

EDLS

Hidden multi-slot linear diffusers

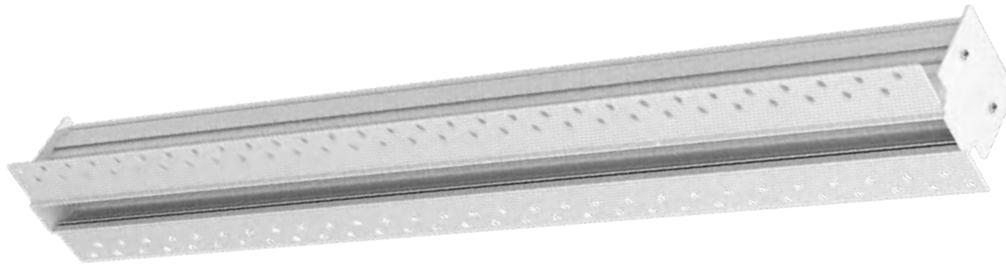
Technical sheet

Rev.03



EDLS-EDLSB

1 SLOT



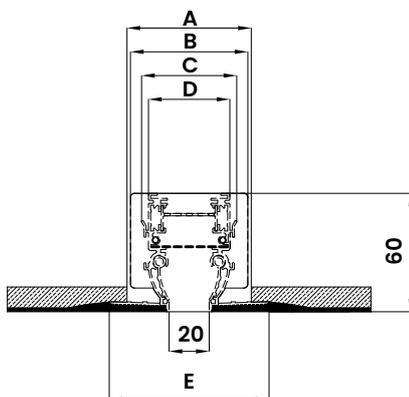
1 SLOT

Slot width	L	A	B	C	D	E	Number of mounting bridge	Effective cross-section m ²	Air flow and throw										
20 MM	800	60	55	48	41	80	2	0,0097	m ³ /h	70	105	140	175	210	245				
	1000									L(m)	1,8	2,7	3,6	4,5	5,4	6,3			
	1200								2000		2	0,0146	m ³ /h	105	158	210	262	315	368
	1500													L(m)	1,6	2,5	3,4	4,2	5
	2000								noise level	dB(A)	<20	22	32		37	44	48		
Vk									m/s	2	3	4	5	6	7				
Pressure drop									Pa	7	15	26	41	59	80				

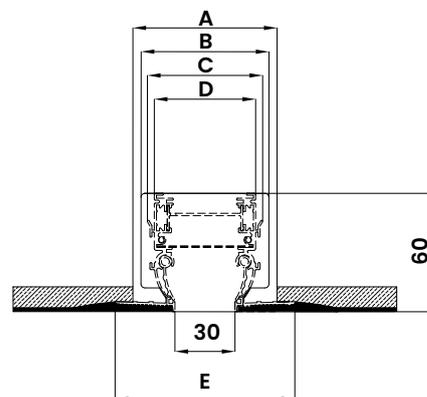
Operating data

Data referring to 1 m long diffusers, with a terminal throw speed $V_t=0.25$ m/s, in ceiling installations and with lateral launch with coanda effect. Data referring to diffusers without damper and 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 exhaust air, the flow rates (expressed in m³/h) indicated in the table can change.

Vk (m/s) effective speed
m³/h air flow rate
Pa pressure drop
L(m) air throw
dB(A) noise level



