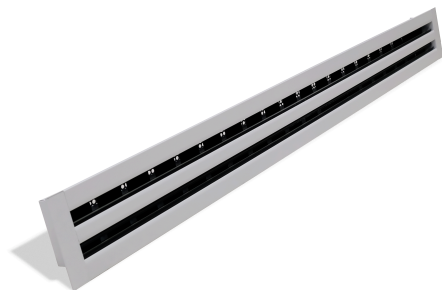


EDFL EDFLB Linear slot diffusers with deflectors



Description

Linear slot diffuser with aerodynamic aluminium profile and adjustable deflectors for optimal air throw control. Also available with equalizer and sliding regulation damper.

Characteristics

Material: aluminium.

EDFL finish: natural anodised aluminium frame and black painted aluminium deflectors.

EDFLB finish: white RAL 9016 painted aluminium frame and deflector.

Slots: from 1 to 4 in standard version, 5 or 6 on request.

Installation: directly on duct or on plenum box with mounting bridge.

Possible dimensions in one single piece:

- minimum length 300 mm;
- maximum length 2000 mm.

Continues lines possible with continues line kit.

Use

Diffuser suitable for both air supply and exhaust in large rooms. Its modularity allows for great freedom of design.

Models

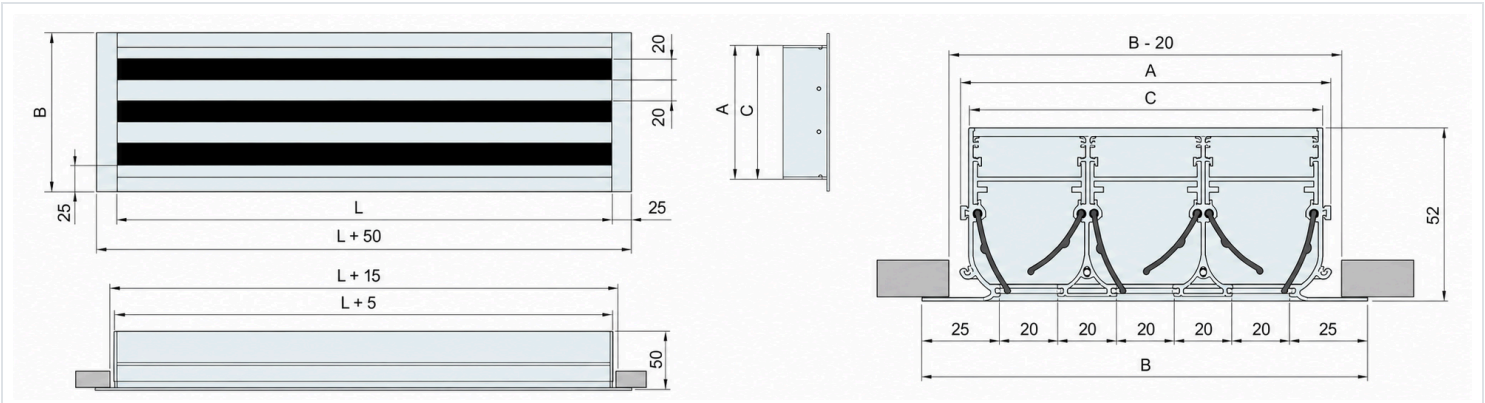
- EDFL-10 return diffusers (without deflectors).
- EDFL-20 supply diffusers with black deflectors.
- EDFLB-20 white RAL9016 supply diffusers with white deflectors.
- EDFL-30 return diffusers with damper.
- EDFL-40 supply diffusers with black deflectors and sliding damper.
- EDFLB-40 white RAL9016 supply diffusers with white deflectors and sliding damper.
- EDFL-50 supply diffusers with black deflectors, equaliser and sliding damper. EDFLB-50 white RAL9016 supply diffusers with white deflectors, equaliser and sliding damper.

Accessories

- EPZ-EDFL - Galvanised plenum box;
- EPI-EDFL - Insulated plenum box;
- EDFL-90° - Corner connection;
- Mounting bridges;
- Continues line kit.

Linear Diffuser dimensions

All dimensions are expressed in mm.



Nr. Slots	L	A	B	C	Nr. of Mounting Bridges
1 Slot	600	46	70	41	2
	800				2
	1000				2
	1200				2
	1500				2
	2000				2
2 Slot	600	86	110	81	2
	800				2
	1000				2
	1200				2
	1500				2
	2000				2
3 Slot	600	126	150	121	2
	800				2
	1000				2
	1200				2
	1500				2
	2000				3
4 Slot	600	166	190	161	2
	800				2
	1000				2
	1200				2
	1500				2
	2000				3

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°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 m³/h indicated in the table may be higher.

