

# EDLS - EDLSBold 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.

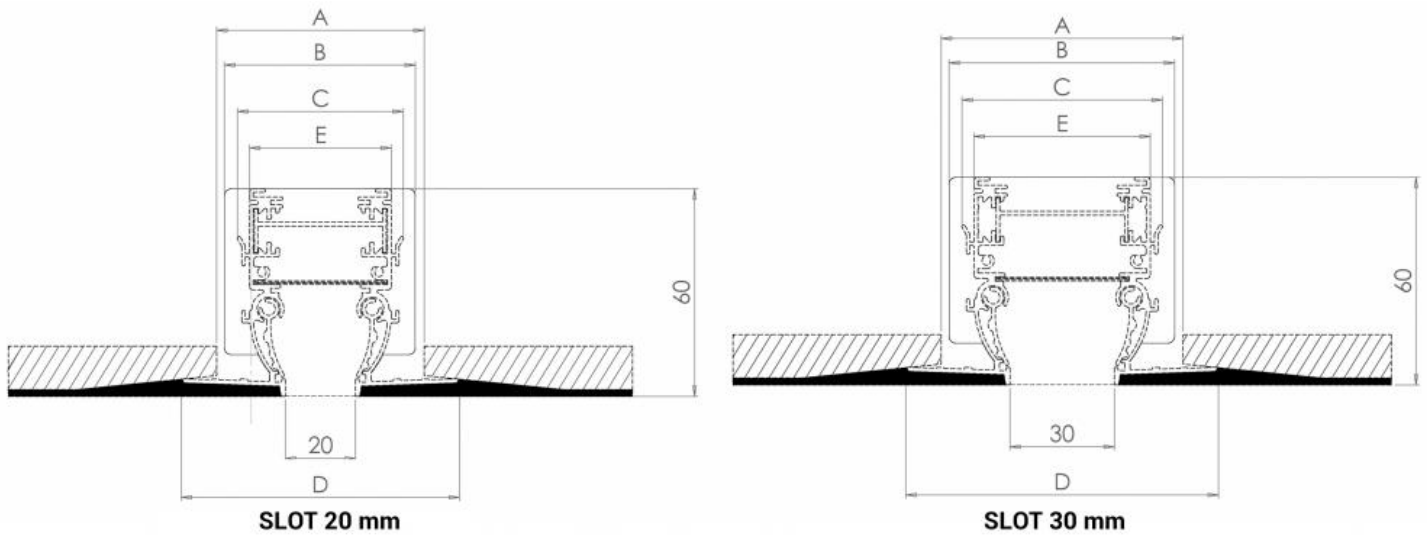
## Models

- 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.

