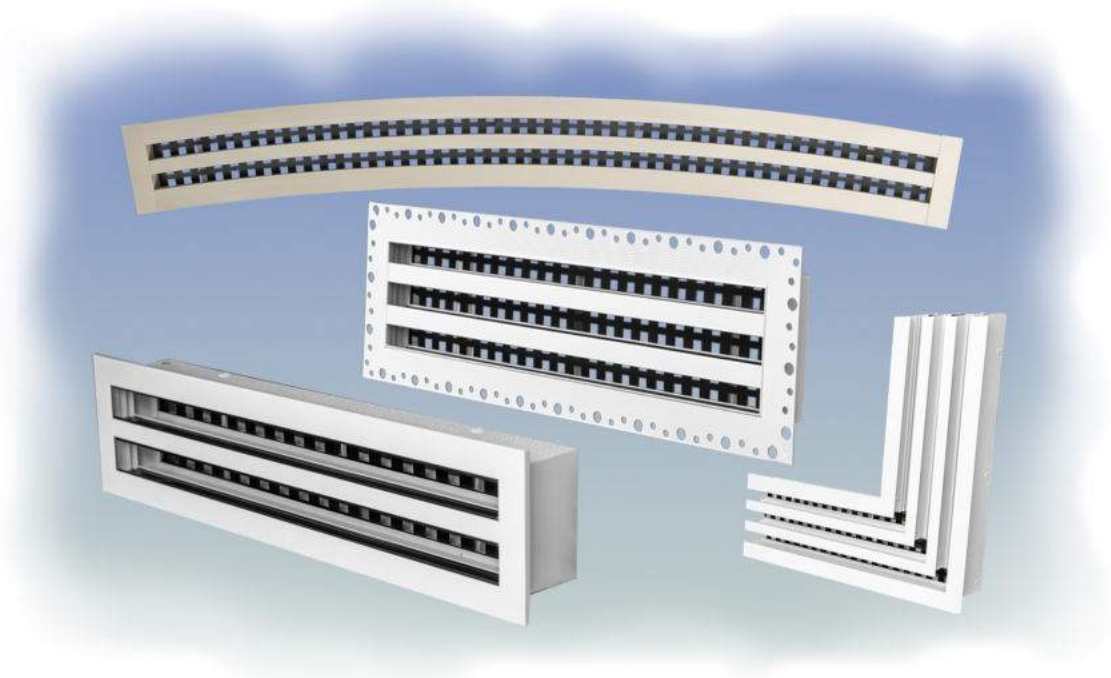


## LINEAR SLOT DIFFUSERS



- |        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| SLSD   | Supply Linear Slot Diffuser with Hit & Miss Damper and with Deflectors.                     |
| RLSD   | Return Linear Slot Diffuser without Hit & Miss Damper and without Deflectors.               |
| SLSD-P | Supply Plaster Linear Slot Diffuser with Hit & Miss Damper and with Deflectors Plaster Type |
| RLSD-P | Return Plaster Linear Slot Diffuser without Hit & Miss Damper and without Deflectors.       |



**intertek**

**FAISAL JASSIM INDUSTRIES (L.L.C.)**

P.O. Box 1871 Plot # 598-1152  
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Tel. # 04 810-5105

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Website: [www.faisaljassim.ae](http://www.faisaljassim.ae)

## APPLICATIONS

FLOWTECH Linear Slot Diffuser (LSD) is a high capacity slot diffuser suited to a wide range of applications.

With its pleasant aesthetic appearance it can be used in variety of prestigious locations such as Lobbies, Dining Hall, Hotels, Palaces and Building Entrances where aesthetic is architecturally critical. For this purpose, FLOWTECH LSD can be supplied in a straight or curved shape with a wide variety of powder coated colors.

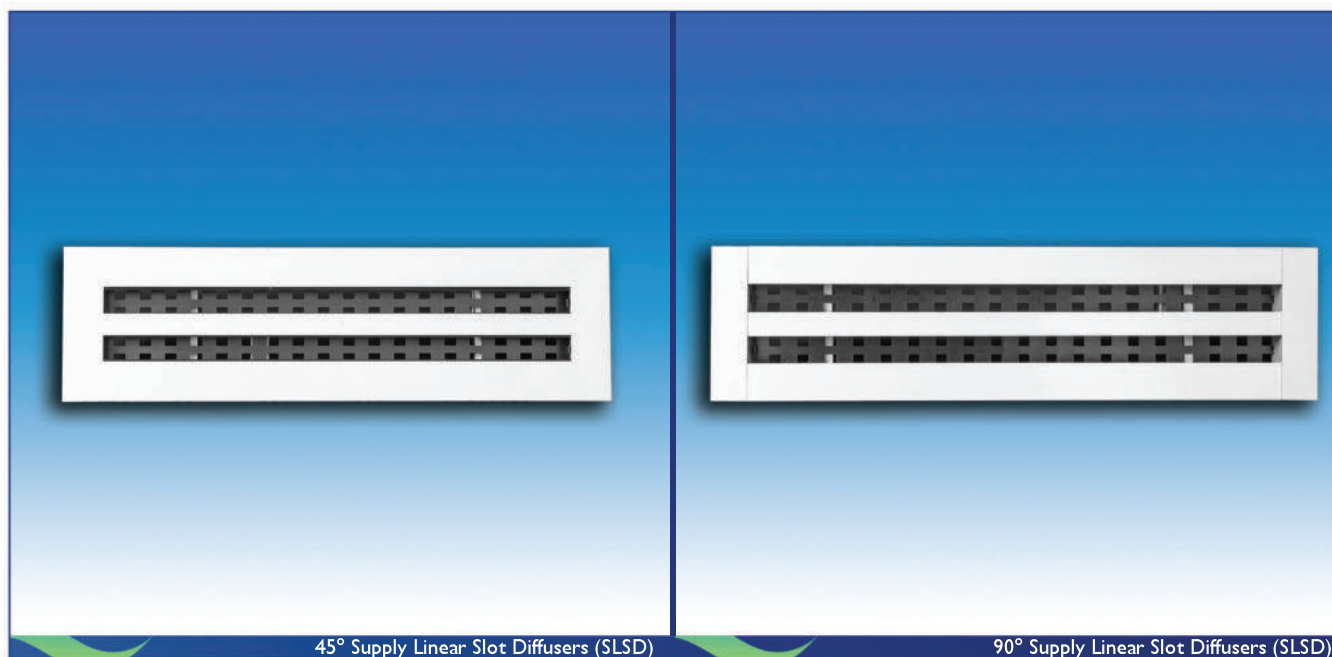
Functionally, Linear Slot Diffusers are used in large open areas where perimeter supply or return is required. FLOWTECH LSD is provided with unique curved design of air deflecting vanes which can be adjusted as required to achieve precise control of air flow direction. Usually directional control is required towards perimeter heat source or away from adjacent glass areas.

With its steady performance at variable air flow rates, FLOWTECH LSD can be effectively used as part of VAV systems. It can be combined with unitary plenum boxes of designer choice.

FLOWTECH LSD can be used as supply air diffuser, return air diffuser or dummy ceiling diffuser for decorative purposes.

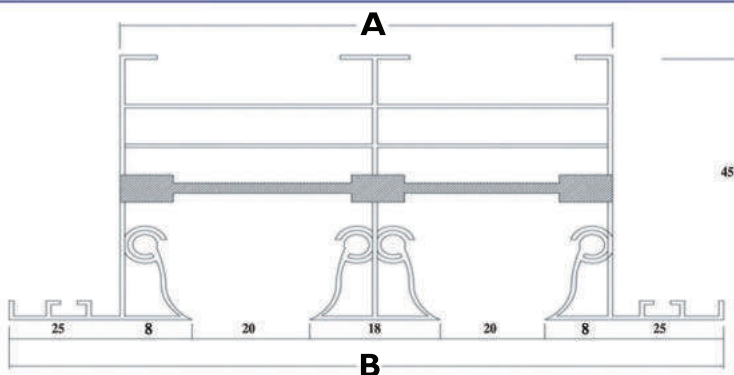


**LINEAR SLOT DIFFUSER (SLSD & RLSD)**



**Products Features:**

- Frame and curved deflection blades are made of extruded aluminium alloy 6063 to T6 Heat Treatment.
- Available in Hit and Miss Damper of GI sheet to control air flow rate without affecting the air flow patterns.
- 180° fully adjustable air flow patterns by means of two air deflector blades per slot.
- Both Deflector Blades and Hit & Miss Damper are powder coated with black color.
- Available in 1 to 8 slots.
- Standard slot width is 1/2" (16mm), 3/4" (20mm) and 1" (25mm).
- For maximum rigidity, profiles are fixed at equally spaced intervals using Screw Rods and Cylindrical shims of 6mm diameter, made of extruded aluminium.
- Maximum of one piece length is 3000mm. Larger pieces are jointed using hairline butt joints held by special alignment strips to ensure continuous unbroken runs.
- Curved Segments are available for both sidewall curves (CS) and ceiling curves (CP), with minimum radius of curvature of 1000mm.
- Surface mount design.
- Also available with a 90° end cap



Type SLSD with Deflectors and Hit & Miss Dampers

**DIMENSIONS (FIXED 45° ENDCAP)**

**Standard Slot Size 25mm**

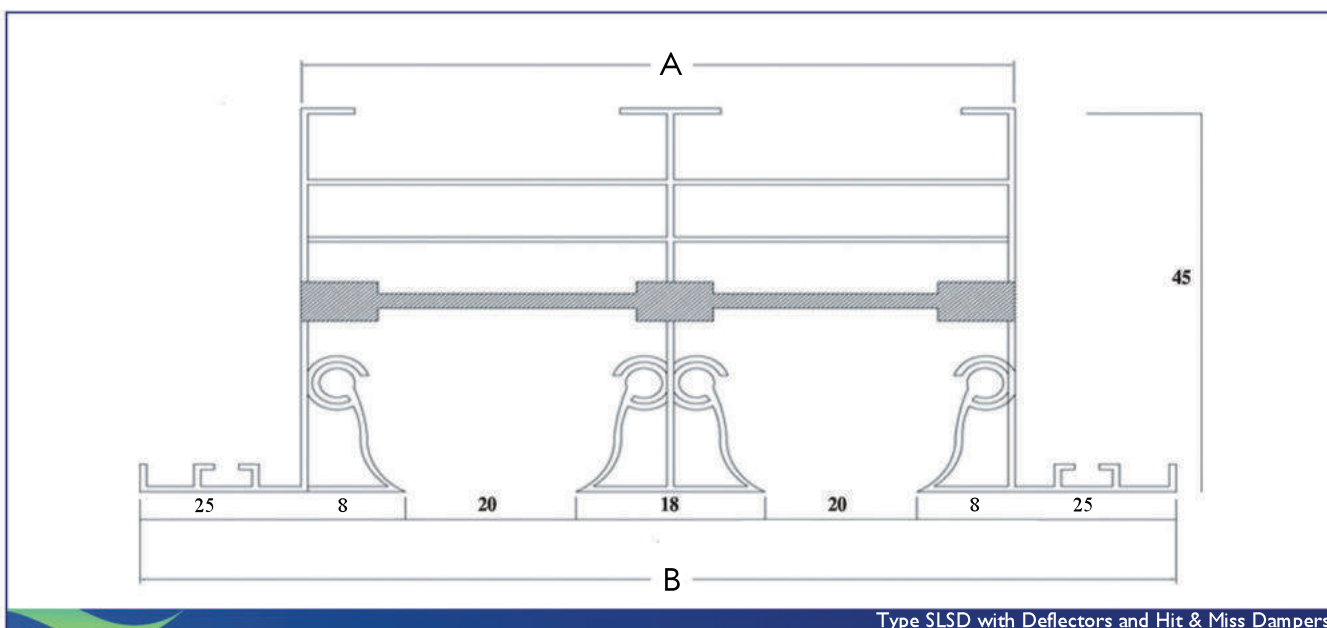
| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 45     | 89     | 134    | 177    | 222    | 265    | 309    | 353    |
| Flange Size B (mm) | 91     | 137    | 179    | 223    | 269    | 314    | 355    | 399    |

