

EDLS - EDLSB Linear Diffuser for Hidden Installation



Description

Hidden linear diffuser with single 20 mm or 30 mm slot with aerodynamic aluminum profile and adjustable deflectors for optimal air throw control. Also available with sliding volume damper.

Features

Material: aluminium.

EDLS finish: black RAL9005 painted aluminum frame and deflectors.

EDLSB finish: white RAL9016 painted aluminum frame and deflectors.

Slot: 20 mm or 30 mm.

Installation: by plenum box with mounting bridge, ceiling finishing with anti-crack tape on the frame and subsequent plaster skimming.

Possible dimensions in one piece:

- minimum length 300 mm;
- maximum length 2000 mm.

Use

Diffuser suitable for both air supply and exhaust in large rooms. Its modularity allows great freedom of design.

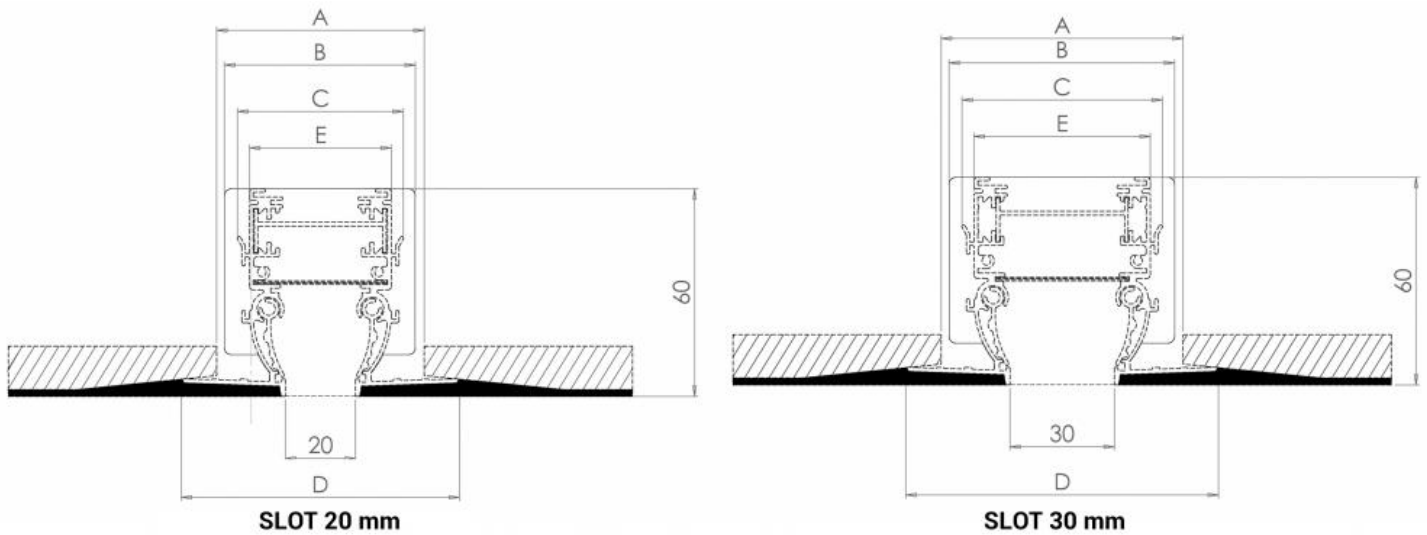
Models

- EDLS10-FA - EDLSB10-FA hidden linear diffusers 20 mm slot without deflectors (exhaust).
- EDLS20-FA - EDLSB20-FA hidden linear diffusers 20 mm slot with deflectors (supply).
- EDLS30-FA - EDLSB30-FA hidden linear diffusers 20 mm slot without deflectors, with sliding damper (exhaust).
- EDLS40-FA - EDLSB40-FA hidden linear diffusers 20 mm slot with deflectors and sliding damper (supply).
- EDLS10-FB - EDLSB10-FB hidden linear diffusers 30 mm slot without deflectors (exhaust).
- EDLS20-FB - EDLSB20-FB hidden linear diffusers 30 mm slot with deflectors (supply).
- EDLS30-FB - EDLSB30-FB hidden linear diffusers 30 mm slot without deflectors, with sliding damper (exhaust).
- EDLS40-FB - EDLSB40-FB hidden linear diffusers 30 mm slot with deflectors and sliding damper (supply).

