

LINEAR BAR GRILLES



LINEAR BAR GRILLES



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Cover Page Photo Linear Bar Grilles supplied to Dubai Metro Stations, Dubai.



DOUBLE DEFLECTION LINEAR BAR GRILLE

LINEAR BAR GRILLES

model: **ASLG**

CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional.

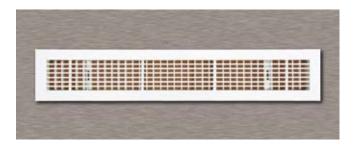
Face bars: High quality aluminium profiles of 0°,15°-1 way throw and 15°-2 way throw.

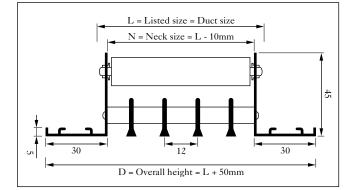
Bar spacing: 12 mm as standard. 6 mm as option.

Grille width: 50 mm to 300 mm with increments of 50 mm.

Description:

- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- Vertical aluminium aerofoil blades are fixed at the rear side of the frame by nylon bushes. These blades can be adjusted manually and individually in the vertical plane to obtain optimum air distribution.
- For perfect unbroken appearance of continuous runs, alignment strips are provided with no additional cost.
- Total structure is manufactured by mechanical assembly, assuring rigidity and to maintain straight line appearance.
- Supplied with C-clamps for concealed fixing.







model: ASLR

DOUBLE DEFLECTION LINEAR BAR REGISTER



CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional.

Face bars: High quality aluminium profiles of 0°, 15°-1 way throw and 15°-2 way throw.

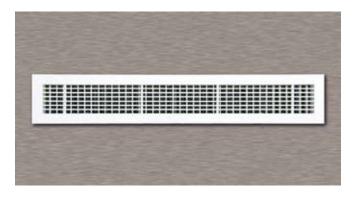
Bar spacing: 12 mm as standard. 6 mm as option.

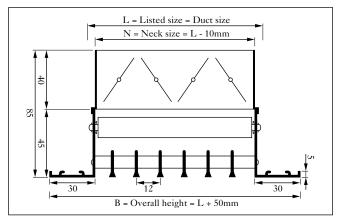
Grille width: 50 mm to 300 mm with increments of 50 mm.

Damper frame and blades: High quality extruded aluminium profiles with natural aluminium finish. Black matt finish as option.

Description:

- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- Vertical aluminium aerofoil blades are fixed at the rear side of the frame by nylon bushes. These blades can be adjusted manually and individually in the vertical plane to obtain optimum air distribution.
- Grilles are fixed rigidly with an opposed blade damper by grippers to ensure positive control over the air stream. Damper blades can be screw operated from the face opening of the grille.
- Provided with alignment strip for continuous appearance. Foam gasket is sealed around the back of the frame to avoid air leakage.
- Supplied with C-clamps for concealed fixing.









SINGLE DEFLECTION LINEAR BAR GRILLE

LINEAR BAR GRILLES

model: **ARLG**

CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional.

Face bars: High quality aluminium profiles of 0°, 15°-1 way throw and 15°-2 way throw.

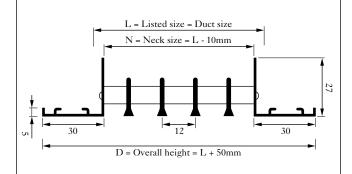
Bar spacing: 12 mm as standard. 6 mm as option.

Grille width: 50 mm to 300 mm with increments of 50 mm.

Description:

- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- For perfect unbroken appearance of continuous runs, alignment strips are provided with no additional cost.
- Total structure is manufactured by mechanical assembly, assuring rigidity and to maintain straight line appearance.
- Supplied with C-clamps for concealed fixing.









LINEAR BAR GRILLES

model: **ARLR**

SINGLE DEFLECTION LINEAR BAR REGISTER



CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional.

Face bars: High quality aluminium profiles of 0°, 15°-1 way throw and 15°-2 way throw.

Bar spacing: 12 mm as standard. 6 mm as option.

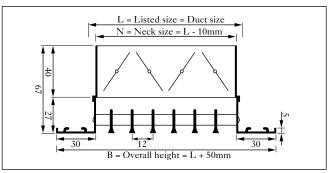
Grille width: 50 mm to 300 mm with increments of 50 mm.

