

## LINEAR SLOT DIFFUSERS



- S LSD      Supply Linear Slot Diffuser  
              with hit & miss damper,  
              and with deflectors.
- R LSD      Return Linear Slot Diffuser  
              with hit and miss damper,  
              without deflectors.



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### 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, Dinning Halls, Hotels, Palaces and Buildings 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. For this purpose, 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. For this purpose, FLOWTECH LSD 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.



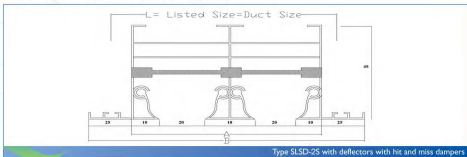
LINEAR SLOT DIFFUSER - SLSD & RLSD



Supply Linear Slot Diffuser (SLSD)

**Product Features:**

- Frame and curved deflection blades are made of extruded aluminum alloy 6063 to T6 Heat Treatment.
- Available with 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 dia, made of extruded aluminum
- Maximum 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



Type SLSD-2S with deflectors with hit and miss dampers

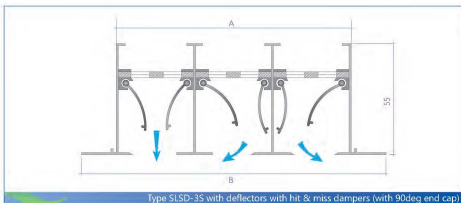
**DIMENSIONS**

Standard Sizes:

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	88	132	175	218	262	305	348
Flange Size B(mm)	81	124	167	210	253	296	339	382

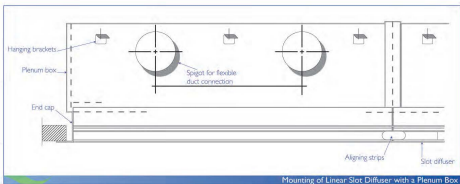
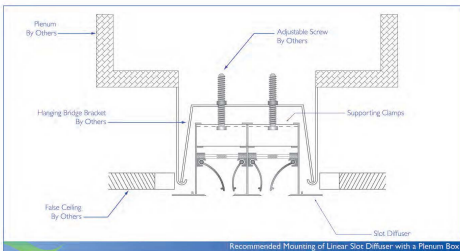
Standard Slot Size 20mm								
No. of Slots	1 Slot	2 Slot	3 Slot	4 Slot	5 Slot	6 Slot	7 Slot	8 Slot
Neck Size A(mm)	40	78	116	154	192	230	268	306
Flange Size B(mm)	76	114	152	190	228	266	304	342

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)	37	70	105	139	174	208	243	277
Flange Size B(mm)	73	107	142	176	211	245	280	316



**MOUNTING / FINISH OPTIONS**

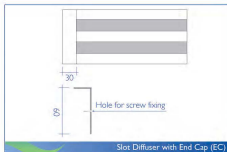
- Available in powder coated RAL 9010 or 9016 as standard color.
- Other powder coated finishes are available on request.
- Hit and miss damper are powder coated in black color as standard.



### ACCESSORIES

#### END CAP (EC)

30mmX60mm "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.

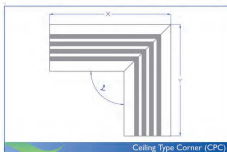


#### Corner Piece Ceiling Type (CPC)

Available in any combination of X,Y &  $\angle$

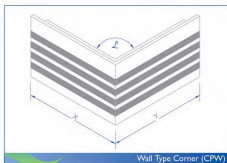
X (mm)	Y (mm)	$\angle$ (degree)
300	300	45
600	600	90
800	800	135
1000	1000	
1200	1200	

$\angle$  can be of any angle between 45° and 135°



#### Corner Piece Wall Type (CPW)

300mmX300mm up to 1200mmX1200mm Corner Pieces are available at 45° to 135° angles for all standard slot sizes.



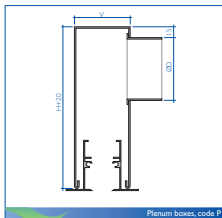
#### Curved Slot Diffusers (CSD)

Slot diffusers can be supplied with ceiling type curve to a minimum of 1 meter. Our Technician will assist in taking site measurements for special curvature.



