



## Floor Grille - Light Duty

Model: AFG-L

### Construction:

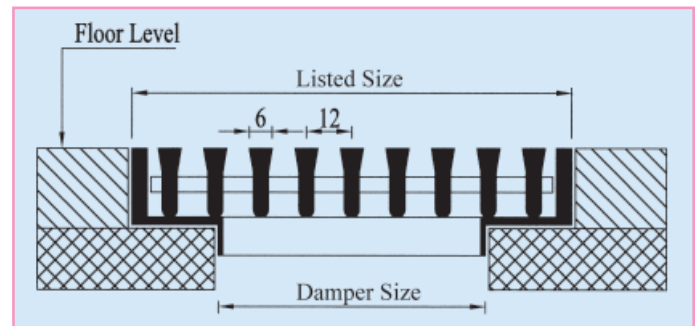
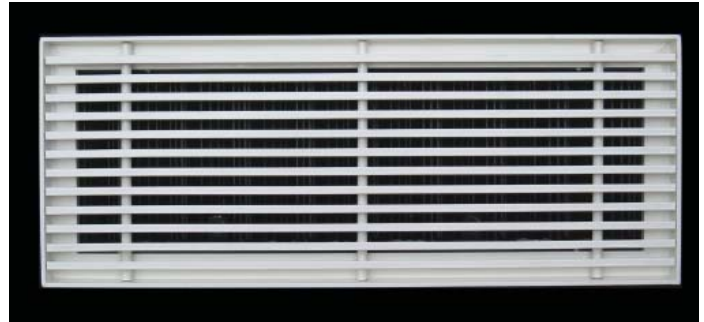
- **Frame:** Heavy gauge high quality extruded aluminium profile.
- **Face bars:** 6mm thick high quality aluminium bars with 12mm pitch.

### Description:

- Frame is constructed of high quality extruded aluminium profile with the advantages of corrosion resistance and rigidity.
- Structure is robustly constructed with face bars positioned in the frame.
- Face bars assembly is supported by heavy duty aluminium round rod.
- Applicable for installation in gymnasium, sport halls, hospitals and computer rooms.
- Suitable for sill level applications on edges of walkways, passages or raised platforms. Can be supplied in 0° deflection, 15° or 30° one way deflection.

### Standard finishes:

- Powder coated as per RAL color codes.





air master

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Width in mm	Face Velocity in m/sec	2.0	2.5	3.0	3.5	4.0	4.5	5.0
$A_f$ in m <sup>2</sup>								
50	Cfm	89	111	133	156	178	200	222
	M <sup>3</sup> /sec	0.042	0.053	0.063	0.074	0.084	0.095	0.105
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.021	Throw in m	0.5-0.7	0.6-1.1	0.7-1.3	0.9-2.1	1.3-2.5	1.6-3.1	2.2-3.8
	NC	<20	20	22	25	27	29	30
100	Cfm	225	281	337	393	449	505	561
	M <sup>3</sup> /sec	0.106	0.133	0.159	0.186	0.212	0.239	0.265
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.053	Throw in m	0.7-1.3	1.3-2.8	2.3-4.1	2.5-4.8	2.8-5.4	3.5-6.4	4.1-7.3
	NC	<20	20	25	28	30	32	35
150	Cfm	347	434	521	608	695	782	868
	M <sup>3</sup> /sec	0.164	0.205	0.246	0.287	0.328	0.369	0.41
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.082	Throw in m	0.8-1.6	1.5-3.1	2.4-4.5	2.7-5.1	3.3-6.1	4.1-6.9	4.4-7.8
	NC	<20	20	25	27	30	33	35
200	Cfm	483	604	724	845	966	1087	1207
	M <sup>3</sup> /sec	0.228	0.285	0.342	0.399	0.456	0.513	0.57
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.114	Throw in m	0.9-1.8	1.7-3.7	2.5-4.8	3.1-5.4	3.5-6.7	4.4-7.3	4.9-8.2
	NC	<20	20	25	28	31	33	35
250	Cfm	602	752	902	1053	1203	1353	1504
	M <sup>3</sup> /sec	0.284	0.355	0.426	0.497	0.568	0.639	0.71
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.142	Throw in m	1.1-2.1	1.8-4.1	2.7-4.9	3.2-5.7	3.7-6.9	4.5-7.2	5.1-8.3
	NC	<20	20	25	27	30	32	35
300	Cfm	724	905	1087	1268	1449	1630	1811
	M <sup>3</sup> /sec	0.342	0.428	0.513	0.598	0.684	0.77	0.855
	P <sub>s</sub> in mm H <sub>2</sub> O	0.23	0.31	0.52	0.68	0.83	1.18	1.48
0.171	Throw in m	1.2-2.2	1.8-4.2	2.6-4.9	3.0-5.5	3.6-6.8	4.5-7.1	4.9-8.2
	NC	<20	20	25	28	31	33	35

- Data based on one meter unit length of the grille with damper in full open position.
- Face velocity is measured in m/sec.
- P<sub>s</sub> - Static pressure loss is in mm of H<sub>2</sub>O.
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec.
- Noise criteria (NC) based on a room attenuation of 10dB.