- V_k : effective speed (m/s).
- m³/h: flow rate.
- Pa: pressure drops in Pascal.
- L(m): air throw in metres calculated on ceiling installation, terminal velocity 0.25 m/s.
- dB(A): noise level.

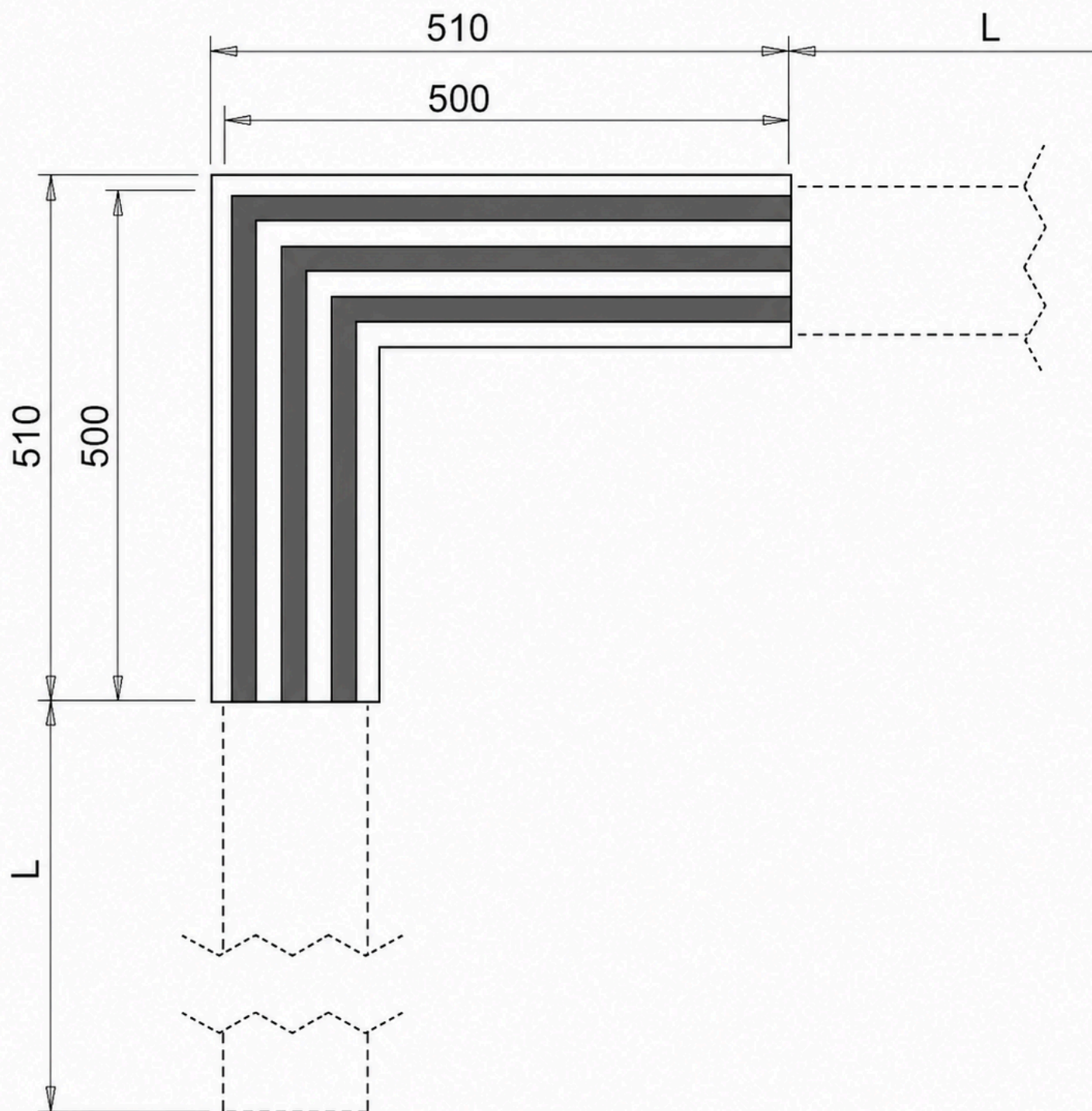
Nr. Slots	Effective Cross-Section (m2)	Air-volume and Air-throw						
1 Slot	0,0097	m³/h	70	105	140	175	210	245
		L(m)	1.8	2.7	3.6	4.5	5.4	6.3
2 Slot	0,0194	m³/h	140	210	280	350	420	490
		L(m)	2.5	3.8	5	6.3	7.5	8.8
3 Slot	0,0291	m³/h	210	315	420	525	630	735
		L(m)	3	4.7	6	7.8	9.3	11
4 Slot	0,0388	m³/h	280	420	560	700	840	980
		L(m)	3.5	5.4	7	9	11	12.6
Vk		m/s	2	3	4	5	6	7
Pressure Drop		Pa	8	15	26	40	55	70
Noise Level		dB(A)	<20	22	32	37	44	48