Damper frame and blades: High quality extruded aluminium profiles with natural aluminium finish. Black matt finish as option.

Description:

- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- Grilles are fixed rigidly with opposed blade damper by grippers. This ensures positive control over the air stream. Damper blades can be screw operated from the face opening.
- For perfect unbroken appearance of continuous runs, alignment strips are provided with no additional cost.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Supplied with C-clamps for concealed fixing.









DOUBLE DEFLECTION CURVED LINEAR BAR GRILLE

LINEAR BAR GRILLES

model: ASLG (C)

CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width (Std.). 12, 20, 24 mm flange widths (optional).

Face bars: High quality aluminium profiles of 0°-1 way throw and 15°-2 way throw.

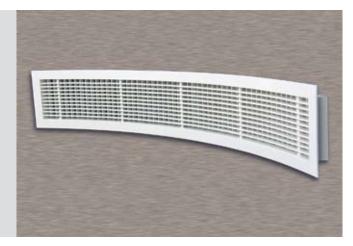
Bar spacing: 12 mm (Std.), 6 mm (Optional).

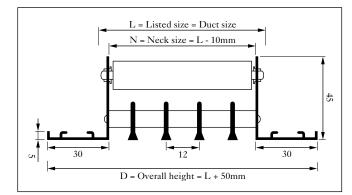
Grille width: 50 mm to 300 mm with increments of 50 mm.

Description:

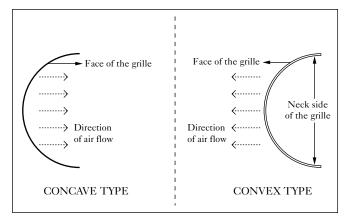
- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- Vertical aluminium aerofoil blades are fixed at the rear side of the frame by nylon bushings. These blades can be adjusted manually and individually in the vertical plane to obtain optimum air distribution.
- For perfect unbroken appearance of continuous runs, alignment strips are provided with no additional cost.
- Curved linear bar grilles are available up to a length of 3 meter with a minimum radius of curvature of 1 meter.
- Available without damper. Dampers can be provided to use in plenum boxes as option.
- Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Supplied with C-clamps for concealed fixing.
- Standard application on curved walls.

Model: ARLG-C: Same as ASLG-C, without vertical aerofoil blades.









LINEAR BAR GRILLES

model: ASLR (S)

DOUBLE DEFLECTION LINEAR BAR REGISTER With 6 mm pitch



CONSTRUCTION:

Frame: High quality extruded aluminium profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional.

Face bars: High quality aluminium profiles of 0°, 15°-1 way throw and 15°-2 way throw.

Bar spacing: 6 mm.

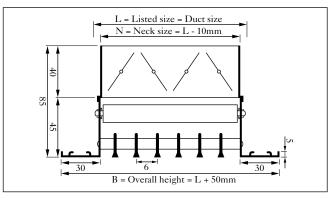
Grille width: 50 mm to 300 mm with increments of 50 mm.

Damper frame and blades: High quality extruded aluminium profiles with natural aluminium finish. Black matt finish as option.

Description:

- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with 8 mm pipes.
- Vertical aluminium aerofoil blades are fixed at the rear side of the frame by nylon bushings These blades can be adjusted manually and individually in the vertical plane to obtain optimum air distribution.
- Grilles are fixed rigidly with an opposed blade damper by grippers to ensure positive control over the air stream. Damper blades can be screw operated from the face opening of the grille.
- For perfect unbroken appearance of continuous runs, alignment strips are provided with no additional cost. Foam gasket is sealed around the back of the frame as option to avoid air leakage.
- Supplied with C-clamps for concealed fixing.
- Also available without damper and vertical blades for return air applications. Model: ARLG (S)



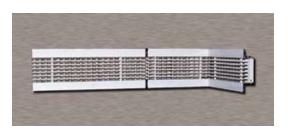






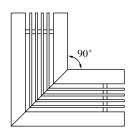
STANDARD FINISHES AND MITERED OPTIONS

LINEAR BAR GRILLES

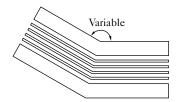


Standard finishes:

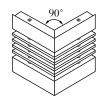
- Natural anodized aluminum finish.
- Powder coated colour finish as per RAL colour codes.
- Flexibility of finishing is available as option.