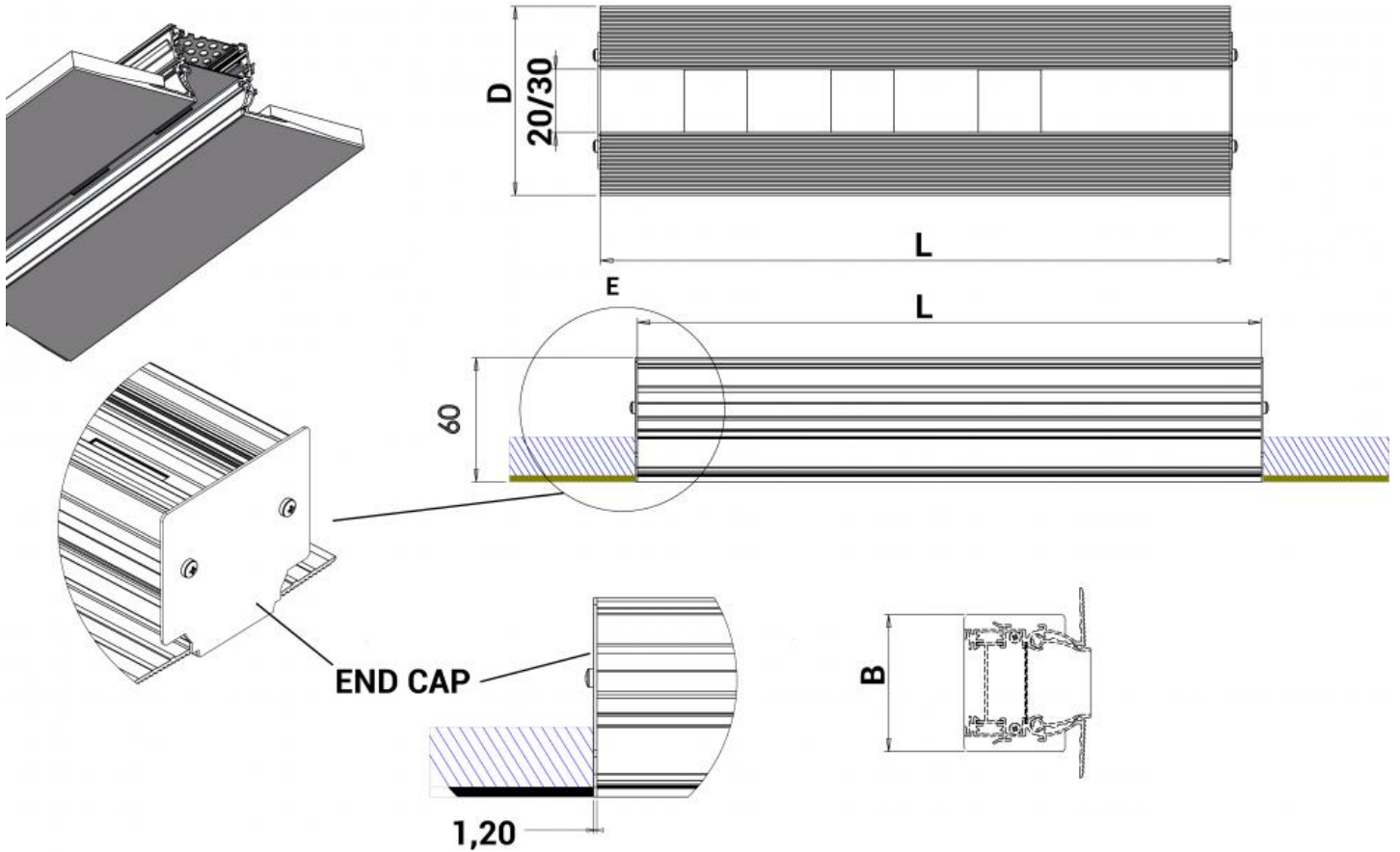
## Concealed linear diffuser dimensions



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  $10/12^\circ\text{C}$ , 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  $\text{m}^3/\text{h}$  indicated in the table may be higher.

Vk: effective speed (m/s)

