

AIRFOIL

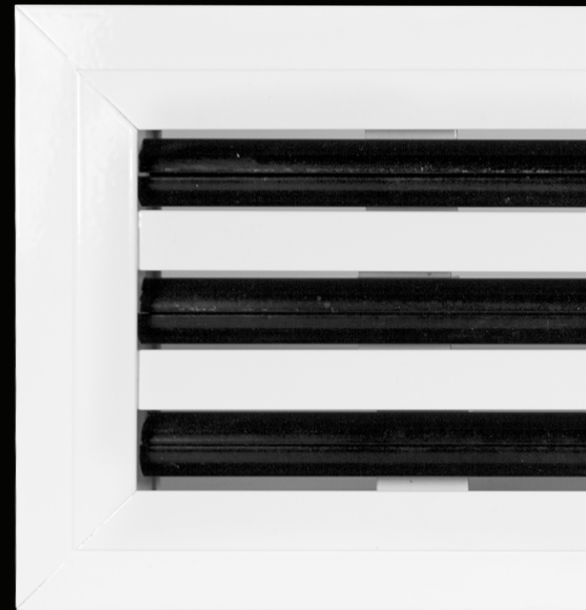


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**REMOVABLE CORE
LINEAR SLOT DIFFUSER
RC-LSD25**



REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD25

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made premium Removable Core Linear Slot Diffuser (RC-LSD25) provides a highly adaptable method of air diffusion. Constructed from Airfoil's engineered aluminium extrusion, the Removable Core (RC-LSD25) 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-LSD25 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 25mm slot opening design ensures greater air volume per slot and reduced noise, promoting effective room air circulation.

The RC-LSD25 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-LSD25 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.

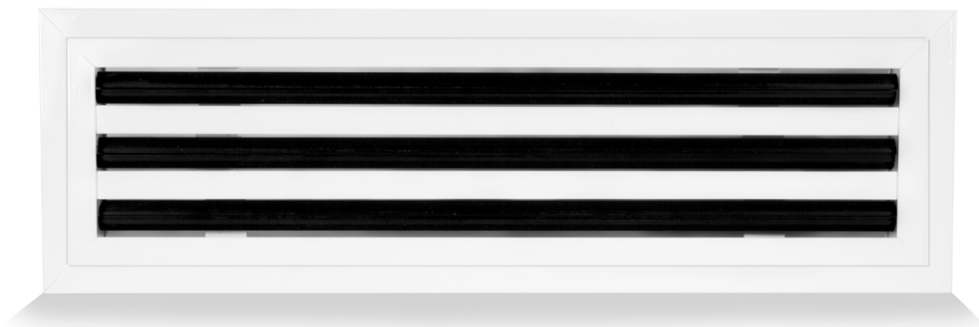
Available in our standard white powder-coated finish or Natural Anodised aluminium silver finish, the RC-LSD25 can also be powder-coated to any specified colour upon request.

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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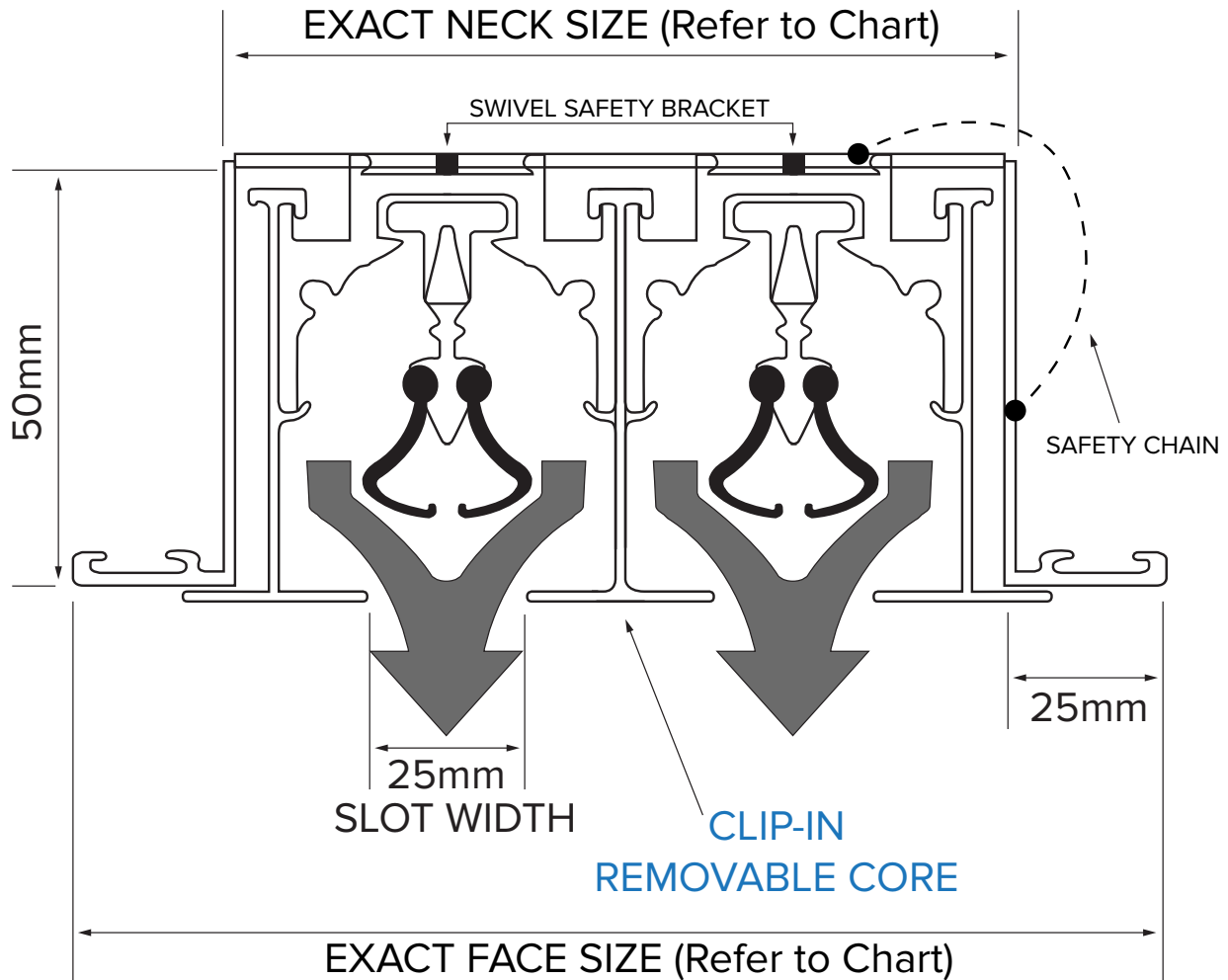
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – RC-LSD25**
- 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 25mm
- 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-LSD25