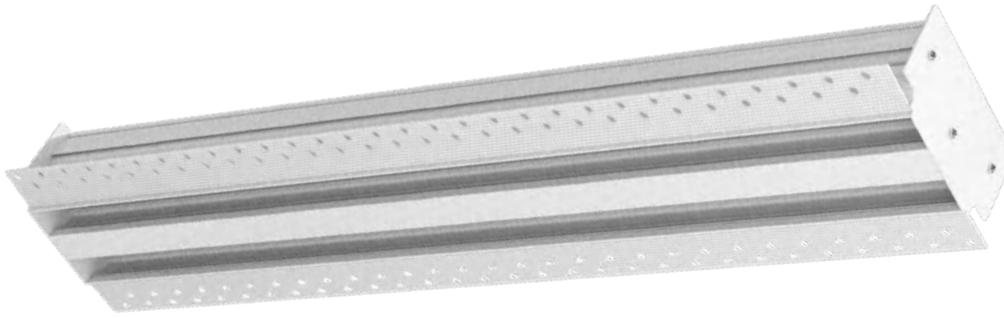
SLOT 20mm
EDLS FA



SLOT 30mm
EDLS FB

EDLS-EDLSB

2 SLOTS



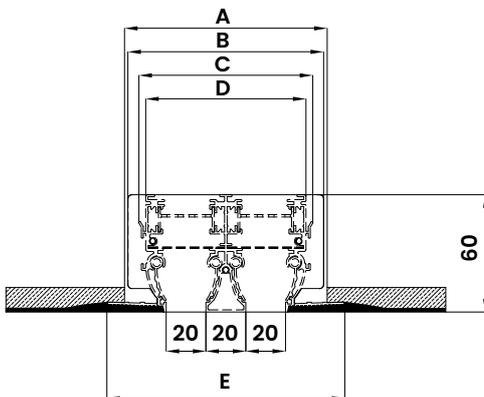
2 SLOTS

Slot width	L	A	B	C	D	E	Number of mounting bridge	Effective cross-section m²	Air flow and throw						
									m³/h	L(m)	dB(A)	m/s	Pa		
20 MM	800	100	95	88	81	120	2	0,0194	m³/h	140	210	280	350	420	490
	1000								L(m)	2,6	3,9	5,1	6,4	7,7	9,0
	1200									2,6	3,9	5,1	6,4	7,7	9,0
	1500									2,6	3,9	5,1	6,4	7,7	9,0
	2000									2,6	3,9	5,1	6,4	7,7	9,0
30 MM	800	120	115	108	101	140	2	0,0292	m³/h	210	316	420	524	630	736
	1000								L(m)	2,3	3,6	4,9	6,0	7,1	8,3
	1200									2,3	3,6	4,9	6,0	7,1	8,3
	1500									2,3	3,6	4,9	6,0	7,1	8,3
	2000									2,3	3,6	4,9	6,0	7,1	8,3
Vk								dB(A)	<20	24	34	39	46	50	
Pressure drop								m/s	2	3	4	5	6	7	
								Pa	7	15	26	41	59	80	

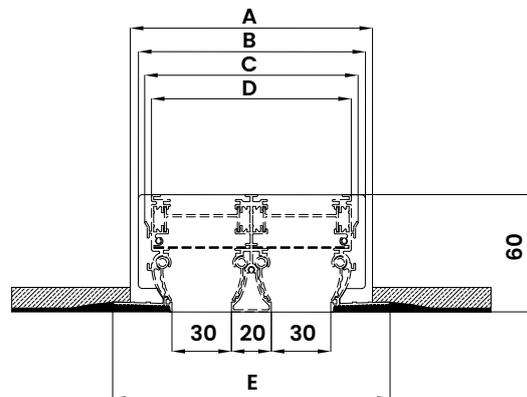
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- Vk (m/s) effective speed
- m³/h air flow rate
- Pa pressure drop
- L(m) air throw
- dB(A) noise level