**Standard Slot Size 20mm**

| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 40     | 79     | 118    | 157    | 196    | 235    | 274    | 313    |
| Flange Size B (mm) | 87     | 125    | 164    | 200    | 242    | 281    | 320    | 359    |

**Standard Slot Size 16mm**

| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 35     | 69     | 103    | 137    | 171    | 205    | 239    | 275    |
| Flange Size B (mm) | 82     | 116    | 150    | 184    | 218    | 252    | 286    | 320    |



Type SLSD with Deflectors and Hit & Miss Dampers

**DIMENSIONS (REMOVABLE 90° END CAP MODEL)**

**Standard Slot Size 25mm**

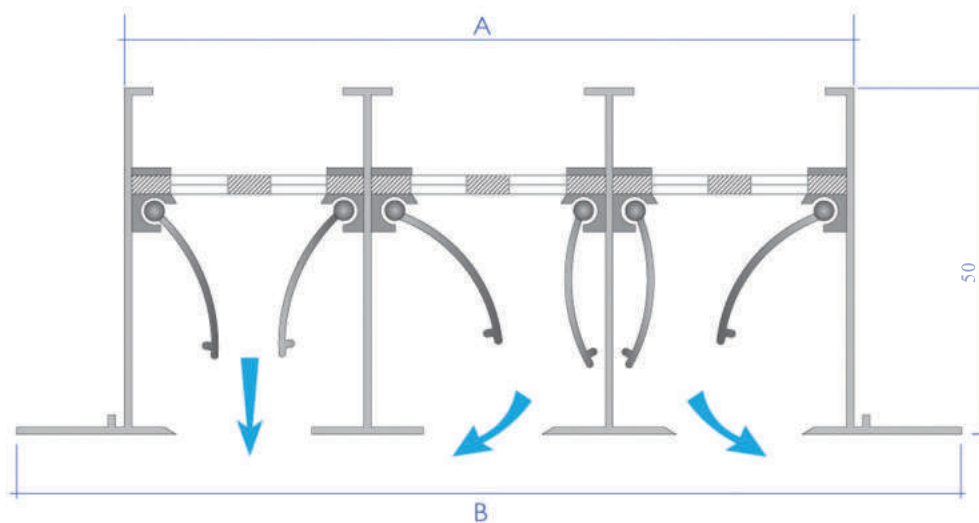
| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 45     | 89     | 133    | 177    | 221    | 265    | 309    | 355    |
| Flange Size B (mm) | 81     | 125    | 170    | 215    | 260    | 304    | 347    | 393    |

**Standard Slot Size 20mm**

| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 40     | 79     | 118    | 157    | 198    | 235    | 274    | 315    |
| Flange Size B (mm) | 76     | 115    | 154    | 193    | 235    | 272    | 312    | 354    |

**Standard Slot Size 16mm**

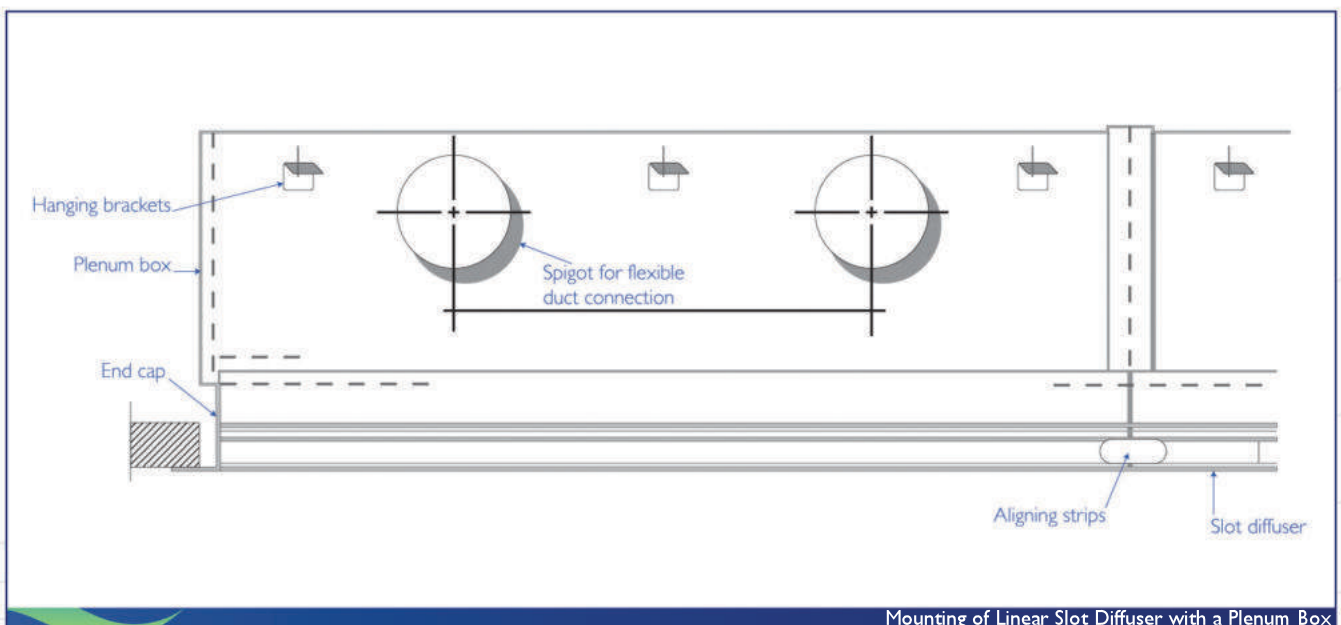
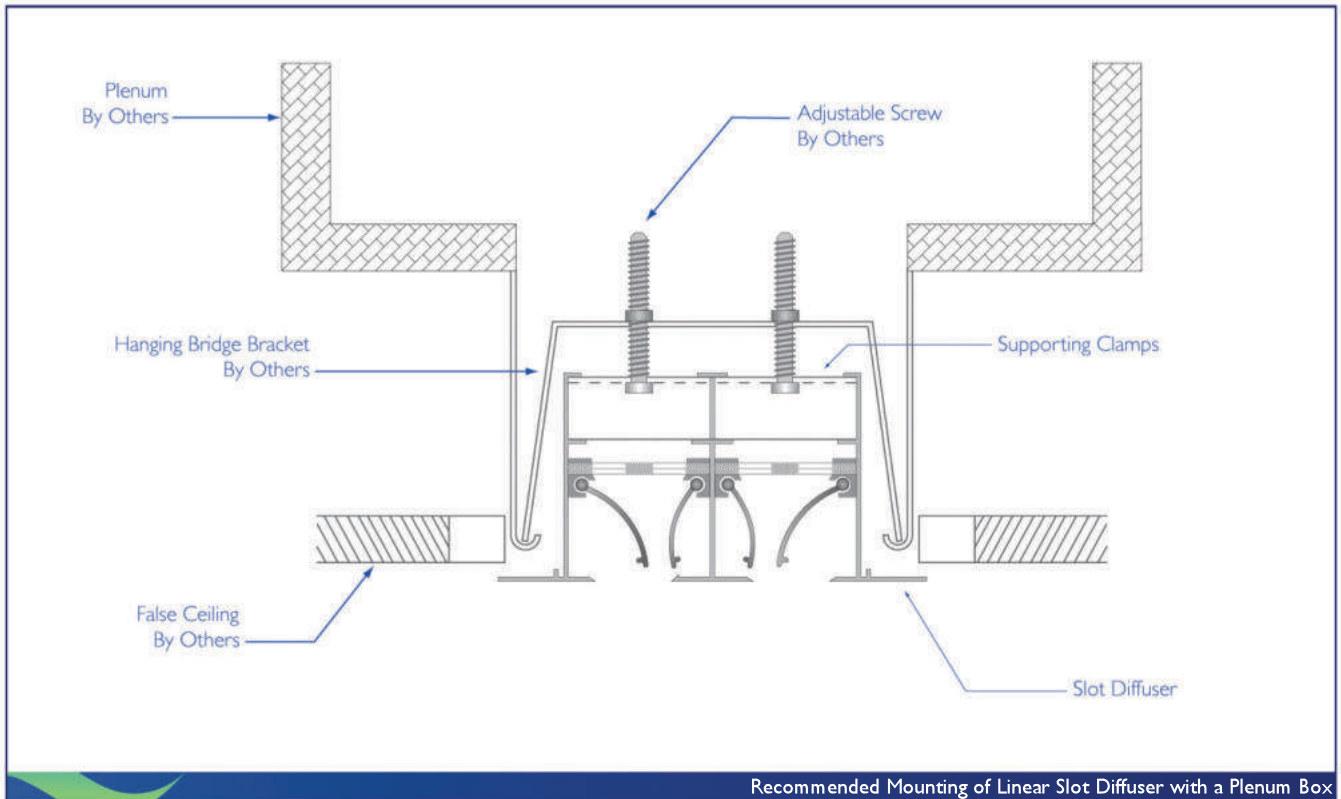
| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 36     | 70     | 104    | 138    | 172    | 206    | 240    | 274    |
| Flange Size B (mm) | 72     | 106    | 140    | 174    | 208    | 244    | 276    | 313    |



Type SLSD with Deflectors and Hit & Miss Dampers (90° End Cap Model)

## MOUNTING / FINISH OPTIONS

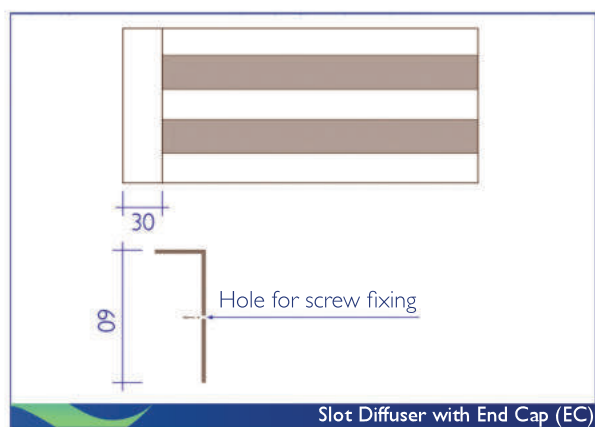
- Available in powder coated RAL 9010 or 9016 as standard color.
- Other powder coated finishes are available on request.
- Deflectors and Hit & Miss Damper are powder coated in black color as standard.



