

# EDLH-EDLHB Hidden multi-slot linear diffusers



## Description

Hidden linear diffuser with single or multi slots, width 20 or 30 mm, with aluminium aerodynamic profile and adjustable deflectors for optimal air throw control. Also available with equalizer and sliding damper.

## Features

Material: aluminium;  
EDLH finish: RAL9005 black painted aluminium;  
EDLHB finish: RAL9016 white painted aluminium;  
Slots number: from 1 to 3;  
Slots width: 20 or 30 mm;

Installation: by plenum box with mounting bridge;

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.

The EDLH system is designed for the use on plasterboard walls and false ceiling with width 12,5 mm.

## Models

- EDLH10-FA - EDLHB10-FA hidden linear diffusers 20 mm slot without deflectors (exhaust).
- EDLH20-FA - EDLHB20-FA hidden linear diffusers 20 mm slot with deflectors (supply).
- EDLH30-FA - EDLHB30-FA hidden linear diffusers 20 mm slot without deflectors, with sliding damper (exhaust).
- EDLH40-FA - EDLHB40-FA hidden linear diffusers 20 mm slot with deflectors and sliding damper (supply).
- EDLH10-FB - EDLHB10-FB hidden linear diffusers 30 mm slot without deflectors (exhaust).
- EDLH20-FB - EDLHB20-FB hidden linear diffusers 30 mm slot with deflectors (supply).
- EDLH30-FB - EDLHB30-FB hidden linear diffusers 30 mm slot without deflectors, with sliding damper (exhaust).
- EDLH40-FB - EDLHB40-FB hidden linear diffusers 30 mm slot with deflectors and sliding damper (supply).

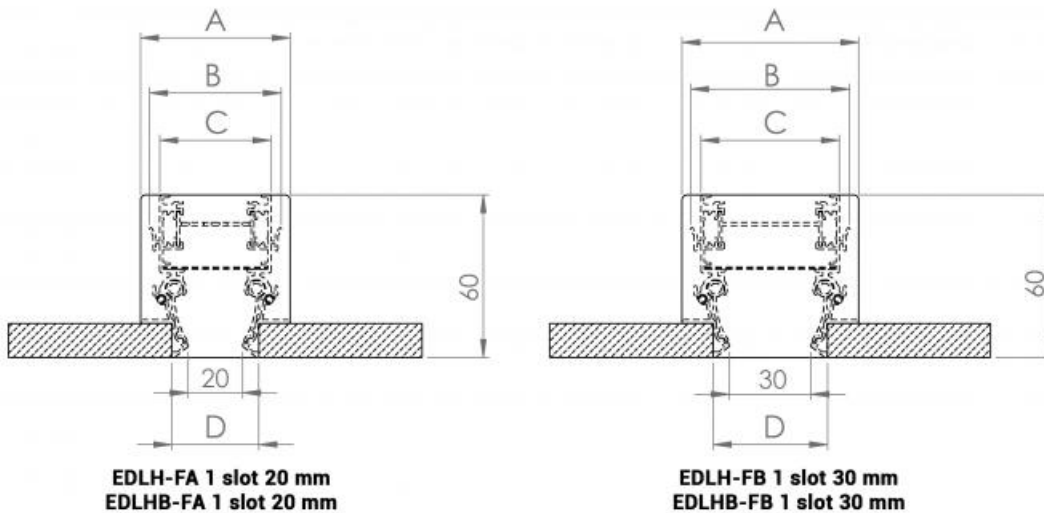
## Accessories

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

## On demand

- Possibility of installation in continuity;
- Plenum box with ovalised rear connection.