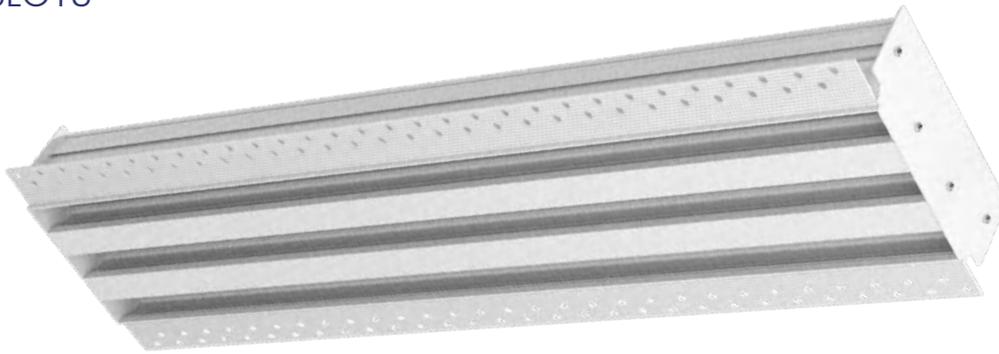
SLOT 20mm
EDLS FA



SLOT 30mm
EDLS FB

EDLS-EDLSB

3 SLOTS



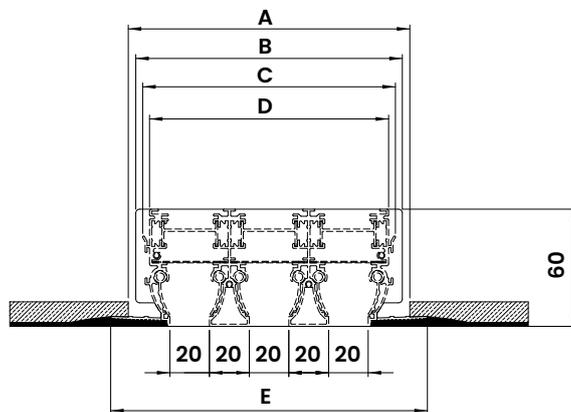
3 SLOTS

Slot width	L	A	B	C	D	E	Number of mounting bridge	Effective cross-section m ²	Air flow and throw						
20 MM	800	140	135	128	121	160	2	0,0291	m ³ /h	210	315	420	525	630	735
	1000								L(m)	3,9	5,8	7,7	9,6	11,6	13,5
	1200														
	1500														
	2000									3					
30 MM	800	170	165	158	151	190	2	0,0438	m ³ /h	305	474	630	786	945	1104
	1000								L(m)	3,4	5,4	7,3	9,0	10,7	12,4
	1200														
	1500														
	2000									3	noise level	dB(A)	<20	26	36
Vk									m/s	2	3	4	5	6	7
Pressure drop									Pa	7	15	26	41	59	80

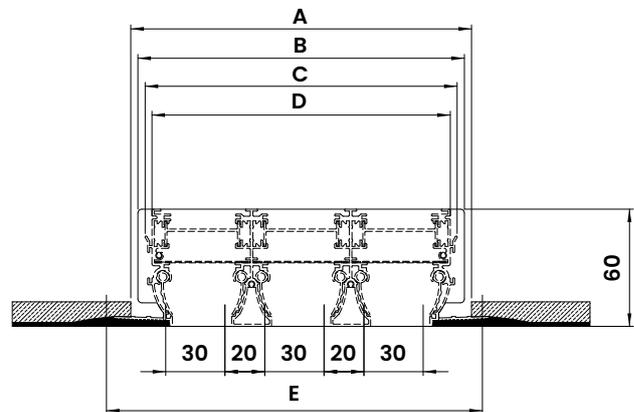
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- Vk (m/s) effective speed
- m³/h air flow rate
- Pa pressure drop
- L(m) air throw
- dB(A) noise level



SLOT 20mm
EDLS FA

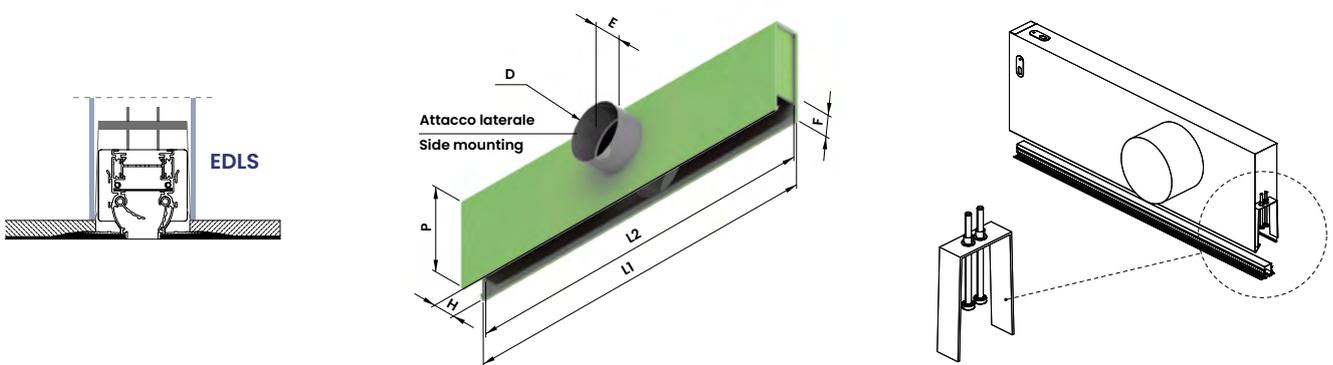


SLOT 30mm
EDLS FB

PLENUM BOX DIMENSIONS AND MOUNTING BRIDGE SYSTEM

Galvanized steel plenum, available both without insulation and with external expanded polyethylene insulation to ensure enhanced thermal performance. Designed for continuous diffuser installation, it is equipped with integrated fixing brackets that provide

stability and quick installation. The connection between the diffuser and the plenum is achieved through practical fixing bridges that hook into the dedicated structural folds, ensuring simple, secure, and precise mounting.



