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LINEAR SLOT DIFFUSER (LSD)

Airfoils Linear Slot Diffuser is generally ceiling mounted and can be used for both supply and return air functions. The slots can be adjusted to provide a variable air throw pattern from vertical to horizontal.

Airfoils superior design delivers greater air volume per slot and less noise for a more effective room air circulation.

Linear Slot Diffuser Options

> Slot widths of either 20mm or 25mm

> Removable core

> Recommended single length 4.5m, maximum 6m

> Up to 10 slots with fixed core

Product specification codes:

LSD125	One slot linear diffuser with 25mm spacing	LSD120	One slot linear diffuser with 20mm spacing
LSD225	Two slot linear diffuser with 25mm spacing	LSD220	Two slot linear diffuser with 20mm spacing
LSD325	Three slot linear diffuser with 25mm spacing	LSD320	Three slot linear diffuser with 20mm spacing
LSD425	Four slot linear diffuser with 25mm spacing	LSD420	Four slot linear diffuser with 20mm spacing
LSD525	Five slot linear diffuser with 25mm spacing	LSD520	Five slot linear diffuser with 20mm spacing
LSD625	Six slot linear diffuser with 25mm spacing	LSD620	Six slot linear diffuser with 20mm spacing
LSD725	Seven slot linear diffuser with 25mm spacing	LSD720	Seven slot linear diffuser with 20mm spacing
LSD825	Eight slot linear diffuser with 25mm spacing	LSD820	Eight slot linear diffuser with 20mm spacing
LSD925	Nine slot linear diffuser with 25mm spacing	LSD920	Nine slot linear diffuser with 20mm spacing
LSD1025	Ten slot linear diffuser with 25mm spacing	LSD1020	Ten slot linear diffuser with 20mm spacing

Specification: Product code + size.

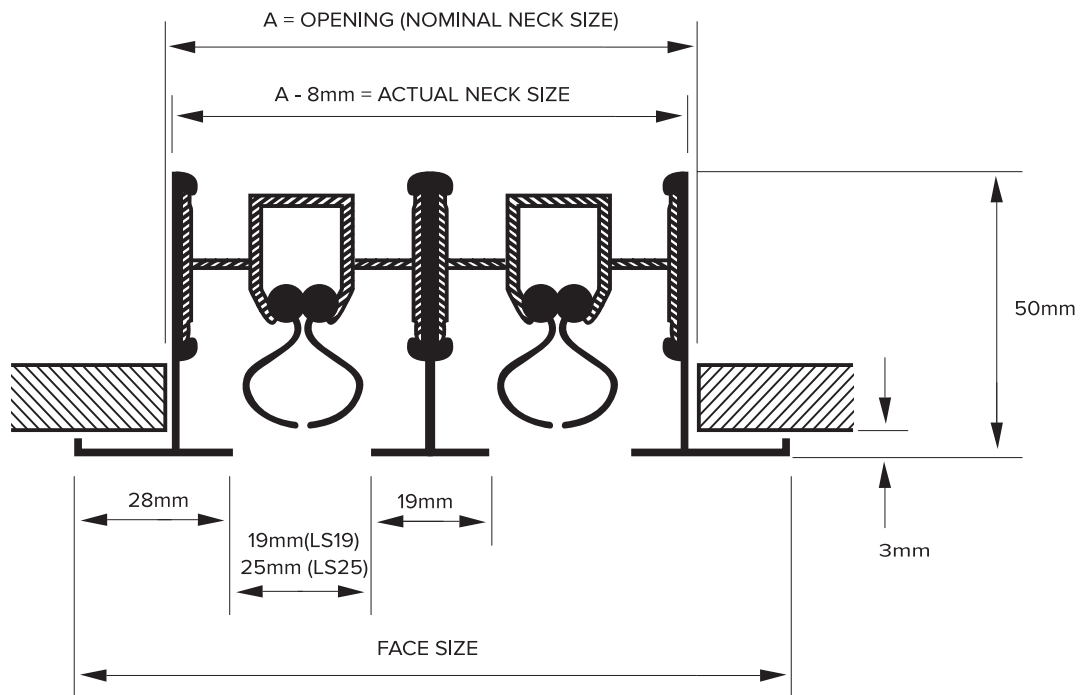
Example: **LSD825 1200 NNS** Eight slot linear diffuser with 25mm spacing and nominal neck size of 1200mm

Important Note: Dimensions will be assumed nominal neck size unless otherwise specified.