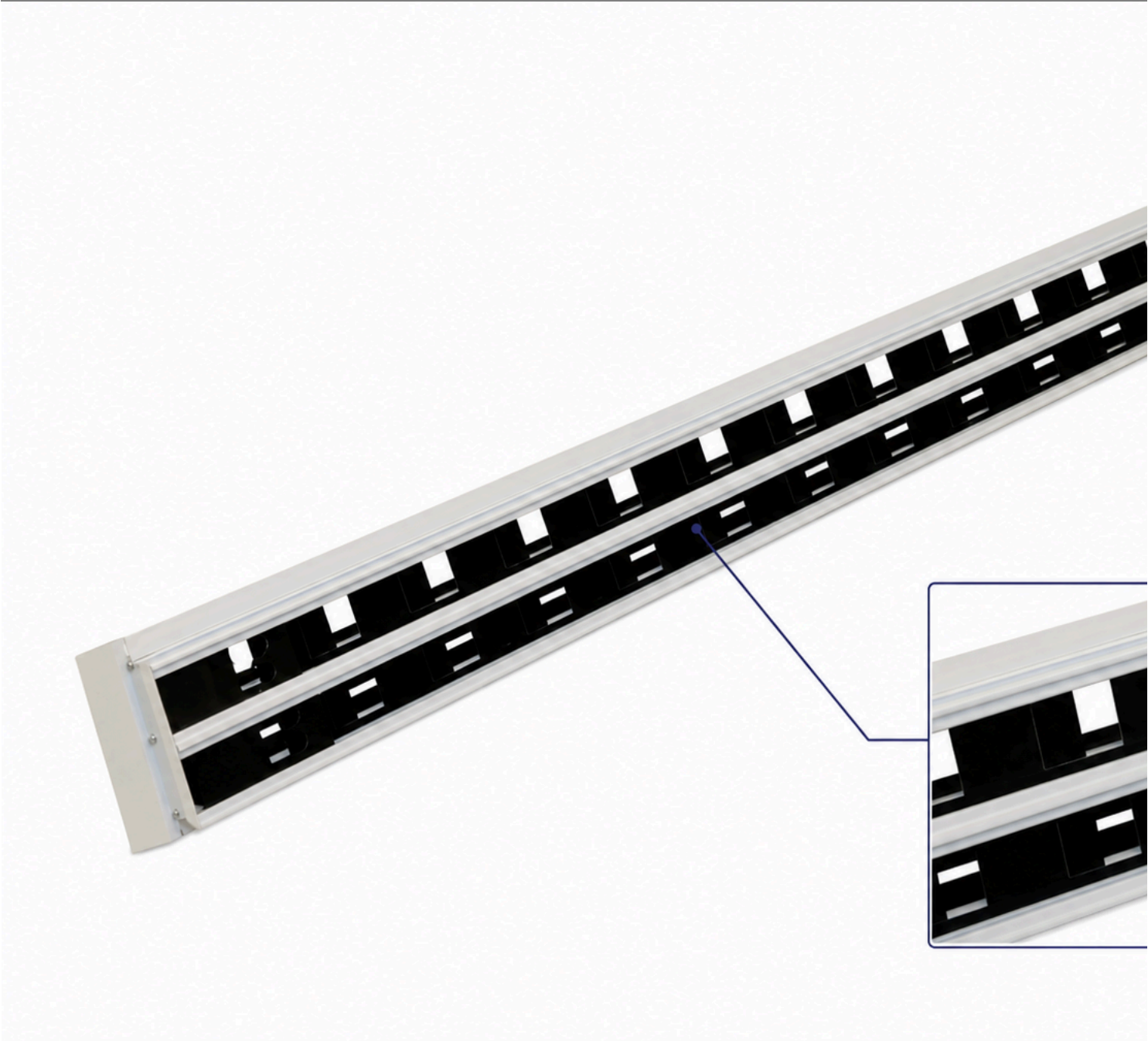
Accessories

All measurements are expressed in mm.

