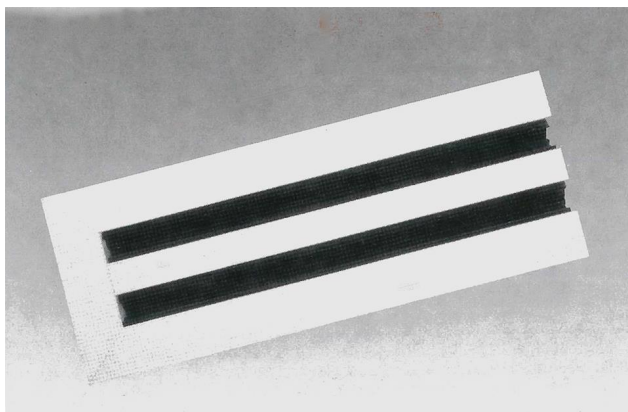


Model LSD Linear Slot Diffusers Supply and Return



Model LSD linear slot diffusers are specially designed to provide supply or return air in heating, cooling or ventilating system. They combine modern architectural beauty with superior air diffusion and true flexibility of application. Diffusers provide superior performance with variable air volume system and can be used in virtually any type of ceiling.

Features

- Extruded aluminium construction
- Available with 1 through 8 slots (one piece) in length up to 2.4m
- Standard slot width is 19mm
- Vane design permits full 180° adjustable air pattern and complete flow rate continuous slots
- Joining strips for continuous slots
- 3 end configurations available

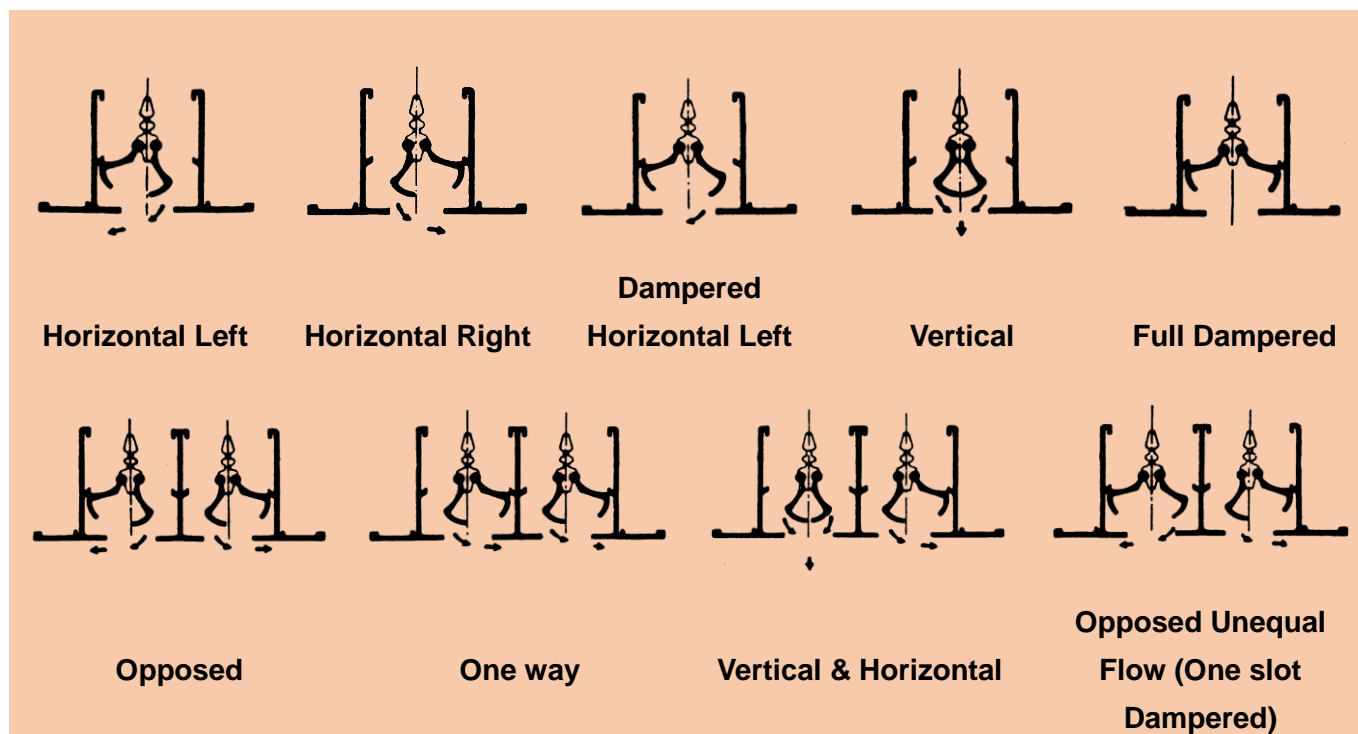
Finish

- Standard finishes for diffuser frames and deflection vanes are natural anodize and painted black. Special finishes are also available.