EDLS	1 SLOT	L	L1	L2	No. of connections	Ø d	P	H	E	F
	20 MM	800	800	770	1	145	240	65	80	49
		1000	1000	970	1					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					
	30 MM	800	800	770	1	145	240	75	80	49
		1000	1000	970	1					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					

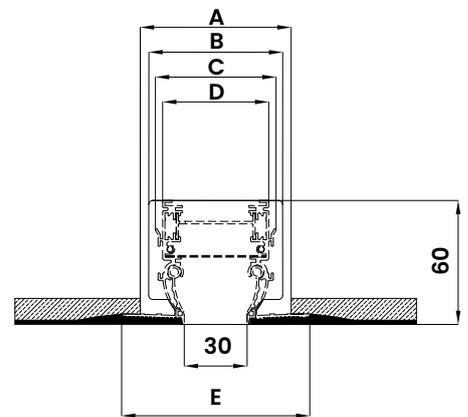
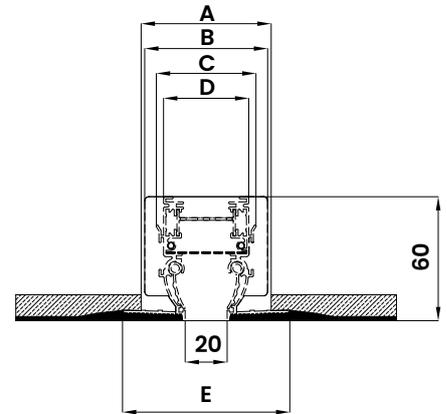
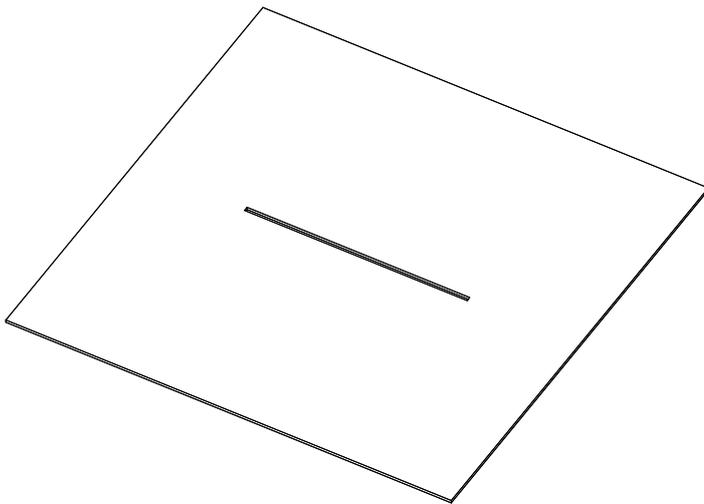
EDLS	2 SLOTS	L	L1	L2	No. of connections	Ø d	P	H	E	F
	20 MM	800	800	770	2	145	300	105	80	49
		1000	1000	970	2					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					
	30 MM	800	800	770	2	198	300	125	80	49
		1000	1000	970	2					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					

EDLS	3 SLOTS	L	L1	L2	No. of connections	Ø d	P	H	E	F
	20 MM	800	800	770	2	198	300	145	80	49
		1000	1000	970	2					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					
	30 MM	800	800	770	2	198	300	165	80	49
		1000	1000	970	2					
		1200	1200	1170	2					
		1500	1500	1470	2					
		2000	2000	1970	2					