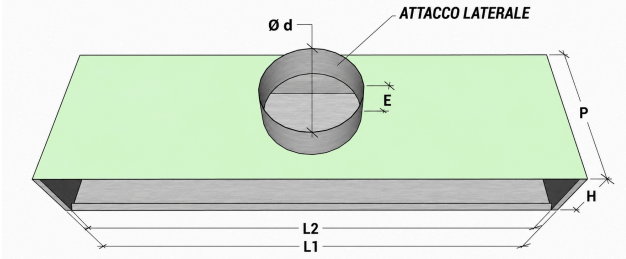
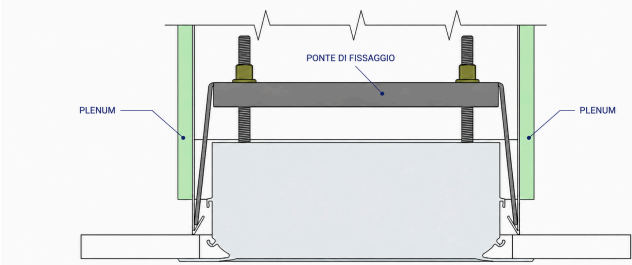
Angolo di Collegamento

Aesthetic corner element designed to provide a seamless connection between two linear diffuser runs at a 90° angle, with a 500 mm length on each side. It has no air distribution or ventilation function.





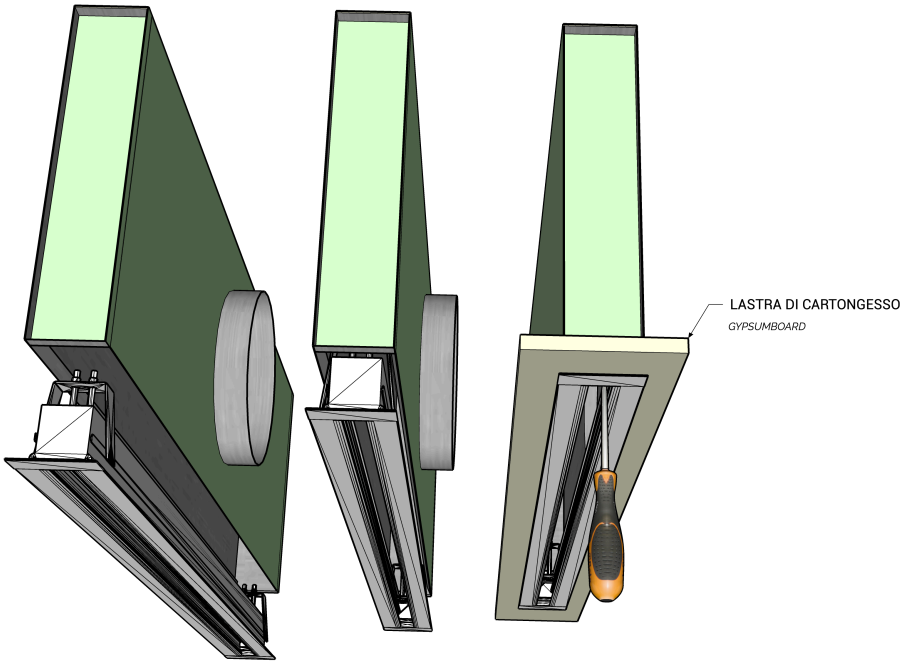
Plenum Dimensions and Mounting Bridge system

Technical Drawing	Installation System with Plenum and Mounting Bridge
EPI-EDFL - Plenum for Linear Slot Diffuser with Side Inlet	Installation diagram of the linear slot diffuser complete with plenum and mounting bridge. The mounting bridge ensures proper support and accurate positioning of the diffuser within the suspended ceiling.
	

All dimensions are expressed in mm

Nr. Slots	L	Plenum Box Dimensions						
		L1	L2	Nr. Lat. Connections	Ø d	P	H	E
1 Slot	600	645	615	1	98	300	58	80
	800	845	815	1				
	1000	1045	1015	1				
	1200	1245	1215	2				
	1500	1545	1515	2				
	2000	2045	2015	2				
2 Slot	600	645	615	1	148	300	98	80
	800	845	815	1				
	1000	1045	1015	1				
	1200	1245	1215	2				
	1500	1545	1515	2				
	2000	2045	2015	2				
3 Slot	600	645	615	1	198	300	138	80
	800	845	815	1				
	1000	1045	1015	1				
	1200	1245	1215	2				
	1500	1545	1515	2				
	2000	2045	2015	2				
4 Slot	600	645	615	1	198	300	178	80
	800	845	815	1				
	1000	1045	1015	1				
	1200	1245	1215	2				
	1500	1545	1515	2				
	2000	2045	2015	2				

Installation



Price List

Natural anodised aluminium frame and black painted aluminium deflectors.