LINEAR SLOT DIFFUSER

Cross sectional diagram



LINEAR SLOT DEFFUSER 25

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
LSD125	1	25	50	80
LSD225	2	25	95	125
LSD325	3	25	140	170
LSD425	4	25	185	215
LSD525	5	25	230	260
LSD625	6	25	275	305

LINEAR SLOT DEFFUSER 20

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
LSD120	1	20	45	75
LSD220	2	20	85	115
LSD320	3	20	125	155
LSD420	4	20	165	195
LSD520	5	20	205	235
LSD620	6	20	245	275

LINEAR SLOT DIFFUSER 25

PERFORMANCE DATA - LSD 25MM SLOT WIDTH SUPPLY APPLICATION

No. Slots	Total Press.	Horiz.	1		4		9		16		24		35		49		62	
	Pascals.	Vert.	1	2	6	10	15	21	29	37								
1	Lit / sec / metre		12		25		37		50		65		75		90		100	
	NR		-		-		16		25		32		37		42		46	
	Throw	Hor.	0.1	1	0.4	3.4	1	4	1.8	4.6	2.8	5.2	3.4	5.8	4.8	6.2	3.8	6.8
	in metres	Vert	0.6		2.4		3.8		4.4		4.6		5.2		5.6		5.8	
2	Lit / sec / metre		25		50		75		100		125		150		175		200	
	NR		-		-		21		30		37		42		47		51	
	Throw	Hor.	0.4	1.8	1	4.6	1.8	5.8	3.4	6.8	4.4	7.4	4.6	8.2	5	8.2	5.6	9.6
	in metres	Vert	1.6		3.4		5		5.8		6.8		7.6		8		8.6	
3	Lit / sec / metre		37		75		115		150		185		225		260		300	
	NR		-		16		24		33		40		45		50		54	
	Throw	Hor.	0.4	3.2	1.2	5.8	3.2	7	4	8.2	5	9.2	5.8	9.8	6.2	10.8	6.8	11.4
	in metres	Vert	2.2		4		6.2		7.4		8.2		8.8		9.8		10.4	
4	Lit / sec / metre		50		100		150		200		250		300		350		400	
	NR		-		13		26		35		42		47		52		56	
	Throw	Hor.	0.6	3.4	1.8	6.8	3.8	8.2	4.6	9.6	6.2	10.4	6.8	11.4	7.4	12.2	7.6	13.2
	in metres	Vert	-		13		26		35		42		47		52		56	
5	Lit / sec / metre		65		125		185		250		310		375		435		495	
	NR		-		14		27		36		43		48		53		57	
	Throw	Hor.	0.6	4	2.4	7.4	4	9.2	5.6	10.4	6.8	11.6	7.4	12.8	8	13.8	8.6	14.6
	in metres	Vert	2.8		5.2		7.6		9.6		10.4		11.6		12.6		13.2	
6	Lit / sec / metre		75		150		225		300		375		445		520		595	
	NR		-		15		28		37		44		49		54		58	
	Throw	Hor.	1	4.4	2.8	8.2	4.6	9.8	5.8	11.4	7.4	12.8	8.2	13.8	8.8	15	9.2	16
	in metres	Vert	2.8		5.8		8.6		10.4		11.6		12.6		13.8		14.6	
7	Lit / sec / metre		90		175		260		350		435		520		610		695	
	NR		-		16		29		38		45		50		55		59	
	Throw	Hor.	1	4.6	3.2	8.6	4.6	10.8	6.4	12.2	8	13.8	8.8	15	9.6	16.2	10.2	17.2
	in metres	Vert	3.2		6.2		9.2		11		12.6		13.8		14.6		16	
8	Lit / sec / metre		100		200		300		400		495		595		695		795	
	NR		-		17		30		39		46		51		56		60	
	Throw	Hor.	1.2	5	3.4	9.6	5	11.4	6.8	13.2	8.6	14.6	9.2	16	10.2	17.2	10.8	18.4
	in metres	Vert	3.4		6.8		9.8		12		13.2		14.6		16		16.8	

PERFORMANCE DATA - LSD 25MM SLOT WIDTH RETURN APPLICATION

No. Slot	Negative Static Pressure in Pascals	5	10	18	27	40	54	70	112
1	Lit / sec / metre	31	47	65	80	95	110	125	155
	NR	-	14	22	28	33	37	41	47
2	Lit / sec / metre	65	95	125	155	185	220	250	310
	NR	-	17	25	31	36	40	44	50
3	Lit / sec / metre	95	140	185	235	280	325	375	465
	NR	-	19	27	33	38	42	46	52
4	Lit / sec / metre	125	185	250	310	375	435	495	620
	NR	-	20	28	34	39	43	47	53
5	Lit / sec / metre	155	235	310	390	465	545	620	775
	NR	-	21	29	35	40	44	48	54
6	Lit / sec / metre	185	280	375	465	560	650	745	930
	NR	-	22	30	36	41	45	49	55
7	Lit / sec / metre	220	325	435	545	650	760	870	1085
	NR	-	23	31	37	42	46	50	56
8	Lit / sec / metre	250	375	495	620	745	870	995	1240
	NR	-	23	31	37	42	46	50	56