$\text{m}^3/\text{h}$ : air flow rate

Pa: pressure drops in Pascal

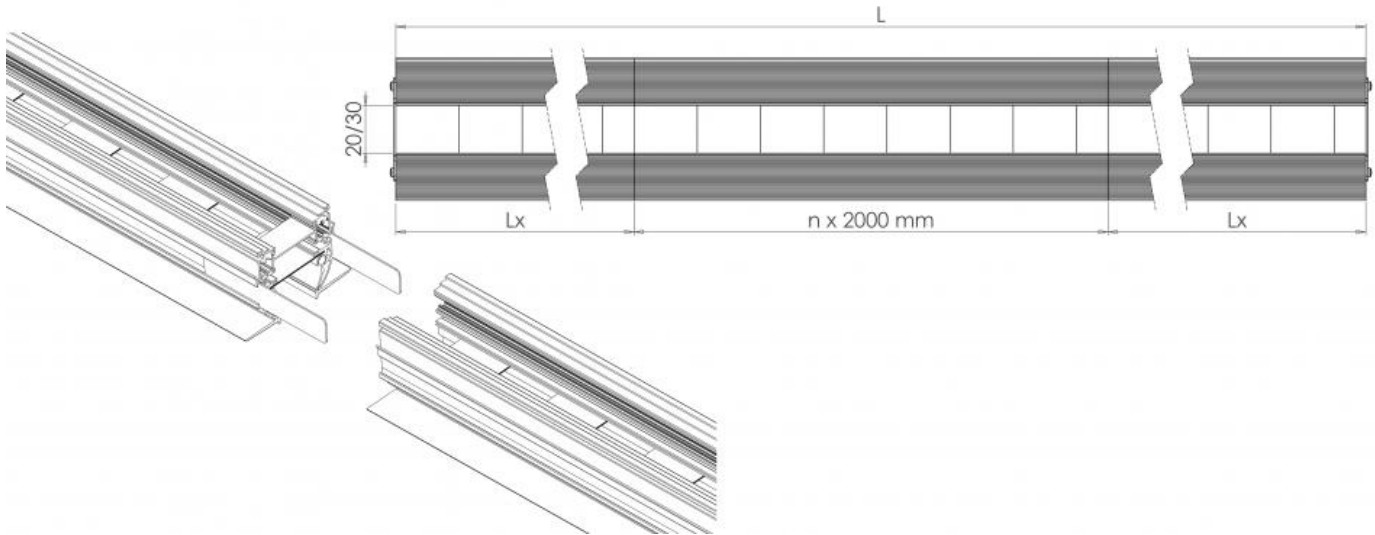
L(m): air throw in metres

dB(A): noise level

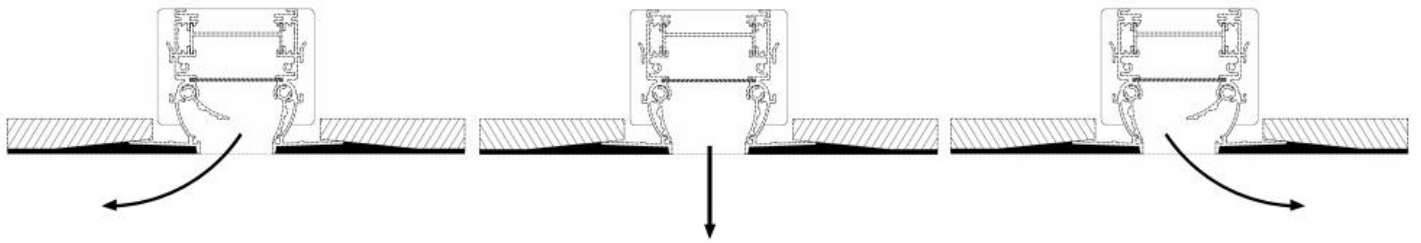
Slot	effective cross-section $\text{m}^2$	Air flow and throw						
		$\text{m}^3/\text{h}$	70	105	140	175	210	245
20 mm slot	0,0097	L(m)	1.8	2.7	3.6	4.5	5.4	6.3
		$\text{m}^3/\text{h}$	105	158	210	262	315	368
30 mm slot	0,0146	L(m)	1,6	2,5	3,4	4,2	5	5,8
		$\text{m}^3/\text{h}$	105	158	210	262	315	368
	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

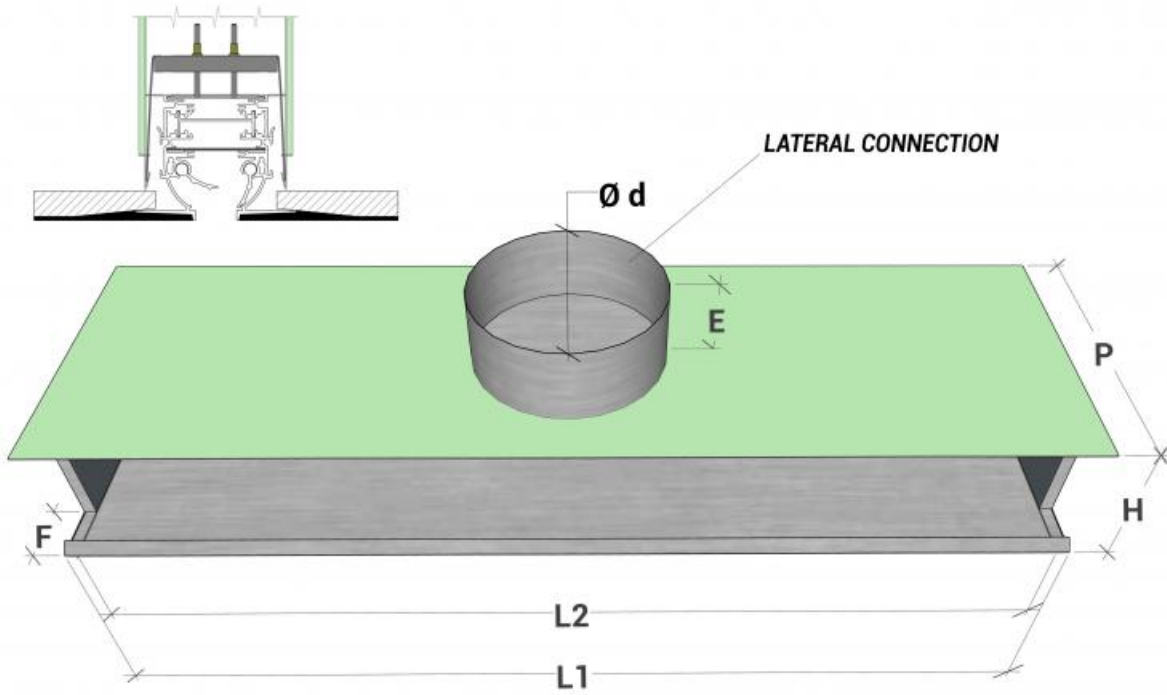
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



### 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	▼	▼	▼	▼	▼	▼
	1000	▼	▼	▼	▼	▼	▼
	1200	▼	▼	▼	▼	▼	▼
	1500	▼	▼	▼	▼	▼	▼
	2000	▼	▼	▼	▼	▼	▼

#### 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	▼	▼	▼	▼	▼	▼
	1000	▼	▼	▼	▼	▼	▼
	1200	▼	▼	▼	▼	▼	▼
	1500	▼	▼	▼	▼	▼	▼
	2000	▼	▼	▼	▼	▼	▼

#### 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	▼	▼	▼	▼	▼	▼
	1000	▼	▼	▼	▼	▼	▼
	1200	▼	▼	▼	▼	▼	▼
	1500	▼	▼	▼	▼	▼	▼
	2000	▼	▼	▼	▼	▼	▼

#### 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	▼	▼	▼	▼	▼	▼
	1000	▼	▼	▼	▼	▼	▼
	1200	▼	▼	▼	▼	▼	▼
	1500	▼	▼	▼	▼	▼	▼
	2000	▼	▼	▼	▼	▼	▼

#### Price list

Item normally available from stock	
Fixing brackets and Kit for continuous line	euro
fixing bracket for EDLS-FA EDLS-FB EDLSB-FA EDLSB-FB	▼
continuity kit	▼