

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).

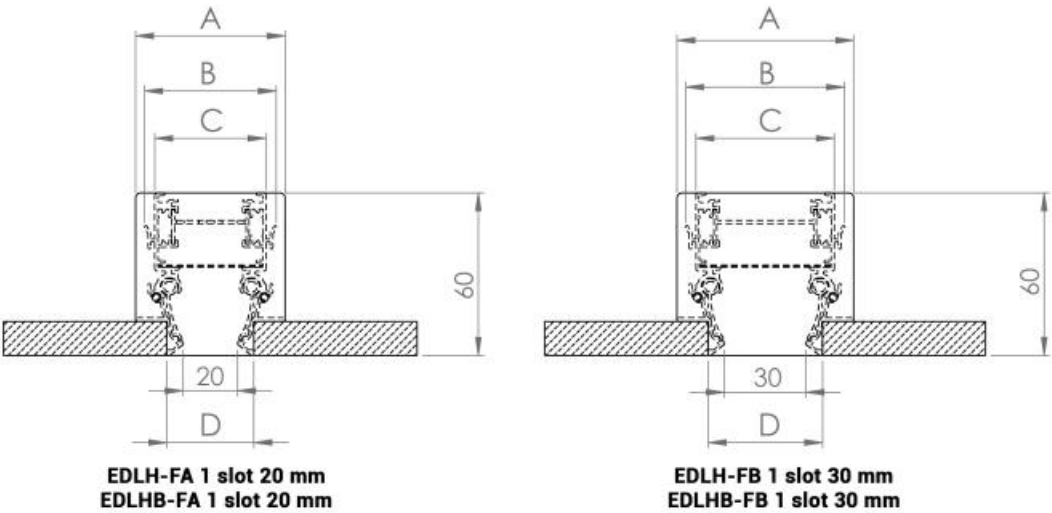
Accessories

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

On demand

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

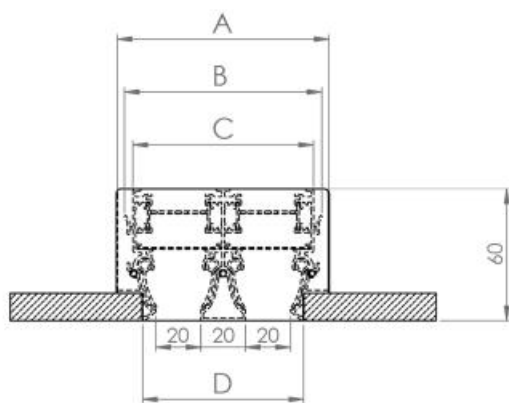
EDLH - EDLHB one slot dimensions



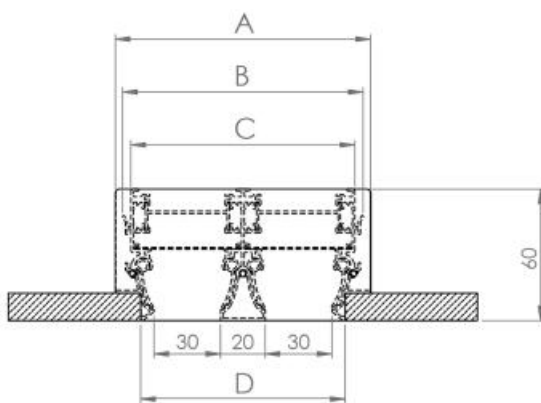
All dimensions are expressed in mm

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



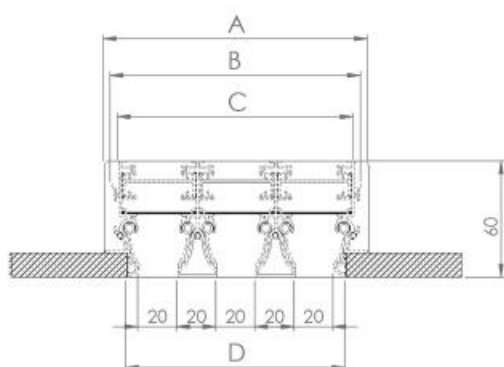
EDLH-FA 2 slots 20 mm
EDLHB-FA 2 slots 20 mm