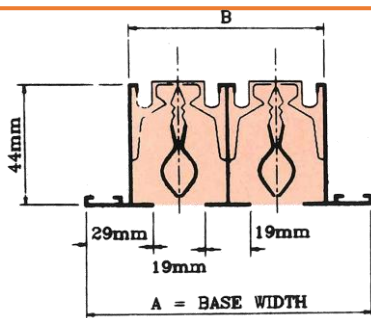
Accessories

- Thermal insulated air boots
- Blank-off strips
- Joining strips
- Mitered corners

Operation of Pattern Control Vanes



Dimension

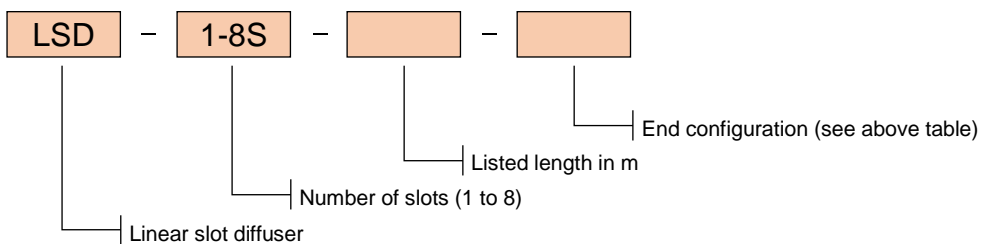


No. of Slot	1	2	3	4	5	6	7	8
A (mm)	77	115	153	191	229	267	305	343
B (mm)	39	77	115	153	191	229	267	305

End Configuration Options

	<p>DUCT LENGTH = $L-38\text{mm}$</p> <p>LISTED LENGTH (L)</p> <p>FF (BOTH END FLANGED)</p>	<p>DUCT LENGTH = $L-19\text{mm}$</p> <p>LISTED LENGTH (L)</p> <p>FO (ONE END FLANGED, ONE END OPEN)</p>
	<p>DUCT LENGTH = $L+6\text{mm}$</p> <p>LISTED LENGTH (L)</p> <p>CC (BOTH END CAP)</p>	<p>DUCT LENGTH = $L+3\text{mm}$</p> <p>LISTED LENGTH (L)</p> <p>CO (ONE END CAP, ONE END OPEN)</p>
	<p>DUCT LENGTH = C</p> <p>LISTED LENGTH (L)</p> <p>OO (BOTH END OPEN)</p>	

Order Code



Note: For accessories and special finishes, please specify when ordering.