**ACCESSORIES**
**Plenum Boxes:**

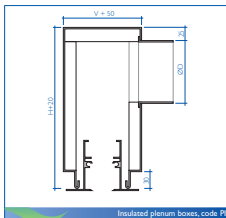
- Suitable for supply and exhaust linear slot diffuser.
- Galvanized steel construction.
- Supply as standard with one side inlet per metre length.
- Special constructions available on request.


**Option:**

- Manual quadrant damper, code Q

**Sizes:**

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

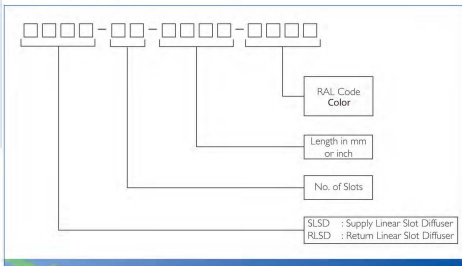


25mm Slots								
No. of Slots	1	2	3	4	5	6	7	8
H	300	300	300	300	300	365	365	365
Ø D	158	198	198	248	248	313	313	313
V	65	108	152	195	238	282	325	368

20mm Slots								
No. of Slots	1	2	3	4	5	6	7	8
H	300	300	300	300	300	300	365	365
Ø D	123	158	198	248	248	248	313	313
V	60	98	136	174	212	250	290	328

16mm Slots								
No. of Slots	1	2	3	4	5	6	7	8
H	300	300	300	300	300	300	300	300
Ø D	123	158	198	198	198	248	248	248
V	57	90	125	159	194	228	263	297

**ORDERING SYSTEM**



**ORDERING EXAMPLE**

**SLSD-3S-1200-9016**

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

Alliging 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.







SI-UNITS



### SUPPLY AIR SLOT DIFFUSER - SLS2 HORIZONTAL

NO. OF SLOTS	AIR FLOW (L/s) / LM	16 mm SLOT WIDTH				20 mm SLOT WIDTH				25 mm SLOT WIDTH									
		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-9

### SUPPLY AIR SLOT DIFFUSER - SLSD VERTICAL



SI-UNITS



NO OF SLOTS	AIR FLOW (L/s/LM)	EFFECTIVE AREA (m <sup>2</sup> /LM)	16 mm			20 mm			25 mm				
			Pt (Pa)	Thow (m)	NC	EFFECTIVE AREA (m <sup>2</sup> /LM)	Pt (Pa)	Thow (m)	NC	EFFECTIVE AREA (m <sup>2</sup> /LM)	Pt (Pa)	Thow (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-9

### RETURN AIR SLOT DIFFUSER - RLSD



SI-UNITS



NO. OF SLOTS	AIR FLOW (L/s) / LM	16mm SLOT WIDTH		20mm SLOT WIDTH		25mm SLOT WIDTH	
		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-9



SUPPLY AIR SLOT DIFFUSER - SLSD  
 HORIZONTAL


IP-UNITS



NO. OF SLOTS	AIR FLOW (CFM/LFT)	1/2" SLOT WIDTH				3/4" SLOT WIDTH				1" SLOT WIDTH									
		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-13

### SUPPLY AIR SLOT DIFFUSER - SLSD VERTICAL



IP-UNITS



NO OF SLOTS	AIR FLOW (CFM/LFT)	1/2"				3/4"				1"			
		EFFECTIVE AREA (SQ.FT./LFT)	Pt (in-wg)	Thow (ft)	NC	EFFECTIVE AREA (SQ.FT./LFT)	Pt (in-wg)	Thow (ft)	NC	EFFECTIVE AREA (SQ.FT./LFT)	Pt (in-wg)	Thow (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-13

**RETURN AIR SLOT DIFFUSER - RLSD**


IP-UNITS



NO. OF SLOTS	AIR FLOW (CFM / LFT)	1/2" SLOT WIDTH		3/4" SLOT WIDTH		1" SLOT WIDTH	
		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

See notes on page E-13