## ACCESSORIES (90° END CAP MODEL)

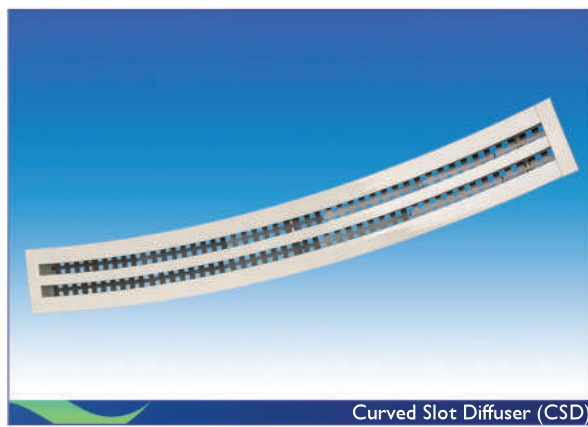
### END CAP (EC)

30mm x 60mm "L" shaped removable End Caps are supplied free with each full length to suit any LSD size. The end cap allows the extending or the shortening of slot diffusers lines without replacing existing pieces. A mitred end cap is available upon request.



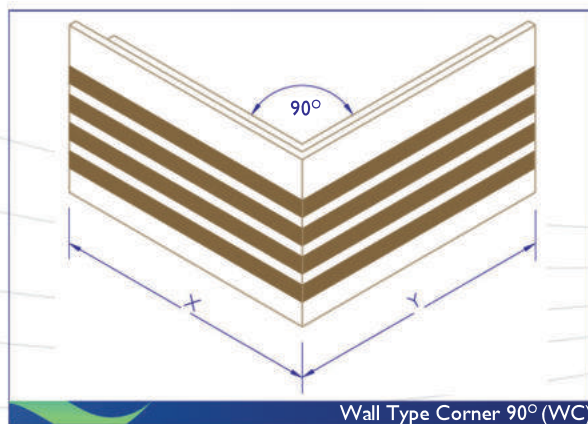
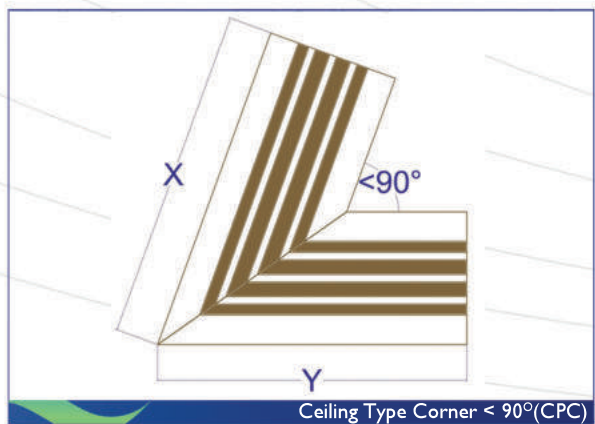
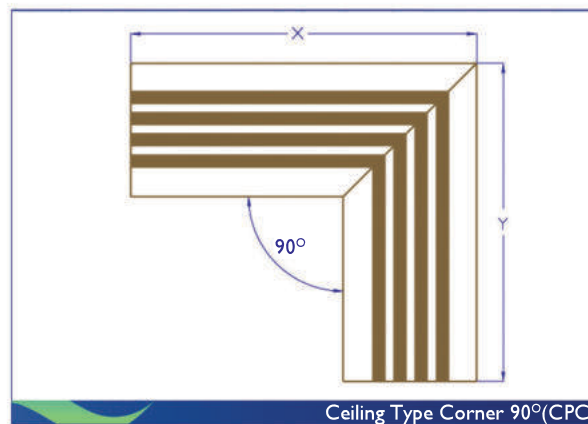
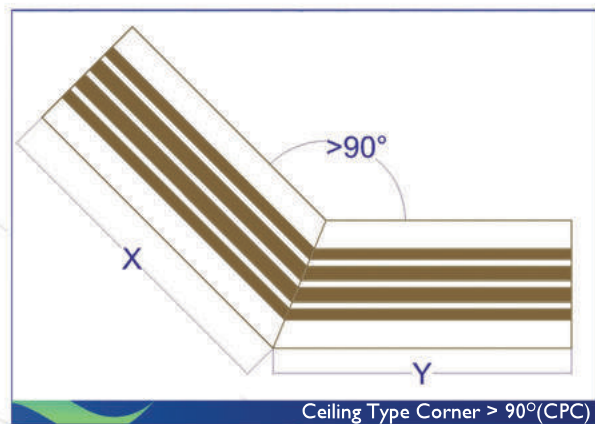
### Curved Slot Diffusers (CSD)

Slot diffusers can be supplied as a ceiling type curve with a minimum radius of 1 meter. Our technician will assist in taking site measurements for special curvatures.



### Corner Piece - Wall (CPW) / Ceiling (CPC)

300mm x 300mm up to 1200mm x 1200mm  
Corner Pieces are available at 45° to 135° angles for all standard slot sizes.



## ACCESSORIES

### Plenum Boxes:

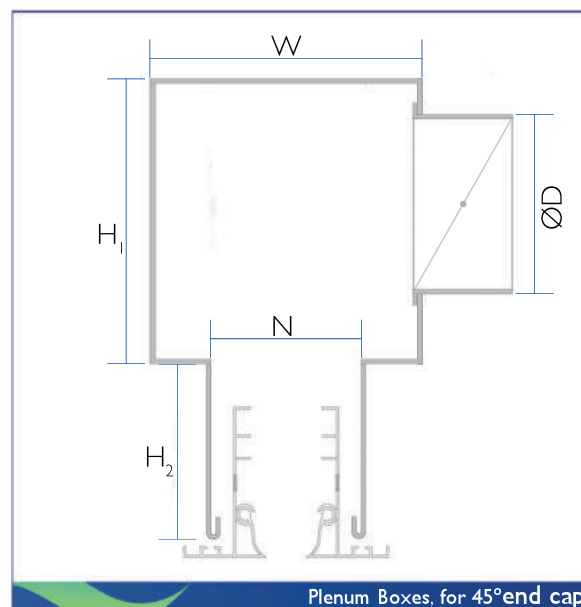
- Suitable for supply and exhaust linear slot diffuser.
- Galvanized steel construction.
- Supply as standard with one side inlet per metre length.
- Special constructions available on request.

### Options:

- Manual quadrant damper, code RVCD.

### Sizes:

- Maximum length available 2000mm.
- Other Ø D available on request.



#### 25mm Slots - 45° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 225 | 225 | 275 | 275 | 325 | 325 | 375 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 53  | 97  | 142 | 185 | 230 | 273 | 317 | 361 |
| ØD             | 150 | 150 | 200 | 200 | 250 | 250 | 300 | 300 |
| W              | 153 | 197 | 243 | 285 | 330 | 373 | 417 | 461 |

#### 20mm Slots - 45° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 225 | 225 | 275 | 275 | 325 | 325 | 375 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 48  | 87  | 126 | 165 | 204 | 243 | 282 | 321 |
| ØD             | 150 | 150 | 200 | 200 | 250 | 250 | 300 | 300 |
| W              | 148 | 187 | 226 | 265 | 304 | 343 | 382 | 421 |

#### 16mm Slots - 45° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 175 | 225 | 225 | 275 | 275 | 325 | 325 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 43  | 77  | 111 | 145 | 179 | 213 | 247 | 283 |
| ØD             | 100 | 150 | 150 | 200 | 200 | 250 | 250 | 300 |
| W              | 143 | 177 | 211 | 245 | 279 | 313 | 347 | 383 |

#### NOTES:

- \* The above parameters for 1m length.
- \* Maximum length as a single piece is 4m.

## ACCESSORIES

### Plenum Boxes:

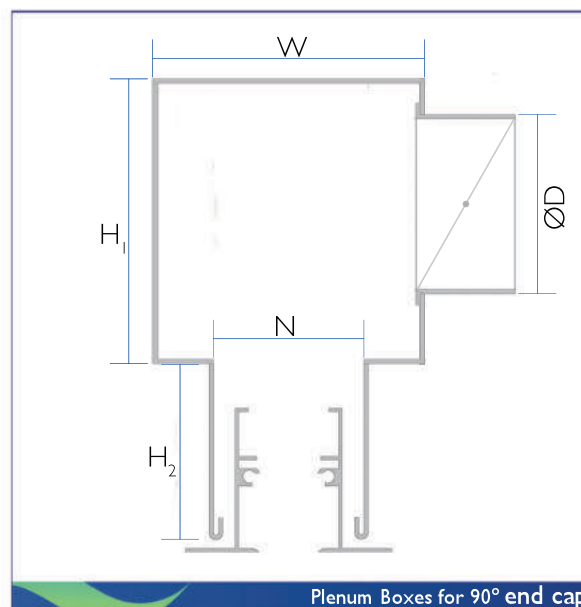
- Suitable for supply and exhaust linear slot diffuser.
- Galvanized steel construction.
- Supply as standard with one side inlet per metre length.
- Special constructions available on request.

### Options:

- Manual quadrant damper, code RVCD.

### Sizes:

- Maximum length available 2000mm.
- Other Ø D available on request.



Plenum Boxes for 90° end cap

#### 25mm Slots - 90° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 225 | 225 | 275 | 275 | 325 | 325 | 375 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 53  | 97  | 141 | 185 | 229 | 273 | 317 | 363 |
| ØD             | 150 | 150 | 200 | 200 | 250 | 250 | 300 | 300 |
| W              | 153 | 197 | 241 | 285 | 329 | 373 | 417 | 463 |

#### 20mm Slots - 90° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 225 | 225 | 275 | 275 | 325 | 325 | 375 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 48  | 87  | 126 | 165 | 206 | 243 | 282 | 323 |
| ØD             | 150 | 150 | 200 | 200 | 250 | 250 | 300 | 300 |
| W              | 148 | 187 | 226 | 265 | 306 | 343 | 382 | 423 |

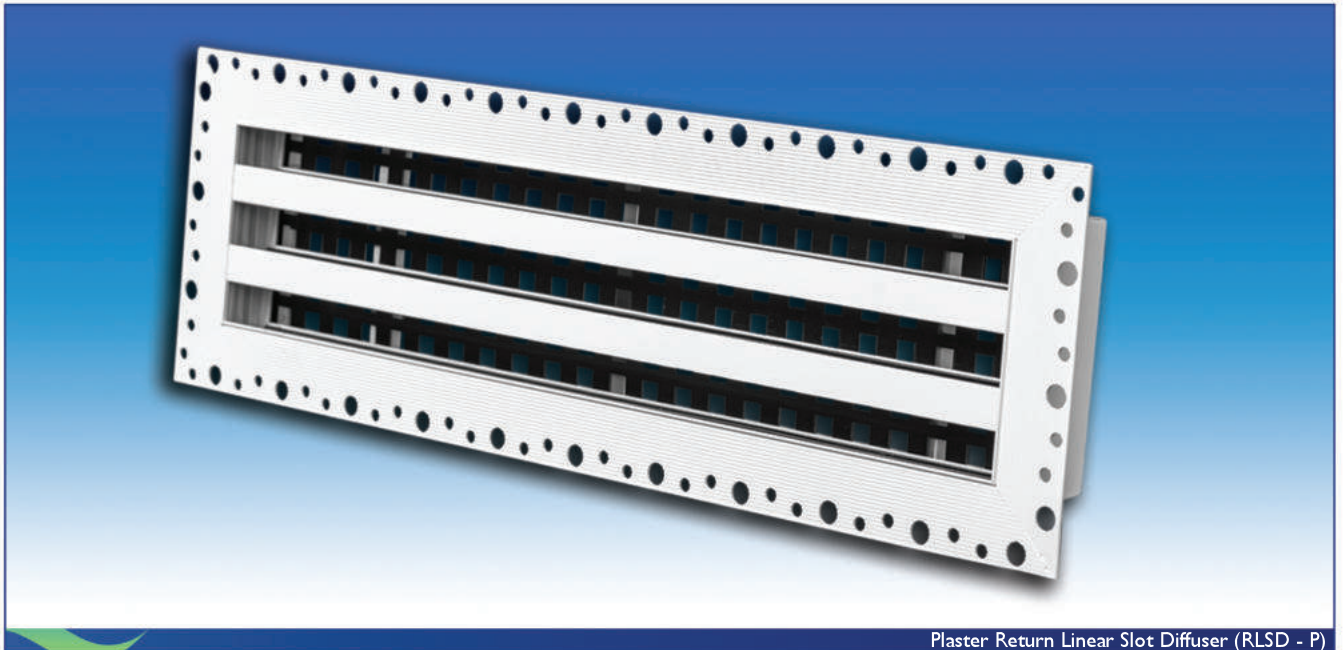
#### 16mm Slots - 90° end cap

| No. of Slots   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| H <sub>1</sub> | 175 | 225 | 225 | 275 | 275 | 325 | 325 | 375 |
| H <sub>2</sub> | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| N              | 44  | 78  | 112 | 146 | 180 | 214 | 248 | 282 |
| ØD             | 100 | 150 | 150 | 200 | 200 | 250 | 250 | 300 |
| W              | 144 | 178 | 212 | 246 | 280 | 314 | 348 | 382 |