Accessories

- galvanized plenum box;
- insulated plenum box;
- mounting bridge;
- continues line kit.

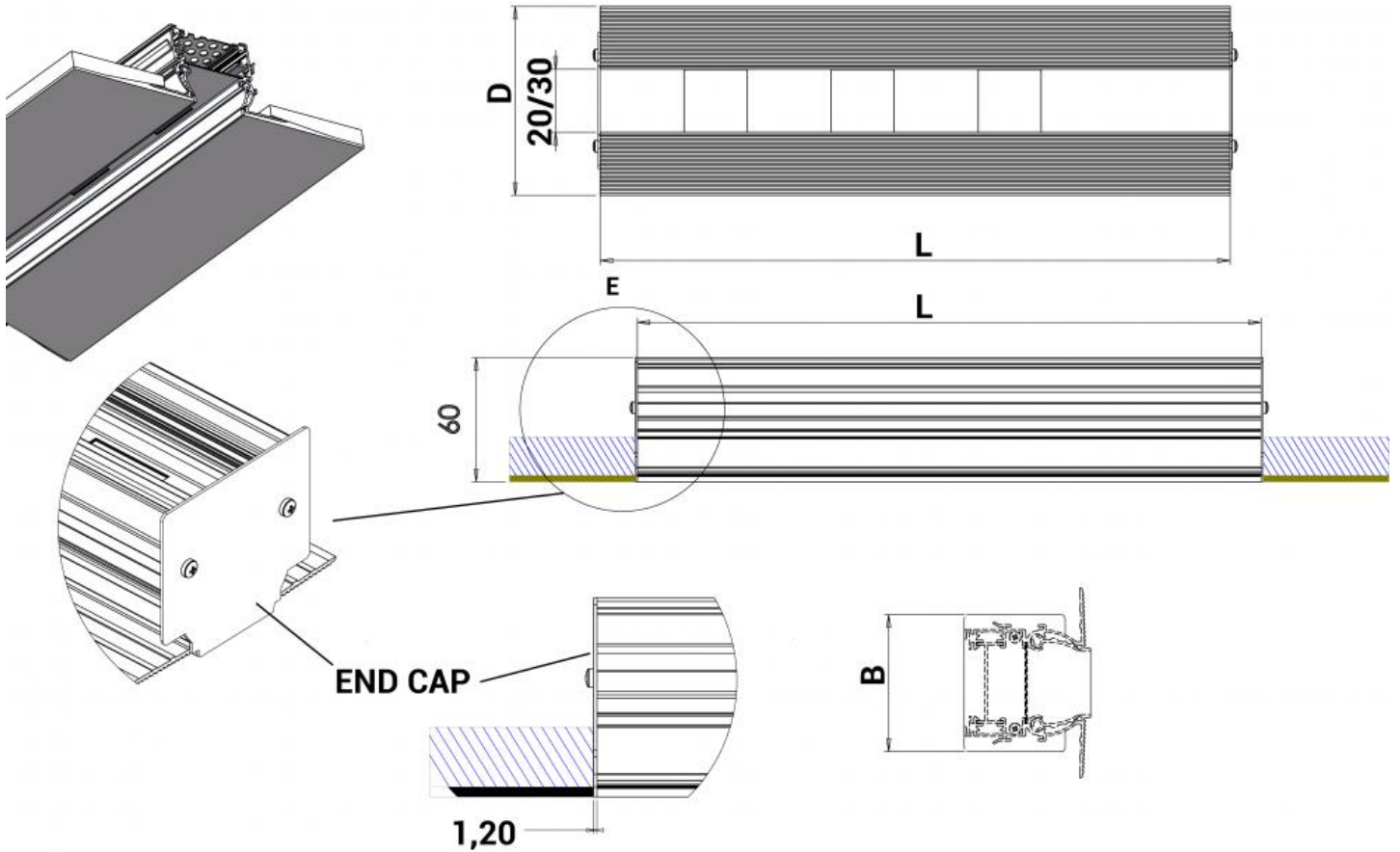
Concealed linear diffuser dimensions



All dimensions are expressed in mm

Slot	L	A	B	C	E	D	number of fixing brackets
20 mm slot	800	60	55	48	41	80	2
	1000						2
	1200						2
	1500						2
	2000						2
30 mm slot	800	70	65	58	51	90	2
	1000						2
	1200						2
	1500						2
	2000						2

Diffuser dimensional details



Operating data

Data referring to 1m long diffusers, with a terminal throw velocity $V_t=0.25$ m/s and with a temperature differential of 10/12°C, in ceiling installations and with lateral air throw.

Data referring to diffusers without damper or with open sliding damper.

Data referring to diffusers with deflectors in the working position with a 50% reduction of the air passage surface.

The position of the deflectors reduces the effective cross-section. When the deflectors are fully open or when the diffuser is used for air exhaust, the flow rates expressed in m^3/h indicated in the table may be higher.

Vk: effective speed (m/s)