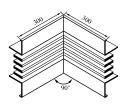
3a) 90° Horizontal



3b) Variable angle(90°- 180°)



3c) 90°Vertical outside



3d) 90°Vertical inside

Optional mitered corners

Standard 90° horizontal mitered corner available for floor, sill and ceiling applications in 0°,15°-1 way throw and 15°-2 way throw without damper.

Special horizontal mitered corner selection available for floor, sill and ceiling applications includes an angle greater than 90° and less than 180° available in 0°, 15°-1 way throw and 15°-2 way throw without damper.

Vertical outside mitered corners are available for wall application at the junction of two outside walls with a standard angle of 90°. Available in 0°, 15° -1 way throw and 15° -2 way throw without damper.

Special horizontal mitered corner selection available for floor, sill and ceiling applications includes an angle greater than 90° and less than 180° available in 0°, 15°-1 way throw and 15°-2 way throw without damper. 3.7

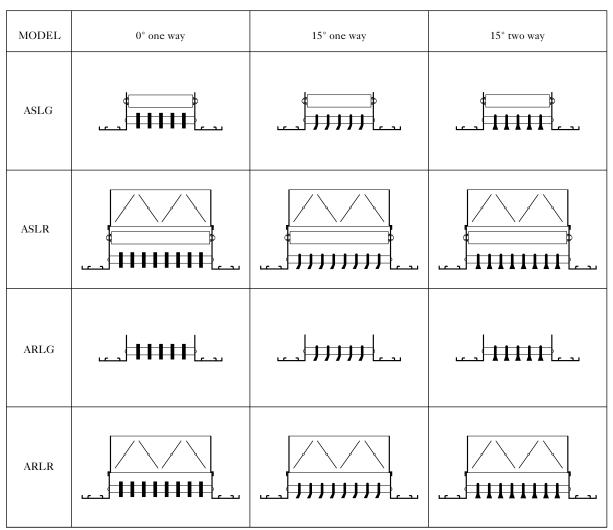
LINEAR BAR GRILLES

BAR DEFLECTIONS

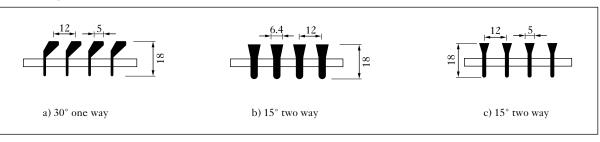


Bar deflections

Standard:



Blade options:



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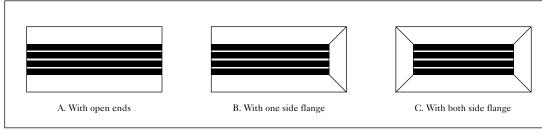


ACCESSORIES AND FIXING DETAILS

LINEAR BAR GRILLES

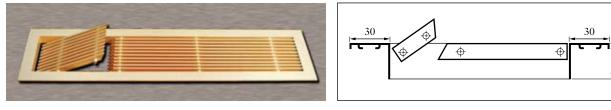
ACCESSORIES:

END FLANGES:



LINEAR BAR GRILLE WITH ONE SIDE ACCESS DOOR:

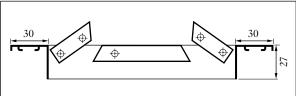
Access door will be provided either right or left side of the grille for special applications upon request. Size of the door is optional.



LINEAR BAR GRILLE WITH BOTH SIDE ACCESS DOOR:

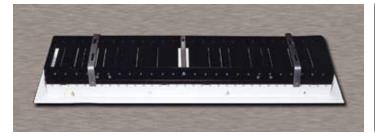
Access door will be provided to both sides of the grille for special applications upon request. Size of the door is optional.

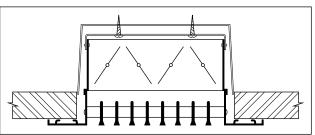




FIXING DETAILS:

C-Clamp fixing:





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LINEAR BAR GRILLES

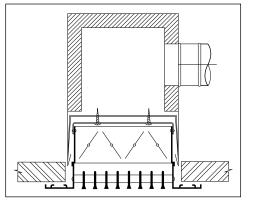
FIXING DETAILS, STANDARD SIZES & PRODUCT SUMMARY



Fixing details:

Fixing to the plenum box:





Standard sizes:

- Grilles are available with 1 meter length as standard.
- Length from 0.2 meter to 5.8 meter is available as single piece.
- Non standard sizes available as option.