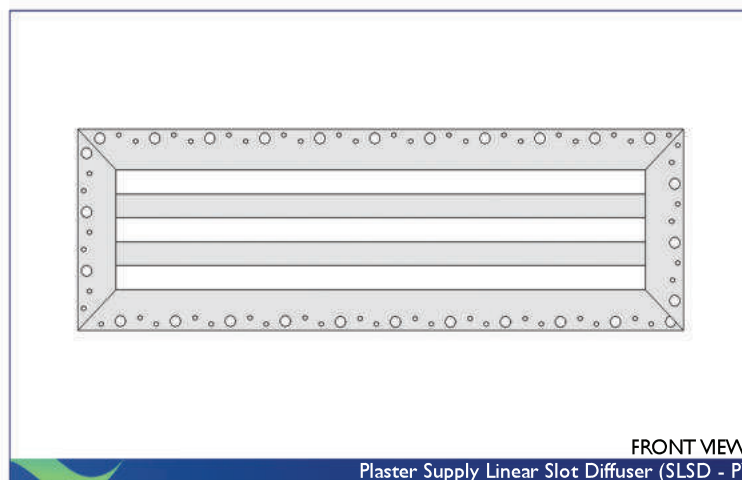
#### NOTES:

- \* The above parameters for 1m length.
- \* Maximum length as a single piece is 4m.

**PLASTER LINEAR SLOT DIFFUSER (SLSD-P & RLSD-P)**



Plaster Return Linear Slot Diffuser (RLSD - P)



FRONT VIEW  
Plaster Supply Linear Slot Diffuser (SLSD - P)

**Products Features:**

- Suitable for installation within ceilings. Can directly install it in a cut out in the plaster board ceiling where the outer boarder sets in suitable for a plaster skim.
- Frame and curved deflection blades are made of extruded aluminium alloy 6063 to T6 Heat Treatment.
- Available in Hit and Miss Damper of GI sheet to control air flow rate without affecting the air flow patterns.
- 180° fully adjustable air flow patterns by means of two air deflector blades per slot.
- Both Deflector Blades and Hit & Miss Damper are powder coated with black color.
- Available in 1 to 8 slots.
- Standard slot width is 1/2" (16mm), 3/4" (20mm) and 1" (25mm).
- Maximum of one piece length is 3000mm. Larger pieces are jointed using hairline butt joints held by special alignment strips to ensure continuous unbroken runs.
- Plaster-in design.

## DIMENSIONS

### Standard Slot Size 25mm

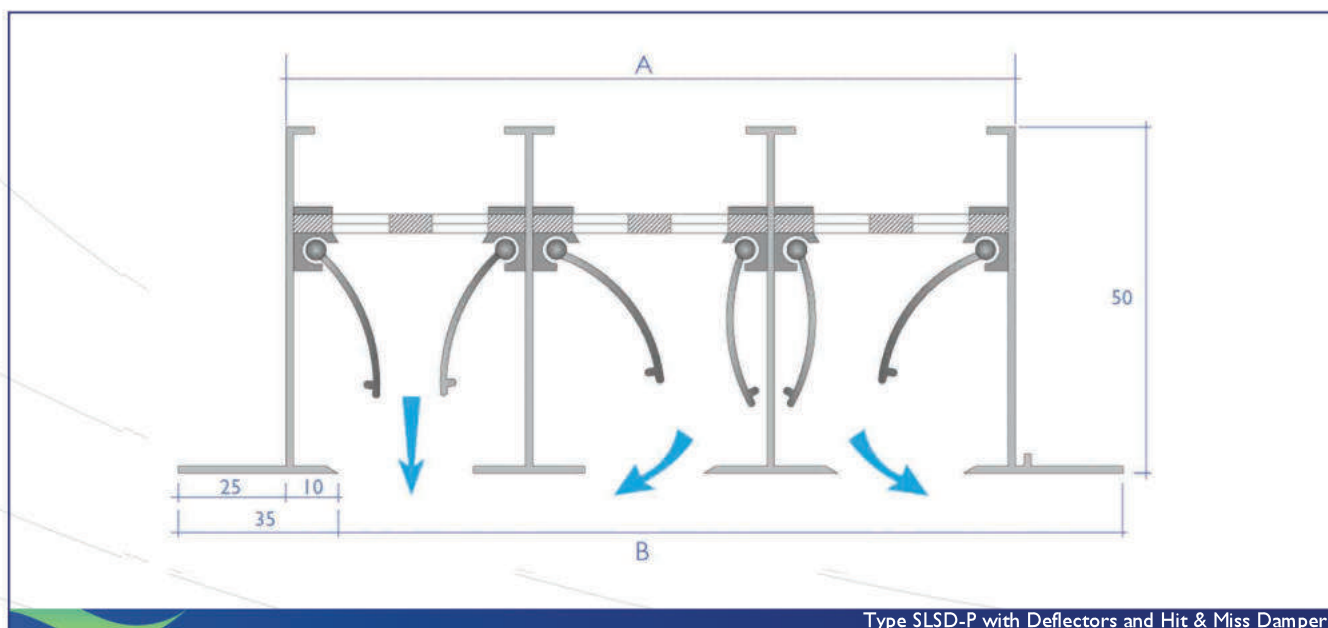
| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 45     | 90     | 134    | 179    | 223    | 268    | 311    | 355    |
| Flange Size B (mm) | 95     | 138    | 183    | 229    | 273    | 318    | 362    | 405    |

### Standard Slot Size 20mm

| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 40     | 80     | 119    | 158    | 197    | 236    | 275    | 310    |
| Flange Size B (mm) | 90     | 130    | 170    | 206    | 245    | 287    | 325    | 362    |

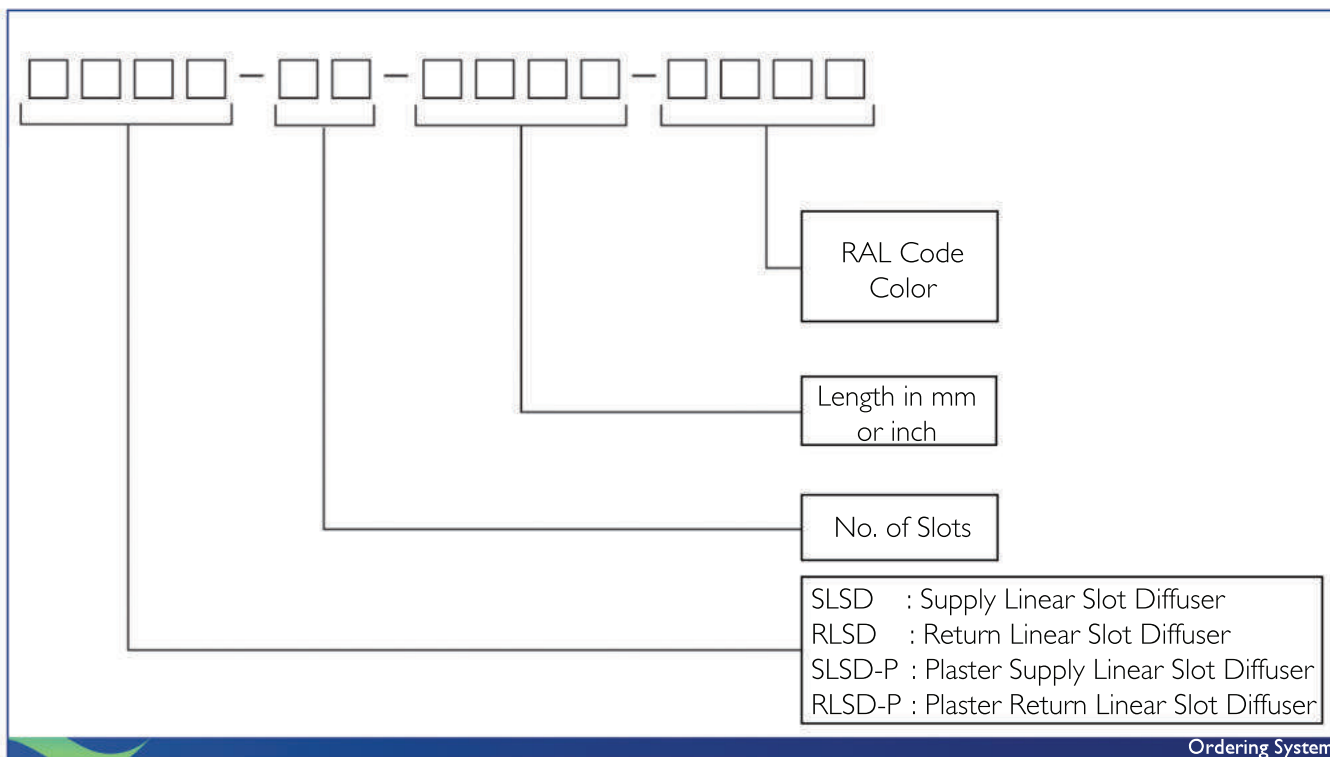
### Standard Slot Size 16mm

| No. of Slots       | 1 Slot | 2 Slot | 3 Slot | 4 Slot | 5 Slot | 6 Slot | 7 Slot | 8 Slot |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Neck Size A (mm)   | 35     | 70     | 105    | 140    | 175    | 207    | 242    | 275    |
| Flange Size B (mm) | 85     | 120    | 157    | 187    | 225    | 257    | 294    | 327    |



Type SLSD-P with Deflectors and Hit & Miss Dampers

## ORDERING SYSTEM



## ORDERING EXAMPLE

### SLSD-3S-1200-9016

Stands for SLSD model, 3-Slots, 1200mm length and powder coated to RAL-9016 color code.

Aligning strips are provided with each length of 3m.

For Curved Segments, remark of curvature and plan of curvature shall be included in the order. Our technicians are available, at your request, to take actual measurements on site without any extra charges.