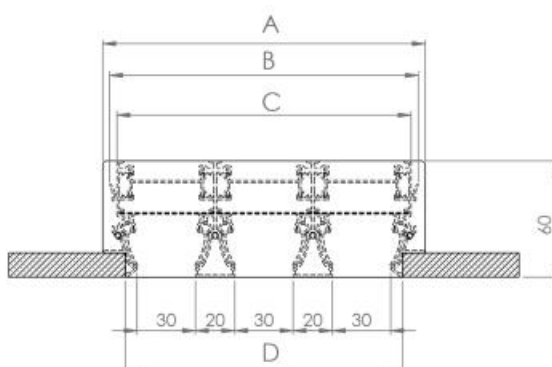
EDLH-FB 2 slots 30 mm
EDLHB-FB 2 slots 30 mm

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.

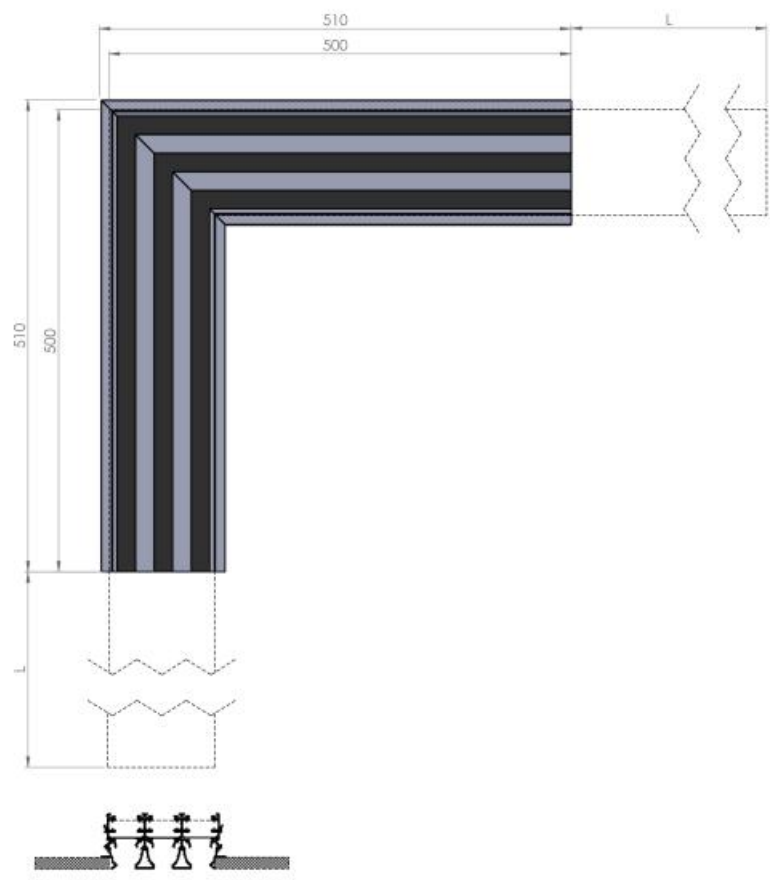
Vk: effective speed (m/s) m^3/h : air flow rate
Pa: pressure drops in Pascal
L(m): air throw in meters
dB(A): noise level

slots	slot dimension	effective cross-section m²	Air flow and throw						
1 slot	20 mm slot	0,0097	m³/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	m³/h	105	158	210	262	315	368
			L(m)	1,6	2,5	3,4	4,2	5	5,8
2 slots	20 mm slot	0,0194	dB(A)	<20	22	32	37	44	48
			m³/h	140	210	280	350	420	490
	f30 mm slot	0,0292	L(m)	2,6	3,9	5,1	6,4	7,7	9,0
			m³/h	210	316	420	524	630	736
			L(m)	2,3	3,6	4,9	6,0	7,1	8,3
			dB(A)	<20	24	34	39	46	50
3 slots	20 mm slot	0,0291	m³/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	m³/h	315	474	630	786	945	1104
			L(m)	3,4	5,4	7,3	9,0	10,7	12,4
			dB(A)	<20	26	36	41	48	52
			Vk		m/s	2	3	4	5
pressure drops		Pa	7	15	26	41	59	80	

