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**LINEAR SLOT DIFFUSER /
PLASTER MOUNTING FRAME
LSD20-PMF**



LINEAR SLOT DIFFUSER / PLASTER MOUNTING FRAME **LSD20-PMF**

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made premium Linear Slot Diffuser with Plaster Mounting Frame (LSD20-PMF) provides a highly adaptable method of air diffusion. Constructed from Airfoil's engineered aluminium extrusion, the Linear Slot Diffuser (LSD20-PMF) is designed for both supply and return air applications. With an overall frame size of 28mm and a depth of 50mm, this modern Linear Slot Diffuser is typically ceiling-mounted for a sleek linear appearance. Installation is fast and efficient thanks to its innovative two-stage system:

1. The clip-in Plaster Mounting Frame is fitted to the ceiling batten or furring channel prior to the plasterboard construction
2. The Linear Slot Diffuser simply clicks into place, ensuring a secure, seamless finish

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 LSD20-PMF 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 LSD20-PMF 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 LSD20-PMF 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.

LINEAR SLOT DIFFUSER / PLASTER MOUNTING FRAME LSD20-PMF

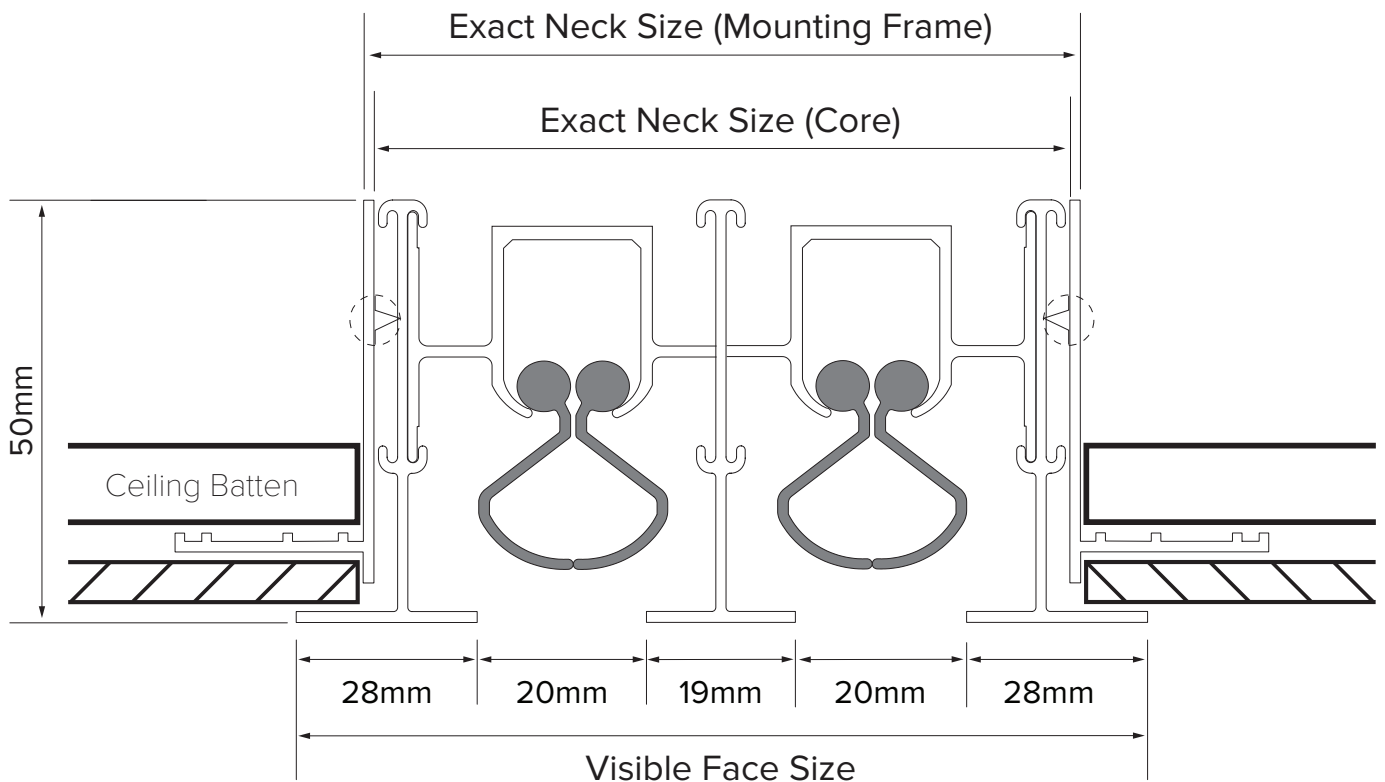
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – LSD20-PMF**
- Australian Made and Designed
- Aluminium construction
- Clip in Plaster Mounting Frame
- Suitable for 13mm gyprock
- Easy installation
- Used for Supply and Return air applications
- Manufactured to any length (max. 1 piece length = 4m)
- Slot opening size 20mm
- Overall frame size 28mm
- Plaster Mounting Frame depth of 50mm
- “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 LSD20-PMF

CROSS SECTIONAL DIAGRAM



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REMOVABLE CORE LINEAR SLOT DIFFUSER LSD20-PMF

SLOT ORDERING CODES

PRODUCT CODE	SLOT	SLOT WIDTH	PLASTER FRAME SIZE	EXACT NECK SIZE	FACE SIZE
LSD20-PMF-1	1	20mm	44mm	39mm	74mm
LSD20-PMF-2	2	20mm	83mm	78mm	113mm
LSD20-PMF-3	3	20mm	121mm	116mm	151mm
LSD20-PMF-4	4	20mm	160mm	155mm	190mm
LSD20-PMF-5	5	20mm	198mm	193mm	228mm
LSD20-PMF-6	6	20mm	236mm	231mm	266mm
LSD20-PMF-7	7	20mm	274mm	269mm	304mm
LSD20-PMF-8	8	20mm	312mm	307mm	342mm

PERFORMANCE DATA - LSD20-PMF 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	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	

REMOVABLE CORE LINEAR SLOT DIFFUSER LSD20-PMF

PERFORMANCE DATA - LSD20-PMF 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

