EDLS - EDLSB Concealed linear diffusers



Description

Concealed linear diffusers with a single 20 mm or 30 mm slot with aerodynamic aluminium profile and adjustable deflectors for optimal air throw control. Also available with sliding regulation damper.

Characteristics

Material: aluminium.
EDLS finish: black RAL9005 painted aluminium frame and deflectors.
EDLSB finish: white RAL9016 painted aluminium frame and deflectors.

Slot: 20 mm or 30 mm.

Installation: by means of a plenum with a fixing bracket system. Positioning of 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 for great freedom of design.

Models

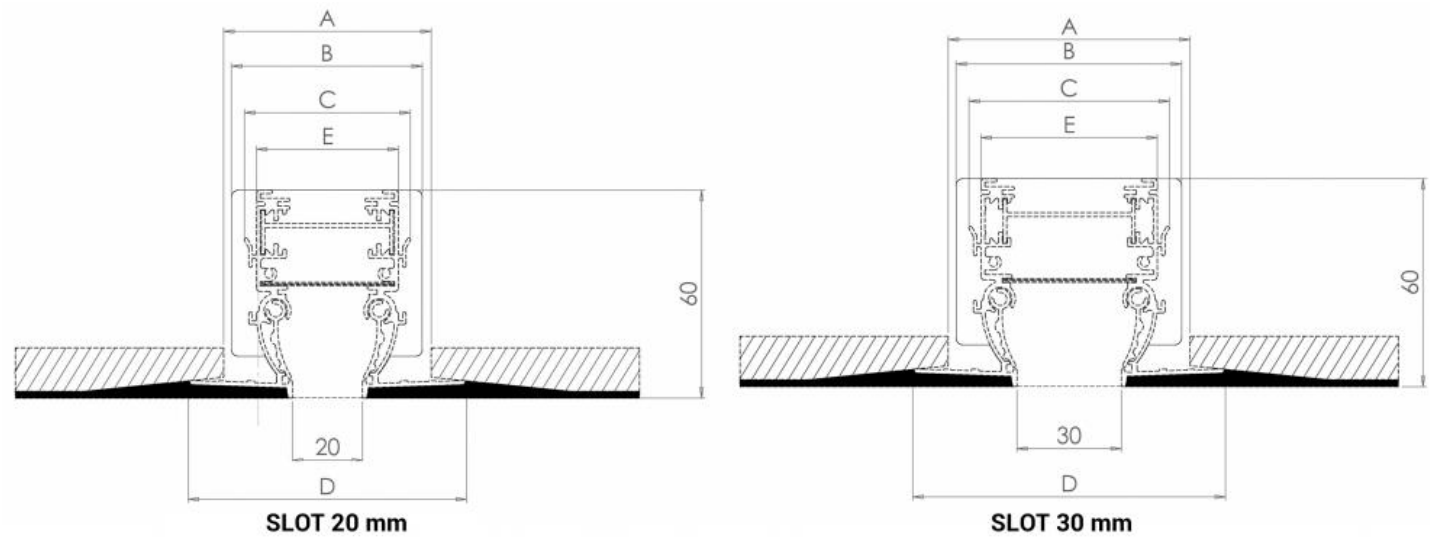
-EDLS10-FA - EDLSB10-FA concealed linear diffusers (exhaust) without deflectors with 20 mm slot.
-EDLS20-FA - EDLSB20-FA concealed linear diffusers (supply) with deflectors and 20 mm slot.
-EDLS30-FA - EDLSB30-FA concealed linear diffusers (exhaust) without deflectors, with damper and 20 mm slot.
-EDLS40-FA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

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

Accessories

- galvanised plenum;
- insulated plenum;
- fixing brackets;
- continuity kit.