## GENERAL NOTES

Pages onwards give performance data for all models and variants, and unless otherwise stated the following general notes apply:

1. Throws shown are to three terminal velocity of 0.25m/s, 0.50m/s, 0.75m/s, (50fpm, 100fpm, 150fpm) with coanda effect across a flat ceiling and with supply air at conditions with max  $\Delta T = 10k$  cooling.
2. For standard room height of 2.75 metres, throws should be taken as the distance to the nearest wall (minimum plan dimension, MPD), or to half the distance between linear slot diffuser centres.
3. Care should be taken to avoid 'dumping' on cooling cycles if low jet velocities at the diffuser core. In order to avoid this, it is advisable to ensure that neck velocities do not drop below 0.75m/s.
4. The acoustic data were tested in accordance to ASHRAE 70-1991 standard. The octave band sound power levels obtained were plotted to determine the point of tangency with the highest rank Noise Criteria curve (NC) to establish the NC.

Noise Criteria ratings were determined by subtracting room absorption of 10dB from the sound power level data.

5. NC and Pressure values shown, are based on a slot diffuser where the pattern control vanes were set for maximum horizontal throw for one of the test and positioned fully open for the vertical throw test. The hit and miss damper is aligned at a fully open position. The damper should only be used for fine balancing, as for every doubling of pressure there is a resulting increase in the noise level of +9dB for supply, or +5dB for exhaust.
6. The following tables include the results of tests conducted on samples of air terminals. The test results include Noise Criteria (NC), static pressure versus air flow, throw and Sound effective area. Extrapolation was used to obtain the performance for other sizes and other parameters within the range of products mentioned above.

Test method included in Report.

## TEST REPORTS

**Intertek ETL SEMKO**

Order No. 3063712

REPORT NO. 3063712-006

TEST OF AREA FACTOR, THROW PATTERN, STATIC PRESSURE AND SOUND POWER LEVEL OF A LINEAR THREE SLOT SUPPLY DIFFUSER

RENDERED TO  
**FLOWTECH**  
PO BOX 1871  
DUBAI, U.A.E.

**INTRODUCTION**  
This report gives the results of tests conducted on a linear three slot supply diffuser. The test results include Area Factor, Throw Pattern, Static Pressure and Sound Power Level. The sample was selected and supplied by the client and received at the laboratories on August 5, 2004. The diffuser appeared to be in new unused condition upon receipt.

**AUTHORIZATION**  
Purchase Order No. GD-02-04 dated July 27, 2004 from Faisal Jassim Trading Co (L.L.C).

**TEST METHOD**  
The diffuser was tested in accordance with the ASHRAE 70-1991 Standard "Method of Testing for Rating the Performance of Air Outlets and Inlets". The diffuser was installed in the facility and supplied with measured volumes of air. The static pressure was measured 1½ duct diameters upstream of the diffuser.

An independent organization testing for safety, performance, and certification.

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Intertek  
2933 U.S. St. 11  
Cordland, NY 13046  
Phone 607-753-6711  
Fax 607-758-6886

September 16, 2004

**Intertek ETL SEMKO**

Order No. 3063712

REPORT NO. 3063712-007

TEST OF AREA FACTOR, THROW PATTERN, STATIC PRESSURE AND SOUND POWER LEVEL OF A LINEAR TWO SLOT SUPPLY DIFFUSER

RENDERED TO  
**FLOWTECH**  
PO BOX 1871  
DUBAI, U.A.E.

**INTRODUCTION**  
This report gives the results of tests conducted on a linear two slot supply diffuser. The test results include Area Factor, Throw Pattern, Static Pressure and Sound Power Level. The sample was selected and supplied by the client and received at the laboratories on August 5, 2004. The diffuser appeared to be in new unused condition upon receipt.

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Intertek  
2933 U.S. St. 11  
Cordland, NY 13046  
Phone 607-753-6711  
Fax 607-758-6886

September 21, 2004

## PERFORMANCE DATA - SI UNITS

## SYMBOLS

L/Sec : Air Volume in Litres per second.  
Af : Effective free area in square meters per Lm.  
Vf : Face Velocity in meters per second.  
Ak : Neck Area in square meters per Lm.  
Vk : Neck Velocity in meters per second.  
Pt : Total pressure in Pascal.  
Th : Throw in meters.  
NC : Noise Criteria.

## NOTES

- The large throw values are based on the minimum terminal velocity of 0.25 m/sec.
- The middle throw values are based on the medium terminal velocity of 0.50 m/sec.
- The small throw values are based on the maximum terminal velocity of 0.75 m/sec.

## CONDITIONS

- Supply or Return as indicated.
- Noise Criteria values are based on (10dB) room attenuation.
- Damper is fully open.
- Maximum room height = 4.0m
- Maximum Cooling @  $\Delta T = 10K$

### Notes:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slightly textured appearance and some very faint, light-colored smudges or shadows, particularly towards the bottom right corner, suggesting it might be a scan of a physical document.



**SUPPLY AIR SLOT DIFFUSER - SLSD**  
HORIZONTAL

**SI-UNITS**

| NO. OF SLOTS | AIR FLOW (L/s) / LM | 16mm SLOTWIDTH                      |         |                              |     |     |    | 20mm SLOTWIDTH                      |         |                              |     |     |     | 25mm SLOTWIDTH                      |         |                              |     |     |     |
|--------------|---------------------|-------------------------------------|---------|------------------------------|-----|-----|----|-------------------------------------|---------|------------------------------|-----|-----|-----|-------------------------------------|---------|------------------------------|-----|-----|-----|
|              |                     | EFFECTIVE AREA (m <sup>2</sup> /LM) | Pt (Pa) | THROW @ (0.25/0.50/0.75) m/s |     |     | NC | EFFECTIVE AREA (m <sup>2</sup> /LM) | Pt (Pa) | THROW @ (0.25/0.50/0.75) m/s |     |     | NC  | EFFECTIVE AREA (m <sup>2</sup> /LM) | Pt (Pa) | THROW @ (0.25/0.50/0.75) m/s |     |     | NC  |
| 1            | 25                  | 0.004                               | 14      | 2.8                          | 1.6 | 0.7 | 24 | 0.005                               | 9       | 2.5                          | 1.3 | 0.4 | 19  | 0.006                               | 6       | 2.2                          | 2.0 | 1.2 | <15 |
|              | 40                  |                                     | 38      | 3.8                          | 2.5 | 1.5 | 35 |                                     | 24      | 3.5                          | 2.2 | 1.2 | 28  |                                     | 16      | 3.2                          | 1.9 | 1.0 | 23  |
|              | 55                  |                                     | 70      | 6.2                          | 3.9 | 2.4 | 46 |                                     | 45      | 5.7                          | 3.6 | 2.1 | 36  |                                     | 29      | 5.2                          | 3.3 | 1.8 | 29  |
|              | 70                  |                                     | 112     | 8.4                          | 5.7 | 3.9 | 54 |                                     | 72      | 7.8                          | 5.1 | 3.6 | 43  |                                     | 46      | 7.2                          | 4.5 | 3.3 | 34  |
| 2            | 25                  | 0.011                               | 5       | 2.8                          | 1.9 | 1.2 | 16 | 0.013                               | 3       | 2.5                          | 1.6 | 0.9 | <15 | 0.018                               | 2       | 2.2                          | 1.3 | 0.9 | <15 |
|              | 50                  |                                     | 19      | 5.7                          | 3.4 | 1.5 | 27 |                                     | 12      | 5.4                          | 3.1 | 1.2 | 22  |                                     | 8       | 4.8                          | 2.8 | 0.9 | 17  |
|              | 75                  |                                     | 42      | 7.7                          | 4.4 | 2.0 | 41 |                                     | 27      | 7.0                          | 4.0 | 1.7 | 33  |                                     | 17      | 6.4                          | 3.7 | 1.4 | 26  |
|              | 100                 |                                     | 74      | 9.8                          | 6.5 | 3.0 | 52 |                                     | 47      | 8.9                          | 5.9 | 2.7 | 42  |                                     | 30      | 8.2                          | 5.3 | 2.4 | 33  |
| 3            | 50                  | 0.018                               | 9       | 4.0                          | 2.0 | 1.3 | 22 | 0.025                               | 6       | 3.7                          | 1.7 | 1.0 | 18  | 0.028                               | 4       | 3.4                          | 1.4 | 0.9 | <15 |
|              | 75                  |                                     | 20      | 6.4                          | 3.2 | 1.9 | 31 |                                     | 10      | 4.2                          | 1.9 | 1.6 | 24  |                                     | 8       | 5.4                          | 2.6 | 1.3 | 19  |
|              | 100                 |                                     | 36      | 8.1                          | 4.8 | 2.3 | 41 |                                     | 18      | 7.5                          | 4.4 | 2.0 | 33  |                                     | 15      | 6.9                          | 4.0 | 1.7 | 26  |
|              | 125                 |                                     | 58      | 10.2                         | 6.5 | 3.4 | 49 |                                     | 27      | 8.6                          | 5.9 | 3.1 | 39  |                                     | 24      | 8.6                          | 5.3 | 2.8 | 31  |
| 4            | 75                  | 0.024                               | 12      | 5.1                          | 2.3 | 1.6 | 25 | 0.03                                | 7       | 4.8                          | 1.8 | 1.3 | 20  | 0.038                               | 5       | 4.5                          | 1.7 | 1.0 | 16  |
|              | 100                 |                                     | 21      | 6.4                          | 3.6 | 1.9 | 33 |                                     | 13      | 5.8                          | 3.3 | 1.6 | 26  |                                     | 8       | 5.4                          | 3.0 | 1.3 | 21  |
|              | 125                 |                                     | 32      | 7.9                          | 4.8 | 2.4 | 40 |                                     | 20      | 6.4                          | 4.4 | 2.1 | 31  |                                     | 13      | 6.6                          | 4.1 | 1.8 | 25  |
|              | 150                 |                                     | 46      | 9.8                          | 6.6 | 3.3 | 46 |                                     | 29      | 7.4                          | 6.0 | 3.0 | 37  |                                     | 19      | 8.5                          | 5.4 | 2.7 | 29  |
| 5            | 100                 | 0.03                                | 16      | 5.8                          | 2.7 | 2.0 | 28 | 0.038                               | 10      | 5.2                          | 2.4 | 1.7 | 22  | 0.048                               | 6       | 4.8                          | 2.1 | 1.4 | 18  |
|              | 125                 |                                     | 24      | 7.0                          | 4.0 | 2.6 | 34 |                                     | 15      | 6.9                          | 4.1 | 2.5 | 27  |                                     | 10      | 5.8                          | 3.4 | 2.0 | 22  |
|              | 150                 |                                     | 35      | 8.3                          | 5.2 | 3.2 | 40 |                                     | 22      | 9.3                          | 6.2 | 3.6 | 31  |                                     | 14      | 6.9                          | 4.4 | 2.5 | 25  |
|              | 175                 |                                     | 47      | 10.2                         | 6.9 | 4.0 | 46 |                                     | 30      | 7.9                          | 5.1 | 3.0 | 36  |                                     | 19      | 8.4                          | 5.7 | 3.2 | 29  |
| 6            | 125                 | 0.037                               | 18      | 5.9                          | 3.0 | 2.0 | 30 | 0.046                               | 12      | 6.1                          | 3.4 | 2.1 | 24  | 0.058                               | 8       | 4.7                          | 2.2 | 1.4 | 19  |
|              | 150                 |                                     | 26      | 7.1                          | 4.1 | 2.6 | 36 |                                     | 17      | 6.5                          | 3.8 | 2.3 | 29  |                                     | 11      | 5.9                          | 3.4 | 2.0 | 23  |
|              | 175                 |                                     | 36      | 8.8                          | 5.5 | 3.1 | 41 |                                     | 23      | 8.1                          | 5.1 | 2.8 | 33  |                                     | 15      | 7.3                          | 4.5 | 2.5 | 26  |
|              | 200                 |                                     | 47      | 10.6                         | 7.0 | 3.6 | 46 |                                     | 30      | 9.7                          | 6.4 | 3.3 | 36  |                                     | 19      | 8.8                          | 5.8 | 3.0 | 29  |