Corner connection

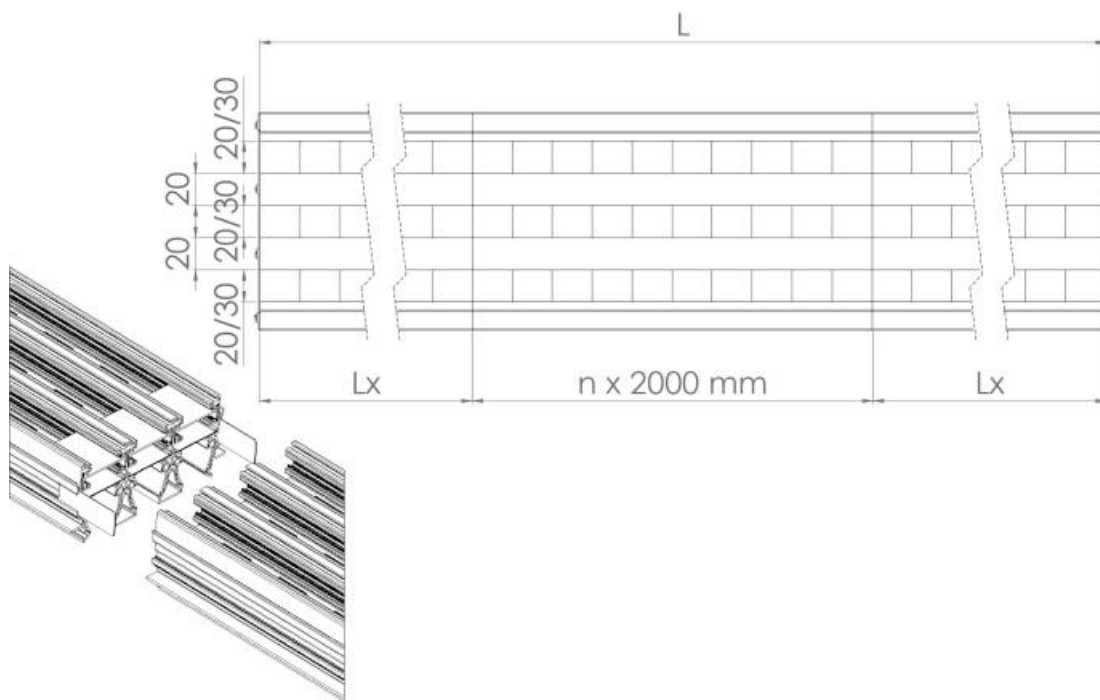
Aesthetic connecting element between the two linear diffuser lines with a 90° angle and 500 mm length on each side. It has no ventilation features.

All measurements are expressed in mm.