m^3/h : air flow rate

Pa: pressure drops in Pascal

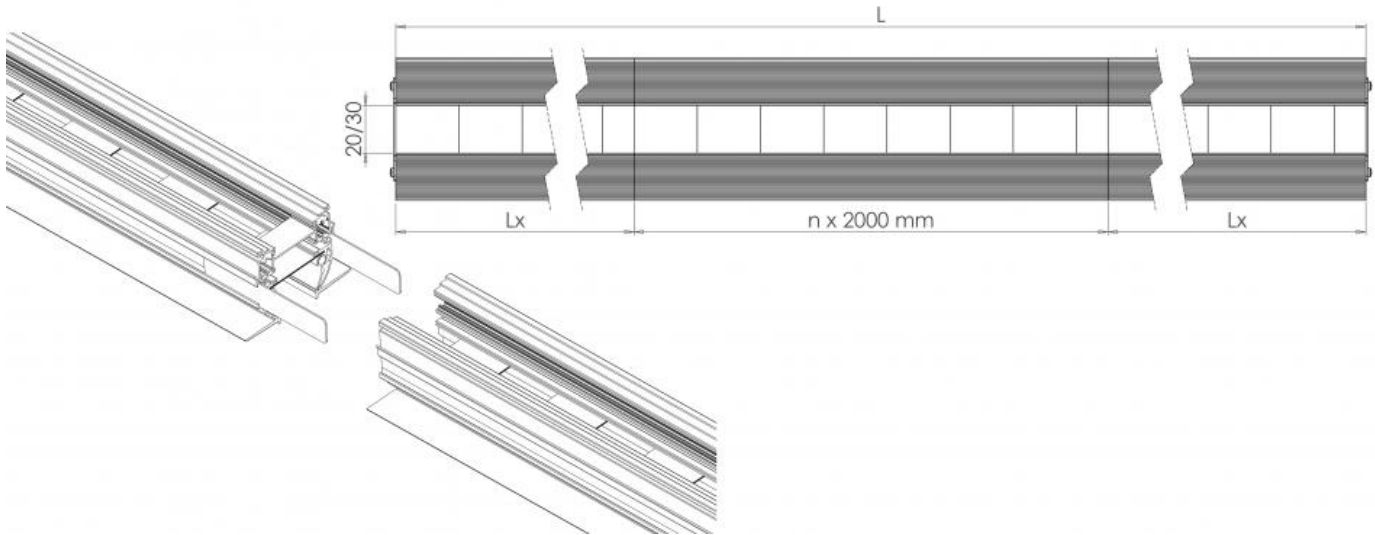
L(m): air throw in metres

dB(A): noise level

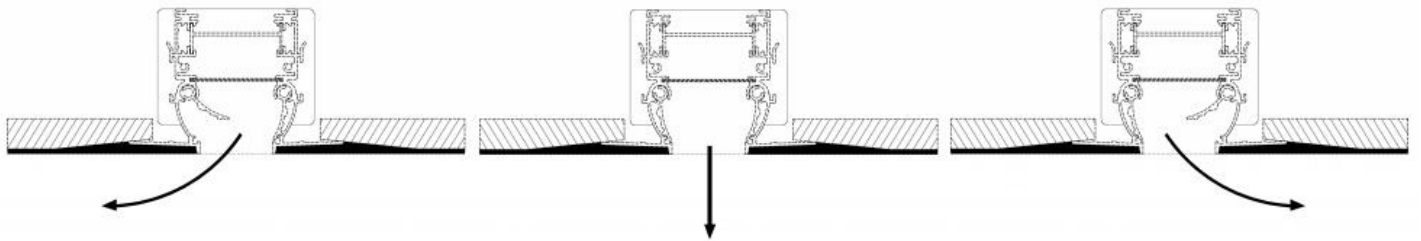
Slot	effective cross-section m^2	Air flow and throw						
		m^3/h	70	105	140	175	210	245
20 mm slot	0,0097	L(m)	1.8	2.7	3.6	4.5	5.4	6.3
