



A.01

Wall and floor grilles

ALG-XS-15

Wall grilles Aluminium Anodized natural finish Fixed blades 15° 7 mm

Aluminium linear wall grilles type ALG-XS-15

Anodized aluminium grilles with fixed blades, a frame of 7mm and a blade pitch of 12.5 mm.
Deflection of the blades 15°.

Brand

Cairox

Application

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

Material

- Aluminium
- Available from size 400x75mm till 1200x300mm LxH

Colour

- Anodized natural finish
- Other colours available upon request

Composition

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

Mounting

- Invisible mounting with screw hole provided on the inside of the frame
 The horizontal fixed blades can be removed from the frame for easy acces to the fixing holes

Other available products

- **ALG-XS-0** with 0° deflection and small frame of 7mm
- ALG-0 with 0° deflection and frame of 25mm
 ALG-15 with 15° deflection and frame of 25mm

Text for tender

- The air supply wall grilles have fixed blades with extra small frame provided with screwholes for easy mounting.

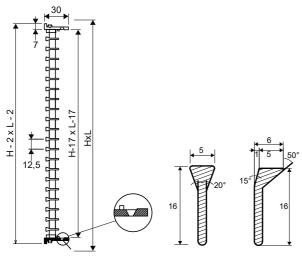
 • Cairox Type ALG-XS



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Order example

■ ALG-XS-15, 800, 200 Explanation ALG-XS = Grille type 15° = type of blade 800 = Length 200 = Height



									Ouick	selection								
ALG-XS	LxH	200x100	400x75 300x100	500x75	400x100 300x150 200x200	600x75	500x100	800x75 600x100 400x150 300x200	1000x75 500x150	800x100 400x200	1200x75 600x150	500x200 1000x100	1200x100 800x150 600x200 400x300	1000x150 800x200 500x300	1200x150 600x300	1000x200	1200x200 800x300	1200x300
Qv	Ak	0.0021	0.0083	0.0129	0.0145	0.0176	0.0206	0.0268	0.0361	0.0392	0.0453	0.0515	0.0638	0.0823	0.1008	0.1132	0.1379	0.2119
	Vk	6.6	1.7	1.1														
50	X0,25	5.7	3.3	2.9														
	Ps Lw(A)	32 30	2 <20	1 <20														
	Vk	30	3.3	2.2	1.9	1.6	1.3	1										
	X0,25		6.1	5.1	4.8	4.5	4.2	3.8										
100	Ps		8	4	3	2	1	1										
	Lw(A)		24	<20	<20	<20	<20	<20										
150	Vk		5	3.2	2.9	2.4	2	1.6	1.2	1.1								
	X0,25		8.8	7.3	6.9	6.4	6	5.4	4.8	4.6								
	Ps		19 32	8	6	4 22	3 <20	2	1	1								
200	Lw(A) Vk		6.7	26 4.3	25 3.8	3.2	2.7	<20 2.1	<20 1.5	<20 1.4	1.2	1.1						
	X0,25		11.5	9.5	9	8.3	7.8	7	6.2	6	5.6	5.4						
	Ps		33	14	11	8	6	3	2	2	1	1						
	Lw(A)		38	32	30	27	25	22	<20	<20	<20	<20						
300	Vk			6.5	5.7	4.7	4	3.1	2.3	2.1	1.8	1.6	1.3	1				
	X0,25			13.9	13.2	12.2	11.4	10.2	9	8.7	8.1	7.7	7.1	6.4				
	Ps			30	24	17	12	7	4	4	3	2	1	1				
	Lw(A)			40	38 7.7	35	33	30	25	24	22	21 2.2	<20	<20	4.4			
400	Vk X0,25				17.4	6.3 16	5.4 15	4.1 13.3	3.1 11.7	2.8 11.3	2.5 10.6	10.1	1.7 9.2	1.4 8.3	1.1 7.6			
	Ps				42	29	21	13.3	7	6	5	4	2	1	1.0			
	Lw(A)				44	41	39	35	31	30	28	26	23	<20	<20			
	Vk							6.2	4.6	4.3	3.7	3.2	2.6	2	1.7	1.5	1.2	
600	X0,25							19.7	17.3	16.7	15.6	14.8	13.5	12.1	11.1	10.5	9.7	
000	Ps							28	16	13	10	8	5	3	2	2	1	
	Lw(A)							43	39	38	36	34	31	27	25	23	20	
	Vk X0,25								6.2 22.8	5.7 22	4.9 20.6	4.3 19.5	3.5 17.8	2.7 15.9	2.2 14.5	2 13.8	1.6 12.7	1 10.5
800	Ps								28	24	18	14	9	6	4	3	2	10.5
	Lw(A)								44	43	41	39	37	33	30	29	26	<20
	Vk								7.7	7.1	6.1	5.4	4.4	3.4	2.8	2.5	2	1.3
1000	X0,25								28.4	27.3	25.6	24.2	22	19.7	18	17.1	15.7	13
	Ps								43	36	27	21	14	9	6	5	3	1
	Lw(A)								49	48	46	44	41	37	35	33	30	24
1200	Vk										7.4	6.5	5.2	4.1	3.3	2.9	2.4	1.6
	X0,25										30.6 39	28.9 30	26.3	23.5	21.5	20.4 7	18.7 5	15.5
	Ps Lw(A)										49	47	20 44	12 41	8 38	36	34	2 28
	Vk										73	7/	7	5.4	4.4	3.9	3.2	2.1
1600	X0,25												34.9	31.1	28.4	27	24.7	20.5
1600	Ps												35	21	14	12	8	3
	Lw(A)												50	46	44	42	39	33
2000	Vk													6.8	5.5	4.9	4	2.6
	X0,25													38.7	35.4	33.6	30.8	25.4
	Ps													33	22	18	12	5
	Lw(A)													51	48	46	44	38



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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 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 X0.25 will be smaller than mentioned due to the missing coanda effect. In these cases and for all other special requirements, please
- The values are given for isothermal supply air. Throw distances for cooling conditions at -11K can be calculated by dividing the X0.25 values with factor 1.1. For heating purposes at Dt of +11K a multiplier of 1.1 should be applied to the given X0.25 value.
- Advised mounting distance between centers of multiple grilles in the same wall should be greater than 1/3 of the throw length X0.25 (without spread)
- The pressure losses Ps are given for grilles without damper of with fully opened damper.

 The acoustic powers Lw(A) are given for grilles without damper of with fully opened damper without room attenuation. Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.

Placement instruction