See notes on page E-12



**SUPPLY AIR SLOT DIFFUSER - SLSD**

VERTICAL

SI-UNITS

| NO. OF SLOTS | AIR FLOW (L/s) / LM | EFFECTIVE AREA (m2/LM) | 16mm    |           |    | EFFECTIVE AREA (m2/LM) | 20mm    |           |     | EFFECTIVE AREA (m2/LM) | 25mm    |           |     |
|--------------|---------------------|------------------------|---------|-----------|----|------------------------|---------|-----------|-----|------------------------|---------|-----------|-----|
|              |                     |                        | Pt (Pa) | THROW (m) | NC |                        | Pt (Pa) | THROW (m) | NC  |                        | Pt (Pa) | THROW (m) | NC  |
| 1            | 25                  | 0.006                  | 10      | 2.5       | 15 | 0.008                  | 7       | 2.2       | <15 | 0.010                  | 4       | 1.9       | <15 |
|              | 40                  |                        | 28      | 3.5       | 23 |                        | 18      | 3.1       | 18  |                        | 12      | 2.7       | <15 |
|              | 55                  |                        | 38      | 5.5       | 32 |                        | 33      | 4.9       | 25  |                        | 21      | 4.3       | 21  |
|              | 60                  |                        | 42      | 6.2       | 35 |                        | 39      | 5.6       | 28  |                        | 25      | 5.0       | 22  |
|              | 75                  |                        | 96      | -         | 42 |                        | 62      | -         | 34  |                        | 39      | -         | 26  |
|              | 90                  |                        | 141     | -         | 49 |                        | 90      | -         | 39  |                        | 58      | -         | 30  |
| 2            | 25                  | 0.017                  | 4       | 2.5       | 16 | 0.019                  | 2       | 2.2       | <15 | 0.026                  | 2       | 1.9       | <15 |
|              | 50                  |                        | 14      | 5.4       | 21 |                        | 9       | 4.8       | 17  |                        | 6       | 4.2       | <15 |
|              | 75                  |                        | 31      | 6.7       | 30 |                        | 20      | 6.1       | 24  |                        | 13      | 5.5       | 19  |
|              | 100                 |                        | 56      | 8.7       | 42 |                        | 36      | 8.0       | 32  |                        | 23      | 7.3       | 27  |
|              | 125                 |                        | 87      | -         | 48 |                        | 55      | -         | 36  |                        | 35      | -         | 31  |
|              | 150                 |                        | 125     | -         | 56 |                        | 80      | -         | 41  |                        | 51      | -         | 35  |
| 3            | 50                  | 0.024                  | 7       | 3.3       | 17 | 0.029                  | 4       | 2.9       | <15 | 0.038                  | 3       | 2.6       | <15 |
|              | 75                  |                        | 14      | 5.5       | 21 |                        | 9       | 4.9       | 17  |                        | 6       | 4.3       | <15 |
|              | 100                 |                        | 26      | 7.2       | 30 |                        | 11      | 6.6       | 24  |                        | 11      | 6.0       | 19  |
|              | 125                 |                        | 40      | 9.0       | 38 |                        | 16      | 8.3       | 30  |                        | 16      | 7.7       | 24  |
|              | 150                 |                        | 57      | -         | 45 |                        | 29      | -         | 35  |                        | 23      | -         | 28  |
|              | 175                 |                        | 78      | -         | 50 |                        | 37      | -         | 40  |                        | 32      | -         | 32  |
| 4            | 75                  | 0.030                  | 9       | 4.5       | 17 | 0.037                  | 6       | 4.2       | <15 | 0.046                  | 4       | 3.9       | <15 |
|              | 100                 |                        | 15      | 5.5       | 22 |                        | 10      | 5.1       | 18  |                        | 6       | 4.8       | <15 |
|              | 125                 |                        | 24      | 6.9       | 29 |                        | 15      | 6.3       | 23  |                        | 10      | 5.7       | 19  |
|              | 150                 |                        | 35      | 8.9       | 35 |                        | 22      | 8.2       | 28  |                        | 14      | 7.5       | 22  |
|              | 175                 |                        | 47      | -         | 40 |                        | 30      | -         | 32  |                        | 19      | -         | 25  |
|              | 200                 |                        | 62      | -         | 43 |                        | 40      | -         | 35  |                        | 25      | -         | 28  |
| 5            | 100                 | 0.037                  | 10      | 4.8       | 16 | 0.046                  | 7       | 4.5       | <15 | 0.058                  | 4       | 4.2       | <15 |
|              | 125                 |                        | 16      | 5.9       | 21 |                        | 10      | 5.6       | 16  |                        | 6       | 5.2       | <15 |
|              | 150                 |                        | 23      | 7.5       | 27 |                        | 14      | 6.9       | 22  |                        | 9       | 6.3       | 17  |
|              | 175                 |                        | 31      | 9.1       | 33 |                        | 20      | 8.4       | 26  |                        | 13      | 7.7       | 21  |
|              | 200                 |                        | 40      | -         | 37 |                        | 26      | -         | 29  |                        | 16      | -         | 23  |
|              | 225                 |                        | 51      | -         | 42 |                        | 33      | -         | 33  |                        | 21      | -         | 27  |
| 6            | 125                 | 0.043                  | 11      | 5.0       | 16 | 0.056                  | 7       | 4.6       | <15 | 0.068                  | 5       | 4.2       | <15 |
|              | 150                 |                        | 16      | 6.2       | 20 |                        | 10      | 5.6       | 16  |                        | 7       | 5.0       | <15 |
|              | 175                 |                        | 22      | 7.8       | 25 |                        | 14      | 7.2       | 20  |                        | 9       | 6.6       | <15 |
|              | 200                 |                        | 29      | 9.7       | 29 |                        | 18      | 9.0       | 23  |                        | 12      | 8.2       | 19  |
|              | 225                 |                        | 37      | -         | 33 |                        | 23      | -         | 26  |                        | 15      | -         | 21  |
|              | 250                 |                        | 45      | -         | 37 |                        | 29      | -         | 29  |                        | 19      | -         | 24  |

See notes on page E-12

**PLASTER SUPPLY AIR SLOT DIFFUSER  
SLSD - P**



**SI-UNITS**

| NO. OF SLOTS | AIR FLOW (L/s) / LM | 16mm                   |         |           |    | 20mm                   |         |           |     | 25mm                   |         |           |     |
|--------------|---------------------|------------------------|---------|-----------|----|------------------------|---------|-----------|-----|------------------------|---------|-----------|-----|
|              |                     | EFFECTIVE AREA (m2/LM) | Pt (Pa) | THROW (m) | NC | EFFECTIVE AREA (m2/LM) | Pt (Pa) | THROW (m) | NC  | EFFECTIVE AREA (m2/LM) | Pt (Pa) | THROW (m) | NC  |
| 1            | 25                  | 0.006                  | 10      | 2.5       | 15 | 0.008                  | 7       | 2.2       | <15 | 0.010                  | 4       | 1.9       | <15 |
|              | 40                  |                        | 28      | 3.5       | 23 |                        | 18      | 3.1       | 18  |                        | 12      | 2.7       | <15 |
|              | 55                  |                        | 38      | 5.5       | 32 |                        | 33      | 4.9       | 25  |                        | 21      | 4.3       | 21  |
|              | 60                  |                        | 42      | 6.2       | 35 |                        | 39      | 5.6       | 28  |                        | 25      | 5.0       | 22  |
|              | 75                  |                        | 96      | -         | 42 |                        | 62      | -         | 34  |                        | 39      | -         | 26  |
|              | 90                  |                        | 141     | -         | 49 |                        | 90      | -         | 39  |                        | 58      | -         | 30  |
| 2            | 25                  | 0.017                  | 4       | 2.5       | 16 | 0.019                  | 2       | 2.2       | <15 | 0.026                  | 2       | 1.9       | <15 |
|              | 50                  |                        | 14      | 5.4       | 21 |                        | 9       | 4.8       | 17  |                        | 6       | 4.2       | <15 |
|              | 75                  |                        | 31      | 6.7       | 30 |                        | 20      | 6.1       | 24  |                        | 13      | 5.5       | 19  |
|              | 100                 |                        | 56      | 8.7       | 42 |                        | 36      | 8.0       | 32  |                        | 23      | 7.3       | 27  |
|              | 125                 |                        | 87      | -         | 48 |                        | 55      | -         | 36  |                        | 35      | -         | 31  |
|              | 150                 |                        | 125     | -         | 56 |                        | 80      | -         | 41  |                        | 51      | -         | 35  |
| 3            | 50                  | 0.024                  | 7       | 3.3       | 17 | 0.029                  | 4       | 2.9       | <15 | 0.038                  | 3       | 2.6       | <15 |
|              | 75                  |                        | 14      | 5.5       | 21 |                        | 9       | 4.9       | 17  |                        | 6       | 4.3       | <15 |
|              | 100                 |                        | 26      | 7.2       | 30 |                        | 11      | 6.6       | 24  |                        | 11      | 6.0       | 19  |
|              | 125                 |                        | 40      | 9.0       | 38 |                        | 16      | 8.3       | 30  |                        | 16      | 7.7       | 24  |
|              | 150                 |                        | 57      | -         | 45 |                        | 29      | -         | 35  |                        | 23      | -         | 28  |
|              | 175                 |                        | 78      | -         | 50 |                        | 37      | -         | 40  |                        | 32      | -         | 32  |
| 4            | 75                  | 0.030                  | 9       | 4.5       | 17 | 0.037                  | 6       | 4.2       | <15 | 0.046                  | 4       | 3.9       | <15 |
|              | 100                 |                        | 15      | 5.5       | 22 |                        | 10      | 5.1       | 18  |                        | 6       | 4.8       | <15 |
|              | 125                 |                        | 24      | 6.9       | 29 |                        | 15      | 6.3       | 23  |                        | 10      | 5.7       | 19  |
|              | 150                 |                        | 35      | 8.9       | 35 |                        | 22      | 8.2       | 28  |                        | 14      | 7.5       | 22  |
|              | 175                 |                        | 47      | -         | 40 |                        | 30      | -         | 32  |                        | 19      | -         | 25  |
|              | 200                 |                        | 62      | -         | 43 |                        | 40      | -         | 35  |                        | 25      | -         | 28  |
| 5            | 100                 | 0.037                  | 10      | 4.8       | 16 | 0.046                  | 7       | 4.5       | <15 | 0.058                  | 4       | 4.2       | <15 |
|              | 125                 |                        | 16      | 5.9       | 21 |                        | 10      | 5.6       | 16  |                        | 6       | 5.2       | <15 |
|              | 150                 |                        | 23      | 7.5       | 27 |                        | 14      | 6.9       | 22  |                        | 9       | 6.3       | 17  |
|              | 175                 |                        | 31      | 9.1       | 33 |                        | 20      | 8.4       | 26  |                        | 13      | 7.7       | 21  |
|              | 200                 |                        | 40      | -         | 37 |                        | 26      | -         | 29  |                        | 16      | -         | 23  |
|              | 225                 |                        | 51      | -         | 42 |                        | 33      | -         | 33  |                        | 21      | -         | 27  |
| 6            | 125                 | 0.043                  | 11      | 5.0       | 16 | 0.056                  | 7       | 4.6       | <15 | 0.068                  | 5       | 4.2       | <15 |
|              | 150                 |                        | 16      | 6.2       | 20 |                        | 10      | 5.6       | 16  |                        | 7       | 5.0       | <15 |
|              | 175                 |                        | 22      | 7.8       | 25 |                        | 14      | 7.2       | 20  |                        | 9       | 6.6       | <15 |
|              | 200                 |                        | 29      | 9.7       | 29 |                        | 18      | 9.0       | 23  |                        | 12      | 8.2       | 19  |
|              | 225                 |                        | 37      | -         | 33 |                        | 23      | -         | 26  |                        | 15      | -         | 21  |
|              | 250                 |                        | 45      | -         | 37 |                        | 29      | -         | 29  |                        | 19      | -         | 24  |

