

EGAF Aphonic grilles



Description

Galvanized steel aphonic grilles for both supply and exhaust air, with blades inclined by 45°.

Characteristics

The frame is made of galvanised steel sheet, with a standard depth of 300 mm. Blades with a 150 mm pitch made of galvanised steel sheet, shaped to contain the sound-absorbing material. Inside coated with micro-stretched mesh. 40 mm galvanised steel perimeter flange. Bird mesh on request.

Sound-absorbing material with high density mineral wool, in fire reaction Class "0" (non-combustible) (Italian Ministerial Decree 26/06/1984). Maximum operating temperature: 250°C. Maximum operating pressure: 2,000 Pa.

Installation

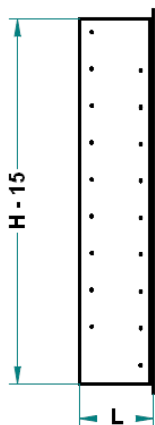
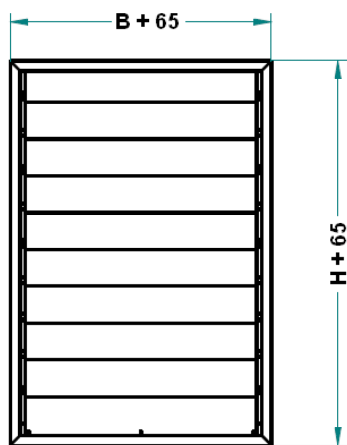
Assembly with screws on 40 mm flange or directly on duct.

Model

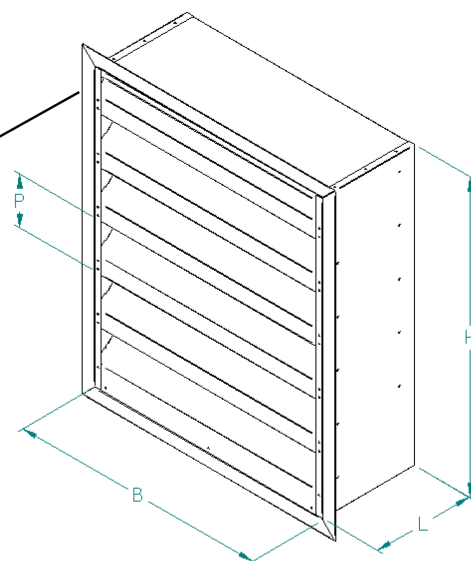
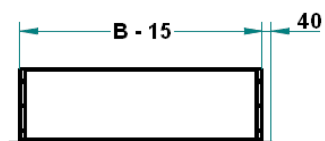
- EGAF thickness 100mm;
- EGAF thickness 150mm;
- EGAF thickness 200mm;
- EGAF thickness 300mm;
- EGAF thickness 600mm (300mm + 300mm).

On request

- Stainless steel or aluminium frames;
- Possibility of supplying painted product;
- L depths different from the standard.



Flangia / Frame



Dimensions and Effective Cross-sections:

	H (mm)										
B (mm)	450	600	750	900	1050	1200	1350	1500	1650	1800	1950
	Effective Cross-Section (m2)										
300	0,02	0,05	0,06	0,09	0,10	0,12	0,13	0,16	0,17	0,20	0,21
400	0,03	0,07	0,09	0,12	0,14	0,17	0,19	0,22	0,24	0,28	0,29
500	0,04	0,09	0,11	0,16	0,18	0,22	0,24	0,29	0,31	0,36	0,38
600	0,05	0,11	0,14	0,19	0,22	0,27	0,30	0,35	0,38		
700	0,06	0,13	0,16	0,23	0,26	0,32	0,35	0,42	0,45		
800	0,07	0,16	0,19	0,28	0,30	0,37	0,41	0,48	0,52		
900	0,08	0,17	0,21	0,30	0,34	0,42	0,48	0,55			
1000	0,09	0,19	0,24	0,33	0,38	0,47	0,52	0,61			
1100	0,10	0,21	0,26	0,37	0,42	0,52	0,57	0,68			
1200	0,11	0,23	0,29	0,40	0,46	0,57	0,63				
1300	0,12	0,25	0,31	0,44	0,50	0,62	0,68				
1400	0,13	0,27	0,34	0,47	0,54	0,67	0,74				
1500	0,14	0,29	0,36	0,51	0,58	0,72					
1600	0,15	0,31	0,39	0,54	0,62	0,77					
1700	0,16	0,33	0,41	0,58	0,66	0,82					
1800	0,17	0,35	0,44	0,61	0,70						