Listed Width in mm	50	100	150	200	250	300
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Product summary:

Model Number	Product Description	Remarks
ASLG	Double deflection bar grille	• 12 mm bar space
ASLR	Double deflection bar register	Face bar options
ARLG	Single deflection bar grille	- 0° - 15° 1-way
ARLR	Single deflection bar register	- 15° 2-way
ASLR(S)	Double deflection bar register – 6 mm bar spacing	Also available without damper and vertical blades for return application.
ASLG-C	Double deflection bar grille – curved	 12 mm bar space Face bar option
ARLG-C	Single deflection bar grille – curved	- 0° - 15° 2-way

Product order checklist:

- Model
- Length and width in mm x mm
- Face bar (0°, 15°-1 way, 15°-2 way)
- End flange details (open end, one side flange or both side flange)
- Quantity
- Colour (RAL 9010, 9016, Anodised aluminium finish or other RAL colours)
- Drawing or template necessary for curved bar grille.



DOUBLE DEFLECTION LINEAR BAR REGISTER 15°-2 Way - 12 mm spacing

LINEAR BAR GRILLES

model: ASLR/ASLG

Table 3.1 Air flow data

Width in mm A _k in m ²	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Cfm	165	207	248	290	330	373	413
50	M ³ /sec.	0.078	0.098	0.117	0.137	0.156	0.176	0.195
	P_s in mm H_2O	0.15	0.21	0.21	0.25	0.32	0.4	0.51
0.039	Throw in m	2.7-4.0-5.5	3.4-4.3-6.0	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.5-7.6	4.9-5.8-8.2	4.9-6.0-8.5
	NC	<15	<15	<15	16	22	25	30
	Cfm	250	313	375	438	500	563	625
100	M ³ /sec.	0.118	0.148	0.177	0.207	0.236	0.266	0.295
	P_s in mm H_2O	0.15	0.21	0.21	0.3	0.39	0.51	0.61
0.059	Throw in m	3.4-4.6-7.0	4.0-5.2-7.6	4.6-5.8-8	5.2-6.0-8.5	5.5-6.7-9.1	5.8-7.3-10	6-7.6-10.7
	NC	<15	<15	<15	17	22	27	31
	Cfm	330	413	495	578	660	743	825
150	M ³ /sec.	0.156	0.195	0.234	0.273	0.312	0.351	0.39
	P_s in mm H_2O	0.15	0.21	0.25	0.36	0.46	0.58	0.71
0.078	Throw in m	4.0-5.5-8.0	4.6-6.0-8.8	5.2-6.7-9.5	5.8-7.3-10	6.4-8-10.7	6.7-8.5-11.6	7-8.8-12.2
	NC	<15	<15	<15	17	23	28	32
	Cfm	410	515	616	718	821	925	1027
200	M ³ /sec.	0.194	0.243	0.291	0.339	0.388	0.437	0.485
	P_s in mm H_2O	0.2	0.23	0.31	0.39	0.53	0.66	0.91
0.097	Throw in m	4.5-6.1-8.8	5.2-6.7-9.8	6.0-7.6-10.7	6.7-8.0-11.3	7.3-8.8-11.9	7.6-9.5-12.8	8.0-9.8-13.7
	NC	<15	<15	16	21	26	31	35
	Cfm	491	614	736	860	982	1105	1228
250	M ³ /sec.	0.232	0.29	0.348	0.406	0.464	0.522	0.58
	P_s in mm H_2O	0.2	0.25	0.33	0.43	0.58	0.76	0.94
0.116	Throw in m	4.9-6.7-9.8	5.5-7.6-10.7	6.4-8.2-11.3	7.3-8.8-12.2	8.0-9.5-13.1	8.2-10-14	8.5-10.7-15
	NC	<15	<15	20	25	31	34	37
	Cfm	576	720	864	1008	1152	1295	1440
300	M ³ /sec.	0.272	0.34	0.408	0.476	0.544	0.612	0.68
	P _s in mm H ₂ O	0.2	0.31	0.36	0.47	0.64	0.85	1.02
0.136	Throw in m	5.2-7.3-10.7	6.1-8.2-11.6	7-9.1-12.2	7.9-9.8-13.1	8.5-10.4-14	8.8-11-15	9.1-11.6-16.2
	NC	<15	18	24	28	32	35	40

• Data based on one meter unit length of the grille with damper in full open position.