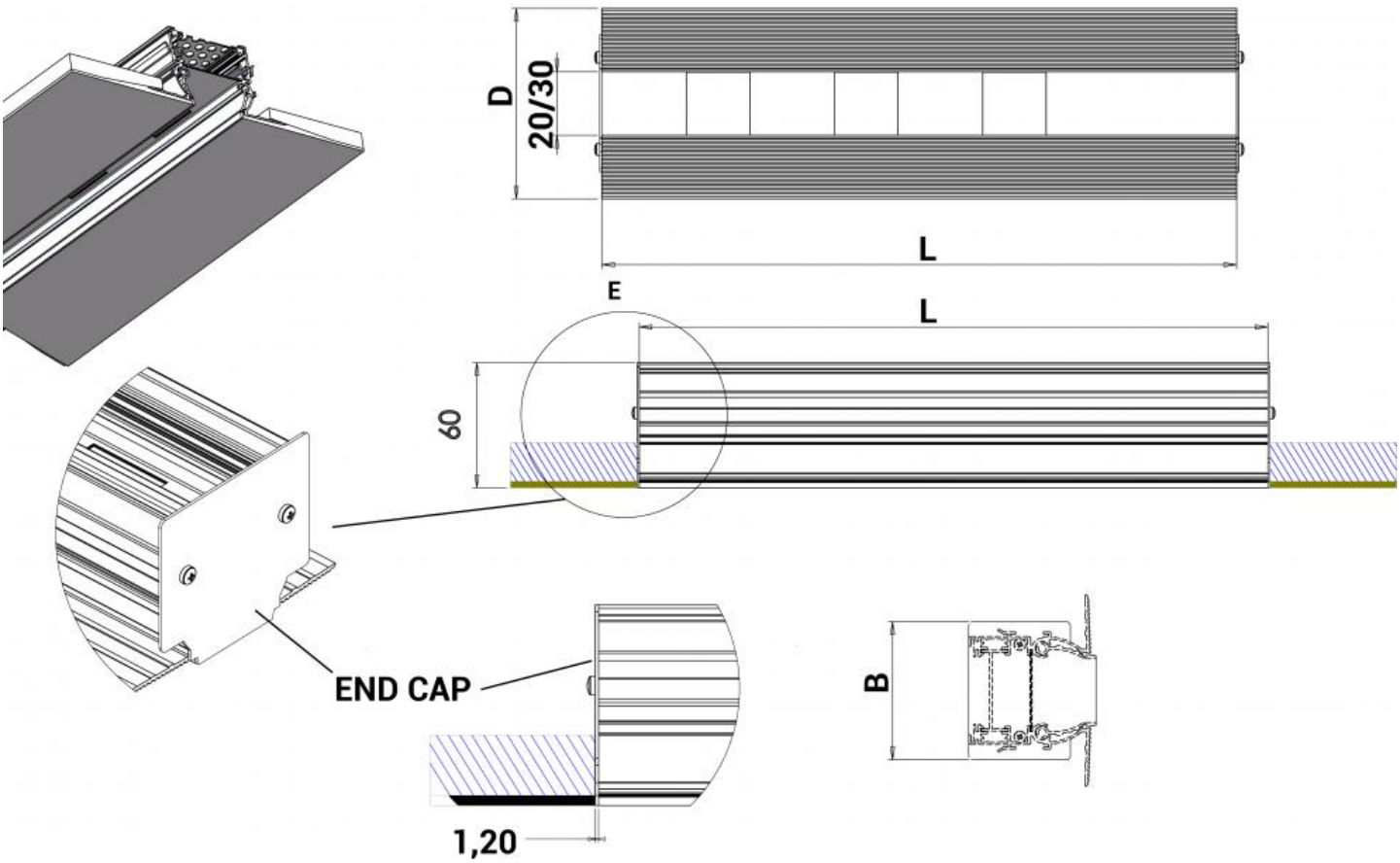
Concealed linear diffuser dimensions



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 Vt=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.

