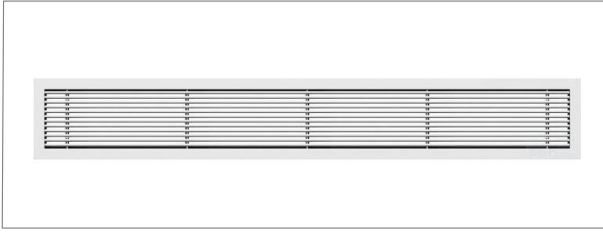


Linear bar grille

LD



Specifications

Linear bar grille with fixed horizontal blades.

Used for exhaust, supply or recirculation, in ventilation systems. Recommended for large air volume.

Material

Aluminium.

Finish

Standard finish: white RAL9003.

Optional finishing:
- different RAL (extra cost)
- natural aluminium

Mounting / Fixing

Mounting on the wall or ceiling (inside).
Fixing with visible screws (countersunk hole in frame).

Different fixing systems are available under certain commercial conditions.
(see **Fixing systems for grilles / diffusers**)

Optional accessories

Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

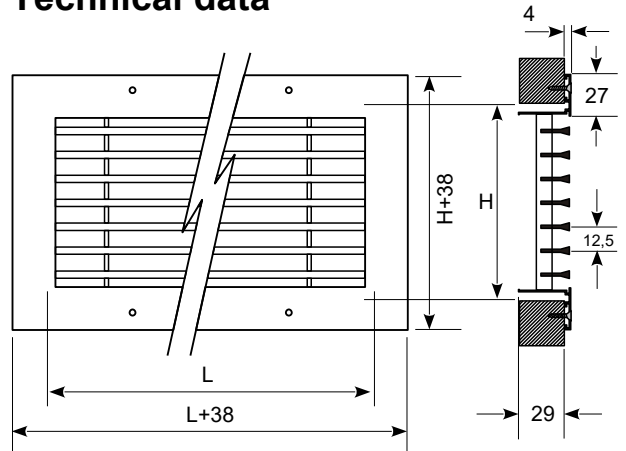
Order code: **LD** **aaa x bbb** **+***

Product code
opening length L (mm)
opening height H (mm)

not specified - white RAL9003 (standard)
RALxxxx - optional RAL code
ALU - natural aluminium

* optional accessories

Technical data



LxH - opening hole size

Grille neck size: (L-10) x (H-10)

Standard sizes

L	H	Q (m³/h) @ Vef 2,5 (m/s)
600	100	340
800	100	450
1000	100	570
1200	100	680
1500	100	850
1800	100	990
2000	100	1170
600	125	420
800	125	570
1000	125	710
1200	125	850
1500	125	1000
1800	125	1260
2000	125	1440
600	150	500
800	150	680
1000	150	850
1200	150	1000
1500	150	1260
1800	150	1530
2000	150	1710

Custom sizes

Custom sizes available (under certain commercial conditions),
between: L= 300~3000 mm, H= 100~500 mm