Technical Data

	H (mm)										
B (mm)	450	600	750	900	1050	1200	1350	1500	1650	1800	1950
	Portata aria massima consigliata in m³/h e perdita di carico pari a 68 Pa.										
300	680	1350	1690	2370	2710	3380	3720	4400	4730	5410	5750
400	950	1900	2380	3330	3810	1760	5240	6190	6670	7620	8100
500	1230	2460	3070	4300	4910	6140	6760	7990	8600	9830	10440
600	1500	3010	3760	5270	6020	7520	8280	9780	10530		
700	1780	3560	4450	6230	7120	8900	9790	11570	12460		
800	2060	4110	5140	7200	8230	10280	11310	13370	14400		
900	2330	4670	5830	8160	9330	11660	12830	15160			
1000	2610	5220	6520	9130	10440	13040	14350	16960			
1100	2880	5770	7210	10100	11540	14420	15670	18750			
1200	3160	6320	7900	11060	12640	15810	17390				
1300	3440	6870	8590	12030	13750	17190	18900				
1400	3710	7430	9280	13000	14850	18570	20420				
1500	3990	7980	9970	13960	15960	19950					
1600	4270	8530	10660	14930	17060	21330					
1700	4540	9080	11350	15890	18170	22710					
1800	4820	9630	12040	16860	19270						

Insertion Attenuation

The insertion attenuation is the ability of the aphonic grille to reduce the noise produced by the ventilation system to the outside.

Model	Hz	63	125	250	500	1000	2000	4000	8000
EGAF Thickness 100mm	[dB]	1	2	3	5	8	9	9	10
EGAF Thickness 150mm	[dB]	2	3	3	7	9	11	10	11
EGAF Thickness 200mm	[dB]	3	4	4	7	11	13	12	12
EGAF Thickness 300mm	[dB]	3	4	5	9	12	15	14	15
EGAF Thickness 600mm (300mm + 300mm)	[dB]	4	5	9	15	22	27	25	24

Soundproofing Power

Soundproofing power is the ability of an element to prevent sound waves from passing from one room to another. It characterises the acoustic features of dividers and partitions, as well as of aphonc grilles installed on walls. Its soundproofing power complies with UNI EN ISO 140 - 3:2006 and UNI EN ISO 717 -1:2007.

Model	Hz	125	250	500	1000	2000	4000	R _w
EGAF Thickness 100mm	[dB]	2	4	7	9	9	10	9,0
EGAF Thickness 150mm	[dB]	3	5	7	10	11	11	10,0
EGAF Thickness 200mm	[dB]	5	6	7	12	15	14	12,0
EGAF Thickness 300mm	[dB]	6	7	10	18	22	23	16,0
EGAF Thickness 600mm (300mm + 300mm)	[dB]	6	10	17	24	30	27	21,8

Pressure Drops

Pressure drops in EGAF series aphonc grilles depend on the air velocity inside the duct and also on the direction of the air. In fact, pressure drops are generally greater in supply than in exhaust.

Model	m/s	1	2	3	4	5	6	8	10
EGAF Thickness 100mm	Pa	5	19	43	75	117	167	293	453
EGAF Thickness 150mm	Pa	6	23	52	90	140	200	351	544
EGAF Thickness 200mm	Pa	7	27	60	106	163	233	410	634
EGAF Thickness 300mm	Pa	8	31	68	120	186	266	467	723
EGAF Thickness 600mm (300mm + 300mm)	Pa	13	53	121	218	344	499	896	1412

Price list: prices on request