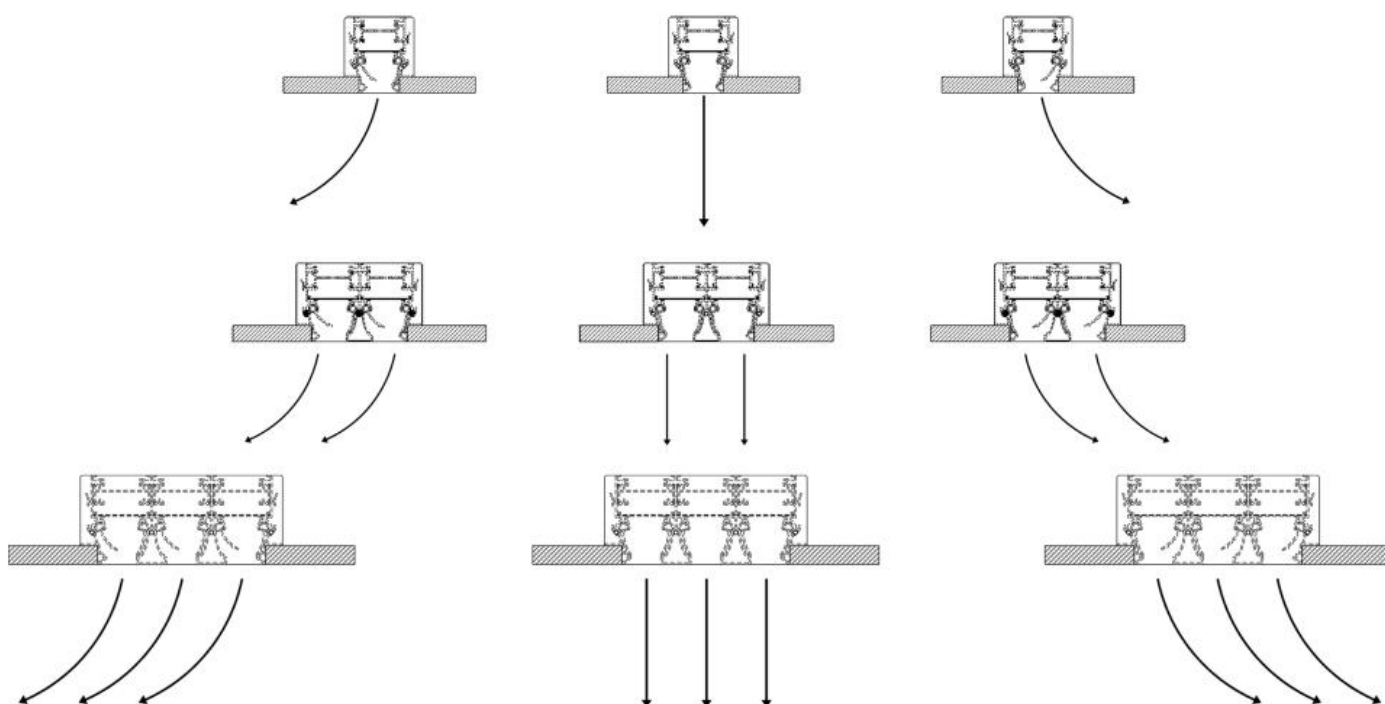


Continuity kit

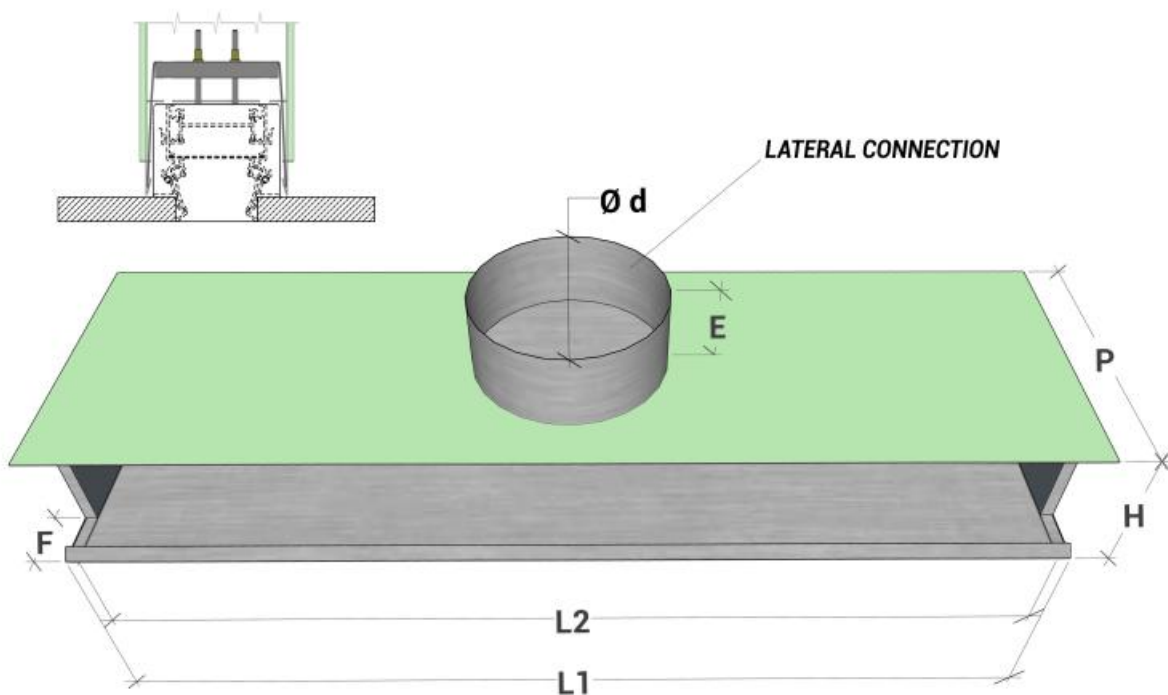
The continuity kit is an accessory required to create continuous lines of linear diffusers longer than 2 metres. It is made up of two junction plates that allow for the alignment and connection of two components of the line.