Linear bar grille

LD

Quick selection

Q (m³/h)	LxH (mm)	A _{ef} (m²)	600x100	600x125	800x100	600x150	800x125	1000x100	800x150	1000x125	1200x100	1000x150	1200x125	1500x100	1200x150	1800x100	1500x125	2000x100	1500x150	1800x125	2000x125	1800x150	2000x150
			0,038	0,050	0,056	0,063	0,075	0,094	0,110	0,120	0,130	0,140	0,160	0,170	0,190								
300	Lt(m)		3,4																				
	Lw(dB(A))		-																				
	ΔPt(Pa)		4																				
400	Lt(m)		4,4	3,8																			
	Lw(dB(A))		18	-																			
	ΔPt(Pa)		6	4																			
600	Lt(m)		6,7	5,8	5,5	5,2																	
	Lw(dB(A))		29	21	18	-																	
	ΔPt(Pa)		12	7	6	4																	
800	Lt(m)		9	7,8	7,4	7	6,4																
	Lw(dB(A))		37	28	27	23	18																
	ΔPt(Pa)		20	11	10	8	6																
1000	Lt(m)			9,9	9,3	8,8	7,9	7,2															
	Lw(dB(A))			36	33	30	26	18															
	ΔPt(Pa)			19	15	13	9	6															
1200	Lt(m)					11,3	10,7	9,4	8,3	7,7	7,5												
	Lw(dB(A))					43	33	29	28	19	18												
	ΔPt(Pa)					29	16	12	8	6	6												
1500	Lt(m)						13,8	12,6	11,2	10,2	9,8	9,3	8,7										
	Lw(dB(A))						38	34	27	24	21	18	16										
	ΔPt(Pa)						23	17	11	9	7	6	5										
1800	Lt(m)							14,9	13,4	12,5	12,1	11,7	11,1	10,1	9,6								
	Lw(dB(A))							42	35	32	31	28	26	20	19								
	ΔPt(Pa)							30	18	14	13	10	9	7	6								
2000	Lt(m)								14,7	13,9	13,5	12,9	12,4	11,5	11,2	10,4							
	Lw(dB(A))								37	34	32	30	27	24	20	17							
	ΔPt(Pa)								22	14	12	10	9	7	6								
2500	Lt(m)									16,9	16,2	15,7	15,2	14,3	13,8	13,1							
	Lw(dB(A))									38	35	33	32	28	25	23							
	ΔPt(Pa)									22	18	16	13	11	9	8							
3000	Lt(m)											17,5	17,1	16,7	16,1	15,5							
	Lw(dB(A))											39	36	33	32	30							
	ΔPt(Pa)											25	20	15	13	12							
3500	Lt(m)														20	19	18						
	Lw(dB(A))														37	35	34						
	ΔPt(Pa)														21	17	16						
4000	Lt(m)															20							
	Lw(dB(A))															37							
	ΔPt(Pa)															22							

Data is valid for:

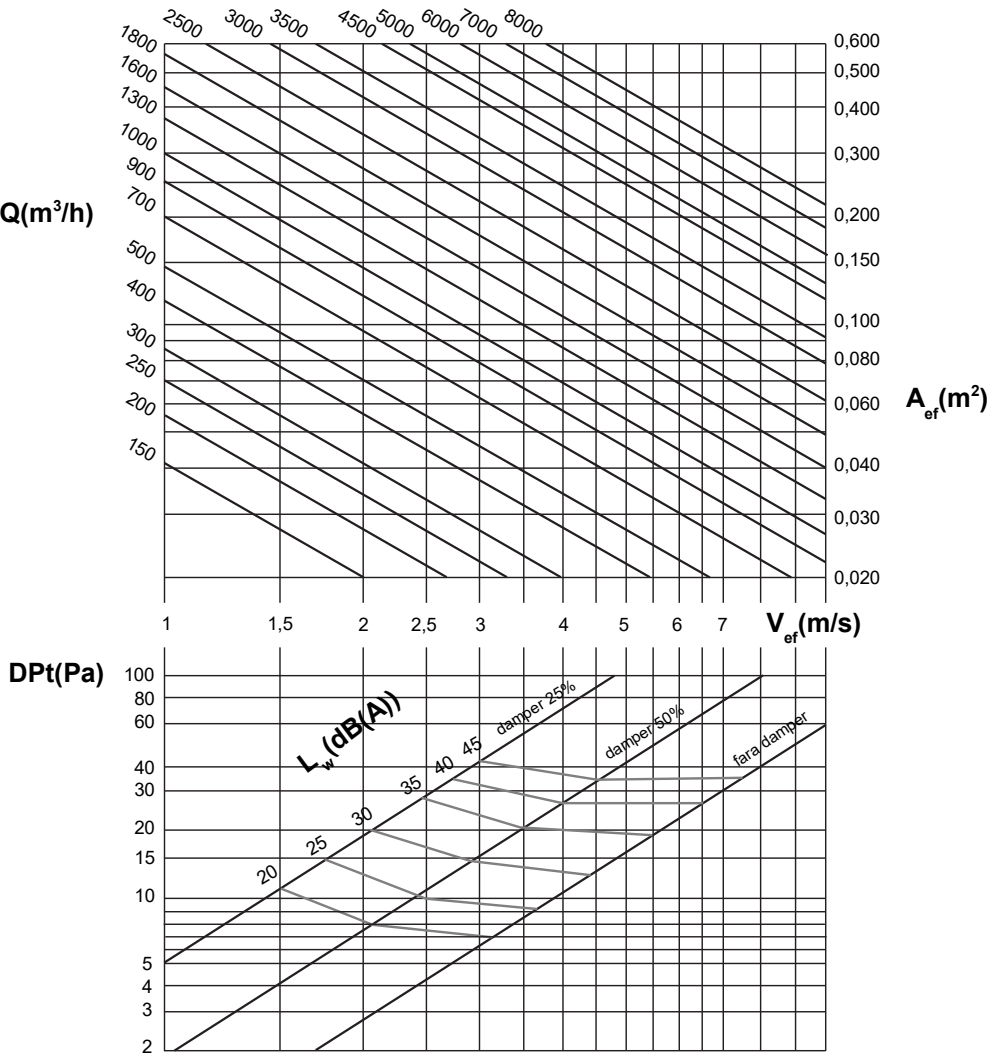
- H ceiling =3,0±0,5m
- L_t (m) @ V_t=0,2 m/s (without Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Dt=-10K
- without damper

