

# AIRFOIL

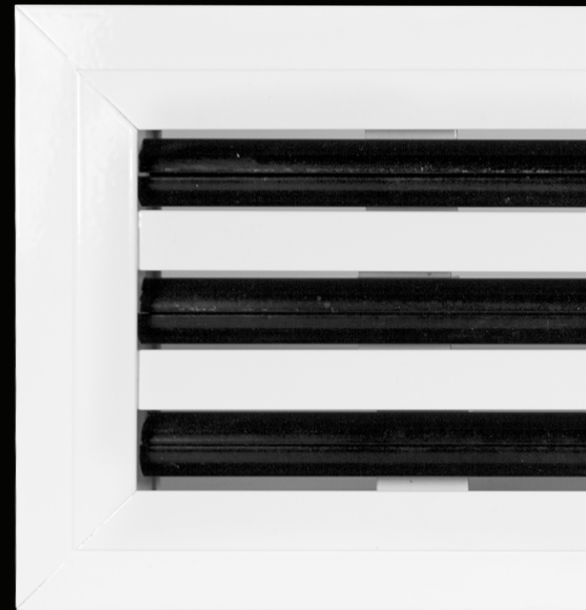


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**REMOVABLE CORE  
LINEAR SLOT DIFFUSER  
RC-LSD20**



## REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD20

### PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made premium Removable Core Linear Slot Diffuser (RC-LSD20) provides a highly adaptable method of air diffusion. Constructed from Airfoil's engineered aluminium extrusion, the Removable Core (RC-LSD20) is designed for both supply and return air applications. With an overall frame size of 25mm and a depth of 50mm, this modern Linear Slot Diffuser is typically ceiling-mounted for a sleek linear appearance.

The RC-LSD20 features a Spring Clipped Outer Frame, allowing for easy installation. The outer frame can be fitted prior to installing the Linear Slot Diffuser, providing a user-friendly installation process where the centre core linear is simply clipped into place.

Internal Black "J" Blades are housed within a 19mm "T" Bar style extrusion, offering full adjustability up to 180 degrees for versatile air throw patterns. Airfoil's superior 20mm slot opening design ensures greater air volume per slot and reduced noise, promoting effective room air circulation.

The RC-LSD20 can accommodate up to 6 slots, with 1 to 4 slot models available in lengths up to 4 meters and 5 or 6 slot models recommended to be made in 2.5 meter sections due to weight restrictions during installation. Additionally, the RC-LSD20 comes complete with Airfoil's Safety Chain and Swivel Safety Bracket.

For longer metered runs, Airfoil provides Joining Strips (JS) that align and join straight cut ends, creating a seamless continuous length of linear slot.

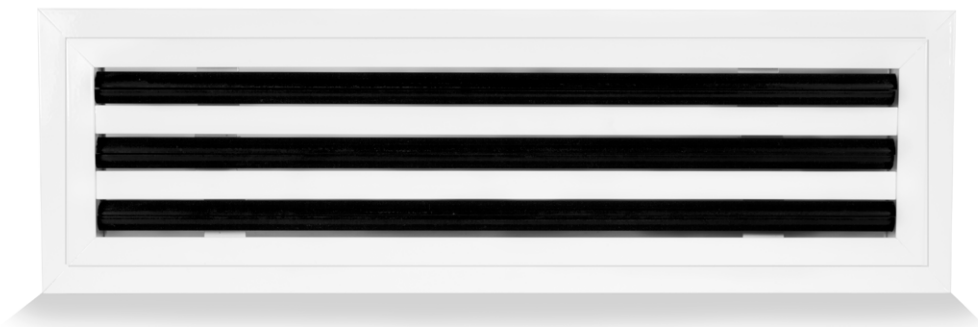
Available in our standard white powder-coated finish or Natural Anodised aluminium silver finish, the RC-LSD20 can also be powder-coated to any specified colour upon request.

This highly sought-after mode of air diffusion is perfect for various applications, including perimeter office spaces, airports, corridors, hospitals, shopping centres, cinemas, and any domestic or commercial setting where a variable air throw pattern is needed.