LINEAR SLOT DIFFUSER 20

PERFORMANCE DATA - LSD 20MM SLOT WIDTH SUPPLY APPLICATION

No. Slots	Total Press. Pascals.	Horiz.		1.5		4		8		14		23		31		44		58	
		Vert.	1	3	6	11	17	24	31	42									
1	Lit / sec / metre		9	19	28	37	47	55	65	75									
	NR		-	-	-	21	27	33	38	42									
	Throw	Hor.	0.4	1	0.4	2.8	1	3.4	1.6	4	2.4	4.6	2.8	5	3.2	5.2	3.4	8	
	in metres	Vert	0.6		1.8		3.2		3.8		4.4		4.6		5		5.2		
2	Lit / sec / metre		19	37	55	75	95	115	130	150									
	NR		-	-	16	26	32	38	43	47									
	Throw	Hor.	0.4	1.6	0.6	4	1.6	5	2.8	8	3.4	6.4	4	7	4.4	6	4.6	82	
	in metres	Vert	1.2		2.8		4.4		5.2		5.8		6.4		7		7.4		
3	Lit / sec / metre		28	55	85	115	140	170	195	225									
	NR		-	-	19	29	35	41	46	50									
	Throw	Hor.	0.4	2.4	1.2	5	2.2	6.2	3.4	7	4.4	8	5	8.6	5.6	9.2	5.8	9.8	
	in metres	Vert	1.8		3.4		5.2		6.4		7		8		8.6		9.2		
4	Lit / sec / metre		37	75	115	150	185	225	260	300									
	NR		-	-	21	31	37	43	48	52									
	Throw	Hor.	0.4	3.2	1.6	5.8	3.2	7	4	8.2	5	9.2	5.8	9.8	6.4	10.8	6.8	11.4	
	in metres	Vert	1.8		4		5.8		7.4		8.2		9.2		9.8		10.4		
5	Lit / sec / metre		47	95	140	185	235	280	325	375									
	NR		-	-	22	32	38	44	49	53									
	Throw	Hor.	0.6	3.4	1.8	6.4	3.4	8	4.6	9.2	5.6	10.2	6.4	11	7	12	7.6	12.8	
	in metres	Vert	2.2		4.4		6.4		8.2		9.2		10.2		11		11.6		
6	Lit / sec / metre		55	115	170	225	280	335	390	445									
	NR		-	-	23	33	39	45	50	54									
	Throw	Hor.	0.6	3.8	2.4	7	3.8	8.6	5	9.8	6.2	11	7	12.2	7.6	12.2	8	13.8	
	in metres	Vert	2.4		4.6		7.4		9.2		10.2		11		12		12.8		
7	Lit / sec / metre		65	130	195	260	325	390	455	520									
	NR		-	13	24	34	40	46	51	55									
	Throw	Hor.	1	3.8	2.8	7.6	4	9.2	5.6	10.8	6.8	12	7.6	13.2	8.2	14	8.8	15	
	in metres	Vert	2.4		5		7.4		9.8		11		12		12.8		13.8		
8	Lit / sec / metre		75	150	225	300	375	445	520	595									
	NR		-	14	25	35	41	47	52	56									
	Throw	Hor.	1.2	4.4	2.8	8.2	4.4	9.8	5.8	11.4	7.4	12.8	8	13.8	8.8	15	9.2	16	
	in metres	Vert	2.4		5		7.4		10.2		11.6		12.8		13.8		14.6		

PERFORMANCE DATA - LSD 20MM SLOT WIDTH RETURN APPLICATION

No. Slot	Negative Static Pressure in Pascals	2	7	16	27	42	62	86	112
1	Lit / sec / metre	15	31	47	65	80	95	110	125
	NR	-	-	21	29	35	40	44	48
2	Lit / sec / metre	31	65	95	125	155	185	220	250
	NR	-	13	24	32	38	43	47	51
3	Lit / sec / metre	47	95	140	185	235	280	325	375
	NR	-	15	26	34	40	45	49	53
4	Lit / sec / metre	65	125	185	250	310	375	435	495
	NR	-	16	27	35	41	46	50	54
5	Lit / sec / metre	80	155	235	310	390	465	545	620
	NR	-	17	28	36	42	47	51	55
6	Lit / sec / metre	95	185	280	375	465	560	650	745
	NR	-	18	29	37	43	48	52	56
7	Lit / sec / metre	110	220	325	435	545	650	760	870
	NR	-	19	30	38	44	49	53	57
8	Lit / sec / metre	125	250	375	495	620	745	870	995
	NR	-	19	30	38	44	49	53	57