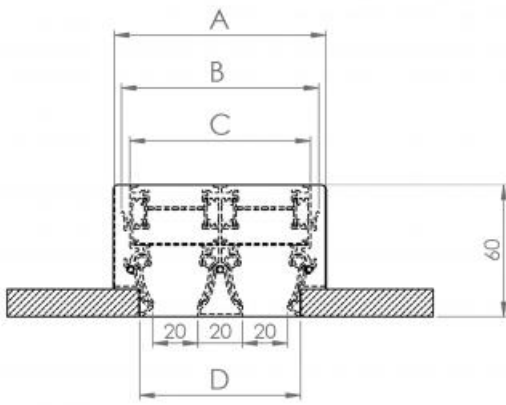
## EDLH - EDLHB one slot dimensions



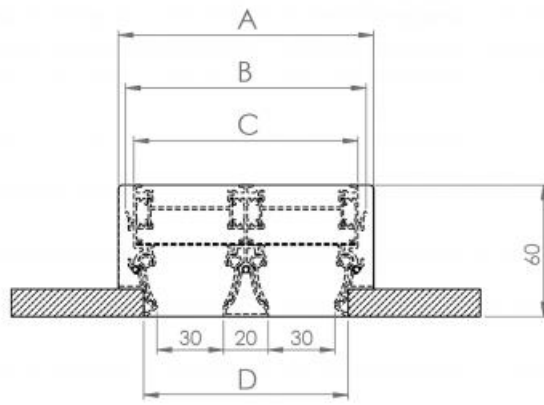
All dimensions are expressed in mm

One slot	L	A	B	C	D	number of fixing brackets
20 mm slot	800	55	48	41	34	2
	1000					2
	1200					2
	1500					2
	2000					2
30 mm slot	800	65	58	51	44	2
	1000					2
	1200					2
	1500					2
	2000					2

## EDLH - EDLHB two slot dimensions



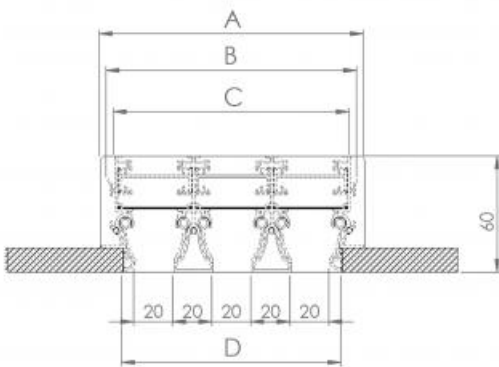
**EDLH-FA 2 slots 20 mm**  
**EDLHB-FA 2 slots 20 mm**



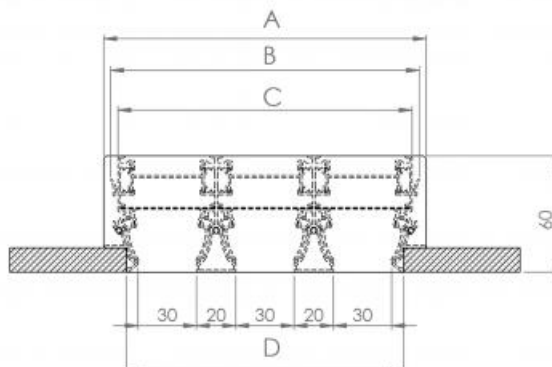
**EDLH-FB 2 slots 30 mm**  
**EDLHB-FB 2 slots 30 mm**

Two slots	L	A	B	C	D	number of fixing brackets
20 mm slots	800	95	88	81	74	2
	1000					2
	1200					2
	1500					2
	2000					2
30 mm slots	800	115	108	101	94	2
	1000					2
	1200					2
	1500					2
	2000					2

**EDLH - EDLHB three slot dimensions**



**EDLH-FA 3 slots 20 mm**  
**EDLHB-FA 3 slots 20 mm**



**EDLH-FB 3 slots 30 mm**  
**EDLHB-FB 3 slots 30 mm**

three slots	L	A	B	C	D	number of fixing brackets
20 mm slots	800	135	128	121	114	2
	1000					2
	1200					2
	1500					2
	2000					3
30 mm slots	800	165	158	151	144	2
	1000					2
	1200					2
	1500					2
	2000					3

## Operating data

Data referring to 1m 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 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 exhaust air, the flow rates (expressed in  $m^3/h$ ) indicated in the table can change.