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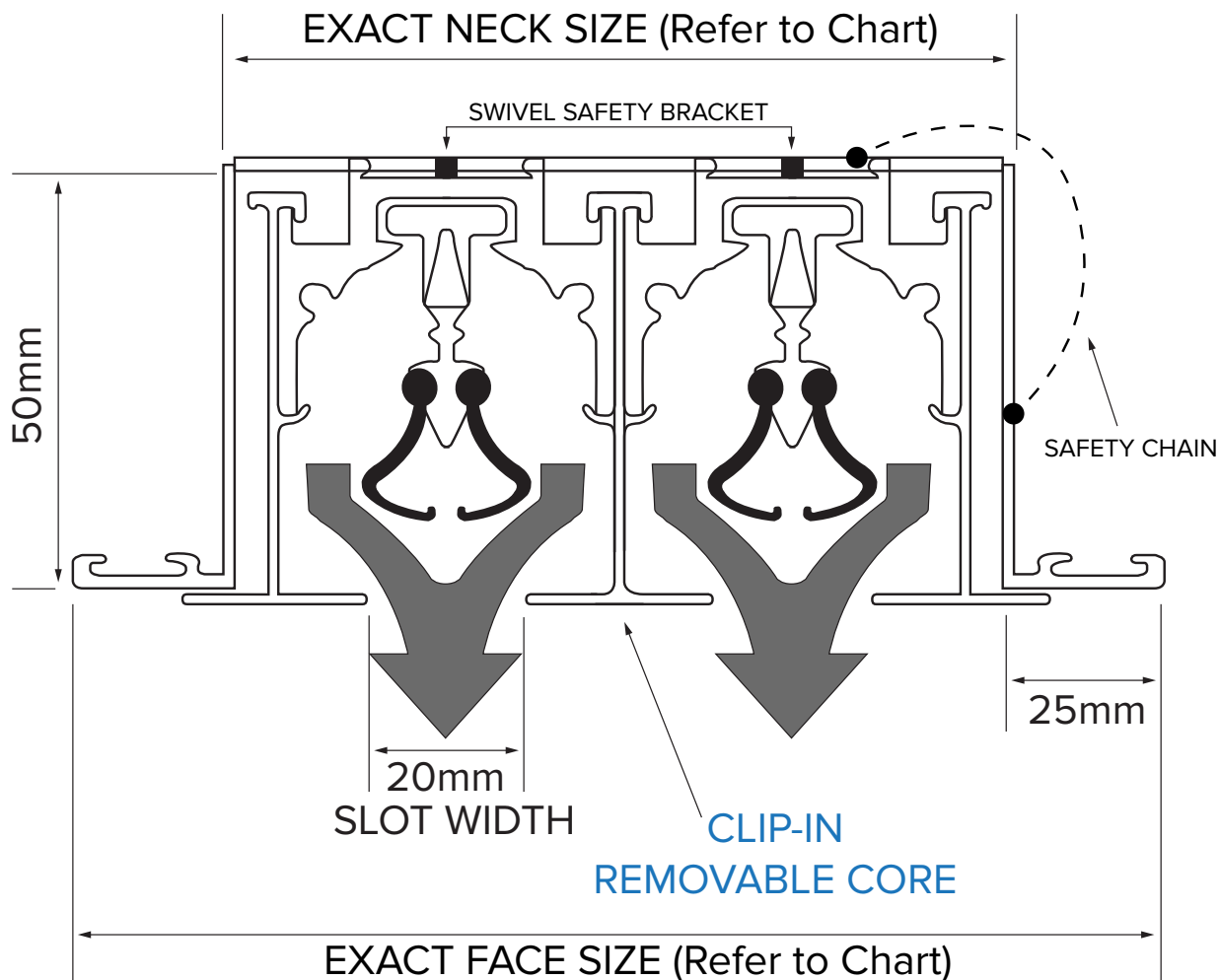
### PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – RC-LSD20**
- Australian Made and Designed
- Aluminium construction
- Used for supply and return air applications
- Manufactured to any length (max. 1 piece length = 4m)
- Slot opening size 20mm
- Overall frame size 25mm
- Frame depth 50mm and “T” Bar size of 19mm
- Provides any variable air throw pattern from a vertical or horizontal position
- Ceiling mounted
- Comes complete with Airfoil’s Safety Chain and Swivel Safety Bracket
- Offers clean linear line appearance
- Black “J” Blades are fully adjustable to 180 degrees
- Comes complete with Airfoil’s Joining Strips for neat alignment
- Available in our standard white powder-coated range
- Special powder-coated colours available on request
- Product suitable for perimeter office space, corridors, airports, hospitals, shopping centres, cinemas and any domestic or commercial application
- Available with Airfoil’s Linear Boot (LB) manufactured to suit slot width
- 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**



## REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD20

### CROSS SECTIONAL DIAGRAM



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## REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD20

### SLOT ORDERING CODES

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
RC-LSD120	1	20mm	48mm	95mm
RC-LSD220	2	20mm	87mm	135mm
RC-LSD320	3	20mm	125mm	172mm
RC-LSD420	4	20mm	164mm	211mm
RC-LSD520	5	20mm	202mm	249mm
RC-LSD620	6	20mm	240mm	287mm

### PERFORMANCE DATA - RC-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 in metres	Hor. Vert.	0.4 0.6	1 1.8	0.4 3.2	2.8 3.8	1 4.4	3.4 5.2	1.6 7.4	4 10.4	2.4 11.6	4.6 12.8	2.8 13.8	5 14.6	3.2 15.6	5.2 16.6	3.4 17.6	8 18.6
2	Lit / sec / metre		19	37	55	75	95	115	130	150								
	NR		-	-	16	26	32	38	43	47								
	Throw in metres	Hor. Vert.	0.4 1.2	1.6 2.8	0.6 4.4	4 5.2	1.6 7.4	5 10.4	2.8 11.6	8 12.8	3.4 13.8	6.4 14.6	4 15.6	7 16.6	4.4 17.6	6 18.6	4.6 19.6	8.2 20.6
3	Lit / sec / metre		28	55	85	115	140	170	195	225								
	NR		-	-	19	29	35	41	46	50								
	Throw in metres	Hor. Vert.	0.4 1.8	2.4 3.4	1.2 5.2	5 7.4	2.2 10.4	6.2 11.6	3.4 12.8	7 13.8	4.4 14.6	8 15.6	5 16.6	8.6 17.6	5.6 18.6	9.2 19.6	5.8 20.6	9.8 21.6
4	Lit / sec / metre		37	75	115	150	185	225	260	300								
	NR		-	-	21	31	37	43	48	52								
	Throw in metres	Hor. Vert.	0.4 1.8	3.2 4	1.6 5.8	5.8 7.4	3.2 10.4	7 11.6	4 12.8	8.2 13.8	5 14.6	9.2 15.6	5.8 16.6	9.8 17.6	6.4 18.6	10.8 19.6	6.8 20.6	11.4 21.6
5	Lit / sec / metre		47	95	140	185	235	280	325	375								
	NR		-	-	22	32	38	44	49	53								
	Throw in metres	Hor. Vert.	0.6 2.2	3.4 4.4	1.8 6.4	6.4 8.2	3.4 10.4	8 11.6	4.6 12.8	9.2 13.8	5.6 14.6	10.2 15.6	6.4 16.6	11 17.6	7 18.6	12 19.6	7.6 20.6	12.8 21.6
6	Lit / sec / metre		55	115	170	225	280	335	390	445								
	NR		-	-	23	33	39	45	50	54								
	Throw in metres	Hor. Vert.	0.6 2.4	3.8 4.6	2.4 7.4	7 9.2	3.8 10.4	8.6 11.6	5 12.8	9.8 13.8	6.2 14.6	11 15.6	7 16.6	12.2 17.6	7.6 18.6	12.2 19.6	8 20.6	13.8 21.6
7	Lit / sec / metre		65	130	195	260	325	390	455	520								
	NR		-	13	24	34	40	46	51	55								
	Throw in metres	Hor. Vert.	1 2.4	3.8 5	2.8 7.4	7.6 9.8	4 11.6	9.2 12.8	5.6 13.8	10.8 14.6	6.8 15.6	12 16.6	7.6 17.6	13.2 18.6	8.2 19.6	14 20.6	8.8 21.6	15 22.6
8	Lit / sec / metre		75	150	225	300	375	445	520	595								
	NR		-	14	25	35	41	47	52	56								
	Throw in metres	Hor. Vert.	1.2 2.4	4.4 5	2.8 7.4	8.2 10.4	4.4 11.6	9.8 12.8	5.8 13.8	11.4 14.6	7.4 15.6	12.8 16.6	8 17.6	13.8 18.6	8.8 19.6	15 20.6	9.2 21.6	16 22.6

## REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD20

### PERFORMANCE DATA - RC-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

