Selection Data – LD-SD

Adjustable Blade

D - 5



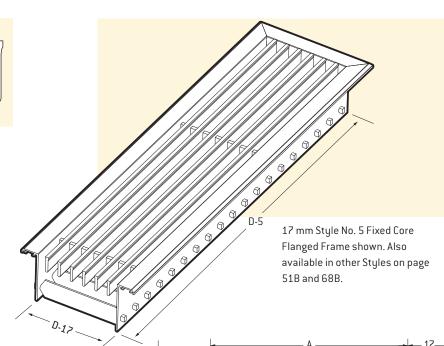
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Model: LD-1200SD

0° deflection - front blades 0° - 45° deflection - rear blades 12.5mm spacing 3.2mm louver

Dimensions

D Listed Size	A Opening	Number of Bars			
50	30	2			
75	55	4			
100	80	6			
125	105	8			
150	130	10			
200	180	14			
250	230	18			
300	280	22			
350	330	26			



4.5

50

Ideal for apartment and hotel rooms this Linear Bar Grille has fixed blades at the front and adjustable blades behind allowing the supply air to be directed horizontally.

12.5

The narrow frame and fixed front blades (3.2mm x 16mm) on 12.5mm centres make this an attractive and versatile diffuser.

The LDSD is available in any desired length and can also be supplied with alternative frame types including the PMF system.

When used with the PMF System, see notes on page 68B.

Not suitable for floor applications.

Size	Total Pressure	0°	3 4	5 6	9 11	15 17	20 24	28 33	36 41	46 53	57 64
	Pa	22.5°									
		45°	6	9	15	25	32	46	58	74	86
50 mm	Flow m ³ /	/s/m	0.050	0.071	0.091	0.120	0.136	0.165	0.182	0.205	0.227
	NC		<15	<15	<15	<15	15	19	23	27	30
	Throw,	m	1.5-3.7	2.2-5.1	2.9-6.4	4-7.9	4.3-8.5	5-9.7	5.6-10.5	6.3-11.5	7.1-12.5
	Flow m ³ /	/s/m	0.107	0.129	0.176	0.218	0.255	0.298	0.337	0.392	0.423
100 mm	NC		-	-	-	18	23	27	31	34	37
	Throw,	m	2.4-4.3	3.0-5.2	4.1-6.5	5.0-7.7	6.0-9.1	6.6-10.3	7.2-11.2	8.6-12.9	9.3-13.5
150 mm	Flow m ³ /	/s/m	0.143	0.190	0.242	0.312	0.359	0.415	0.466	0.528	0.592
	NC		-	-	-	18	23	26	31	34	37
	Throw,	m	2.8-4.8	3.7-5.8	4.5-6.7	5.6-8.1	6.4-9.2	7.4-10.5	8.2-11.6	9.0-12.3	10-13.4
200 mm	Flow m ³ /	/s/m	0.213	0.261	0.336	0.428	0.480	0.536	0.647	0.784	0.846
	NC		-	-	-	19	23	27	32	35	38
	Throw,	m	2.9-4.9	3.7-8.2	5.4-8.6	6.7-11.4	7.7-12.9	8.9-14.8	9.8-16.4	10.8-17.3	12-18.9
	Flow m ³ /	/s/m	0.245	0.328	0.386	0.468	0.578	0.656	0.739	0.862	0.929
250 mm	NC		-	-	-	19	23	27	32	35	38
	Throw,	m	2.8-5.3	4.5-8.3	5.2-8.5	5.8-10.3	7.2-12.7	8.1-14.4	9.2-16.3	10.7-19.0	11.5-20.5
	Flow m ³ /	/s/m	0.251	0.352	0.490	0.632	0.718	0.830	0.932	1.056	1.184
300 mm	NC			-	-	20	24	28	33	36	38
	Throw,	m	2.4-5.6	4.4-8.4	6.6-8.6	8.5-11.1	9.7-12.6	11.2-14.6	12.6-16.4	14.2-18.5	15.9-20.8
	Flow m ³ /	/s/m	0.350	0.471	0.572	0.806	0.923	1.078	1.216	1.411	1.526
350 mm	NC		-	-	-	20	24	28	33	36	38
	Throw,	m	2.9-6.7	5.9-8.6	6.9-10.0	9.7-14.1	11.1-16.2	13-18.9	14.6-21.3	17-24.8	18.4-26.8