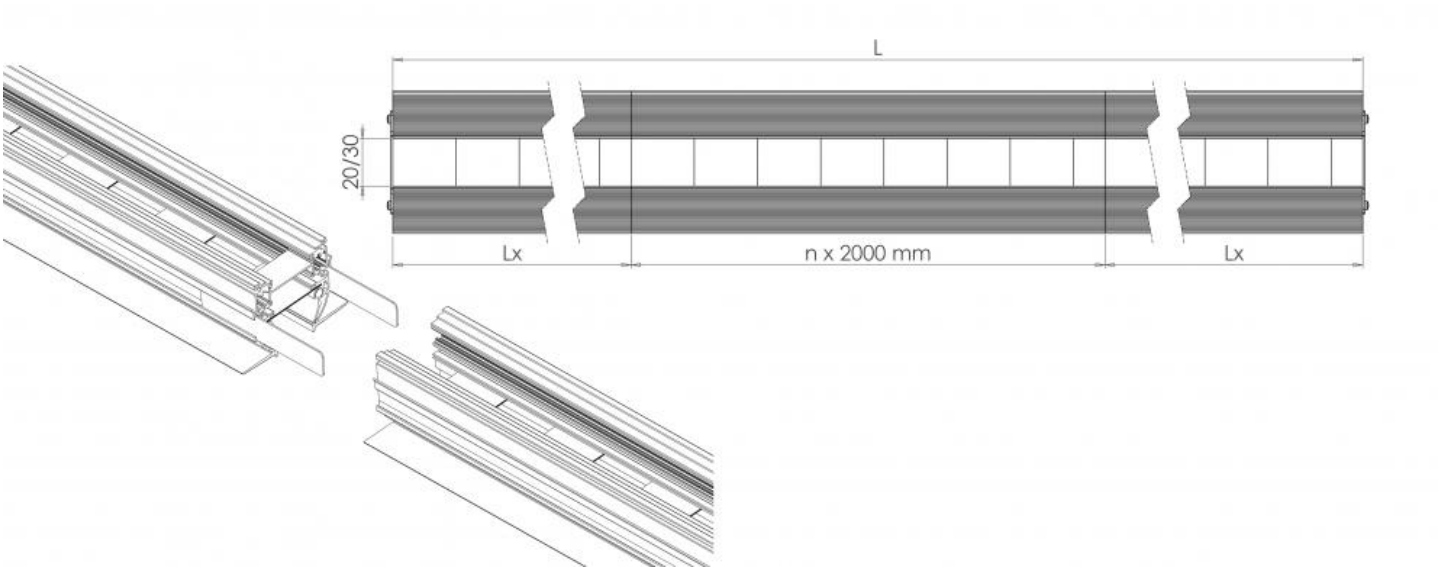
The position of the deflectors reduces the effective cross-section. When the deflectors are fully open or when the diffuser is used for air exhaust, the flow rates expressed in m^3/h indicated in the table may be higher.

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

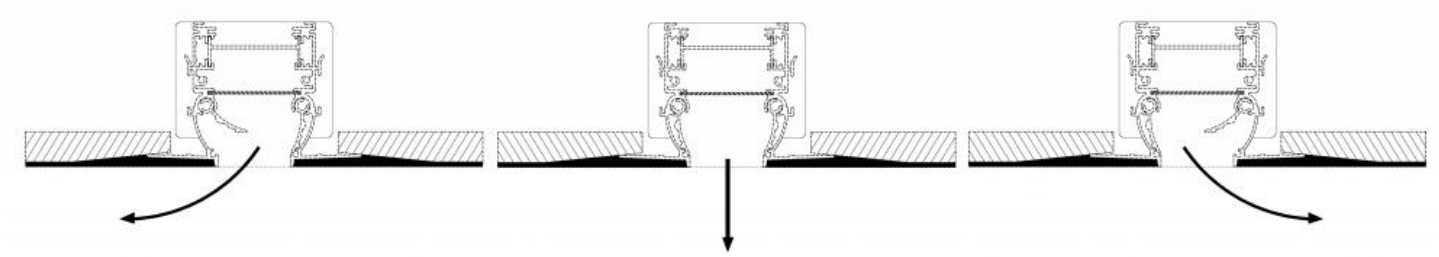
Slot	effective cross-section m^2	Air flow and throw						
20 mm slot	0,0097	m^3/h	70	105	140	175	210	245
		L(m)	1.8	2.7	3.6	4.5	5.4	6.3
30 mm slot	0,0146	m^3/h	105	158	210	262	315	368
		L(m)	1,6	2,5	3,4	4,2	5	5,8
Vk		m/s	2	3	4	5	6	7
pressure drops		Pa	8	15	26	40	55	70
noise level		dB(A)	<20	22	32	37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