INSTALLATION EDLS-EDSLB

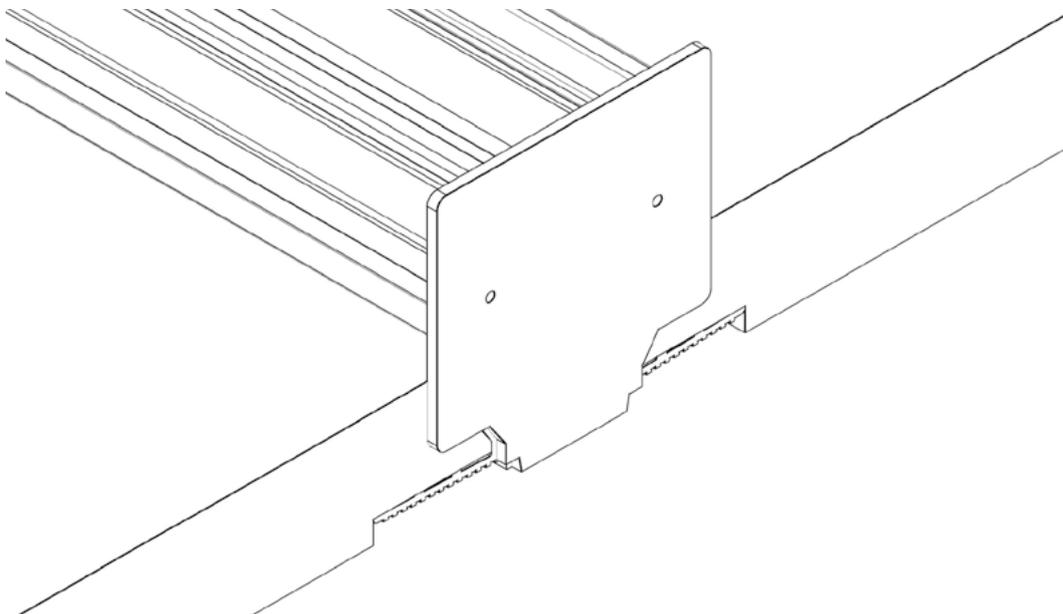
1

Prepare the hole on the plasterboard sheet with a width equal to the "A" dimension, depending on the model and the number of slots, and with a length of "L":



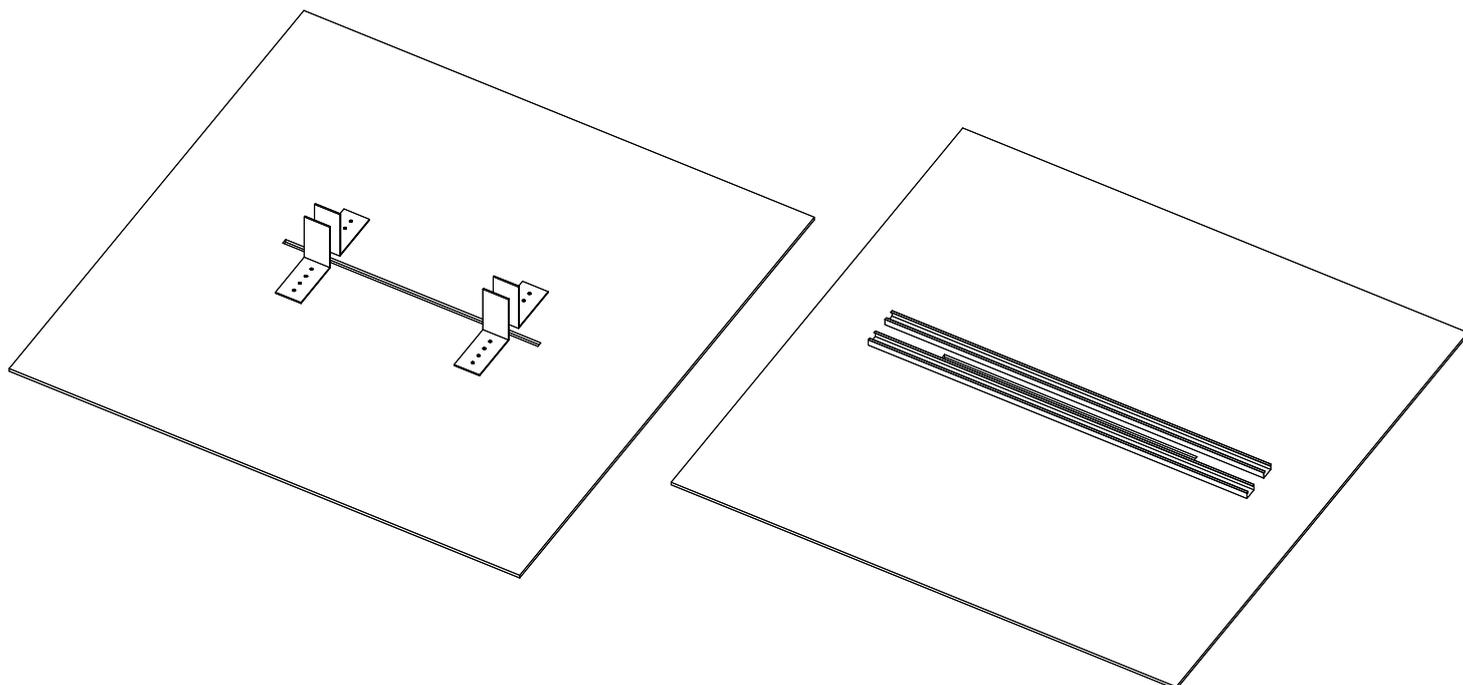
2

The hole must be filed laterally to allow subsequent correct installation flush with the diffuser:



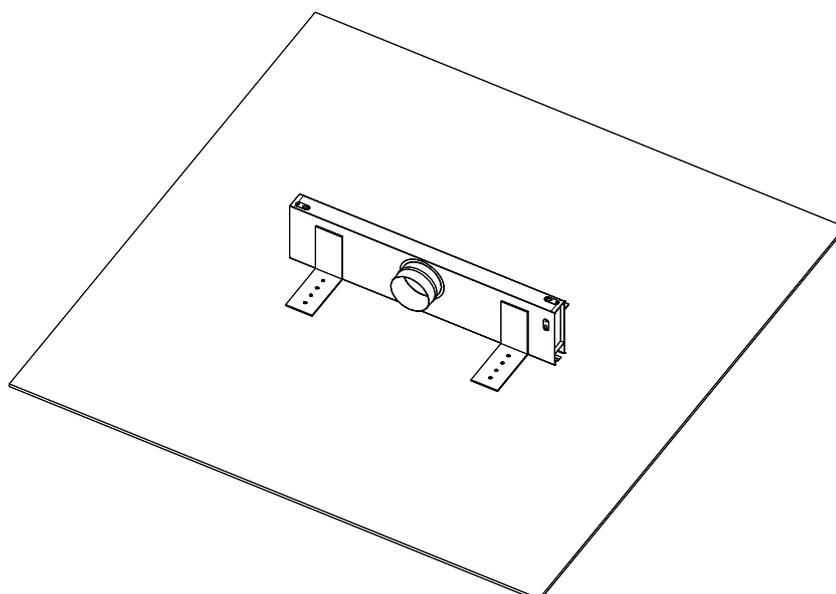
3

On the sides of the hole, install two supports, with plasterboard structures or with brackets (material not supplied with the plenum):



4

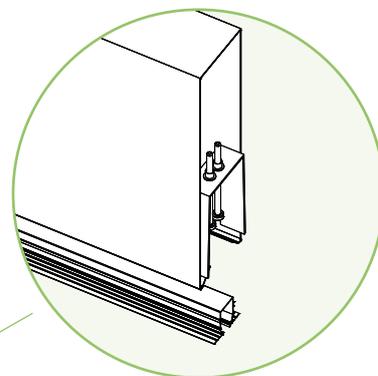
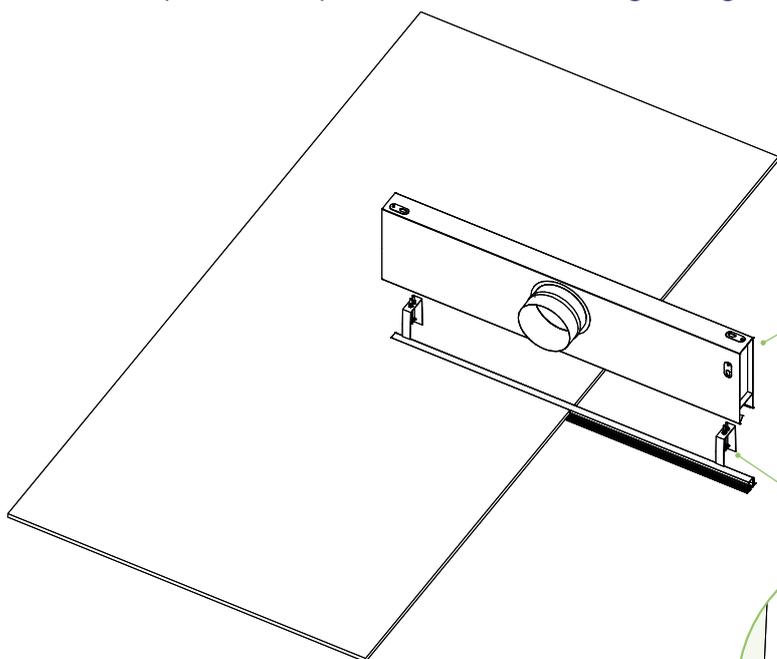
The plenum is installed on top of the plasterboard and fixed to the brackets:



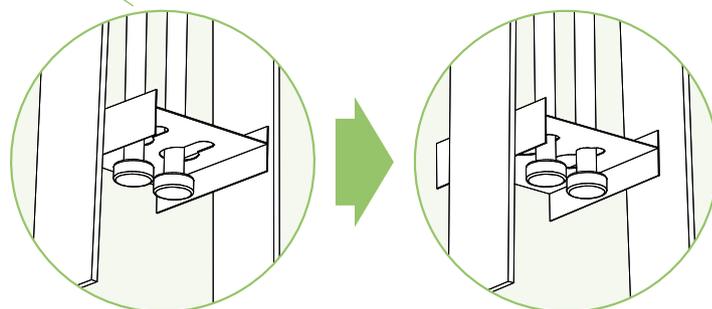
5

The plenum will be installed in rebate on the plasterboard, the diffuser is inserted, after prior deburring of the slab, from the front and fixed to the plenum by means of the fixing bridges:

The fixing bridge must be inserted inside the plenum and connected to the diffuser, using the screws supplied, as indicated in section:

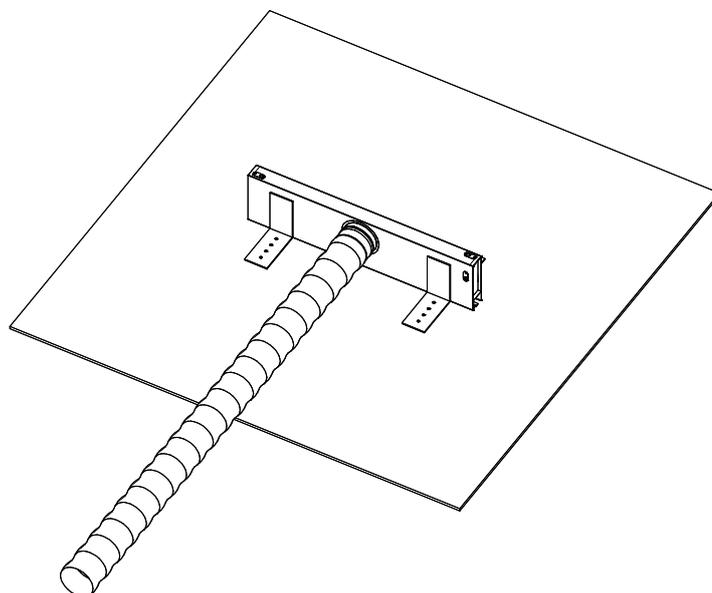


The screws of the fixing bridge must be passed through the plates with eyelets present in the diffuser:



6

Connect the hose to the detachment and secure with a cable tie:

