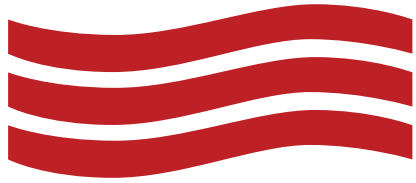


# AIRFOIL



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**FLANGELESS  
LINEAR SLOT DIFFUSER  
F-LSD20**



## FLANGELESS LINEAR SLOT DIFFUSER F-LSD20

### PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made and Designed Flangeless Linear Slot Diffuser (F-LSD20) presents a highly versatile method of air diffusion. Crafted from Airfoils' premium engineered aluminium extrusion profiles, this Flangeless Linear Slot excels in both supply and return applications.

Particularly suited for architectural environments like open ceiling spaces, its sleek and contemporary design adds an exceptional aesthetic touch.

The grille's flangeless outer frame boasts a depth of 50mm, complemented by an internal 12mm fascia, enhancing its Flangeless appeal.

At its core, black interior J Blades are housed within its 19mm T Bar, offering 180-degree adjustable movement. This variability in blades enables customisable airflow patterns, whether vertical or horizontal.

Available in white or in a range of powder-coated colours, this product seamlessly integrates into any commercial or domestic setting where architectural finesse is paramount.

## FLANGELESS LINEAR SLOT DIFFUSER F-LSD20

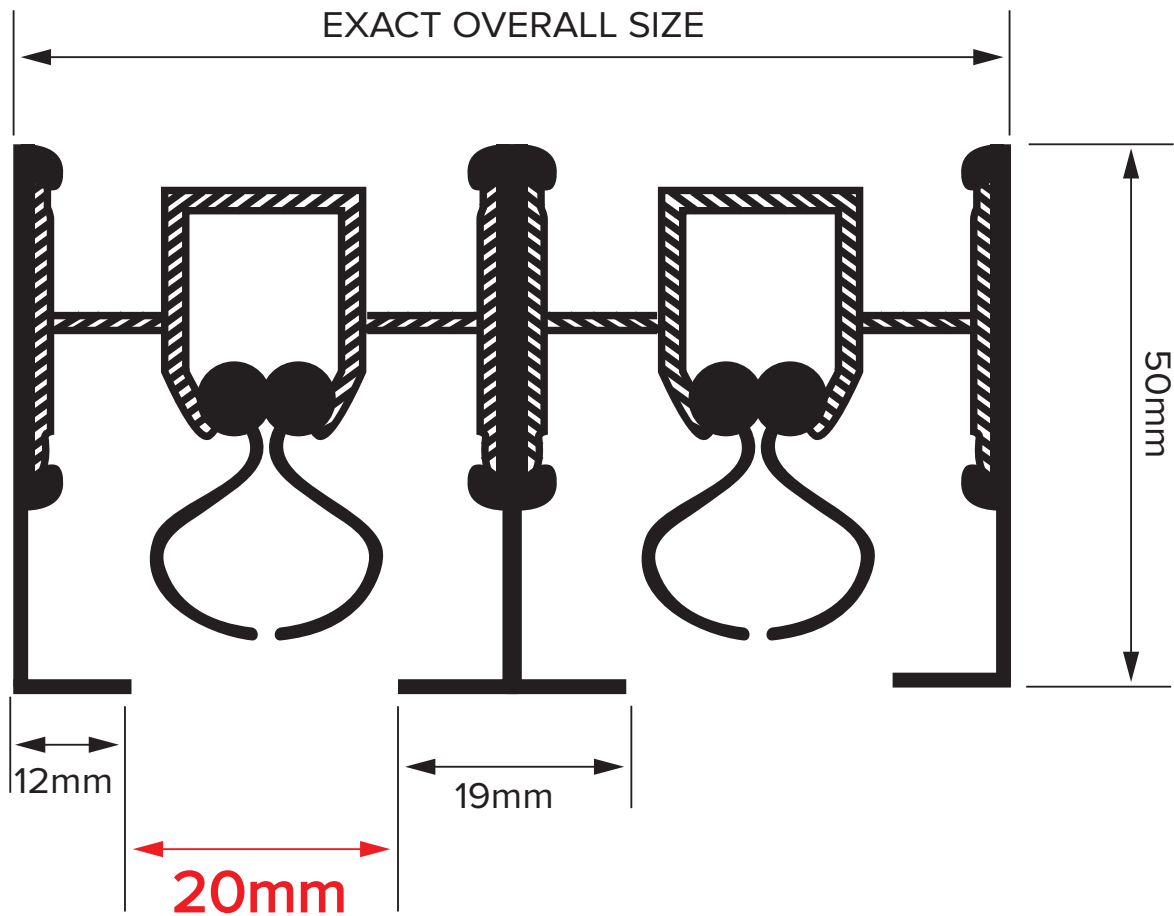
### PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – F-LSD20**
- Australian Made and Designed
- Aluminium construction
- Used for supply and return air applications
- Ideal for open ceiling installation purposes
- Manufactured to a maximum length of 2 meters (5 slots max)
- Opening slot size of 20mm
- 12mm internal fascia
- Frame depth 50mm and “T” Bar size of 19mm
- Provides any variable air throw pattern from a vertical or horizontal position
- Ceiling mounted
- Offers clean linear line appearance
- Black “J” Blades are fully adjustable to 180 degrees
- Available in our standard white powder coated range
- Special powder coated colours available on request
- Product suitable for any commercial or domestic setting where architectural finesse is paramount
- Airfoil tested information available
- **The following metric performance data has been derived from exhaustive testing in elaborate laboratories of acoustic and vibrational engineers Louis A. Challis and Associates Proprietary Limited. Darling Street, Sydney 2000**



## FLANGELESS LINEAR SLOT DIFFUSER F-LSD20

### CROSS SECTIONAL DIAGRAM



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## FLANGELESS LINEAR SLOT DIFFUSER F-LSD20

### PERFORMANCE DATA - F-LSD20 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		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	8.2
	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	

## FLANGELESS LINEAR SLOT DIFFUSER F-LSD20

### PERFORMANCE DATA - F-LSD20 SLOT WIDTH RETURN APPLICATION

No. Slot	Negative Static Pressure in Pascals	5	10	18	27	40	54	70	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

