



air master



Chapter 5

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1. Door grilles ADG1 & ADG2	Tabel 5.1..... 5.4



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Door grille with single frame

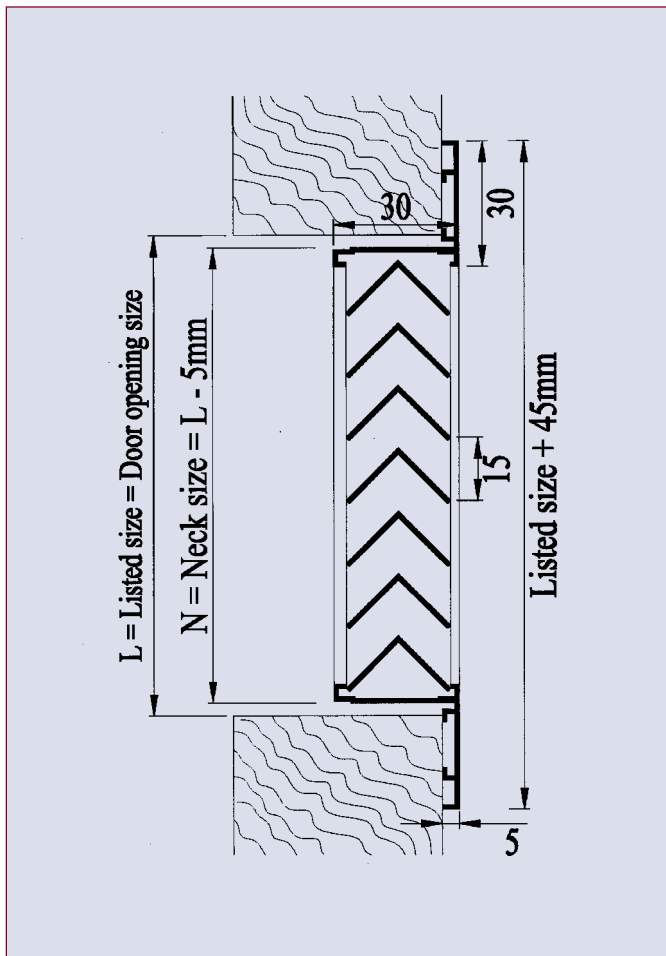
Model: ADG-1

Construction:

- **Frame:** High quality extruded aluminium profiles with 30 mm flange width as standard. 12, 16, 24 mm flange widths are optional.
- **Blades:** High quality extruded aluminium profiles.
- **Blade pitch:** 15mm

Description:

- Frame and blades are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Inverted "V" type horizontal blades are fixed rigidly to the frame.
- Blades are spaced at a distance of 15 mm.



- Grilles are made to with stand heavy use to which door grilles are subjected.
- Frame is fabricated to suit door thickness of 30 mm to 60 mm.
- Structure provides around 55% free area for air transmission.
- Used in facilities such as offices, hospitals, schools and toilets for transfer of air from one room to another room.
- Fire rated door grilles are available with 1/2 and 1 hour fire rating with additional cost.

Standard finishes:

- Natural aluminium anodized finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finish is available.



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Door grille with double frame

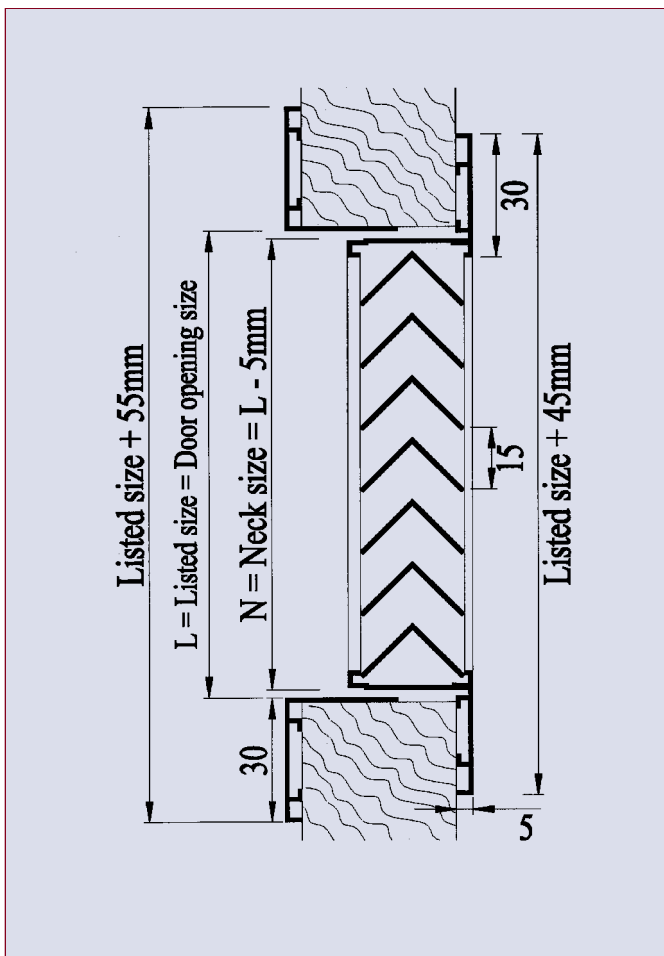
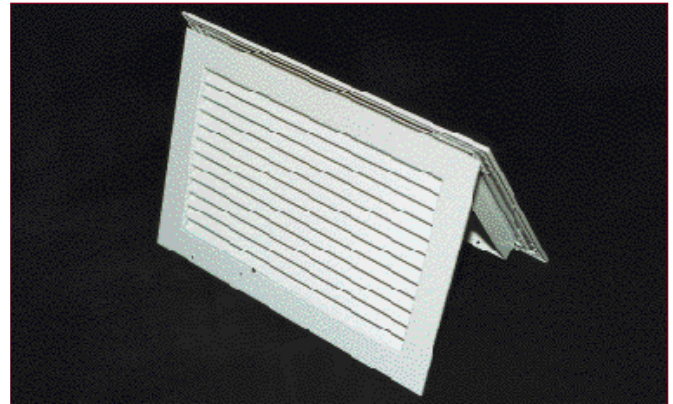
→ Model: ADG-2

Construction:

- **Frame:** High quality extruded aluminium profiles with 30 mm flange width as standard. 12, 16, 24 mm flange widths are optional.
- **Blades:** High quality extruded aluminium profiles.
- **Blade pitch:** 15mm.

