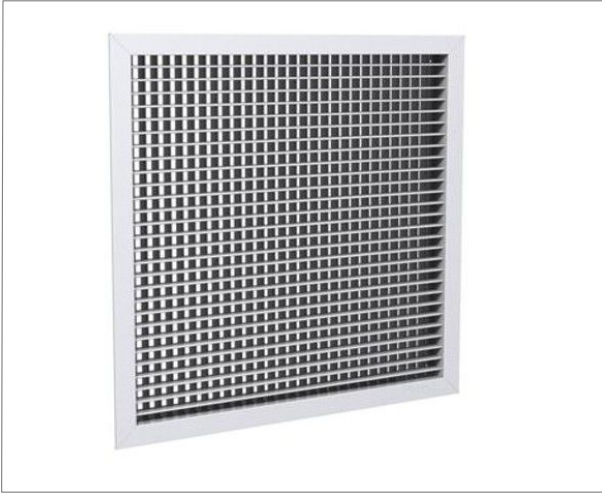


Double deflection grille

DD



Detalii constructive. Utilizare.

Grille with two rows of blades, horizontal and vertical, individually adjustable.

Used mainly for supply, in ventilation systems.

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

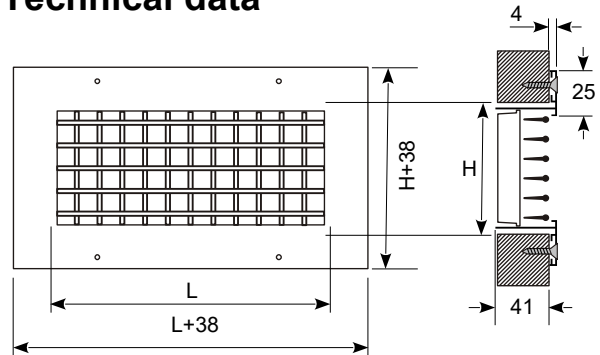
Opposed blade damper – **OBD** (extra cost).
Plenum box – **PL** (extra cost).
Fixing systems (extra cost).

Order code: **DD** **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)
200	100	100
300	100	160
400	100	220
500	100	270
600	100	320
400	200	430
500	200	540
600	200	650
800	200	860
1000	200	1100
300	300	490
500	300	810
600	300	970
800	300	1300
1000	300	1620
600	400	1360
1000	400	2160
595*	595*	1620

* external dimension 595x595, for cassette ceiling system
(without mounting holes in frame)

Custom sizes

Custom sizes available (under certain commercial conditions),
between: LxH 100x100 mm ~ LxH 2000x1000 mm

