



EBLS

Hidden linear bar grilles with fixed core

Technical data sheet

Rev.00



EBLS 20/0° – EBLs 21/0°

Dimensions LxH	Effective section	Vk 1,5 m/s*		Vk 3 m/s		Vk 4 m/s		Vk 5 m/s	
	m ²	m ³ /h	m ³ /h	L1	m ³ /h	L1	m ³ /h	L1	
400x75	0,015	80	160	2,8	213	3,8	266	4,7	
500x75	0,019	100	201	3	268	3,9	335	4,9	
600x75	0,022	121	243	3,1	323	4,1	404	5,1	
800x75	0,030	163	326	3,3	434	4,3	543	5,4	
1000x75	0,038	204	408	3,4	545	4,5	681	5,7	
400x100	0,020	108	216	2,9	292	3,8	365	4,8	
500x100	0,026	138	276	3	367	4	459	5	
600x100	0,031	166	332	3,1	443	4,2	554	5,2	
800x100	0,041	223	446	3,3	595	4,4	743	5,5	
1000x100	0,052	280	560	3,5	746	4,6	933	5,8	
400x125	0,026	139	278	2,9	370	3,9	463	4,9	
500x125	0,032	175	350	3,1	467	4,1	583	5,1	
600x125	0,039	211	422	3,2	563	4,2	703	5,3	
800x125	0,052	283	566	3,4	755	4,5	944	5,6	
1000x125	0,066	355	711	3,5	947	4,7	1184	5,9	
400x150	0,031	168	337	3	449	4	561	5	
500x150	0,039	212	424	3,1	566	4,2	707	5,2	
600x150	0,047	256	512	3,3	682	4,3	853	5,4	
800x150	0,064	343	687	3,4	916	4,6	1145	5,7	
1000x150	0,080	431	862	3,6	1149	4,8	1436	6	
400x200	0,042	227	455	3,1	607	4,2	758	5,2	
500x200	0,053	286	573	3,3	764	4,4	955	5,4	
600x200	0,064	345	691	3,4	922	4,5	1152	5,6	
800x200	0,086	463	927	3,6	1237	4,8	1546	6	
1000x200	0,108	582	1164	3,8	1552	5	1940	6,3	
Pa		18	5		10		15		
dB(A)		32/38	25 / 32		33 / 39		38 / 44		

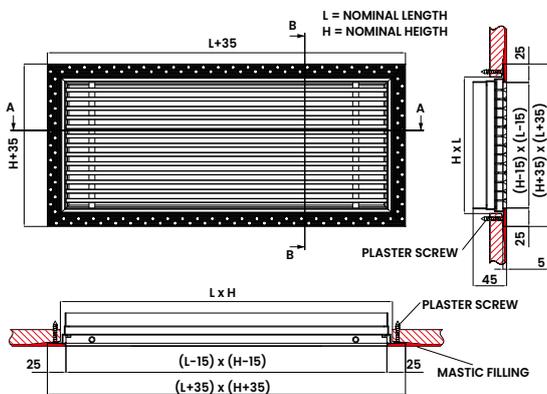
* Data refers to a clean filter when the exhaust grille is used with an EFBLS filter

Vk (m/s) effective speed
 m³/h air flow rate
 Pa pressure drop

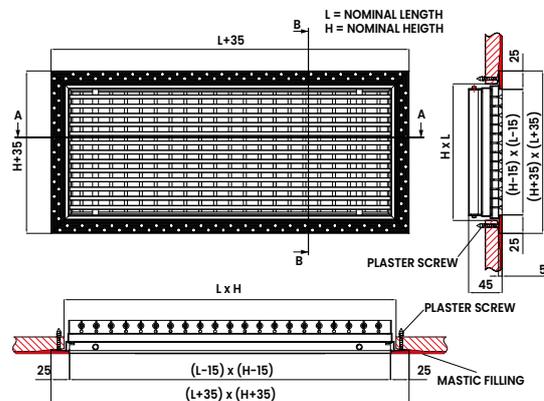
L1(m) data referring to a terminal throw velocity, Vt = 0.25 m/s in ceiling installation (not higher than 3 m);

for longer distances, it needs to correct the throw multiplying it by 0,7
 dB(A) noise level