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• Face velocity is measured in m/sec.

• P_s : Static pressure loss is in mm of H_2O .

• Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.

• NC based on a room attenuation of 10 dB.

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LINEAR BAR GRILLES

model: ASLR-1/ASLG-1

DOUBLE DEFLECTION LINEAR BAR REGISTER

15°-1 Way - 12 mm spacing



Table 3.2 Air flow data

Width in mm A_k in m_2	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Cfm	169	212	254	296	339	381	423
50	M ³ /sec.	0.08	0.1	0.12	0.14	0.16	0.18	0.2
	P_s in mm H_2O	0.14	0.19	0.21	0.25	0.31	0.39	0.5
0.040	Throw in m	2.7-4.1-5.6	3.5-4.4-6.2	4.1-5.0-7.0	4.5-5.4-7.7	4.8-5.8-8.1	5.1-6.1-8.9	5.2-6.4-9.3
	NC	<15	<15	<15	17	22	25	31
	Cfm	275	345	413	483	550	620	688
100	M ³ /sec.	0.13	0.163	0.195	0.228	0.26	0.293	0.325
	P_s in mm H_2O	0.14	0.19	0.21	0.3	0.38	0.5	0.6
0.065	Throw in m	3.5-4.7-7.1	4.1-5.3-7.8	4.7-5.9-8.4	5.4-6.2-9.0	5.8-7.0-9.7	6.1-7.7-10.8	6.4-8.1-11.7
	NC	<15	<15	15	18	23	27	32
	Cfm	373	466	559	652	745	838	932
150	M ³ /sec.	0.176	0.22	0.264	0.308	0.352	0.396	0.44
	P_s in mm H_2O	0.14	0.19	0.25	0.36	0.45	0.57	0.7
0.088	Throw in m	4.1-5.6-8.2	4.7-6.2-9.0	5.4-6.9-10	6.0-7.6-10.6	6.7-8.4-11.4	7.0-8.9-12.5	7.4-9.3-13.3
	NC	<15	<15	16	18	24	29	34
	Cfm	470	589	705	824	940	1058	1175
200	M ³ /sec.	0.222	0.278	0.333	0.389	0.444	0.499	0.555
	P_s in mm H_2O	0.18	0.21	0.31	0.39	0.52	0.65	0.9
0.111	Throw in m	4.6-6.2-9.0	5.3-6.9-10.0	6.2-7.8-11.2	6.9-8.3-11.9	7.7-9.2-12.7	8-9.9-13.8	8.5-10.4-14.9
	NC	<15	16	17	21	26	32	36
	Cfm	567	709	851	993	1135	1277	1419
250	M ³ /sec.	0.268	0.335	0.402	0.469	0.536	0.603	0.67
	P_s in mm H_2O	0.2	0.25	0.33	0.42	0.56	0.77	0.93
0.134	Throw in m	5.0-6.8-10	5.6-7.8-11	6.6-8.4-11.9	7.6-9.2-12.9	8.4-10-14	8.6-10.5-15.1	9.0-11.3-16.4
	NC	<15	16	21	27	31	35	40
	Cfm	686	857	1029	1200	1372	1543	1715
300	M ³ /sec.	0.324	0.405	0.486	0.567	0.648	0.729	0.81
	P_s in mm H_2O	0.2	0.3	0.36	0.47	0.64	0.84	1.01
0.162	Throw in m	5.3-7.5-10.9	6.2-8.4-11.9	7.2-9.4-12.8	8.2-10.2-13.9	8.9-10.9-15	9.2-11.6-16.2	9.6-12.3-17.6
	NC	<15	18	25	30	33	37	42

• Data based on one meter unit length of the grille with damper in full open position.

• Face velocity is measured in m/sec.

• P_s : Static pressure loss is in mm of H_2O .

• Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.

• NC based on a room attenuation of 10 dB.