Vk: effective speed (m/s)  $m^3/h$ : air flow rate

Pa: pressure drops in Pascal

L(m): air throw in meters

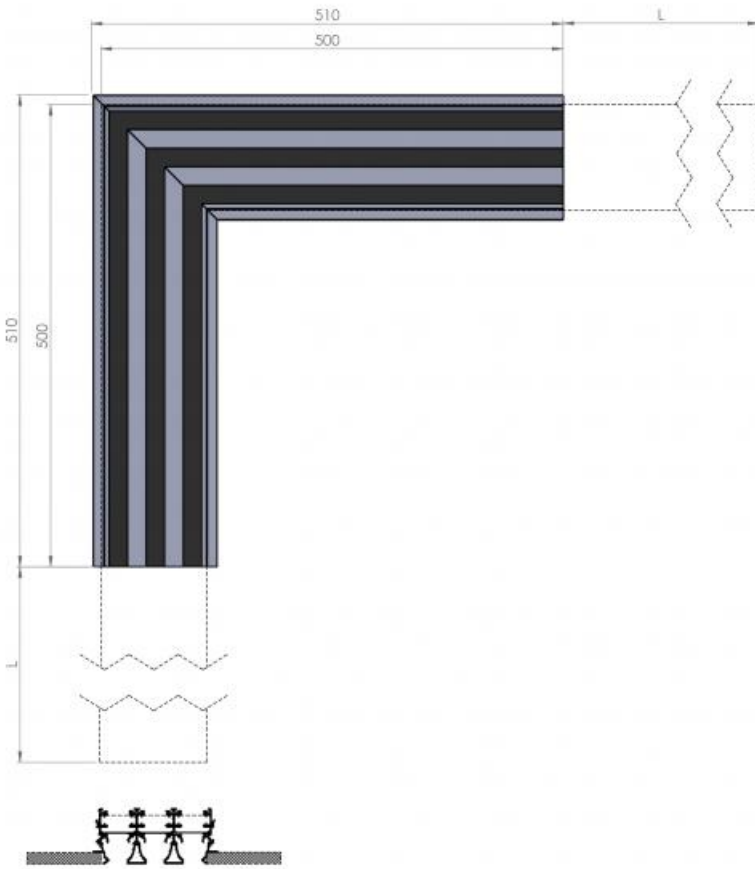
dB(A): noise level

slots	slot dimension	effective cross-section $m^2$	Air flow and throw						
			$m^3/h$	70	105	140	175	210	245
1 slot	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
		noise level	dB(A)	<20	22	32	37	44	48
2 slots	20 mm slot	0,0194	$m^3/h$	140	210	280	350	420	490
			L(m)	2,6	3,9	5,1	6,4	7,7	9,0
	f30 mm slot	0,0292	$m^3/h$	210	316	420	524	630	736
		noise level	dB(A)	<20	24	34	39	46	50
3 slots	20 mm slot	0,0291	$m^3/h$	210	315	420	525	630	735
			L(m)	3,9	5,8	7,7	9,6	11,6	13,5
	30 mm slot	0,0438	$m^3/h$	315	474	630	786	945	1104
		noise level	dB(A)	<20	26	36	41	48	52
Vk			m/s	2	3	4	5	6	7
pressure drops			Pa	7	15	26	41	59	80