		m^3/h	105	158	210	262	315	368
30 mm slot	0,0146	L(m)	1,6	2,5	3,4	4,2	5	5,8
		m^3/h	105	158	210	262	315	368
	Vk	m/s	2	3	4	5	6	7
	pressure drops	Pa	8	15	26	40	55	70
	noise level	dB(A)	<20	22	32	37	44	48

Continuity kit

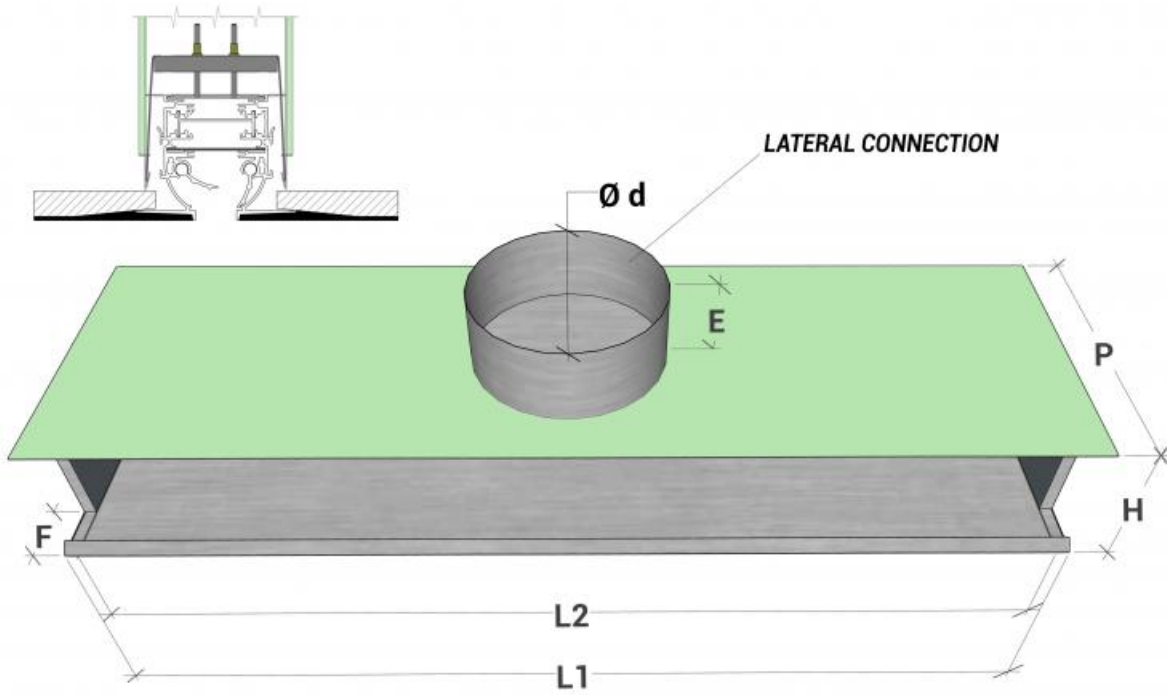
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



