

Linear Slot Diffuser



Description The LinkedAir Linear Slot Diffusers are designed for ceiling or high side-wall applications. Adjustable blades are equipped for selecting the throw direction

The linear slot diffusers can be manufactured up to 3 meters in length as a single piece, multiple pieces can be produced with joining strips provided to create continuous grilles with lengths in excess of 3 meters

Construction Extruded Aluminium

Application Supply Air / Exhaust Air

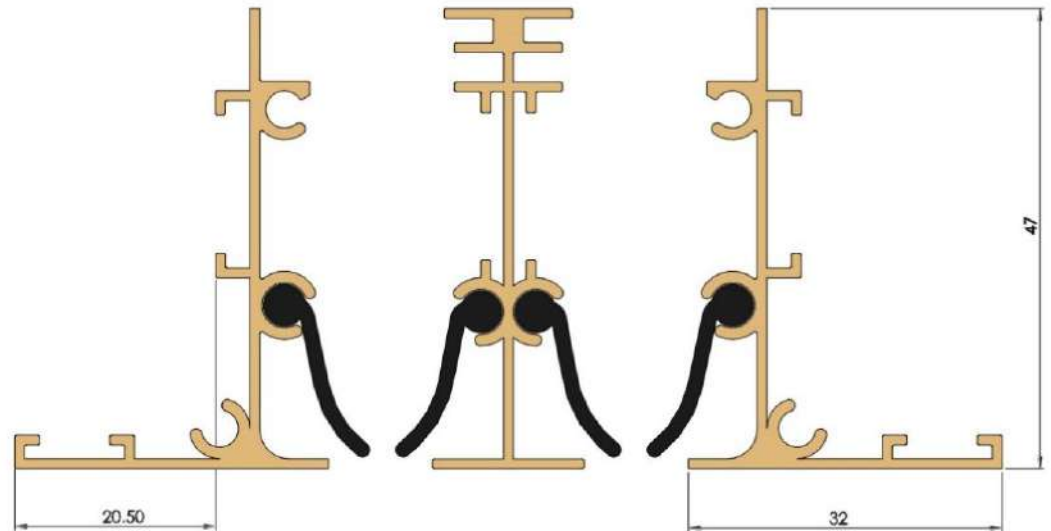
Size Flange Size: 32mm

Finish White (Powdercoated)

Options

Design	Colour	Blade Spacing
Removable Core Type Fixed Core Type Flangeless Type	Natural Anodised / Dulux Range	Any

Accessories Plenum with Side or Top Entry
Blanking Plate



Linear Slot Diffuser		AIR FLOW RATE (l/s/m)									
		20	40	60	80	100	120	140	160	180	200
1200 x 1 slot (25mm)	THROW (m) MIN	0.7	1.4	2.1	2.7	3.4					
	THROW (m) MAX	2.7	4.3	5.7	7.0	7.8					
	PROJECTION (m)	0.7	1.8	3.0	4.5	6.0					
	Ps (Pa)		6	15	28	45					
	NR LEVEL		14	26	35	42					
1200 x 2 slot (25mm)	THROW (m) MIN		1.2	1.6	2.0	2.5	3.0	3.4	3.8	4.2	4.7
	THROW (m) MAX		3.5	5.0	6.0	7.0	7.7	8.4	9.0	9.8	10.4
	PROJECTION (m)			1.7	2.5	3.3	4.2	5.2	6.2	7.3	8.5
	Ps (Pa)			3	6	10	14	21	28	35	45
	NR LEVEL				17	24	29	33	38	41	45

Linear Slot Diffuser		AIR FLOW RATE (l/s/m)									
		100	125	150	175	200	225	250	275	300	325
1200 x 3 slot (25mm)	THROW (m) MIN	2.1	2.5	3.0	3.5	4.0	4.4	4.8			
	THROW (m) MAX	6.0	7.2	8.2	9.1	9.8	10.5	10.9			
	PROJECTION (m)	2.3	3.2	4.0	5.0	6.0	7.0	8.0			
	Ps (Pa)	5	8	12	16	22	28	35			
	NR LEVEL		20	26	31	35	38	42			
1200 x 4 slot (25mm)	THROW (m) MIN	1.8	2.2	2.7	3.1	3.5	3.8	4.2	4.6	5.0	5.5
	THROW (m) MAX	5.6	6.7	7.7	8.7	9.5	9.8	10.5	11.0	11.4	12.0
	PROJECTION (m)		2.4	3.1	3.8	4.5	5.3	6.0	7.0	8.0	10.0
	Ps (Pa)		4	5	8	10	13	16	20	24	28
	NR LEVEL			17	22	27	30	34	37	40	42

Linear Slot Diffuser		AIR FLOW RATE (l/s/m)									
		200	225	250	275	300	325	350	375	400	450
1200 x 5 slot (25mm)	THROW (m) MIN	3.2	3.5	4.0	4.2	4.5	5.0	5.2	5.6		
	THROW (m) MAX	8.4	9.0	9.8	10.4	11.0	11.5	12.0	12.3		
	PROJECTION (m)	3.8	4.4	5.0	5.7	6.5	7.2	8.0	9		
	Ps (Pa)	7	9	11	14	17	20	23	27		
	NR LEVEL	21	25	28	32	34	36	38	41		
1200 x 6 slot (25mm)	THROW (m) MIN	2.9	3.2	3.5	3.8	4.2	4.5	4.8	5.0	5.4	6.0
	THROW (m) MAX	8.0	8.6	9.3	10.0	10.5	11.0	11.5	11.9	12.2	13.0
	PROJECTION (m)	3.2	3.7	4.3	5.0	5.6	6.2	6.8	7.5	8.2	10.0
	Ps (Pa)	5	6	8	9	11	13	16	18	21	27
	NR LEVEL	16	19	23	26	29	31	34	36	38	42

Notes:

- All performance data is based on a 1.2m length of linear slot diffuser (25mm spacing). Correction factors should be applied to the noise and throw data for other lengths, see table below.
- Projection data is based on a vertical free jet at a heating differential of 10°C
- **THROWS** Maximum and minimum throws are based on jet terminal velocities of 0.25m/s and 0.75m/s correspondingly at a room height of 2.7m
- **NOISE LEVEL** Noise data is based on one or two way horizontal throw configurations and a room absorption of 8db, When used in projection mode the noise levels are reduced by NR 10

Correction Factors by Temperature Differential (°C)						
	-10	0	+5	+10	+15	+20
Throw Factor	1.0	1.1	1.15	1.2		
Projection Factor	1.6	1.25	1.15	1.0	0.73	0.62

Correction Factors by Diffuser Length (m)						
Length	0.5	1.0	1.2	2.0	2.5	3.0
Throw Factor	0.7	0.8	1.0	1.1		
Projection Factor	-4.0	-1.0	0.0	2.0	3.0	5.0

Exhaust Applications	
NR Addition	-10
Pressure Loss Factor	0.8