## Corner connection

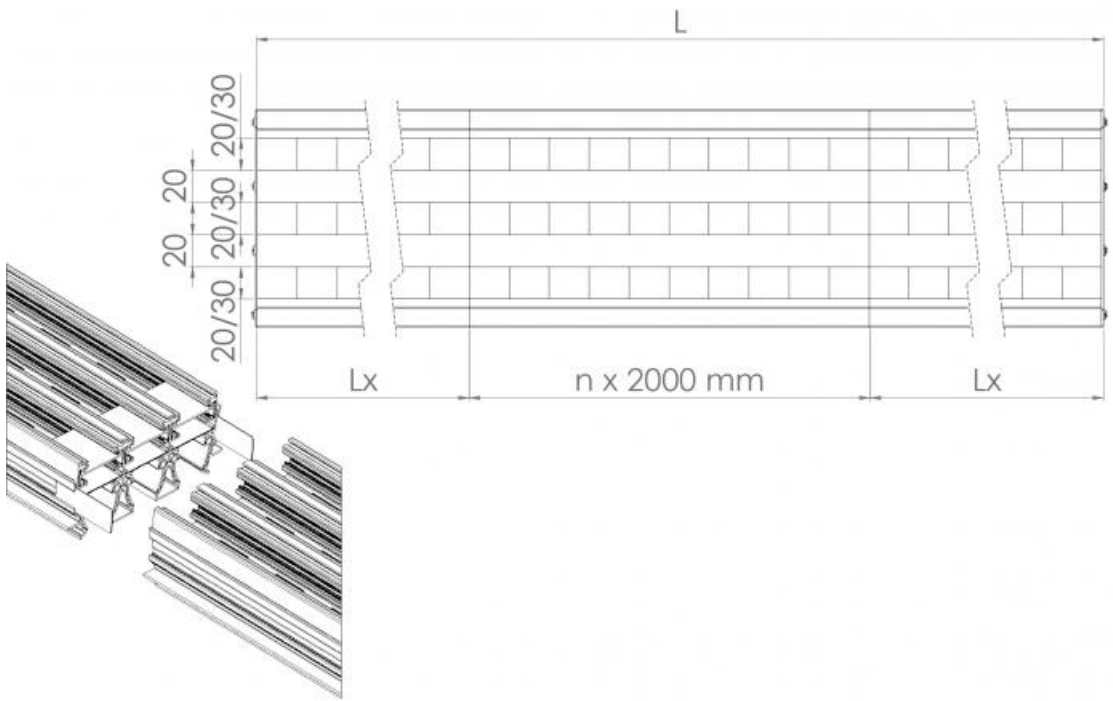
Aesthetic connecting element between the two linear diffuser lines with a  $90^\circ$  angle and 500 mm length on each side. It has no ventilation features.

All measurements are expressed in mm.