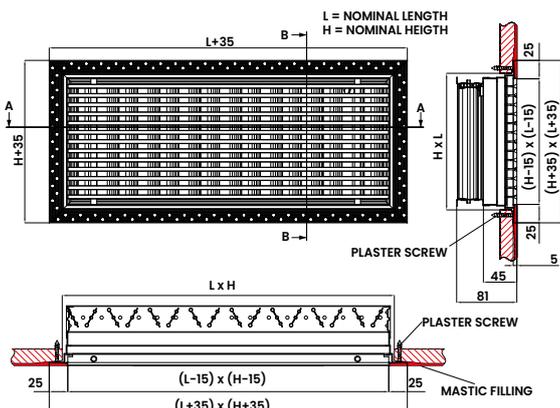
EBLS 20/0°



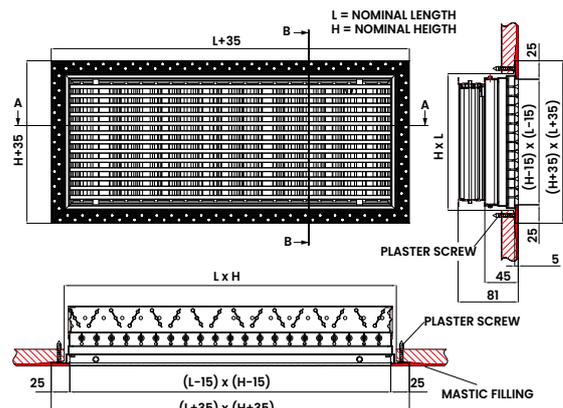
EBLS 21/0°



EBLS 20/0° + SC



EBLS 21/0° + SC



EBLS 20/15° - EBLs 21/15°

Dimensions LxH	Effective section	Vk 1,5 m/s*		Vk 3 m/s		Vk 4 m/s		Vk 5 m/s	
	m ²	m ³ /h	m ² /h	L1	m ³ /h	L1	m ³ /h	L1	
400x75	0,015	80	160	2,8	213	3,8	266	4,7	
500x75	0,019	100	201	3	268	3,9	335	4,9	
600x75	0,022	121	243	3,1	323	4,1	404	5,1	
800x75	0,030	163	326	3,3	434	4,3	543	5,4	
1000x75	0,038	204	408	3,4	545	4,5	681	5,7	
400x100	0,020	108	216	2,9	292	3,8	365	4,8	
500x100	0,026	138	276	3	367	4	459	5	
600x100	0,031	166	332	3,1	443	4,2	554	5,2	
800x100	0,041	223	446	3,3	595	4,4	743	5,5	
1000x100	0,052	280	560	3,5	746	4,6	933	5,8	
400x125	0,026	139	278	2,9	370	3,9	463	4,9	
500x125	0,032	175	350	3,1	467	4,1	583	5,1	
600x125	0,039	211	422	3,2	563	4,2	703	5,3	
800x125	0,052	283	566	3,4	755	4,5	944	5,6	
1000x125	0,066	355	711	3,5	947	4,7	1184	5,9	
400x150	0,031	168	337	3	449	4	561	5	
500x150	0,039	212	424	3,1	566	4,2	707	5,2	
600x150	0,047	256	512	3,3	682	4,3	853	5,4	
800x150	0,064	343	687	3,4	916	4,6	1145	5,7	
1000x150	0,080	431	862	3,6	1149	4,8	1436	6	
400x200	0,042	227	455	3,1	607	4,2	758	5,2	
500x200	0,053	286	573	3,3	764	4,4	955	5,4	
600x200	0,064	345	691	3,4	922	4,5	1152	5,6	
800x200	0,086	463	927	3,6	1237	4,8	1546	6	
1000x200	0,108	582	1164	3,8	1552	5	1940	6,3	
Pa		18	5		10		15		
dB(A)		32/38	25 / 32		33 / 39		38 / 44		