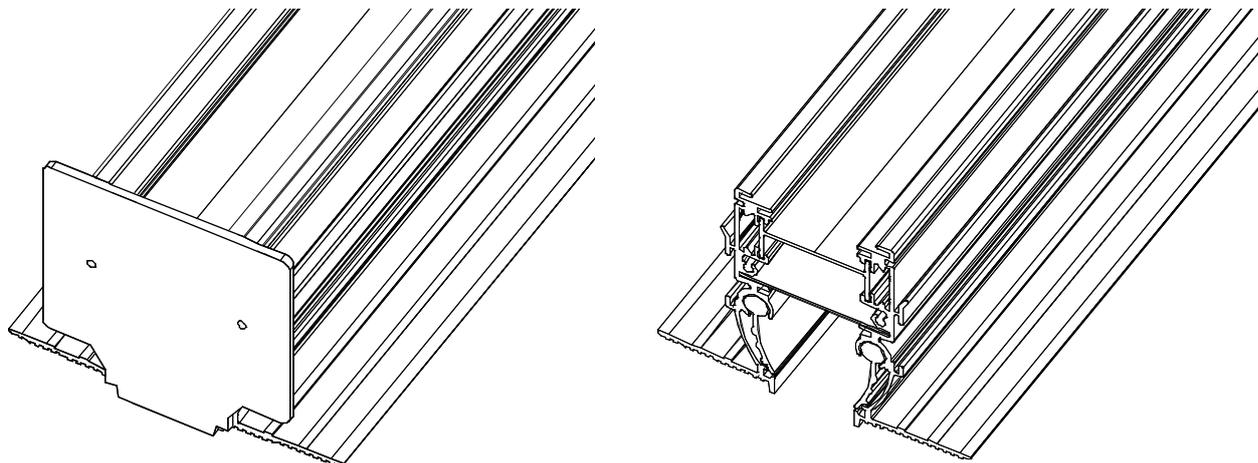


7

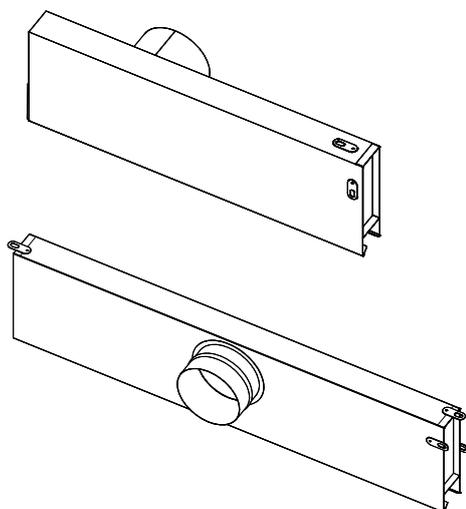
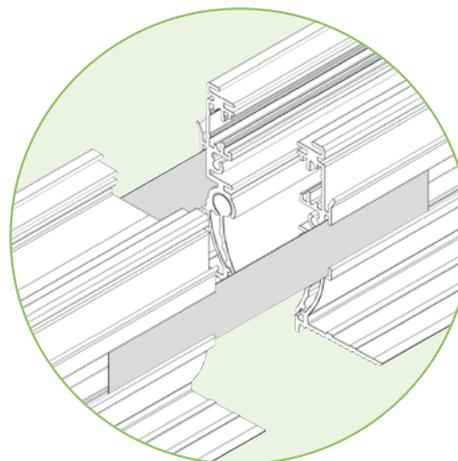
Skimm on the bottom.

8

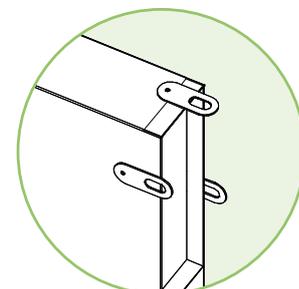
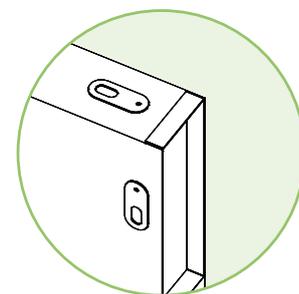
In the case of continuous installation, the diffusers are placed next to each other and connected via the continuity kit after removing the closing head.



The plates of the continuity kit must then be inserted and the two diffusers hooked up:



The plenums are equipped with fixing plates that must be rotated to facilitate the maintenance of linearity in the case of continuous installation:



CODE

How to order

EDLS10	FA	1000	1F
<p style="text-align: center;">↓</p> <p>EDLS10-FA / EDLSB10-FA hidden linear diffusers 20 mm slot without deflectors (exhaust).</p> <p>EDLS20-FA / EDLSB20-FA hidden linear diffusers 20 mm slot with deflectors (supply).</p> <p>EDLS30-FA / EDLSB30-FA hidden linear diffusers 20 mm slot without deflectors, with sliding damper (exhaust).</p> <p>EDLS40-FA / EDLSB40-FA hidden linear diffusers 20 mm slot with deflectors and sliding damper (supply).</p> <p>EDLS10-FB - EDLSB10-FB hidden linear diffusers 30 mm slot without deflectors (exhaust).</p> <p>EDLS20-FB - EDLSB20-FB hidden linear diffusers 30 mm slot with deflectors (supply).</p> <p>EDLS30-FB - EDLSB30-FB hidden linear diffusers 30 mm slot without deflectors, with sliding damper (exhaust).</p> <p>EDLS40-FB - EDLSB40-FB hidden linear diffusers 30 mm slot with deflectors and sliding damper (supply).</p>	<p style="text-align: center;">↓</p> <p>FA 20 mm slot</p> <p>FB 30 mm slot</p>	<p style="text-align: center;">↓</p> <p>Lenght L (mm) 800 1000 1200 1500 2000</p>	<p style="text-align: center;">↓</p> <p>1F 1 slot</p> <p>2F 2 slot</p> <p>3F 3 slot</p>



Head quarter

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ISO 50001
ISO 45001
ISO 14001

Certified Management System