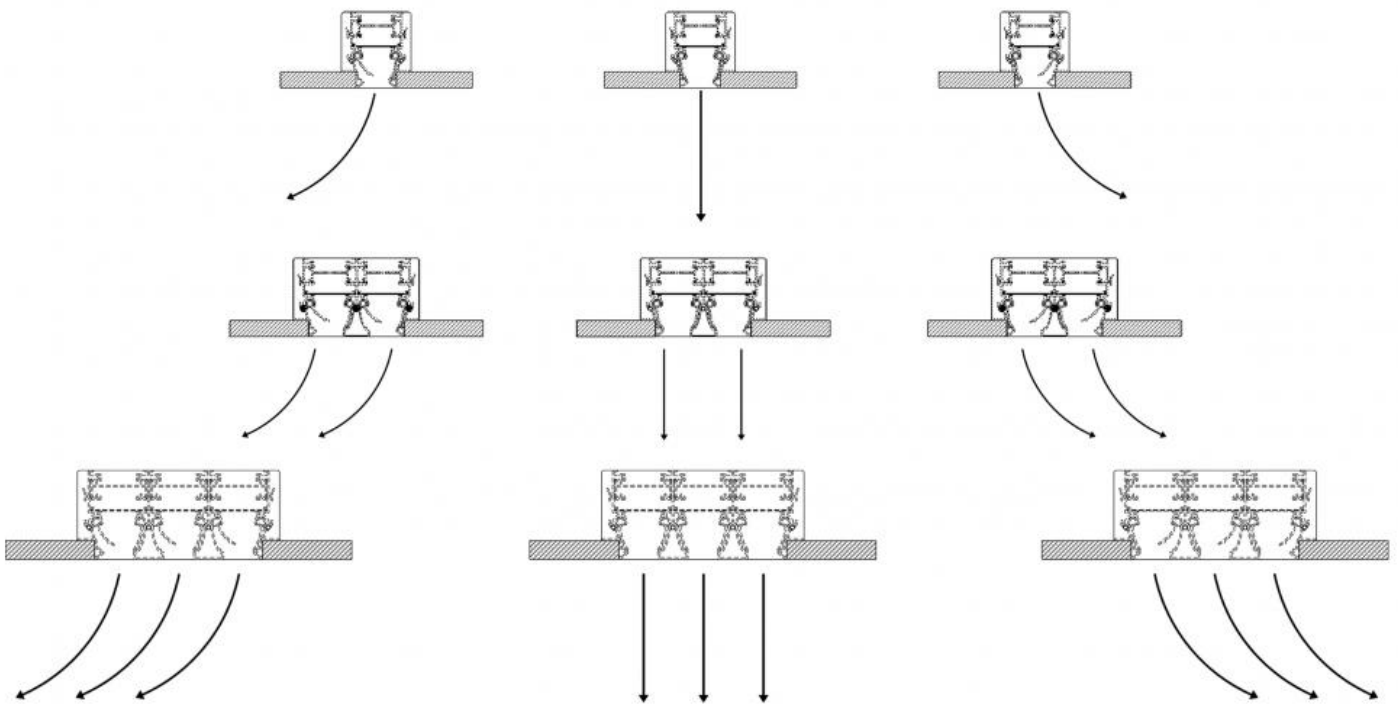


## Continuity kit

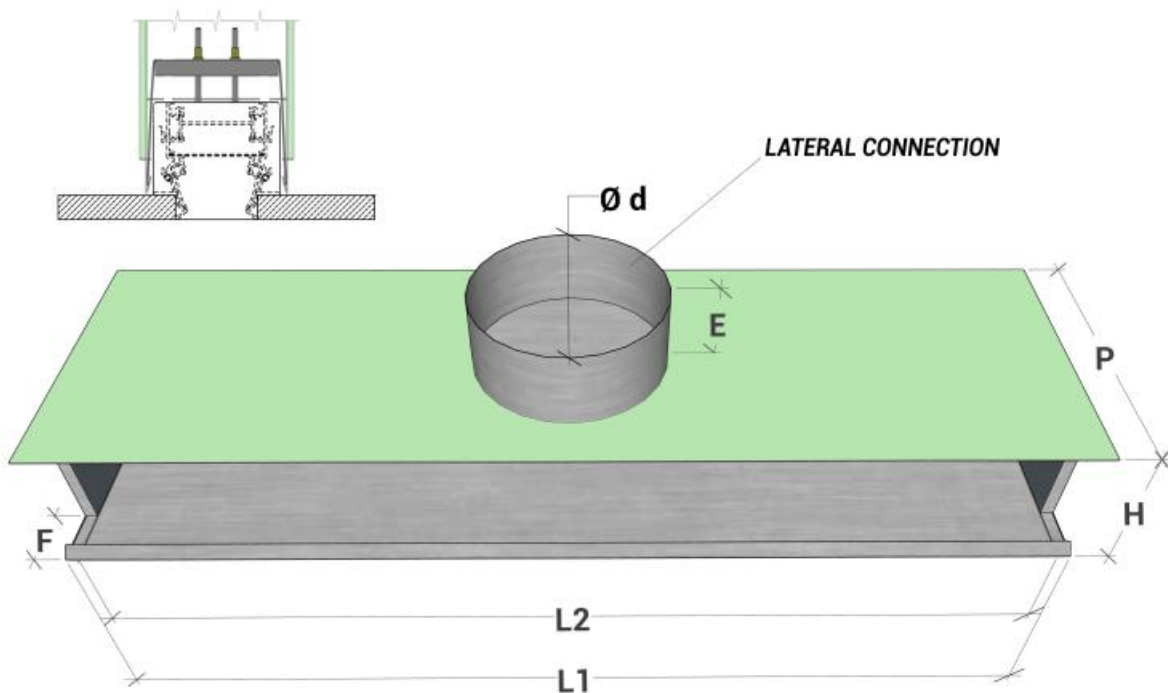
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



Air throw characteristics



Plenum dimensions and fixing bracket system



1 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					

2 SLOTS	L	Plenum dimensions							
		L1	L2	No. of connections	Ø d	P	H	E	F
20 mm slot	800	800	770	2	145	300	100	80	56
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					
20 mm slot	800	800	770	2	198	300	120	80	56
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					

3 SLOTS	L	Plenum dimensions							
		L1	L2	No. of connections	Ø d	P	H	E	F
20 mm slot	800	800	770	2	198	300	140	80	56
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					
30 mm slot	800	800	770	2	198	300	160	80	56
	1000	1000	970	2					
	1200	1200	1170	2					
	1500	1500	1470	2					
	2000	2000	1970	2					