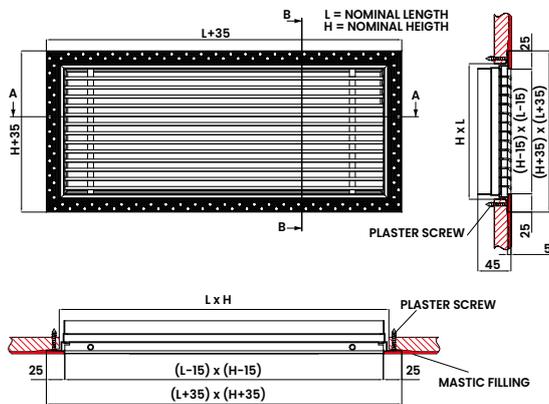
* Data refers to a clean filter when the exhaust grille is used with an EFBLS filter

Vk (m/s) effective speed
 m³/h air flow rate
 Pa pressure drop

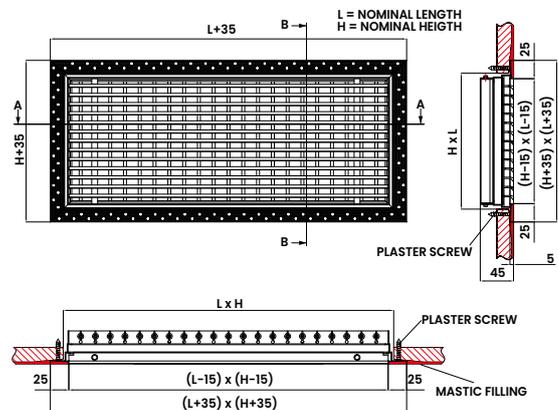
L1(m) data referring to a terminal throw velocity, Vt = 0.25 m/s in ceiling installation (not higher than 3 m);

for longer distances, it needs to correct the throw multiplying it by 0,7
 dB(A) noise level

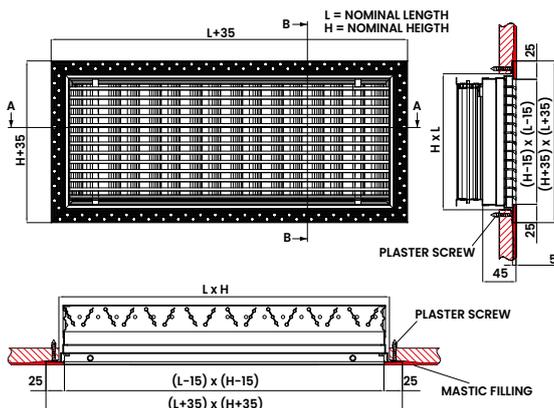
EBLS 20/15°



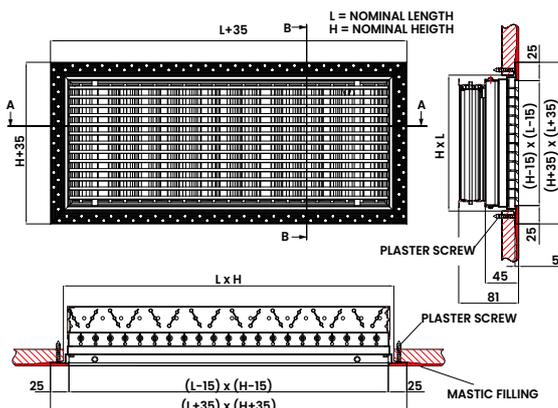
EBLS 21/15°



EBLS 20/15° + SC

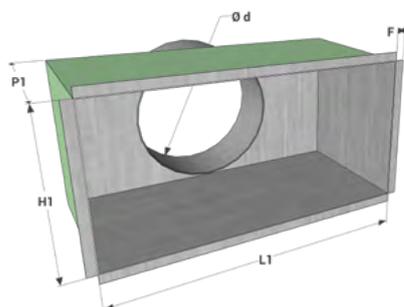


EBLS 21/15° + SC

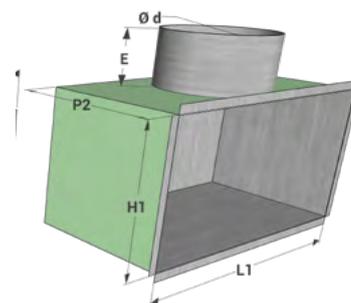


PLENUM BOX DIMENSIONS AND MOUNTING BRIDGE SYSTEM

Galvanized steel plenum, available both without insulation and with external expanded polyethylene insulation to ensure enhanced thermal performance.



