

- Wall grilles
- Aluminium
- Anodized natural finish
- Fixed blades 15°



Aluminium linear grilles type ALG-15

Aluminium grilles with fixed blades and blade pitch of 12.5 mm, deflection 15°

Brand

- Cairox

Application

- Used for air supply and air exhaust in ventilation and air conditioning systems

Material

- Aluminium

Colour

- Natural finish
- Other colours available upon request

Composition

- Deflection : fixed 15°
- Single row of horizontal blades

Mounting

- Invisible mounting with clips in mounting frame, type **CCN**

Accessories

- Mounting frame for clips fixing, type **CCN**
- Volume control damper, type **DWN**
- Plenum box, type **REW**
- Insulated plenum box, type **REW ISO**

Order example

- **ALG-15, 800, 200 + CCN + DWN + REW**

Explanation

ALG-15 = Grille type

800 = Length (see table)

200 = Height (see table)

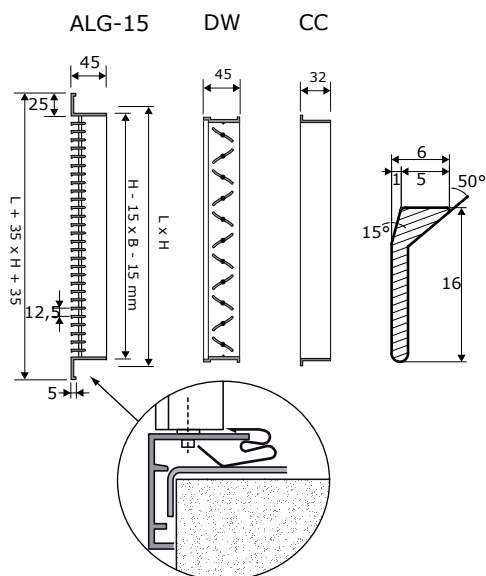
Accessories (optional)

CCN = Mounting frame

DWN = Volume damper

REW = Plenum box

Wall and floor grilles



Quick selection																
ALG-15	LxH	200x100	300x100	400x100 300x150 200x200	500x100	600x100 400x150 300x200	500x150	800x100 400x200	600x150 300x300	500x200 1000x100	800x150 600x200 400x300	1000x150 800x200 500x300	600x300	1000x200	800x300	1000x300
Q	Ak	0.0021	0.0083	0.0145	0.0206	0.0268	0.0361	0.0392	0.0453	0.0515	0.0638	0.0823	0.1008	0.1132	0.1379	0.1749
50	Vk	6.6	1.7													
	X0,25	5.7	3.3													
	Ps	32	2													
	Lw(A)	30	<20													
100	Vk		3.3	1.9	1.3	1										
	X0,25		6.1	4.8	4.2	3.8										
	Ps		8	3	1	1										
	Lw(A)		24	<20	<20	<20										
150	Vk		5	2.9	2	1.6	1.2	1.1								
	X0,25		8.8	6.9	6	5.4	4.8	4.6								
	Ps		19	6	3	2	1	1								
	Lw(A)		32	25	<20	<20	<20	<20								
200	Vk		6.7	3.8	2.7	2.1	1.5	1.4	1.2	1.1						
	X0,25		11.5	9	7.8	7	6.2	6	5.6	5.4						
	Ps		33	11	6	3	2	2	1	1						
	Lw(A)		38	30	25	22	<20	<20	<20	<20						
300	Vk			5.7	4	3.1	2.3	2.1	1.8	1.6	1.3	1				
	X0,25			13.2	11.4	10.2	9	8.7	8.1	7.7	7.1	6.4				
	Ps			24	12	7	4	4	3	2	1	1				
	Lw(A)			38	33	30	25	24	22	21	<20	<20				
400	Vk			7.7	5.4	4.1	3.1	2.8	2.5	2.2	1.7	1.4	1.1			
	X0,25			17.4	15	13.3	11.7	11.3	10.6	10.1	9.2	8.3	7.6			
	Ps			42	21	13	7	6	5	4	2	1	1			
	Lw(A)			44	39	35	31	30	28	26	23	<20	<20			
600	Vk					6.2	4.6	4.3	3.7	3.2	2.6	2	1.7	1.5	1.2	
	X0,25					19.7	17.3	16.7	15.6	14.8	13.5	12.1	11.1	10.5	9.7	
	Ps					28	16	13	10	8	5	3	2	2	1	
	Lw(A)					43	39	38	36	34	31	27	25	23	20	
800	Vk						6.2	5.7	4.9	4.3	3.5	2.7	2.2	2	1.6	1.3
	X0,25						22.8	22	20.6	19.5	17.8	15.9	14.5	13.8	12.7	11.5
	Ps						28	24	18	14	9	6	4	3	2	1
	Lw(A)						44	43	41	39	37	33	30	29	26	23
1000	Vk						7.7	7.1	6.1	5.4	4.4	3.4	2.8	2.5	2	1.6
	X0,25						28.4	27.3	25.6	24.2	22	19.7	18	17.1	15.7	14.2
	Ps						43	36	27	21	14	9	6	5	3	2
	Lw(A)						49	48	46	44	41	37	35	33	30	27
1200	Vk							7.4	6.5	5.2	4.1	3.3	2.9	2.4	1.9	
	X0,25							30.6	28.9	26.3	23.5	21.5	20.4	18.7	16.9	
	Ps							39	30	20	12	8	7	5	3	
	Lw(A)							49	47	44	41	38	36	34	30	
1600	Vk								7	5.4	4.4	3.9	3.2	2.5		
	X0,25								34.9	31.1	28.4	27	24.7	22.3		
	Ps								35	21	14	12	8	5		
	Lw(A)								50	46	44	42	39	36		
2000	Vk										6.8	5.5	4.9	4	3.2	
	X0,25										38.7	35.4	33.6	30.8	27.7	
	Ps										33	22	18	12	8	
	Lw(A)										51	48	46	44	40	

Symbols and specifications

- LxH = Width L and height H in mm
- Q = Air volume in m³/h
- Ak = Effective surface (free area) in m²
- Vk = Average effective velocity through the grill in m/s
- X0,25 = Horizontal throw in m at an endvelocity Vt of 0.25 m/s
- Ps = Static pressure loss given in Pa
- Lw(A) = Acoustic power in dB(A)

- The throw X0.25 is given without deflection of the airstream at an end velocity of 0.25m/s. The distances are given for

Wall and floor grilles

a smooth ceiling and installation distance of the center of the grille at 300mm from the ceiling surface. When mounted at a distance of 400 to 600 mm from the ceiling, a horizontal deflection towards the ceiling of 15° is advised. When mounted at a distance larger than 600mm from the ceiling, the throw distance $X_{0.25}$ will be smaller than mentioned due to the missing coanda effect. In these cases and for all other special requirements, please contact our engineering office.

- The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by dividing the $X_{0.25}$ values with factor 1.1. For heating purposes at Δt of +11K a multiplier of 1.1 should be applied to the given $X_{0.25}$ value.
- Advised mounting distance between centers of multiple grilles in the same wall should be greater than 1/3 of the throw length $X_{0.25}$ (without spread)
- The pressure losses P_s are given for grilles without damper or with fully opened damper.
- The acoustic powers $L_w(A)$ are given for grilles without damper or with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.

Placement instruction