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	65	80	49
	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	75	80	49
	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	105	80	49
	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	125	80	49
	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	145	80	49
	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	165	80	49
	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

EDLH-FA	length	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
1 SLOT		euro	euro	euro	euro	euro	euro
20 mm slot	800	51,91 ∨	54,37 ∨	61,04 ∨	67,65 ∨	a.r. ∨	a.r. ∨
	1000	58,33 ∨	61,20 ∨	67,79 ∨	75,44 ∨	a.r. ∨	a.r. ∨
	1200	69,27 ∨	73,98 ∨	82,47 ∨	90,42 ∨	a.r. ∨	a.r. ∨
	1500	78,85 ∨	84,61 ∨	92,56 ∨	102,19 ∨	a.r. ∨	a.r. ∨
	2000	100,40 ∨	104,05 ∨	118,49 ∨	129,89 ∨	a.r. ∨	a.r. ∨

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

EDLH-FA	lenght	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
2 SLOT		euro	euro	euro	euro	euro	euro
20 mm slot	800	90,72 ∨	97,50 ∨	107,18 ∨	121,52 ∨	69,98 ∨	92,30 ∨
	1000	101,27 ∨	109,28 ∨	118,69 ∨	135,31 ∨	75,51 ∨	98,84 ∨
	1200	119,61 ∨	131,62 ∨	144,23 ∨	162,18 ∨	86,69 ∨	114,88 ∨
	1500	135,43 ∨	159,59 ∨	160,83 ∨	182,67 ∨	90,65 ∨	125,26 ∨
	2000	172,05 ∨	207,72 ∨	205,89 ∨	232,33 ∨	103,83 ∨	146,98 ∨

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

EDLH-FA	lenght	EDLH10-FA	EDLH20-FA	EDLH30-FA	EDLH40-FA	PLENUM	INSULATED PLENUM
3 SLOT		euro	euro	euro	euro	euro	euro
20 mm slot	800	118,88 ∨	130,84 ∨	141,28 ∨	163,56 ∨	75,13 ∨	97,86 ∨
	1000	132,91 ∨	146,79 ∨	156,85 ∨	182,51 ∨	81,78 ∨	106,98 ∨
	1200	157,89 ∨	177,63 ∨	192,35 ∨	220,21 ∨	93,27 ∨	125,06 ∨
	1500	178,83 ∨	215,44 ∨	214,24 ∨	247,89 ∨	99,26 ∨	137,82 ∨
	2000	228,39 ∨	281,49 ∨	275,70 ∨	316,59 ∨	115,09 ∨	163,62 ∨