Guide Product Weights						
	Approximate Weight in Kg per metre x 150mm					
LD 1200SD	2.51					

Note

1. For deflection settings of 22.5 and 45 degrees, increase the stated sound levels by 1 and 7 NC respectively.

2. For deflection settings of 22.5 and 45 degrees, decrease the stated throws to 80% and 50% respectively. Refer to page 202E.

Fineline Diffusers

SERIES LD linear bar grilles are designed for supply and return air distribution in heating, cooling and ventilating applications which call for diffusers having long or continuous slender appearance, fixed air discharge angles of zero or 15 degrees, and installed in walls, floors, sills or ceilings.

near Diffuser

CONSTRUCTION is of extruded aluminium face, bars and frame of alloy 6063-T5, notched mullions, mechanically compressed together to form a powerfully bonded core, which is welded at mullion ends to the frame. 'F' models for floor use, have double mullions and $30 \times 30 \times 15 \times 3$ Solid 'Z' frames.

Model	Bar							
	Width mm	Spacing mm	Deflection					
LD-600	3.25	6.35	0°					
LD-615	3.25	6.35	15°					
LD-1200	3.25	12.5	0°					
LD-1215	3.25	12.5	15°					
LDH-1200	5.6	12.5	0°					
LDHF-1200+	5.6	12.5	0°					
LDH-1215	5.6	12.5	15°					
LDHF-1215+	5.6	12.5	15°					
LDH-2500*	5.6	25	٥٥					
LDH-2515*	5.6	25	15°					

* Return/Exhaust Diffuser

+ Suitable for floor applications

WIDTH maximum for 'F' models is:

Continuous traffic: 200mm, Occasional traffic: 300mm. All models can be furnished with mitred 90° corners, or other angles where templates are furnished to the factory. Refer illustrations on this sheet for corner descriptions. The minimum length is 200mm. The maximum length for a single section is 2.8m.

Accessory Damper

Available with opposed blade dampers, screwdriver operated through the face. Specify OBD#1.



General Notes to be read in conjunction with performance tables on the following pages.

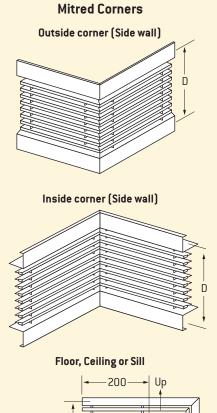
This data is reliable information for cooling, ventilating and heating applications.

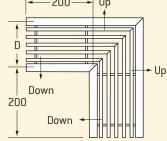
1. All pressures are Pa (N/m2).

2. Minimum throw values refer to a terminal velocity of 0.75 m/s and maximum to 0.25 m/s, for a 1200mm active section with a cooling temperature differential of 12°C.

The multiplier factors listed in the table below are applicable for other lengths.

	Terminal Velocity					
Active Length	0.75 m/s	0.25 m/s				
300mm	0.5	0.7				
3000mm Or Continuous	1.6	1.2				





Note: When specifying corners ensure to nominate the blade orientation (up or down) if using the 15° blade.

3. The NC values are based on a room absorption of 10dB, re 10⁻¹² watts and a 3000mm active section.

Use the following multipliers for other active lengths.

NC CORRECTION FOR LENGTH											
Active Length. mm	300	600	1000	1200	1800	2400	3000	4500	6000	7500	9000
	-10	-7	-5	-4	-2	-1	0	+2	+3	+4	+5

 $4.\ Return \ Intake$ - When used as a return intake the NC value given will be increased by 4 and the negative static pressure will be 0.8 times the total pressure shown.

LD, LDH, LDHF, LDSD & PMF

Diffuser Description Code Examples and Suggested Specifications