TOP CONNECTION



LATERAL CONNECTION

EBLS	Model L1 x H1	Upper air connection			Side air connection			E	F
		P1	N° Stacchi	Ø d	P2	N° Stacchi	Ø d		
	400x75	-	-	-	150	2	98	80	12
	500x75	-	-	-	150	2	98	80	12
	600x75	-	-	-	150	2	98	80	12
	800x75	-	-	-	150	2	98	80	12
	1000x75	-	-	-	150	2	98	80	12
	400x100	200	2	98	200	2	98	80	12
	500x100	200	2	98	200	2	98	80	12
	600x100	200	2	98	200	2	98	80	12
	800x100	200	2	98	200	2	98	80	12
	1000x100	200	3	98	200	3	98	80	12
	400x125	200	1	123	230	1	123	80	12
	500x125	200	2	123	230	2	123	80	12
	600x125	200	2	123	230	2	123	80	12
	800x125	200	2	123	230	2	123	80	12
	1000x125	200	3	123	230	3	123	80	12
	400x150	200	1	148	250	1	148	80	12
	500x150	200	2	148	250	2	148	80	12
	600x150	200	2	148	250	2	148	80	12
	800x150	200	2	148	250	2	148	80	12
	1000x150	200	3	148	250	3	148	80	12
	400x200	200	1	198	300	1	198	80	12
	500x200	200	1	198	300	1	198	80	12
	600x200	200	2	198	300	2	198	80	12
	800x200	200	2	198	300	2	198	80	12
	1000x200	200	2	198	300	2	198	80	12



EFEBLS AIR INTAKE FILTER

6 mm thick rigid polyurethane air intake filter without frame. (the material is None Flame Retardant.).

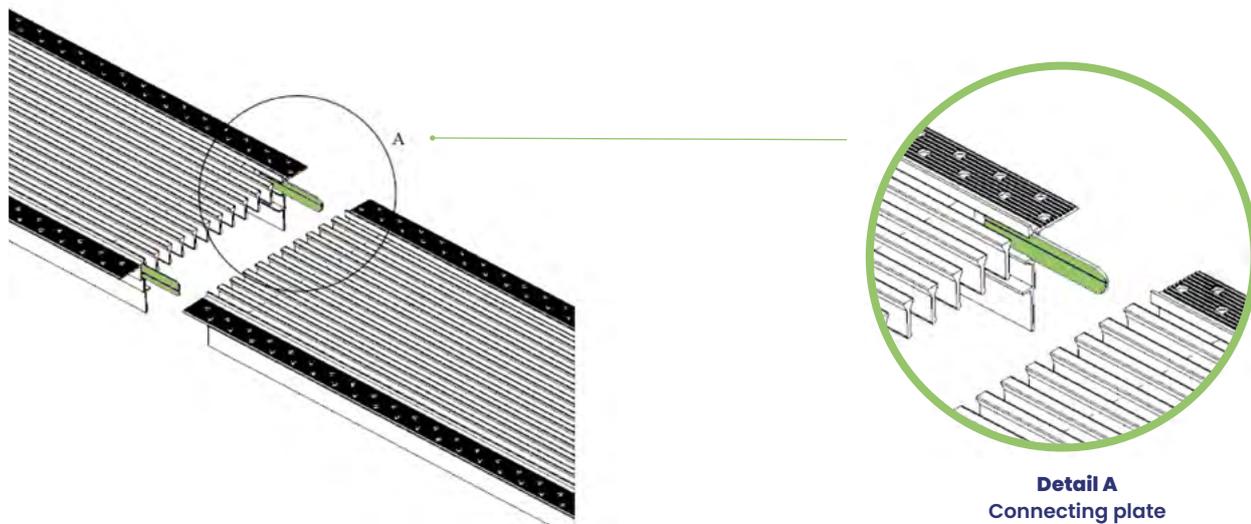


Physical properties	Measure	Standard	Result
Porosity	ppi - pores per inch	-	15-25
Density	kg/m ³	ISO 845	55
Compression resistance	kPa at 25% compression (20°C)	ASTM D1564 70	-
Ultimate elongation	%	ISO 1798	35
Tensile strength	kPa	ISO 1798	200
Tear strength	Nm/cm	ASTM D1564 15	
Flame behaviour	-	-	NFR

INSTALLATION CONTINUITY KIT

The continuity kit is a necessary accessory to create continuous lines of linear nozzles longer than two meters. It consists of two junction plates that allow the alignment and connection of two

components of the line. The continuity kit means that the nozzle pack is not removable but fixed.