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

EDLH-FB	lenght	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
1 slot		euro	euro	euro	euro	euro	euro
30 mm slot	800	52,94 ∨	58,91 ∨	62,26 ∨	69,01 ∨	a.r. ∨	a.r. ∨
	1000	59,48 ∨	65,68 ∨	69,14 ∨	76,94 ∨	a.r. ∨	a.r. ∨
	1200	76,20 ∨	83,50 ∨	90,71 ∨	99,48 ∨	a.r. ∨	a.r. ∨
	1500	86,74 ∨	94,36 ∨	101,81 ∨	112,39 ∨	a.r. ∨	a.r. ∨
	2000	102,40 ∨	113,08 ∨	120,85 ∨	132,48 ∨	a.r. ∨	a.r. ∨

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

EDLH-FB	lenght	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
2 Slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	97,08 ∨	104,31 ∨	114,67 ∨	130,02 ∨	67,90 ∨	93,24 ∨
	1000	108,36 ∨	116,92 ∨	126,98 ∨	144,77 ∨	74,74 ∨	102,95 ∨
	1200	127,98 ∨	140,83 ∨	154,31 ∨	173,52 ∨	95,65 ∨	127,21 ∨
	1500	144,91 ∨	170,75 ∨	172,08 ∨	195,45 ∨	101,07 ∨	139,43 ∨
	2000	184,08 ∨	222,25 ∨	220,30 ∨	248,58 ∨	117,36 ∨	164,40 ∨

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

EDLH-FB	lenght	EDLH10-FB	EDLH20-FB	EDLH30-FB	EDLH40-FB	PLENUM	INSULATED PLENUM
3 slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	127,19 ∨	139,99 ∨	151,16 ∨	175,00 ∨	76,36 ∨	100,01 ∨
	1000	142,20 ∨	157,05 ∨	167,82 ∨	195,27 ∨	83,20 ∨	108,82 ∨
	1200	168,93 ∨	190,07 ∨	205,80 ∨	235,61 ∨	95,65 ∨	127,21 ∨
	1500	191,34 ∨	230,52 ∨	229,23 ∨	265,23 ∨	101,07 ∨	139,94 ∨
	2000	244,37 ∨	301,17 ∨	294,99 ∨	338,74 ∨	117,36 ∨	166,36 ∨

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

EDLHB-FA	lenght	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
1 slot		euro	euro	euro	euro	euro	euro
30 mm slots	800	51,91 ∨	54,37 ∨	61,04 ∨	67,65 ∨	a.r. ∨	a.r. ∨
	1000	58,33 ∨	61,20 ∨	67,79 ∨	75,44 ∨	a.r. ∨	a.r. ∨
	1200	69,27 ∨	73,98 ∨	82,47 ∨	90,42 ∨	a.r. ∨	a.r. ∨
	1500	78,85 ∨	89,94 ∨	92,56 ∨	102,19 ∨	a.r. ∨	a.r. ∨
	2000	100,40 ∨	104,05 ∨	118,49 ∨	129,89 ∨	a.r. ∨	a.r. ∨

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

EDLHB-FA	lenght	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
2 slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	90,72 ∨	97,50 ∨	107,18 ∨	121,52 ∨	69,98 ∨	92,30 ∨
	1000	101,27 ∨	109,28 ∨	118,69 ∨	135,31 ∨	75,51 ∨	98,84 ∨
	1200	119,61 ∨	131,62 ∨	144,23 ∨	162,18 ∨	86,69 ∨	114,88 ∨
	1500	135,43 ∨	159,59 ∨	160,83 ∨	182,67 ∨	90,65 ∨	125,26 ∨
	2000	172,05 ∨	207,72 ∨	205,89 ∨	232,33 ∨	103,83 ∨	146,98 ∨