	Lenght (m)	EDFL-10	EDFL-20	EDFL-30	EDFL-40	EDFL-50	EPZ-EDFL - Plenum box	EPI-EDFL - Insulated Plenum Box
		Eur	Eur	Eur	Eur	Eur	Eur	Eur
1 Slot	600	35,52	39,63	42,12	49,08	52,06	51,27	66,66
	800	40,60	45,30	48,14	53,81	59,51	57,55	73,62
	1000	45,31	50,98	54,74	58,53	67,97	63,78	82,01
	1200	50,02	56,66	61,34	67,97	77,43	70,06	92,20
	1500	57,57	65,14	69,87	77,41	86,86	80,77	104,27
	2000	68,92	79,31	84,94	94,42	107,62	103,31	135,17
2 Slot	600	47,08	58,44	61,12	69,40	79,31	54,24	70,54
	800	53,81	66,79	69,87	79,31	90,64	60,87	77,97
	1000	60,39	72,70	79,31	90,64	102,89	69,46	88,85
	1200	67,00	78,61	88,77	101,97	115,15	76,10	99,67
	1500	78,35	93,46	101,96	116,12	135,94	88,00	112,99
	2000	96,30	116,12	124,61	145,38	167,08	112,10	145,91
3 Slot	600	58,65	71,05	79,31	91,72	106,56	57,19	74,41
	800	67,04	81,19	90,64	104,82	121,77	64,19	82,25
	1000	75,56	91,58	102,89	118,91	139,70	73,78	94,32
	1200	84,07	101,99	115,15	133,03	157,64	80,77	105,79
	1500	98,16	121,77	134,07	157,66	184,11	93,88	120,42
	2000	122,73	152,00	165,21	195,44	229,38	119,58	155,23
4 Slot	600	70,22	91,43	102,50	113,16	133,00	62,11	80,37
	800	80,25	104,50	114,51	129,32	152,00	69,46	88,64
	1000	91,58	112,33	126,51	148,19	176,46	76,81	98,48
	1200	102,94	129,28	140,48	167,07	200,95	84,21	110,54
	1500	119,90	149,16	166,16	196,35	231,32	97,83	125,85
	2000	148,19	187,82	204,86	244,50	287,91	124,46	161,90

Ral 9010 painted with black deflectors + 20%

Price List

Ral 9016 version with Ral 9016 deflectors.

	Lenght (m)	EDFLB-20	EDFLB-40	EDFLB-50	EPZ-EDFL - Plenum box	EPI-EDFL - Insulated Plenum Box
		Eur	Eur	Eur	Eur	Eur
1 Slot	600	50,23	62,19	65,94	51,27	66,66
	800	57,39	68,14	75,31	57,55	73,62
	1000	64,58	74,12	86,04	63,78	82,01
	1200	71,81	86,12	97,96	70,06	92,20
	1500	82,50	98,03	109,96	80,77	104,27
	2000	100,42	119,60	136,19	103,31	135,17
2 Slot	600	74,05	87,91	100,39	54,24	70,54
	800	84,62	100,42	114,68	60,87	77,97
	1000	92,06	114,75	130,21	69,46	88,85
	1200	99,61	129,13	145,80	76,10	99,67
	1500	118,38	147,04	172,04	88,00	112,99
	2000	147,06	184,11	211,48	112,10	145,91
3 Slot	600	89,98	116,19	134,82	57,19	74,41
	800	102,79	132,72	154,08	64,19	82,25
	1000	116,00	150,61	176,85	73,78	94,32
	1200	129,25	168,58	199,46	80,77	105,79
	1500	154,21	199,65	232,99	93,88	120,42
	2000	192,47	247,51	290,37	119,58	155,23
4 Slot	600	115,86	143,37	168,44	62,11	80,37
	800	132,40	163,78	192,40	69,46	88,64
	1000	142,26	187,67	223,36	76,81	98,48
	1200	163,82	211,67	254,44	84,21	110,54
	1500	188,90	248,66	292,80	97,83	125,85
	2000	237,92	309,66	364,45	124,46	161,90

Price list

Mounting Bridge	Eur
1 Slot	12,72
2 Slot	12,72
3 Slot	12,72
4 Slot	12,72

Accessory Price List

Corner without deflectors	EDFL	EDFLB
	Eur	Eur
1 Slot	90,65	108,79
2 Slot	120,84	144,98
3 Slot	151,02	181,20
4 Slot	183,20	219,80
Continues Line Kit.	2,39	2,39