DOUBLE DEFLECTION LINEAR BAR REGISTER 0° - 12 mm spacing

LINEAR BAR GRILLES

model: ASLR-0/ASLG-0

Table 3.3 Air flow data

Width in mm A _k in m ²	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Cfm	169	212	254	296	339	381	423
50	M ³ /sec.	0.08	0.1	0.12	0.14	0.16	0.18	0.2
	P _s in mm H ₂ O	0.14	0.19	0.19	0.23	0.28	0.36	0.46
0.040	Throw in m	2.7-4.1-5.6	3.5-4.4-6.2	4.2-5.1-7.1	4.6-5.6-7.9	4.9-5.6-8.3	5.4-6.4-9.3	5.5-6.8-9.8
	NC	<15	<15	<15	17	22	25	31
	Cfm	275	345	413	483	550	620	688
100	M ³ /sec.	0.13	0.163	0.195	0.228	0.26	0.293	0.325
	P _s in mm H ₂ O	0.14	0.19	0.19	0.28	0.35	0.46	0.56
0.065	Throw in m	3.5-4.7-7.1	4.1-5.3-7.8	4.8-6.0-8.6	5.6-6.4-9.3	5.9-7.2-10.0	6.4-8.1-11.3	6.8-8.6-12.4
	NC	<15	<15	15	18	23	27	32
	Cfm	373	466	559	652	745	838	932
150	M ³ /sec.	0.176	0.22	0.264	0.308	0.352	0.396	0.44
	P_s in mm H_2O	0.14	0.19	0.23	0.33	0.42	0.53	0.65
0.088	Throw in m	4.1-5.6-8.2	4.7-6.2-9.0	5.5-7-10.2	6.2-7.8-10.9	6.9-8.7-11.7	7.4-9.3-13.1	7.8-9.8-14.0
	NC	<15	<15	16	18	24	29	34
	Cfm	470	589	705	824	940	1058	1175
200	M ³ /sec.	0.222	0.278	0.333	0.389	0.444	0.499	0.555
	P_s in mm H_2O	0.16	0.19	0.28	0.36	0.48	0.6	0.84
0.111	Throw in m	4.6-6.2-9.0	5.3-6.9-10.0	6.3-7.9-11.4	7.1-8.5-12.3	7.9-9.5-13.1	8.4-10.4-14.5	9.0-11.0-15.8
	NC	<15	16	17	21	26	32	36
	Cfm	567	709	851	993	1135	1277	1419
250	M ³ /sec.	0.268	0.335	0.402	0.469	0.536	0.603	0.67
	P_s in mm H_2O	0.19	0.23	0.31	0.39	0.52	0.71	0.86
0.134	Throw in m	5.0-6.8-10	5.6-7.8-11	6.7-8.6-12.1	7.8-9.5-13.3	8.6-10.3-14.4	9.0-11-15.9	9.5-11.9-17.4
	NC	<15	16	21	27	31	35	40
	Cfm	686	857	1029	1200	1372	1543	1715
300	M ³ /sec.	0.324	0.405	0.486	0.567	0.648	0.729	0.81
	P_s in mm H_2O	0.19	0.28	0.33	0.44	0.59	0.78	0.94
0.162	Throw in m	5.3-7.5-10.9	6.2-8.4-11.9	7.3-9.6-13.0	8.4-10.5-14.3	9.2-11.2-15.4	9.6-12.2-17.0	10.2-13-18.6
	NC	<15	18	25	30	33	37	42

• Data based on one meter unit length of the grille with damper in full open position.

- Face velocity is measured in m/sec.
- P_s : Static pressure loss is in mm of H_2O .
- Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- NC based on a room attenuation of 10 dB.