**Price list for EDLH-FA - 1 slot - black RAL9005 - 20 mm slot**

Item normally available from stock

EDLH-FA	length	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
<b>1 SLOT</b>		euro	euro	euro	euro	euro	euro
20 mm slot	800	50,40 v	52,79 v	59,26 v	65,68 v	59,72 v	77,01 v
	1000	56,63 v	59,42 v	65,82 v	73,24 v	64,98 v	83,85 v
	1200	67,25 v	71,83 v	80,07 v	87,79 v	81,58 v	108,33 v
	1500	76,55 v	87,32 v	89,86 v	99,21 v	87,92 v	113,29 v
	2000	97,48 v	113,78 v	115,04 v	126,11 v	100,41 v	132,50 v

#### Price list for EDLH-FA - 2 slot - black RAL9005 - 20 mm slots

EDLH-FA	length	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
<b>2 SLOT</b>		euro	euro	euro	euro	euro	euro
20 mm slot	800	88,08 v	94,66 v	104,06 v	117,98 v	69,98 v	90,85 v
	1000	98,32 v	106,10 v	115,23 v	131,37 v	75,51 v	98,45 v
	1200	116,13 v	127,79 v	140,03 v	157,46 v	86,69 v	115,06 v
	1500	131,49 v	154,94 v	156,15 v	177,35 v	90,65 v	120,74 v
	2000	167,04 v	201,67 v	199,89 v	225,56 v	103,83 v	141,80 v

#### Price list for EDLH-FA - 3 slot - black RAL9005 - 20 mm slots

EDLH-FA	length	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
<b>3 SLOT</b>		euro	euro	euro	euro	euro	euro
20 mm slot	800	115,42 v	127,03 v	137,17 v	158,80 v	75,13 v	98,03 v
	1000	129,04 v	142,51 v	152,28 v	177,19 v	81,78 v	107,22 v
	1200	153,29 v	172,46 v	186,75 v	213,80 v	93,27 v	124,68 v
	1500	173,62 v	209,17 v	208,00 v	240,67 v	99,26 v	132,85 v
	2000	221,74 v	273,28 v	267,67 v	307,37 v	115,09 v	157,63 v

#### Price list for EDLH-FB - 1 slot - black RAL9005 - 30 mm slot

Item normally available from stock

EDLH-FB	length	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
<b>1 slot</b>		euro	euro	euro	euro	euro	euro
30 mm slot	800	51,40 v	57,19 v	60,45 v	67,00 v	60,29 v	77,78 v
	1000	57,75 v	63,77 v	67,13 v	74,70 v	65,64 v	84,74 v
	1200	73,98 v	81,07 v	88,07 v	96,58 v	85,04 v	109,33 v
	1500	84,21 v	91,61 v	98,84 v	109,12 v	88,77 v	114,40 v
	2000	99,42 v	109,79 v	117,33 v	128,62 v	101,49 v	133,92 v

#### Price list for EDLH-FB - 2 slot - black RAL9005 - 30 mm slots

EDLH-FB	length	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
<b>2 Slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	94,25 v	101,27 v	111,33 v	126,23 v	67,90 v	90,77 v
	1000	105,20 v	113,51 v	123,28 v	140,55 v	74,74 v	100,26 v
	1200	124,25 v	136,73 v	149,82 v	168,47 v	95,65 v	127,62 v
	1500	140,69 v	165,78 v	167,07 v	189,76 v	101,07 v	135,35 v
	2000	178,72 v	215,78 v	213,88 v	241,34 v	117,36 v	160,79 v

#### Price list for EDLH-FB - 3 slot - black RAL9005 - 30 mm slots

EDLH-FB	length	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
<b>3 slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	123,49 v	135,91 v	146,76 v	169,90 v	76,36 v	99,76 v
	1000	138,06 v	152,48 v	162,93 v	189,58 v	83,20 v	109,21 v
	1200	164,01 v	184,53 v	199,81 v	228,75 v	95,65 v	127,62 v
	1500	185,77 v	223,81 v	222,55 v	257,50 v	101,07 v	135,35 v
	2000	237,25 v	292,40 v	286,40 v	328,87 v	117,36 v	160,79 v