Linear bar grille

LD

Technical data

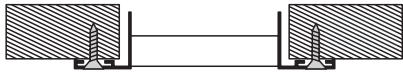
		A _{ef} (m ²)														
H (mm)	500	-	-	-	-	-	-	-	-	-	0,376	0,438	0,470	0,500	0,564	0,626
	450	-	-	-	-	-	-	-	-	0,282	0,338	0,395	0,423	0,450	0,507	0,564
	400	-	-	-	-	-	-	-	0,225	0,250	0,300	0,350	0,376	0,400	0,450	0,500
	350	-	-	-	-	-	-	0,175	0,197	0,220	0,263	0,307	0,330	0,350	0,395	0,438
	300	-	-	-	-	-	0,132	0,150	0,169	0,188	0,225	0,263	0,282	0,300	0,338	0,376
	250	-	-	-	-	0,094	0,110	0,125	0,141	0,157	0,188	0,219	0,235	0,250	0,282	0,313
	200	-	-	-	0,063	0,075	0,088	0,100	0,113	0,125	0,150	0,175	0,188	0,200	0,225	0,250
	150	-	-	0,038	0,047	0,056	0,066	0,075	0,085	0,094	0,113	0,132	0,141	0,150	0,169	0,188
	125	-	0,027	0,031	0,039	0,047	0,055	0,063	0,070	0,078	0,094	0,110	0,120	0,125	0,141	0,160
	100	0,019	0,022	0,025	0,031	0,038	0,044	0,050	0,056	0,063	0,075	0,088	0,094	0,100	0,113	0,130
		300	350	400	500	600	700	800	900	1000	1200	1400	1500	1600	1800	2000
		L (mm)														



Linear bar grille

LD

Fixing



Fixing with visible screws (**standard**).
Screws are supplied at the same color as grille.

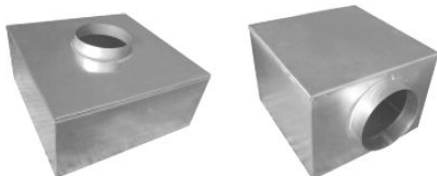
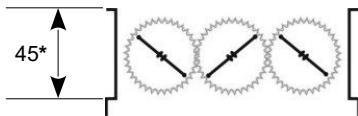
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

Optional accessories



OBD - Opposed blade damper. (extra cost)

*to be added to grille depth dimension



PL – Plenum box(extra cost)

Variants:
- uninsulated / thermal insulated
- axial or lateral spigot