ps    | NC  |
|---------|--------------|-------|-----|
| 4 Inch  | 90           | 0.001 | 15  |
|         | 120          | 0.013 | 21  |
|         | 150          | 0.025 | 26  |
|         | 180          | 0.036 | 32  |
|         | 210          | 0.048 | 37  |
|         | 240          | 0.060 | 43  |
|         | 270          | 0.080 | 44  |
| 6 Inch  | 210          | 0.030 | 17  |
|         | 240          | 0.040 | 29  |
|         | 270          | 0.055 | 30  |
|         | 300          | 0.070 | 34  |
|         | 330          | 0.085 | 33  |
|         | 360          | 0.105 | 37  |
|         | 405          | 0.140 | 40  |
| 8 Inch  | 240          | 0.020 | 15  |
|         | 270          | 0.030 | 16  |
|         | 300          | 0.040 | 34  |
|         | 330          | 0.050 | 42  |
|         | 360          | 0.060 | 43  |
|         | 405          | 0.070 | 45  |
|         | 450          | 0.080 | 47  |
| 10 Inch | 300          | 0.025 | 15  |
|         | 330          | 0.030 | 17  |
|         | 360          | 0.035 | 21  |
|         | 390          | 0.040 | 37  |
|         | 405          | 0.045 | 43  |
|         | 450          | 0.055 | 40  |
|         | 480          | 0.065 | 56  |
| 12 Inch | 210          | 0.030 | 15  |
|         | 240          | 0.030 | 18  |
|         | 300          | 0.020 | <15 |
|         | 330          | 0.020 | 31  |
|         | 405          | 0.010 | 39  |

SYMBOLS

- CFM : Air volume in cubic feet per minute.
- PS : Negative static pressure in inches water gauge.
- N.C. : Noise Criteria

CONDITIONS

- \* Return
- \* Noise Criteria is based on (10 dB) room attenuation.
- \* Damper is fully open.
- \* Data is based on 1ft length.

CORRECTIONS ON NOISE CRITERIA FOR OTHER LENGTHS

| Length | 3ft  | 6ft  | 10ft |
|--------|------|------|------|
| N.C.   | (+4) | (+7) | (+9) |







NOTES

Area with horizontal dashed lines for notes.





NOTES

Area with horizontal dashed lines for notes.







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