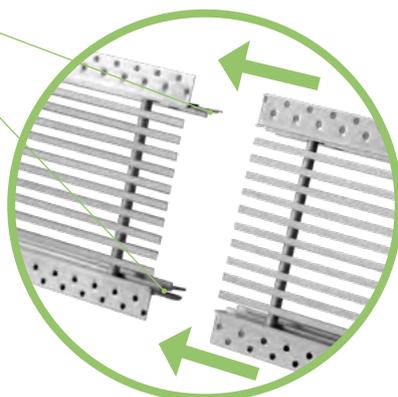


Detail A
Connecting plate

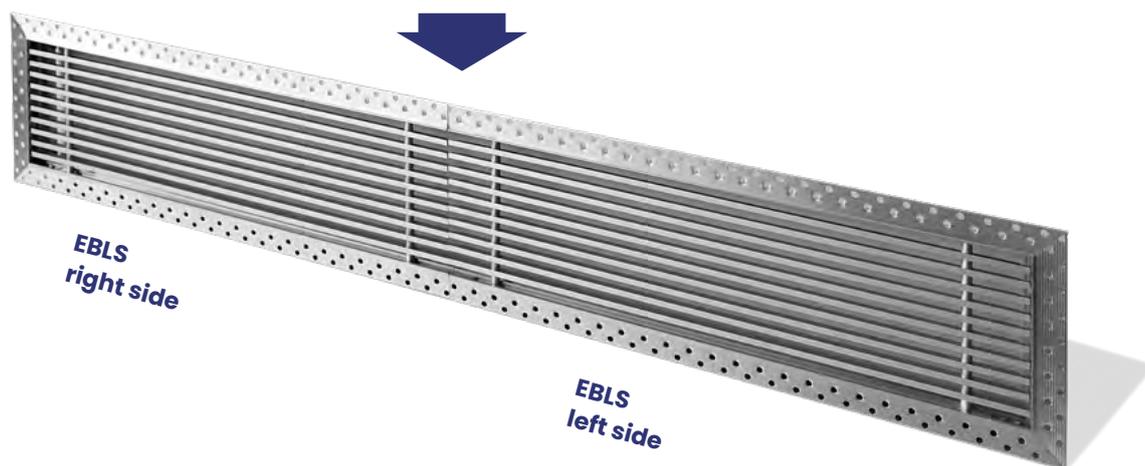
Continuity kit



Install the continuity elements in the two slots, paying attention to the direction of the plates of the continuity kit (concave side facing inwards)



The two halves are then joined and you can proceed with the installation and the skimming



CODE

How to order

EBLS	20/0°	400	200
↓	↓	↓	↓
<p>EBLS Hidden grilles with removable central core and retractable frame.</p>	<p>20/0°: with retractable frame, fixed front pull-out bars with 0° deflection;</p> <p>21/0°: with retractable frame, fixed front pull-out bars with 0° deflection and pivoting rear flaps;</p> <p>20/15°: with retractable frame, fixed front pull-out bars with 15° deflection;</p> <p>21/15°: with retractable frame, fixed front pull-out bars with 15° deflection and pivoting rear flaps.</p>	<p>Length L (mm)</p> <p>400 500 600 800 1000</p>	<p>Height H (mm)</p> <p>75 100 125 150 200</p>



Head quarter

ECOCLIMA SRL
Via Caduti di Russia, 19
35010 Curtarolo - PADOVA - ITALY
P. +39 049 9620344
info@ecoclima.com

Sales office Italy
info@ecoclima.com

Sales office international
francesca@ecoclima.com

ecoclima.com



ISO 9001
ISO 50001
ISO 45001
ISO 14001

Certified Management System