#### Price list for EDLHB-FA - 1 slot - white RAL9016 - 20 mm slot

Item normally available from stock

EDLHB-FA	length	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
<b>1 slot</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	50,40 v	52,79 v	59,26 v	65,68 v	59,72 v	77,01 v
	1000	56,63 v	59,42 v	65,82 v	73,24 v	64,98 v	83,85 v
	1200	67,25 v	71,83 v	80,07 v	87,79 v	81,58 v	108,33 v
	1500	76,55 v	87,32 v	89,86 v	99,21 v	87,92 v	113,29 v
	2000	97,48 v	113,78 v	115,04 v	126,11 v	100,41 v	132,50 v

#### Price list for EDLHB-FA - 2 slot - white RAL9016 - 20 mm slots

EDLHB-FA	length	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
<b>2 slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	88,08 v	94,66 v	104,06 v	117,98 v	69,98 v	90,85 v
	1000	98,32 v	106,10 v	115,23 v	131,37 v	75,51 v	98,45 v
	1200	116,13 v	127,79 v	140,03 v	157,46 v	86,69 v	115,06 v
	1500	131,49 v	154,94 v	156,15 v	177,35 v	90,65 v	120,74 v
	2000	167,04 v	201,67 v	199,89 v	225,56 v	103,83 v	141,80 v

### Price list for EDLHB-FA - 3 slot - white RAL9016 - 20 mm slots

EDLHB-FA	length	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
<b>3 slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	115,42	127,03	137,17	158,80	75,13	98,03
	1000	129,04	142,51	152,28	177,19	81,78	107,22
	1200	153,29	172,46	186,75	213,80	93,27	124,68
	1500	173,62	209,17	208,00	240,67	99,26	132,85
	2000	221,74	273,28	267,67	307,37	115,09	157,63

### Price list for EDLHB-FB - 1 slot - white RAL9016 - 30 mm slot

Item normally available from stock

EDLHB-FB	length	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	PLENUM	INSULATED PLENUM
<b>1 slot</b>		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 EDLHB-FB - 2 slot - white RAL9016 - 30 mm slots

EDLHB-FB	length	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	PLENUM	INSULATED PLENUM
<b>2 slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	94,25	101,27	111,33	126,23	67,90	90,77
	1000	105,20	113,51	123,28	140,55	74,74	100,26
	1200	124,25	136,73	149,82	168,47	95,65	127,62
	1500	140,69	165,78	167,07	189,76	101,07	135,35
	2000	178,72	215,78	213,88	241,34	117,36	160,79

### Price list for EDLHB-FB - 3 slot - white RAL9016 - 30 mm slots

EDLHB-FB	length	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	PLENUM	INSULATED PLENUM
<b>3 slots</b>		euro	euro	euro	euro	euro	euro
30 mm slots	800	123,49	135,91	146,76	169,90	76,36	99,76
	1000	138,06	152,48	162,93	189,58	83,20	109,21
	1200	164,01	184,53	199,81	228,75	95,65	127,62
	1500	185,77	223,81	222,55	257,50	101,07	135,35
	2000	237,25	292,40	286,40	328,87	117,36	160,79

### Price list

Item normally available from stock

Fixing brackets and Kit for continuous line		euro
fixing bracket for EDLH-FA EDLH-FB EDLHB-FA EDLHB-FB - <b>1 SLOT</b>		11,87
fixing bracket for EDLH-FA EDLH-FB EDLHB-FA EDLHB-FB - <b>2 SLOTS</b>		11,87
fixing bracket for EDLH-FA EDLH-FB EDLHB-FA EDLHB-FB - <b>3 SLOTS</b>		11,87
continuity kit		2,23

### Aesthetic corner price list

Angular without deflectors	EDLH-FA	EDLH-FB	EDLHB-FA	EDLHB-FB
	euro	euro	euro	euro
1 SLOT	a.r.	a.r.	a.r.	a.r.
2 SLOTS	a.r.	a.r.	a.r.	a.r.
3 SLOTS	a.r.	a.r.	a.r.	a.r.
continuity kit	2,23	2,23	2,23	2,23