# Floor Grille - Heavy Duty

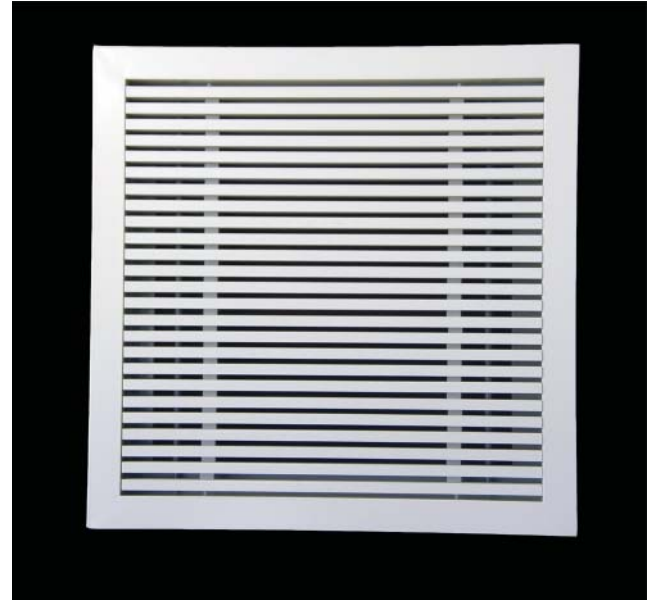
Model: AFG-H

### Construction:

- **Frame:** Heavy gauge high quality extruded aluminium profile 4mm thick, flange width 40mm.
- **Face bars:** 60mm high "I" section made up of high quality extruded aluminium.

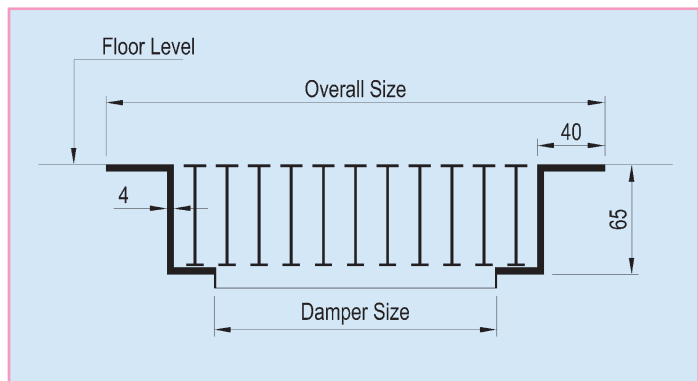
### Description:

- Frame is constructed of high quality extruded aluminium profile with the advantages of corrosion resistance and rigidity.
- Structure is robustly constructed with face bars positioned in the frame.
- Face bars assembly is reinforced with steel rods to withstand heavy loads.
- Applicable for installation in gymnasium, sport halls, hospitals and computer rooms.
- A recess of 40mmx4mm has to be provided around the grille, in the floor to install the grill flush with the floor (or) carpet level.



### Standard finishes:

- Powder coated as per RAL color codes.



### Grille Size 600x600mm (Overall Size)

<b>Air Flow in CFM</b>	<b>192</b>	<b>383</b>	<b>424</b>	<b>574</b>	<b>766</b>	<b>957</b>	<b>1149</b>	<b>1340</b>
<b>Air Flow in m<sup>3</sup>/sec</b>	<b>0.091</b>	<b>0.181</b>	<b>0.200</b>	<b>0.271</b>	<b>0.362</b>	<b>0.452</b>	<b>0.542</b>	<b>0.632</b>
<b>Neck velocity in m/s</b>	0.96	1.9	2.1	2.9	3.8	4.8	5.7	6.7
<b>Pressure drop in mm of H<sub>2</sub>O</b>	0.123	0.360	0.480	0.603	0.960	1.55	2.29	3.00
<b>Throw in meters</b>	2.1	2.8	2.9	4.2	5.9	7.5	9.2	10.6
<b>NC</b>	<15	<20	20	25	29	31	33	34

- Data based on 600x600mm Grille.
- Face velocity is measured in m/sec.
- Noise criteria (NC) is based on room attenuation of 10db.