Air throw characteristics



Plenum dimensions and fixing bracket system



Slot	L	Plenum dimensions								
		L1	L2	No. of connections		Ø d	P	H	E	F
20 mm slot	800	800	770	1		145	240	60	80	56
	1000	1000	970	1						
	1200	1200	1170	2						
	1500	1500	1470	2						
	2000	2000	1970	2						
30 mm slot	800	800	770	1		145	240	70	80	56
	1000	1000	970	1						
	1200	1200	1170	2						
	1500	1500	1470	2						
	2000	2000	1970	2						

Price list for EDLS-FA black RAL9005 with 20 mm slot

Item normally available from stock							
EDLS-FA	length	EDLS10-FA	EDLS20-FA	EDLS30-FA	EDLS40-FA	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro	euro
20 mm slot	800	50,40	52,79	59,26	65,68	59,72	77,01
	1000	56,63	59,42	65,82	73,24	64,98	83,85
	1200	67,25	71,83	80,07	87,79	81,58	108,33
	1500	76,55	82,15	89,86	99,21	87,92	113,29
	2000	97,48	101,01	115,04	126,11	100,41	132,50

Price list for EDLS-FB black RAL9005 with 30 mm slot

Item normally available from stock							
EDLS-FB	length	EDLS10-FB	EDLS20-FB	EDLS30-FB	EDLS40-FB	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro	euro
30 mm slot	800	51,40	57,19	60,45	67,00	60,29	77,78
	1000	57,75	63,77	67,13	74,70	65,64	84,74
	1200	73,98	81,07	88,07	96,58	85,04	109,33
	1500	84,21	91,61	98,84	109,12	88,77	114,40
	2000	99,42	109,79	117,33	128,62	101,49	133,92

Price list for EDLSB-FA painted white RAL9016 with 20 mm slot

Item normally available from stock							
EDLSB-FA	length	EDLSB10-FA	EDLSB20-FA	EDLSB30-FA	EDLSB40-FA	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro	euro
20 mm slot	800	50,40	52,79	59,26	65,68	59,72	77,01
	1000	56,63	59,42	65,82	73,24	64,98	83,85
	1200	67,25	71,83	80,07	87,79	81,58	108,33
	1500	76,55	82,15	89,86	99,21	87,92	113,29
	2000	97,48	101,01	115,04	126,11	100,41	132,50

Price list for EDLSB-FB painted white RAL9016 with 30 mm slot

Item normally available from stock							
EDLSB-FB	length	EDLSB10-FB	EDLSB20-FB	EDLSB30-FB	EDLSB40-FB	PLENUM	INSULATED PLENUM
		euro	euro	euro	euro	euro	euro
30 mm slot	800	51,40	57,19	60,45	67,00	60,29	77,78
	1000	57,75	63,77	67,13	74,70	65,64	84,74
	1200	73,98	81,07	88,07	96,58	85,04	109,33
	1500	84,21	91,61	98,84	109,12	88,77	114,40
	2000	99,42	109,79	117,33	128,62	101,49	133,92

Price list

Item normally available from stock		euro
Fixing brackets and Kit for continuous line		
fixing bracket for EDLS-FA EDLS-FB EDLSB-FA EDLSB-FB		11,89
continuity kit		2,23