

Linear slot diffusers

LDS



Description

The LDS linear slot diffuser are intended for ceiling or wall installation. The product can supply warm or cold air. The diffuser can feature from 1 to 4 slots, 495 mm or 990 mm in length, depending on the product version. Each slot enables separate air flow direction adjustment and is provided with two deflector vanes. This design enables easy adaptation of the air flow diffusion direction according to actual indoor conditions.

With this easy adjustment functionality, the LDS linear slot diffusers are ideal for variable air output ventilation systems.

Material: aluminium

Finish: RAL 9016 powder-coated

Standard colour: white

Product code example

Product code: **LDS - 1 - 495**

type

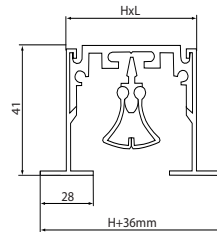
number of slots

length

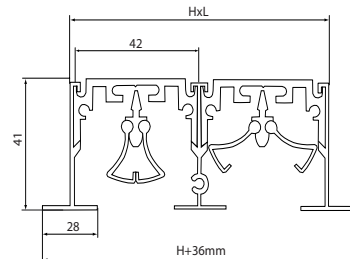


Dimensions

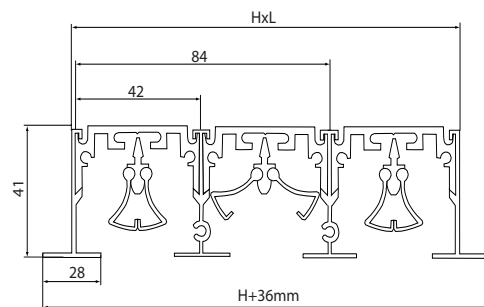
LDS-1-495



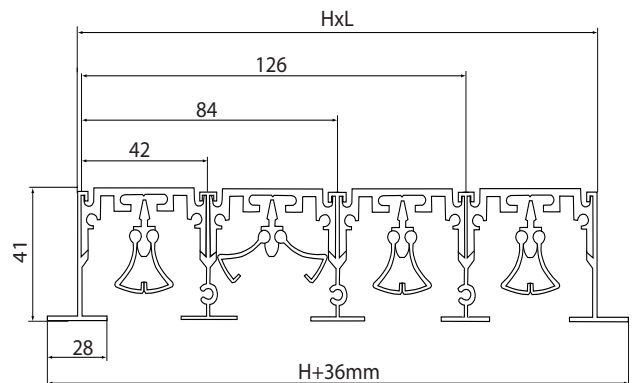
LDS-2-495/LDS-2-990



LDS-3-990



LDS-4-990



Product code	H (mm)	L (mm)	Number of slots (pcs)
LDS-1-495	44	490	1
LDS-2-495	88	490	2
LDS-2-990	88	985	2
LDS-3-990	132	985	3
LDS-4-990	176	985	4

Technical specifications

Selection table

number of slots (mm)		Characteristics								
1	V (m ³ /h)	39	73	112	145	184	223	257	296	329
1	T _{horiz} (m)	0-1-2	1-2-5	2-4-6	3-5-7	4-6-8	5-6-9	5-7-10	6-7-10	6-8-11
1	T _{vert} (m)	1	2	4	4	5	5	5	6	6
1	PS (Pa)	1	3,6	8,1	14,5	22,6	32,5	44,2	57,9	73,2
1	NC (dB)			13	20	26	30	34	37	40
2	V (m ³ /h)	73	145	223	296	368	441	513	591	664
2	T _{horiz} (m)	0-1-4	2-4-7	4-5-9	5-7-10	6-8-12	7-9-13	8-10-14	9-10-15	9-11-16
2	T _{vert} (m)	2	3	5	6	7	7	8	9	9
2	PS (Pa)	1	3,6	8,1	14,5	22,6	32,5	44,2	57,9	73,2
2	NC (dB)			16	23	29	33	37	40	43
3	V (m ³ /h)	112	223	329	441	552	664	776	882	993
3	T _{horiz} (m)	1-2-4	2-4-9	4-6-11	6-9-13	7-10-14	9-11-16	10-12-17	10-13-18	11-13-19
3	T _{vert} (m)	2	4	6	7	8	9	10	10	11
3	PS (Pa)	1	3,6	8,1	14,5	22,6	32,5	44,2	57,9	73,2
3	NC (dB)			18	25	30	35	39	42	45
4	V (m ³ /h)	145	296	441	591	737	882	1032	1177	1328
4	T _{horiz} (m)	1-2-5	3-5-10	5-7-13	7-10-15	8-12-16	10-13-18	11-14-19	12-15-21	13-16-22
4	T _{vert} (m)	2	5	7	9	9	10	11	12	13
4	PS (Pa)	1	3,6	8,1	14,5	22,6	32,5	44,2	57,9	73,2
4	NC [dB]			19	26	32	36	40	43	46
<i>NC (dB) — correction factors for length multiplication</i>										
Multiple of module length	2	4	6	8	10					
Air supply	-3	0	+2	+3	+5					
Exhaust	0	+3	+5	+6	+8					
<i>T (m) — correction factors for length multiplication</i>										
Multiple of module length	2	4	8	10	12					
Correction factor for air flow range	0.72	1.0	1.5	1.7	1.8					

V (m³/h) — volumetric flow rate

T_{horiz} [m] — horizontal air flow range at air velocities of 0.75 m/s, 0.50 m/s, and 0.25 m/s respectively

T_{vert} [m] — vertical air flow range at air velocities of 0.75 m/s, 0.50 m/s, and 0.25 m/s respectively

PS (Pa) — static pressure

NC (dB) — noise level for room attenuation ratio 10 dB

Note: The above parameters refer to a 1 m long linear slot diffuser module.