Supply Performance Data

SLOTS	Total Press. (Pa)	H	1	4	8	15	23	32	45	57
		V	1	3	6	11	17	24	32	42
1	m ³ /s/m		0.009	0.018	0.027	0.036	0.045	0.054	0.063	0.072
	Throw (m)	H	0.3-0.3-1	0.3-1-2.5	1-1.5-3	1.5-2.5-3.5	2.5-3-4.5	2.5-3-4.8	3-3.5-5	3.5-4-5.5
		V	0.5	1.5	3	3.5	4	4.5	4.8	5
	NC		-	-	-	20	25	30	35	40
2	m ³ /s/m		0.018	0.036	0.054	0.072	0.090	0.108	0.126	0.144
	Throw (m)	H	0.3-0.3-1.5	0.5-1.5-3.5	1.5-3-3.5	2.5-3.5-5.5	3-4.5-6	3.5-4.5-6.5	4-5-7	4.5-5.5-7.5
		V	1	2.5	4	5	5.5	6	6.5	7
	NC		-	-	20	25	30	35	40	45
3	m ³ /s/m		0.027	0.054	0.081	0.108	0.135	0.162	0.189	0.216
	Throw (m)	H	0.3-0.5-2.5	1-2-4.5	2-3.5-5.5	3-4.5-6.5	4-5-7.5	4.5-6-8	5-6-8.5	5.5-7-9
		V	1.5	3	5	6	6.5	7.5	8	9
	NC		-	-	20	30	35	40	45	50
4	m ³ /s/m		0.036	0.072	0.108	0.144	0.180	0.216	0.252	0.288
	Throw (m)	H	0.3-1-3	1.5-3-5.5	3-4.5-6.5	3.5-5.5-7.5	4.5-6-8.5	5.5-6.5-9	6-7-9.5	6.5-7.5-10
		V	1.8	3.5	5.5	7	8	9	10	10.5
	NC		-	-	20	30	35	40	45	50
5	m ³ /s/m		0.045	0.09	0.135	0.180	0.225	0.270	0.315	0.360
	Throw (m)	H	0.5-1-3	1.5-3-6	3-4.5-7	4.5-6-8.5	5-7-9	6-7.5-10	6.5-8-11	7-9-12
		V	2	4	6	8	9	9.5	10.5	11
	NC		-	-	20	30	35	40	45	50
6	m ³ /s/m		0.054	0.108	0.162	0.216	0.270	0.324	0.378	0.432
	Throw (m)	H	0.5-1-3.5	2-3.5-6.5	3.5-5.5-8.5	4.5-6.5-9	5.5-7.5-10.5	6.5-8.5-11.5	7-9-12	8-9.5-12.5
		V	2.5	4.5	7	9	9.5	10.5	11.5	12.5
	NC		-	-	20	30	40	45	50	55
7	m ³ /s/m		0.063	0.126	0.189	0.252	0.315	0.378	0.441	0.504
	Throw (m)	H	1-1.5-3.5	2.5-3.5-7	3.5-6-9	5-7-10	6-8-11	7-9-12	8-10-13	8.5-10.5-14
		V	2.5	4.5	7	9	10.5	11.5	12.5	13.5
	NC		-	-	25	35	40	45	50	55
8	m ³ /s/m		0.072	0.144	0.216	0.288	0.360	0.432	0.504	0.576
	Throw (m)	H	1.5-2-4	2.5-4-8	4-6-9	5.5-8-10.5	7-9-12	7.5-9.5-13	8.5-10.5-14	9-11-15
		V	2.5	4.5	7	9.5	11	12	13	14
	NC		-	-	25	35	40	45	50	55

Return Performance Data

SLOTS	Neg. S. P.	2	7	15	25	40	65	90	110
1	m ³ /s/m	0.015	0.03	0.045	0.06	0.075	0.09	0.105	0.12
	NC	-	-	20	30	35	40	45	45
2	m ³ /s/m	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24
	NC	-	-	25	30	35	40	45	50
3	m ³ /s/m	0.045	0.09	0.135	0.18	0.225	0.24	0.315	0.36
	NC	-	-	25	35	40	45	50	50
4	m ³ /s/m	0.06	0.12	0.18	0.24	0.3	0.36	0.42	0.48
	NC	-	-	25	35	40	45	50	55
5	m ³ /s/m	0.075	0.15	0.225	0.3	0.375	0.45	0.525	0.6
	NC	-	20	25	35	40	45	50	55
6	m ³ /s/m	0.09	0.18	0.27	0.36	0.45	0.54	0.63	0.72
	NC	-	20	25	35	40	45	50	55
7	m ³ /s/m	0.105	0.21	0.315	0.42	0.525	0.63	0.735	0.84
	NC	-	20	30	35	40	45	50	55
8	m ³ /s/m	0.12	0.24	0.36	0.48	0.60	0.72	0.84	0.96
	NC	-	20	25	35	40	45	50	55

NOTES ON PERFORMANCE DATA

- Throw values are based on a 1m long active section. When only 0.3m is active the values are 0.6 times those shown. For a 3m or continuous length the values are 1.8 times those shown.
- Horizontal (H) throw is minimum to a terminal velocity of 0.75 m/s middle to 0.5m/s and maximum to 0.25m/s.
- Horizontal throw values based on full-open, one direction.
- Vertical (V) throw is to a terminal velocity of 0.25m/s
- The NC values are based on a room absorption of 10 dB, re 10⁻¹² watts and 3m active section. The values are 11 dB lower with vertical projection.