CROSS SECTIONAL DIAGRAM



DISCLAIMER:

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REMOVABLE CORE LINEAR SLOT DIFFUSER RC-LSD25

SLOT ORDERING CODES

PRODUCT CODE	SLOT	SLOT WIDTH	EXACT NECK SIZE	FACE SIZE
RC-LSD125	1	25mm	55mm	102mm
RC-LSD225	2	25mm	100mm	147mm
RC-LSD325	3	25mm	145mm	192mm
RC-LSD425	4	25mm	190mm	237mm
RC-LSD525	5	25mm	235mm	282mm
RC-LSD625	6	25mm	280mm	327mm

PERFORMANCE DATA - RC-LSD25 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 in metres	Hor. Vert.	0.1 0.6	1 2.4	0.4 3.8	3.4 4.4	1 4.6	4 4.4	1.8 4.6	4.6 5.2	2.8 5.2	5.2 5.6	3.4 5.6	5.8 5.8	4.8 6.2	6.2 6.8	3.8 5.8	6.8
2	Lit / sec / metre		25	50	75	100	125	150	175	200								
	NR		-	-	21	30	37	42	47	51								
	Throw in metres	Hor. Vert.	0.4 1.6	1.8 3.4	1 5	4.6 5.8	1.8 5.8	5.8 6.8	3.4 6.8	6.8 7.4	4.4 7.4	7.4 8.2	4.6 8.2	8.2 8.6	5 8.2	8.2 8.6	5.6 8.6	9.6
3	Lit / sec / metre		37	75	115	150	185	225	260	300								
	NR		-	-	16	24	33	40	45	50								
	Throw in metres	Hor. Vert.	0.4 2.2	3.2 4	1.2 4	5.8 6.2	3.2 6.2	7 7.4	4 7.4	8.2 8.2	5 8.2	9.2 8.8	5.8 8.8	9.8 9.8	6.2 9.8	10.8 10.4	6.8 10.4	11.4
4	Lit / sec / metre		50	100	150	200	250	300	350	400								
	NR		-	-	13	26	35	42	47	52								
	Throw in metres	Hor. Vert.	0.6 -	3.4 13	1.8 26	6.8 35	3.8 35	8.2 42	4.6 42	9.6 47	6.2 47	10.4 52	6.8 52	11.4 56	7.4 52	12.2 56	7.6 56	13.2
5	Lit / sec / metre		65	125	185	250	310	375	435	495								
	NR		-	-	14	27	36	43	48	53								
	Throw in metres	Hor. Vert.	0.6 2.8	4 5.2	2.4 7.6	7.4 9.6	4 9.6	9.2 10.4	5.6 10.4	10.4 11.6	6.8 11.6	11.6 12.8	7.4 12.8	12.8 13.2	8 12.6	13.8 13.2	8.6 13.2	14.6
6	Lit / sec / metre		75	150	225	300	375	445	520	595								
	NR		-	-	15	28	37	44	49	54								
	Throw in metres	Hor. Vert.	1 2.8	4.4 5.8	2.8 8.6	8.2 10.4	4.6 8.6	9.8 10.4	5.8 10.4	11.4 11.6	7.4 11.6	12.8 12.6	8.2 12.6	13.8 13.8	8.8 13.8	15 14.6	9.2 14.6	16
7	Lit / sec / metre		90	175	260	350	435	520	610	695								
	NR		-	-	16	29	38	45	50	55								
	Throw in metres	Hor. Vert.	1 3.2	4.6 6.2	3.2 9.2	8.6 11	4.6 11	10.8 12.6	6.4 12.6	12.2 13.8	8 13.8	13.8 14.6	8.8 14.6	15 16.2	9.6 16.2	16.2 17.2	10.2 16	17.2
8	Lit / sec / metre		100	200	300	400	495	595	695	795								
	NR		-	-	17	30	39	46	51	56								
	Throw in metres	Hor. Vert.	1.2 3.4	5 6.8	3.4 9.8	9.6 12	5 9.8	11.4 12	6.8 12	13.2 13.2	8.6 14.6	14.6 14.6	9.2 16	16 16	10.2 17.2	17.2 18.4	10.8 18.4	18.4

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PERFORMANCE DATA - RC-LSD25 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