See notes on page E-12

**RETURN AIR SLOT DIFFUSER- RLSD**



**SI-UNITS**

| NO. OF SLOTS | AIR FLOW (L/s) / LM | 16mm SLOTWIDTH |    | 20mm SLOTWIDTH |    | 25mm SLOTWIDTH |    |
|--------------|---------------------|----------------|----|----------------|----|----------------|----|
|              |                     | Pt (Pa)        | NC | Pt (Pa)        | NC | Pt (Pa)        | NC |
| 1            | 40                  | 46             | 27 | 29             | 22 | 19             | 17 |
|              | 50                  | 70             | 33 | 45             | 27 | 29             | 22 |
|              | 65                  | 118            | 45 | 76             | 36 | 49             | 29 |
|              | 80                  | 180            | 54 | 115            | 43 | 74             | 34 |
| 2            | 75                  | 47             | 26 | 30             | 21 | 19             | 17 |
|              | 90                  | 69             | 34 | 44             | 28 | 28             | 22 |
|              | 100                 | 84             | 38 | 54             | 31 | 35             | 25 |
|              | 125                 | 129            | 47 | 83             | 38 | 53             | 30 |
| 3            | 100                 | 47             | 27 | 30             | 22 | 19             | 17 |
|              | 125                 | 72             | 35 | 46             | 27 | 30             | 22 |
|              | 150                 | 104            | 41 | 66             | 33 | 43             | 27 |
|              | 200                 | 187            | 52 | 120            | 41 | 77             | 33 |
| 4            | 150                 | 74             | 30 | 47             | 24 | 30             | 19 |
|              | 175                 | 100            | 37 | 64             | 30 | 41             | 24 |
|              | 200                 | 128            | 42 | 82             | 33 | 53             | 27 |
|              | 250                 | 198            | 50 | 127            | 40 | 81             | 31 |
| 5            | 150                 | 52             | 28 | 33             | 22 | 21             | 18 |
|              | 200                 | 92             | 37 | 59             | 29 | 38             | 23 |
|              | 250                 | 144            | 44 | 92             | 35 | 59             | 28 |
|              | 300                 | 206            | 51 | 132            | 40 | 84             | 32 |
| 6            | 200                 | 72             | 31 | 46             | 24 | 30             | 19 |
|              | 250                 | 113            | 38 | 72             | 31 | 46             | 24 |
|              | 300                 | 162            | 46 | 104            | 36 | 66             | 29 |
|              | 350                 | 220            | 52 | 141            | 41 | 90             | 33 |

See notes on page E-12

**PLASTER RETURN AIR SLOT DIFFUSER  
RLSD - P**



**SI-UNITS**

| NO. OF SLOTS | AIR FLOW (L/s) / LM | 16mm SLOTWIDTH |    | 20mm SLOTWIDTH |    | 25mm SLOTWIDTH |    |
|--------------|---------------------|----------------|----|----------------|----|----------------|----|
|              |                     | Pt (Pa)        | NC | Pt (Pa)        | NC | Pt (Pa)        | NC |
| 1            | 40                  | 46             | 27 | 29             | 22 | 19             | 17 |
|              | 50                  | 70             | 33 | 45             | 27 | 29             | 22 |
|              | 65                  | 118            | 45 | 76             | 36 | 49             | 29 |
|              | 80                  | 180            | 54 | 115            | 43 | 74             | 34 |
| 2            | 75                  | 47             | 26 | 30             | 21 | 19             | 17 |
|              | 90                  | 69             | 34 | 44             | 28 | 28             | 22 |
|              | 100                 | 84             | 38 | 54             | 31 | 35             | 25 |
|              | 125                 | 129            | 47 | 83             | 38 | 53             | 30 |
| 3            | 100                 | 47             | 27 | 30             | 22 | 19             | 17 |
|              | 125                 | 72             | 35 | 46             | 27 | 30             | 22 |
|              | 150                 | 104            | 41 | 66             | 33 | 43             | 27 |
|              | 200                 | 187            | 52 | 120            | 41 | 77             | 33 |
| 4            | 150                 | 74             | 30 | 47             | 24 | 30             | 19 |
|              | 175                 | 100            | 37 | 64             | 30 | 41             | 24 |
|              | 200                 | 128            | 42 | 82             | 33 | 53             | 27 |
|              | 250                 | 198            | 50 | 127            | 40 | 81             | 31 |
| 5            | 150                 | 52             | 28 | 33             | 22 | 21             | 18 |
|              | 200                 | 92             | 37 | 59             | 29 | 38             | 23 |
|              | 250                 | 144            | 44 | 92             | 35 | 59             | 28 |
|              | 300                 | 206            | 51 | 132            | 40 | 84             | 32 |
| 6            | 200                 | 72             | 31 | 46             | 24 | 30             | 19 |
|              | 250                 | 113            | 38 | 72             | 31 | 46             | 24 |
|              | 300                 | 162            | 46 | 104            | 36 | 66             | 29 |
|              | 350                 | 220            | 52 | 141            | 41 | 90             | 33 |

See notes on page E-12

## PERFORMANCE DATA - IP UNITS

## SYMBOLS

CFM : Air Volume in cubic feet per minute.  
 Af : Effective free area in square feet per L.Ft.  
 Vf : Face Velocity in feet per minute.  
 Ak : Neck Area in square feet per L.Ft.  
 Vk : Neck Velocity in feet per minute.  
 Pt : Total pressure in inches water gauge.  
 Th : Throw in feet.  
 NC : Noise Criteria.

## NOTES

- The large throw values are based on the minimum terminal velocity of 50 fpm.
- The middle throw values are based on the medium terminal velocity of 100 fpm.
- The small throw values are based on the maximum terminal velocity of 150 fpm.

## CONDITIONS

- Supply or Return as indicated.
- Noise Criteria values are based on (10dB) room attenuation.
- Damper is fully open.
- Maximum room height = 4.0m
- Maximum Cooling @  $\Delta T = 10K$

### Notes:

[illegible]

**SUPPLY AIR SLOT DIFFUSER - SLSD**  
HORIZONTAL



**IP-UNITS**

| NO. OF SLOTS | AIR FLOW (CFM / LFT) | 1/2" SLOTWIDTH              |            |                                            |    |    |    | 3/4" SLOTWIDTH              |            |                                            |    |    |     | 1" SLOTWIDTH                |            |                                            |    |    |     |
|--------------|----------------------|-----------------------------|------------|--------------------------------------------|----|----|----|-----------------------------|------------|--------------------------------------------|----|----|-----|-----------------------------|------------|--------------------------------------------|----|----|-----|
|              |                      | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW @ (50/100/150) fpm Terminal Velocity |    |    | NC | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW @ (50/100/150) fpm Terminal Velocity |    |    | NC  | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW @ (50/100/150) fpm Terminal Velocity |    |    | NC  |
| 1            | 16                   | 0.013                       | 0.057      | 9                                          | 5  | 2  | 24 | 0.016                       | 0.037      | 8                                          | 4  | 1  | 19  | 0.020                       | 0.024      | 7                                          | 7  | 4  | <15 |
|              | 26                   |                             | 0.153      | 13                                         | 8  | 5  | 35 |                             | 0.098      | 12                                         | 7  | 4  | 28  |                             | 0.063      | 11                                         | 6  | 3  | 23  |
|              | 36                   |                             | 0.283      | 20                                         | 13 | 8  | 46 |                             | 0.181      | 19                                         | 12 | 7  | 36  |                             | 0.116      | 17                                         | 11 | 6  | 29  |
|              | 45                   |                             | 0.449      | 27                                         | 19 | 13 | 54 |                             | 0.287      | 26                                         | 17 | 12 | 43  |                             | 0.184      | 24                                         | 15 | 11 | 34  |
| 2            | 16                   | 0.036                       | 0.018      | 9                                          | 6  | 4  | 16 | 0.043                       | 0.012      | 8                                          | 5  | 3  | <15 | 0.059                       | 0.008      | 7                                          | 4  | 3  | <15 |
|              | 32                   |                             | 0.076      | 19                                         | 11 | 5  | 27 |                             | 0.049      | 18                                         | 10 | 4  | 22  |                             | 0.031      | 16                                         | 9  | 3  | 17  |
|              | 48                   |                             | 0.168      | 25                                         | 14 | 6  | 41 |                             | 0.107      | 23                                         | 13 | 5  | 33  |                             | 0.069      | 21                                         | 12 | 4  | 26  |
|              | 65                   |                             | 0.298      | 32                                         | 21 | 10 | 52 |                             | 0.191      | 29                                         | 19 | 9  | 42  |                             | 0.122      | 27                                         | 17 | 8  | 33  |
| 3            | 32                   | 0.059                       | 0.038      | 13                                         | 6  | 4  | 22 | 0.082                       | 0.024      | 12                                         | 5  | 3  | 18  | 0.092                       | 0.016      | 11                                         | 4  | 3  | <15 |
|              | 48                   |                             | 0.082      | 21                                         | 11 | 6  | 31 |                             | 0.040      | 19                                         | 10 | 5  | 24  |                             | 0.034      | 18                                         | 9  | 4  | 19  |
|              | 65                   |                             | 0.146      | 27                                         | 16 | 8  | 41 |                             | 0.072      | 24                                         | 14 | 7  | 33  |                             | 0.060      | 22                                         | 13 | 6  | 26  |
|              | 81                   |                             | 0.232      | 33                                         | 21 | 11 | 49 |                             | 0.108      | 32                                         | 19 | 10 | 39  |                             | 0.095      | 28                                         | 17 | 9  | 31  |
| 4            | 48                   | 0.079                       | 0.047      | 17                                         | 8  | 5  | 25 | 0.098                       | 0.030      | 16                                         | 6  | 4  | 20  | 0.125                       | 0.019      | 15                                         | 6  | 3  | 16  |
|              | 65                   |                             | 0.083      | 21                                         | 12 | 6  | 33 |                             | 0.053      | 19                                         | 11 | 5  | 26  |                             | 0.034      | 18                                         | 10 | 4  | 21  |
|              | 81                   |                             | 0.128      | 26                                         | 16 | 8  | 40 |                             | 0.082      | 21                                         | 15 | 7  | 31  |                             | 0.053      | 22                                         | 13 | 6  | 25  |
|              | 97                   |                             | 0.185      | 32                                         | 22 | 11 | 46 |                             | 0.118      | 24                                         | 20 | 10 | 37  |                             | 0.076      | 28                                         | 18 | 9  | 29  |
| 5            | 65                   | 0.098                       | 0.063      | 19                                         | 9  | 6  | 28 | 0.125                       | 0.040      | 17                                         | 8  | 5  | 22  | 0.157                       | 0.026      | 16                                         | 7  | 4  | 18  |
|              | 81                   |                             | 0.097      | 23                                         | 13 | 8  | 34 |                             | 0.062      | 23                                         | 13 | 8  | 27  |                             | 0.039      | 19                                         | 11 | 6  | 22  |
|              | 97                   |                             | 0.139      | 27                                         | 17 | 11 | 40 |                             | 0.089      | 30                                         | 20 | 12 | 31  |                             | 0.057      | 23                                         | 14 | 8  | 25  |
|              | 113                  |                             | 0.190      | 34                                         | 23 | 13 | 46 |                             | 0.121      | 26                                         | 17 | 10 | 36  |                             | 0.078      | 28                                         | 19 | 10 | 29  |
| 6            | 81                   | 0.121                       | 0.074      | 19                                         | 10 | 6  | 30 | 0.151                       | 0.048      | 20                                         | 11 | 7  | 24  | 0.190                       | 0.030      | 15                                         | 7  | 5  | 19  |
|              | 97                   |                             | 0.106      | 23                                         | 14 | 9  | 36 |                             | 0.068      | 21                                         | 13 | 8  | 29  |                             | 0.043      | 19                                         | 11 | 7  | 23  |
|              | 113                  |                             | 0.145      | 29                                         | 18 | 10 | 41 |                             | 0.093      | 26                                         | 17 | 9  | 33  |                             | 0.059      | 24                                         | 15 | 8  | 26  |
|              | 129                  |                             | 0.190      | 35                                         | 23 | 12 | 46 |                             | 0.122      | 32                                         | 21 | 11 | 36  |                             | 0.078      | 29                                         | 19 | 10 | 29  |