Double deflection grille

DD

Quick selection

Q (m³/h)	LxH (mm)	200x100	250x100	300x100	200x150	400x100	250x150	300x150	500x100	600x100	400x150	500x150	400x200	600x150	300x300	500x200	800x150	600x200	1000x150	500x300	800x200	600x300	1000x200	800x300	600x400	1000x300	595x595*	1000x400
	A _{ef} (m²)	0,016	0,020	0,024	0,032	0,036	0,040	0,048	0,060	0,064	0,072	0,080	0,096	0,120	0,128	0,144	0,160	0,192	0,240	0,320								
150	L _t (m)	2,8	2,6	2,4																								
	L _w (dB(A))	27	20	18																								
	ΔP _t (Pa)	7	5	3																								
200	L _t (m)	3,9	3,5	3,2																								
	L _w (dB(A))	37	30	22																								
	ΔP _t (Pa)	12	8	6																								
250	L _t (m)	5	4,4	3,9	3,5	3,3	3,1																					
	L _w (dB(A))	43	37	32	22	20	17																					
	ΔP _t (Pa)	18	12	9	5	4	3																					
300	L _t (m)			4,8	4,2	3,8	3,6																					
	L _w (dB(A))			37	27	24	21																					
	ΔP _t (Pa)			12	7	6	5																					
350	L _t (m)				4,9	4,6	4,4																					
	L _w (dB(A))				32	27	25																					
	ΔP _t (Pa)				9	7	6																					
400	L _t (m)				5,6	5,3	5	4,5																				
	L _w (dB(A))				38	36	31	24																				
	ΔP _t (Pa)				14	12	8	6																				
450	L _t (m)				6,3	5,8	5,6	5,1																				
	L _w (dB(A))				43	37	33	27																				
	ΔP _t (Pa)				18	13	10	7																				
500	L _t (m)							5,7	5,1	4,8																		
	L _w (dB(A))							32	23	22																		
	ΔP _t (Pa)							9	5	5																		
600	L _t (m)							6,8	6	5,8	5,6	5,3																
	L _w (dB(A))							37	27	26	22	20																
	ΔP _t (Pa)							12	7	6	5	4																
700	L _t (m)							7,9	7,3	7	6,5	6,2																
	L _w (dB(A))							42	33	32	27	24																
	ΔP _t (Pa)							17	10	9	7	6																
800	L _t (m)							8,2	7,7	7,4	7,2	6,5	5,7	5,6														
	L _w (dB(A))							37	35	32	27	23	18	15														
	ΔP _t (Pa)							13	12	9	7	6	4	3														
900	L _t (m)							8,8	8,3	7,9	7,3	6,5	6,3															
	L _w (dB(A))							38	34	32	27	21	18															
	ΔP _t (Pa)							14	11	9	7	5	4															
1000	L _t (m)											9	8	7,3	7,1	6,7	6,4											
	L _w (dB(A))											37	32	25	22	21	18											
	ΔP _t (Pa)											13	9	6	5	5	4											
1200	L _t (m)												9,6	8,4	8,2	7,8	7,5	6,7										
	L _w (dB(A))												37	30	27	23	21	18										
	ΔP _t (Pa)												13	8	7	6	5	4										
1400	L _t (m)												11,7	10,2	9,7	9,1	8,7	7,8	7,1									
	L _w (dB(A))												42	33	31	27	25	22	15									
	ΔP _t (Pa)												16	10	8	7	6	5	3									
1600	L _t (m)												13,8	12,3	12	11,3	10,6	9,3	8,3									
	L _w (dB(A))												45	38	36	32	31	27	18									
	ΔP _t (Pa)												20	14	12	9	8	7	4									
1800	L _t (m)													13,8	13,4	12,7	12,1	10,7	9,4	7,9								
	L _w (dB(A))													45	42	37	35	32	23	17								
	ΔP _t (Pa)													18	17	13	12	9	6	3								
2000	L _t (m)																		12,3	10,6	8,8							
	L _w (dB(A))																		37	25	18							
	ΔP _t (Pa)																		13	7	4							
2500	L _t (m)																											
	L _w (dB(A))																											
	ΔP _t (Pa)																											
3000	L _t (m)																											
	L _w (dB(A))																											
	ΔP _t (Pa)																											
3500	L _t (m)																											
	L _w (dB(A))																											
	ΔP _t (Pa)																											

*external dimension 595x595, for cassette ceiling system

Data is valid for:

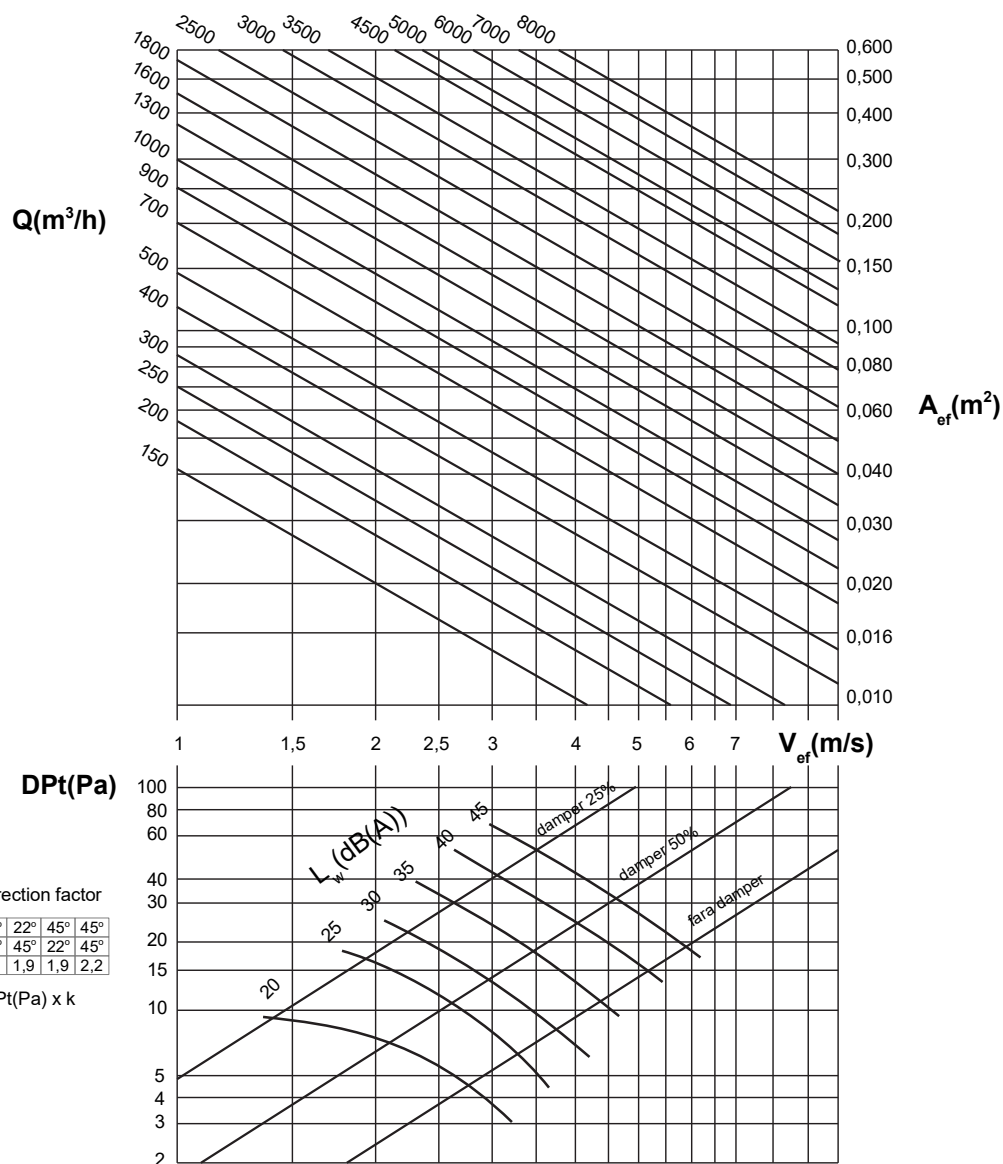
- H ceiling = 2,5±0,5m
- L_t (m) @ V_t=0,2 m/s (without Coanda effect)
- L_w(dB(A)) incl. room attenuation 5dB(A)
- Temperature difference Δt=10K
- deflection 0°, without damper

Double deflection grille

DD

Technical data

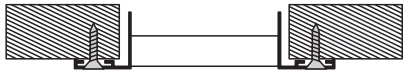
Technical data				A _{ef} (m ²)												
H (mm)	600	-	-	-	-	-	-	-	-	-	-	0,216	0,252	0,288	0,324	0,360
	550	-	-	-	-	-	-	-	-	-	0,182	0,198	0,231	0,264	0,297	0,330
	500	-	-	-	-	-	-	-	-	0,150	0,165	0,180	0,210	0,240	0,270	0,300
	450	-	-	-	-	-	-	-	0,122	0,135	0,149	0,162	0,189	0,216	0,243	0,270
	400	-	-	-	-	-	-	0,096	0,108	0,120	0,132	0,144	0,168	0,192	0,216	0,240
	350	-	-	-	-	-	0,074	0,084	0,095	0,105	0,116	0,126	0,147	0,168	0,189	0,210
	300	-	-	-	-	0,054	0,063	0,072	0,081	0,090	0,099	0,108	0,126	0,144	0,162	0,180
	250	-	-	-	0,038	0,045	0,053	0,060	0,068	0,075	0,083	0,090	0,105	0,120	0,135	0,150
	200	-	-	0,024	0,030	0,036	0,042	0,048	0,054	0,060	0,066	0,072	0,084	0,096	0,108	0,120
	150	-	0,014	0,018	0,023	0,027	0,032	0,036	0,041	0,045	0,050	0,054	0,063	0,072	0,081	0,090
100	0,006	0,009	0,012	0,015	0,018	0,021	0,024	0,027	0,030	0,033	0,036	0,042	0,048	0,054	0,060	
		100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000
		L (mm)														



Double deflection grille

DD

Fixing



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

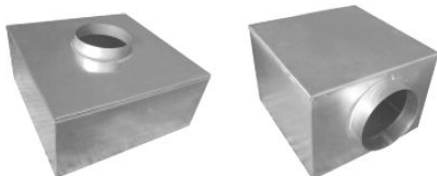
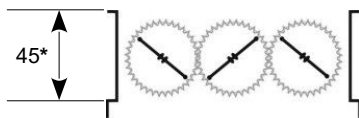
Different fixing systems are available (under certain commercial conditions).
(details in **Fixing systems for grilles / diffusers** chapter)

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