Description:

- Frame and blades are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Inverted "V" type horizontal blades are fixed rigidly to the frame to avoid vibration and corrosion.
- Blades are spaced at a distance of 15 mm.
- Provided with a counter frame for fixing on both sides of the door.



- Made to withstand heavy use to which door grilles are subjected.
- Frame is fabricated to suit door thickness of 30 mm to 60 mm.
- Structure provides around 55% free area for air transmission.
- Used in facilities such as offices, hospitals, schools and toilets for transfer of air from one room to another room.
- Fire rated door grilles are available with 1/2 and 1 hour fire rating with additional cost.

Standard finishes:

- Natural aluminium anodized finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finish is available.



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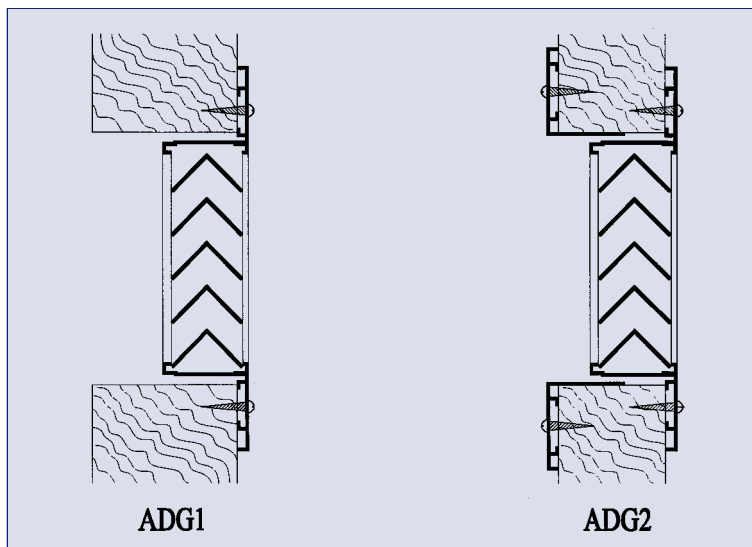
Standard Sizes:

- Available in square and rectangular sizes.
- Non standard sizes are available as option.

Width in mm	150	200	250	300	350	400	450	500
Height in mm	150	200	250	300	350	400	450	500

Fixing details:

- Screw fixing from flange to door.



How to order:

Model	Size	Quantity	Finish
ADG1	Specify door opening size Width x height In mm x mm	Specify in numbers	A = Natural aluminium anodized finish.
ADG2			B = RAL 9010.
			C = Other RAL colours

Ordering example:

1. To select door grille with double frame of size 400 x 400 of quantity 75 nos. with natural aluminium anodized finish.

Order as : ADG2-400 x 400 – 75 – A.



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Door grilles

Model: ADG1 / ADG2

Table 5.1 Air flow data

Listed sizes In mm x mm	Area factor in m ² .	Face velocity in m/sec.							
		1.5	1.75	2	2.25	2.5	3	3.5	4
		Static pressure loss in mm of H2O.							
		0.609	0.81	1.07	1.35	1.65	2.39	3.25	4.27
Air flow in m ³ / sec.									
300 x 150	0.026	0.039	0.046	0.052	0.059	0.065	0.078	0.091	0.104
400 x 150 / 300 x 200	0.0344	0.052	0.06	0.069	0.077	0.086	0.103	0.12	0.138
500 x 150	0.0428	0.064	0.075	0.086	0.096	0.107	0.128	0.15	0.171
300 x 250 / 400 x 200 600 x 150	0.0455	0.068	0.08	0.091	0.102	0.114	0.137	0.159	0.182
400 x 250 / 750 x 150 500 x 200 / 300 x 300	0.049	0.074	0.086	0.098	0.110	0.123	0.147	0.172	0.196
350 x 350 / 600 x 200 400 x 300 / 500 x 250	0.067	0.1	0.117	0.134	0.151	0.168	0.201	0.235	0.268
450 x 350 / 600 x 250 500 x 300 / 750 x 200	0.0837	0.126	0.146	0.167	0.188	0.209	0.251	0.293	0.335
500 x 350 / 750 x 250 600 x 300	0.10	0.15	0.175	0.2	0.225	0.25	0.3	0.35	0.4
500 x 400 / 450 x 450	0.11	0.165	0.193	0.22	0.248	0.275	0.33	0.385	0.44
600 x 350	0.115	0.173	0.201	0.23	0.259	0.288	0.345	0.403	0.46
500 x 450 / 750 x 300 600 x 400	0.125	0.188	0.219	0.25	0.281	0.313	0.375	0.438	0.50
750 x 350 / 600 x 450	0.149	0.224	0.261	0.298	0.335	0.373	0.447	0.522	0.596
750 x 450	0.175	0.263	0.306	0.35	0.394	0.438	0.525	0.613	0.7
600 x 600	0.199	0.299	0.348	0.398	0.448	0.498	0.597	0.697	0.796
700 x 600 / 750 x 550	0.23	0.345	0.403	0.46	0.518	0.575	0.69	0.805	0.92