See notes on page E-18

# SUPPLY AIR SLOT DIFFUSER - SLSD VERTICAL



## IP-UNITS

## LINEAR SLOT DIFFUSERS

| NO. OF SLOTS | AIR FLOW (CFM / LFT) | 1/2"                        |            |            | 3/4" |                             |            | 1"         |     |                             |            |            |     |
|--------------|----------------------|-----------------------------|------------|------------|------|-----------------------------|------------|------------|-----|-----------------------------|------------|------------|-----|
|              |                      | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW (ft) | NC   | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW (ft) | NC  | EFFECTIVE AREA (Sq.Ft./LFT) | Pt (In-Wg) | THROW (ft) | NC  |
| 1            | 16                   | 0.020                       | 0.042      | 8          | 15   | 0.026                       | 0.027      | 7          | <15 | 0.033                       | 0.017      | 6          | <15 |
|              | 26                   |                             | 0.113      | 12         | 23   |                             | 0.072      | 10         | 18  |                             | 0.046      | 9          | <15 |
|              | 36                   |                             | 0.153      | 18         | 32   |                             | 0.134      | 16         | 25  |                             | 0.085      | 14         | 21  |
|              | 39                   |                             | 0.170      | 20         | 35   |                             | 0.158      | 18         | 28  |                             | 0.101      | 16         | 22  |
|              | 48                   |                             | 0.387      | -          | 42   |                             | 0.248      | -          | 34  |                             | 0.158      | -          | 26  |
|              | 58                   |                             | 0.566      | -          | 49   |                             | 0.362      | -          | 39  |                             | 0.232      | -          | 30  |
| 2            | 16                   | 0.056                       | 0.014      | 8          | 16   | 0.062                       | 0.009      | 7          | <15 | 0.085                       | 0.006      | 6          | <15 |
|              | 32                   |                             | 0.057      | 18         | 21   |                             | 0.036      | 16         | 17  |                             | 0.023      | 14         | <15 |
|              | 48                   |                             | 0.126      | 22         | 30   |                             | 0.080      | 20         | 24  |                             | 0.051      | 18         | 19  |
|              | 65                   |                             | 0.225      | 28         | 42   |                             | 0.144      | 26         | 32  |                             | 0.092      | 24         | 27  |
|              | 81                   |                             | 0.348      | -          | 48   |                             | 0.223      | -          | 36  |                             | 0.142      | -          | 31  |
|              | 97                   |                             | 0.502      | -          | 56   |                             | 0.321      | -          | 41  |                             | 0.206      | -          | 35  |
| 3            | 32                   | 0.079                       | 0.027      | 11         | 17   | 0.095                       | 0.017      | 10         | <15 | 0.125                       | 0.011      | 9          | <15 |
|              | 48                   |                             | 0.058      | 18         | 21   |                             | 0.037      | 16         | 17  |                             | 0.024      | 14         | <15 |
|              | 65                   |                             | 0.104      | 23         | 30   |                             | 0.044      | 21         | 24  |                             | 0.043      | 20         | 19  |
|              | 81                   |                             | 0.160      | 30         | 38   |                             | 0.064      | 27         | 30  |                             | 0.066      | 25         | 24  |
|              | 97                   |                             | 0.229      | -          | 45   |                             | 0.116      | -          | 35  |                             | 0.094      | -          | 28  |
|              | 113                  |                             | 0.312      | -          | 50   |                             | 0.149      | -          | 40  |                             | 0.128      | -          | 32  |
| 4            | 48                   | 0.098                       | 0.035      | 15         | 17   | 0.121                       | 0.023      | 14         | <15 | 0.151                       | 0.015      | 13         | <15 |
|              | 65                   |                             | 0.062      | 18         | 22   |                             | 0.040      | 17         | 18  |                             | 0.026      | 16         | <15 |
|              | 81                   |                             | 0.097      | 23         | 29   |                             | 0.062      | 21         | 23  |                             | 0.039      | 19         | 19  |
|              | 97                   |                             | 0.139      | 29         | 35   |                             | 0.089      | 27         | 28  |                             | 0.057      | 25         | 22  |
|              | 113                  |                             | 0.189      | -          | 40   |                             | 0.121      | -          | 32  |                             | 0.078      | -          | 25  |
|              | 129                  |                             | 0.248      | -          | 43   |                             | 0.159      | -          | 35  |                             | 0.102      | -          | 28  |
| 5            | 65                   | 0.121                       | 0.041      | 16         | 16   | 0.151                       | 0.026      | 15         | <15 | 0.190                       | 0.017      | 14         | <15 |
|              | 81                   |                             | 0.063      | 19         | 21   |                             | 0.040      | 18         | 16  |                             | 0.026      | 17         | <15 |
|              | 97                   |                             | 0.091      | 25         | 27   |                             | 0.058      | 23         | 22  |                             | 0.037      | 21         | 17  |
|              | 113                  |                             | 0.124      | 30         | 33   |                             | 0.079      | 28         | 26  |                             | 0.051      | 25         | 21  |
|              | 129                  |                             | 0.161      | -          | 37   |                             | 0.103      | -          | 29  |                             | 0.066      | -          | 23  |
|              | 145                  |                             | 0.204      | -          | 42   |                             | 0.131      | -          | 33  |                             | 0.084      | -          | 27  |
| 6            | 81                   | 0.141                       | 0.045      | 16         | 16   | 0.184                       | 0.029      | 15         | <15 | 0.223                       | 0.018      | 14         | <15 |
|              | 97                   |                             | 0.065      | 20         | 20   |                             | 0.042      | 18         | 16  |                             | 0.027      | 16         | <15 |
|              | 113                  |                             | 0.089      | 25         | 25   |                             | 0.057      | 23         | 20  |                             | 0.036      | 21         | <15 |
|              | 129                  |                             | 0.115      | 32         | 29   |                             | 0.074      | 29         | 23  |                             | 0.047      | 27         | 19  |
|              | 145                  |                             | 0.147      | -          | 33   |                             | 0.094      | -          | 26  |                             | 0.060      | -          | 21  |
|              | 162                  |                             | 0.182      | -          | 37   |                             | 0.117      | -          | 29  |                             | 0.074      | -          | 24  |

See notes on page E-18



**RETURN AIR SLOT DIFFUSER - RLSD**

**IP-UNITS**

| NO. OF SLOTS | AIR FLOW (CFM / LFT) | 1/2" SLOTWIDTH |    | 3/4" SLOTWIDTH |    | 1" SLOTWIDTH |    |
|--------------|----------------------|----------------|----|----------------|----|--------------|----|
|              |                      | Pt (In-Wg)     | NC | Pt (In-Wg)     | NC | Pt (In-Wg)   | NC |
| 1            | 26                   | 0.185          | 27 | 0.118          | 22 | 0.076        | 17 |
|              | 32                   | 0.280          | 33 | 0.179          | 27 | 0.115        | 22 |
|              | 42                   | 0.476          | 45 | 0.305          | 36 | 0.195        | 29 |
|              | 52                   | 0.724          | 54 | 0.463          | 43 | 0.296        | 34 |
| 2            | 48                   | 0.190          | 26 | 0.122          | 21 | 0.078        | 17 |
|              | 58                   | 0.277          | 34 | 0.177          | 28 | 0.113        | 22 |
|              | 65                   | 0.339          | 38 | 0.217          | 31 | 0.139        | 25 |
|              | 81                   | 0.518          | 47 | 0.332          | 38 | 0.212        | 30 |
| 3            | 65                   | 0.188          | 27 | 0.120          | 22 | 0.077        | 17 |
|              | 81                   | 0.290          | 35 | 0.186          | 27 | 0.119        | 22 |
|              | 97                   | 0.417          | 41 | 0.267          | 33 | 0.171        | 27 |
|              | 129                  | 0.751          | 52 | 0.481          | 41 | 0.308        | 33 |
| 4            | 97                   | 0.296          | 30 | 0.189          | 24 | 0.121        | 19 |
|              | 113                  | 0.400          | 37 | 0.256          | 30 | 0.164        | 24 |
|              | 129                  | 0.516          | 42 | 0.330          | 33 | 0.211        | 27 |
|              | 162                  | 0.797          | 50 | 0.510          | 40 | 0.326        | 31 |
| 5            | 97                   | 0.208          | 28 | 0.133          | 22 | 0.085        | 18 |
|              | 129                  | 0.369          | 37 | 0.236          | 29 | 0.151        | 23 |
|              | 162                  | 0.577          | 44 | 0.369          | 35 | 0.236        | 28 |
|              | 194                  | 0.828          | 51 | 0.530          | 40 | 0.339        | 32 |
| 6            | 129                  | 0.290          | 31 | 0.186          | 24 | 0.119        | 19 |
|              | 162                  | 0.452          | 38 | 0.290          | 31 | 0.185        | 24 |
|              | 194                  | 0.651          | 46 | 0.417          | 36 | 0.267        | 29 |
|              | 226                  | 0.883          | 52 | 0.565          | 41 | 0.362        | 33 |

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