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

EDLHB-FA	lenght	EDLHB10-FA	EDLHB20-FA	EDLHB30-FA	EDLHB40-FA	PLENUM	INSULATED PLENUM
3 slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	118,88 ∨	130,84 ∨	141,28 ∨	163,56 ∨	75,13 ∨	97,86 ∨
	1000	132,91 ∨	146,79 ∨	156,85 ∨	182,51 ∨	81,78 ∨	106,98 ∨
	1200	157,89 ∨	177,63 ∨	192,35 ∨	220,21 ∨	93,27 ∨	125,06 ∨
	1500	178,83 ∨	215,44 ∨	214,24 ∨	247,89 ∨	99,26 ∨	137,82 ∨
	2000	228,39 ∨	281,49 ∨	275,70 ∨	316,59 ∨	115,09 ∨	163,62 ∨

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



EDLHB-FB	length	EDLHB10-FB	EDLHB20-FB	EDLHB30-FB	EDLHB40-FB	PLENUM	INSULATED PLENUM
1 slot		euro	euro	euro	euro	euro	euro
30 mm slot	800	52,94 ▼	58,91 ▼	62,26 ▼	69,01 ▼	a.r. ▼	a.r. ▼
	1000	59,48 ▼	65,68 ▼	69,14 ▼	76,94 ▼	a.r. ▼	a.r. ▼
	1200	76,20 ▼	83,50 ▼	90,71 ▼	99,48 ▼	a.r. ▼	a.r. ▼
	1500	86,74 ▼	94,36 ▼	101,81 ▼	112,39 ▼	a.r. ▼	a.r. ▼
	2000	102,40 ▼	113,08 ▼	120,85 ▼	132,48 ▼	a.r. ▼	a.r. ▼

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
2 slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	97,08 ▼	104,31 ▼	114,67 ▼	130,02 ▼	67,90 ▼	93,24 ▼
	1000	108,36 ▼	116,92 ▼	126,98 ▼	144,77 ▼	74,74 ▼	102,95 ▼
	1200	127,98 ▼	140,83 ▼	154,31 ▼	173,52 ▼	95,65 ▼	127,21 ▼
	1500	144,91 ▼	170,75 ▼	172,08 ▼	195,45 ▼	101,07 ▼	139,43 ▼
	2000	184,08 ▼	222,25 ▼	220,30 ▼	248,58 ▼	117,36 ▼	164,40 ▼

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
3 slots		euro	euro	euro	euro	euro	euro
30 mm slots	800	127,19 ▼	139,99 ▼	151,16 ▼	175,00 ▼	76,36 ▼	100,01 ▼
	1000	142,20 ▼	157,05 ▼	167,82 ▼	195,27 ▼	83,20 ▼	108,82 ▼
	1200	168,93 ▼	190,07 ▼	205,80 ▼	235,61 ▼	95,65 ▼	127,21 ▼
	1500	191,34 ▼	230,52 ▼	229,23 ▼	265,23 ▼	101,07 ▼	139,94 ▼
	2000	244,37 ▼	301,17 ▼	294,99 ▼	338,74 ▼	117,36 ▼	166,36 ▼

Price list

Fixing brackets and Kit for continuous line		euro
fixing bracket for EDLH-FA EDLH-FB EDLHB-FA EDLHB-FB - 1 SLOT		12,23 ▼
fixing bracket for EDLH-FA EDLHB-FA- 2 SLOTS		12,23 ▼
fixing bracket for EDLH-FB EDLHB-FB- 2 SLOTS		12,23 ▼
fixing bracket for EDLH-FA EDLHB-FA- 3 SLOTS		12,23 ▼
fixing bracket for EDLH-FB EDLHB-FB- 3 SLOTS		12,23 ▼
continuity kit		2,30 ▼

Aesthetic corner price list

Angular without deflectors	EDLH-FA	EDLH-FB	EDLHB-FA	EDLHB-FB
	euro	euro	euro	euro
1 SLOT	116,67 ▼	118,97 ▼	116,67 ▼	118,97 ▼
2 SLOTS	202,55 ▼	216,71 ▼	202,55 ▼	216,71 ▼
3 SLOTS	265,83 ▼	284,40 ▼	265,83 ▼	284,40 ▼
continuity kit	2,30 ▼	2,30 ▼	2,30 ▼	2,30 ▼