Continuity kit

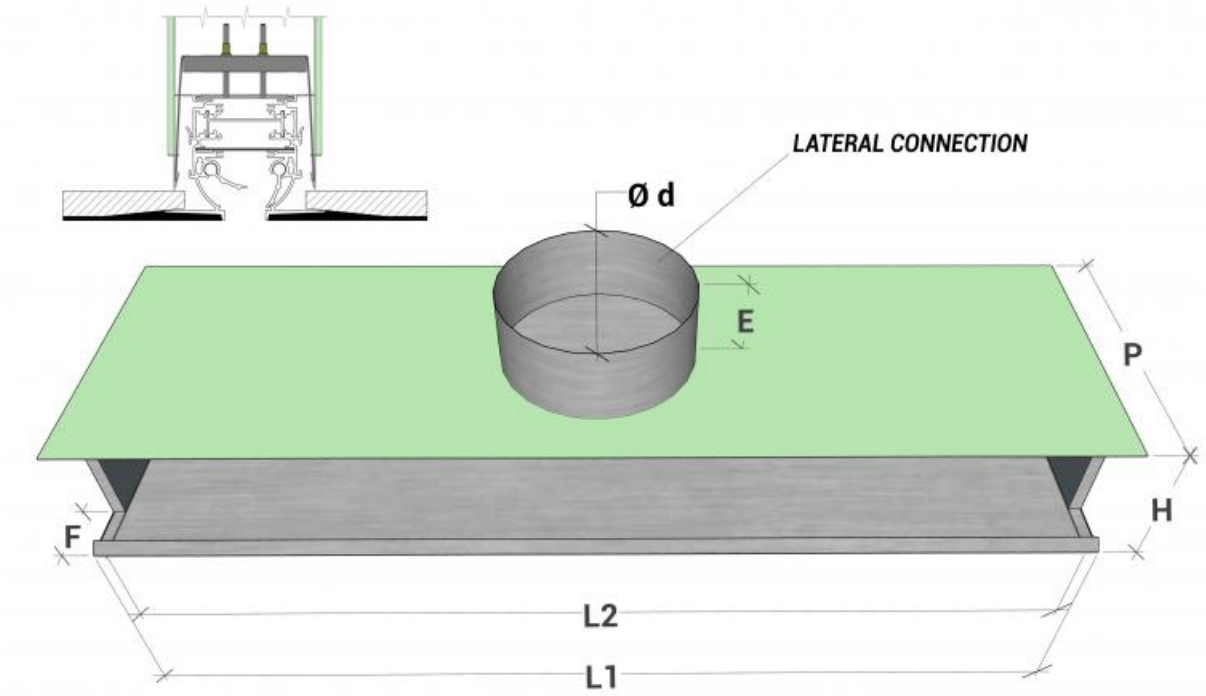
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



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

EDLS-FA	lenght	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

EDLS-FB	lenght	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

EDLSB-FA	lenght	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

EDLSB-FB	lenght	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

Fixing brackets and Kit for continuos line	euro
fixing bracket for EDLS-FA EDLS-FB EDLSB-FA EDLSB-FB	⌄
continuity kit	⌄