3.14

LINEAR BAR GRILLES

SINGLE DEFLECTION LINEAR BAR REGISTER

15°-2 Way - 12 mm spacing

model: **ARLR/ARLG**

air master ISO 9001 CERTIFIED COMPANY

Nominal							
Width mm							
	Cfm	332	417	500	585	667	750
50	M ³ /sec.	0.157	0.197	0.236	0.276	0.315	0.354
50	P_s in mm H_2O	0.48	0.74	1.07	1.47	1.91	2.41
	NC	<15	18	26	32	36	42
	Cfm	417	500	585	667	750	833
100	M ³ /sec.	0.197	0.236	0.276	0.315	0.354	0.393
100	P _s in mm H ₂ O	0.51	0.71	0.97	1.27	1.6	1.98
	NC	15	20	27	32	35	40
150	Cfm	500	585	667	750	833	1000
	M ³ /sec.	0.236	0.276	0.315	0.354	0.393	0.472
	P _s in mm H ₂ O	0.51	0.69	0.89	1.14	1.40	2.01
	NC	17	22	28	32	34	38
	Cfm	585	667	750	833	1000	1167
200	M ³ /sec.	0.276	0.315	0.354	0.393	0.472	0.551
200	P _s in mm H ₂ O	0.48	0.64	0.81	0.99	1.42	1.91
	NC	16	23	26	32	35	40
	Cfm	667	750	833	1000	1167	1332
250	M ³ /sec.	0.315	0.354	0.393	0.472	0.551	0.629
250	P _s in mm H ₂ O	0.48	0.61	0.74	1.07	1.45	1.9
	NC	19	23	25	31	35	40
	Cfm	750	833	1000	1167	1333	1500
300	M ³ /sec.	0.354	0.393	0.472	0.551	0.629	0.708
300	P _s in mm H ₂ O	0.5	0.64	0.77	1.13	1.52	2.0
	NC	20	25	27	31	38	44

Table 3.4 Air flow data

• Data based on one meter unit length of the grille.

P_s: Static pressure loss is in mm of H₂O.
NC based on a room attenuation of 10 dB.



SINGLE DEFLECTION LINEAR BAR REGISTER 15°-1 Way - 12 mm spacing

LINEAR BAR GRILLES

model: ARLR-1/ARLG-1

Nominal							
Width mm							
	Cfm	332	417	500	585	667	750
	M ³ /sec.	0.157	0.197	0.236	0.276	0.315	0.354
50	P _s in mm H ₂ O	0.46	0.72	1.03	1.42	1.88	2.32
	NC	<15	<18	25	31	31	40
	Cfm	417	500	585	667	750	833
100	M ³ /sec.	0.197	0.236	0.276	0.315	0.354	0.393
100	P _s in mm H₂O	0.48	0.69	0.93	1.20	1.55	1.88
	NC	<15	19	24	31	34	38
150	Cfm	500	585	667	750	833	1000
	M ³ /sec.	0.236	0.276	0.315	0.354	0.393	0.472
	P _s in mm H ₂ O	0.48	0.67	0.86	1.10	1.34	1.92
	NC	15	20	27	31	31	37
	Cfm	585	667	750	833	1000	1167
200	M ³ /sec.	0.276	0.315	0.354	0.393	0.472	0.551
200	P_s in mm H_2O	0.45	0.64	0.78	0.99	1.37	1.85
	NC	17	23	25	30	34	38
	Cfm	667	750	833	1000	1167	1332
250	M ³ /sec.	0.315	0.354	0.393	0.472	0.551	0.629
200	P_s in mm H_2O	0.45	0.59	0.71	1.02	1.36	1.79
	NC	19	22	24	30	33	38
	Cfm	750	833	1000	1167	1332	1500
300	M ³ /sec.	0.354	0.393	0.472	0.551	0.629	0.708
000	P_s in mm H_2O	0.48	0.6	0.74	1.05	1.45	1.8
	NC	19	23	25	30	37	42

Table 3.5 Air flow data

Data based on one meter unit length of the grille.
P_s: Static pressure loss is in mm of H₂O.
NC based on a room attenuation of 10 dB.

3.15

3.16

LINEAR BAR GRILLES

model: ARLR-0/ARLG-0

SINGLE DEFLECTION LINEAR BAR REGISTER 0° - 12 mm spacing



Table 3.6 Air flow data	Table	3.6	Air	flow	data
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Nominal							
Width mm							
	Cfm	332	417	500	585	667	750
50	M ³ /sec.	0.157	0.197	0.236	0.276	0.315	0.354
50	P _s in mm H ₂ O	0.43	0.69	0.99	1.37	1.83	2.23
	NC	<15	17	24	30	33	38
	Cfm	417	500	585	667	750	833
100	M ³ /sec.	0.197	0.236	0.276	0.315	0.354	0.393
100	P _s in mm H ₂ O	0.45	0.66	0.89	1.14	1.48	1.78
	NC	<15	18	23	31	33	36
	Cfm	500	585	667	750	833	1000
150	M ³ /sec.	0.236	0.276	0.315	0.354	0.393	0.472
150	P _s in mm H ₂ O	0.45	0.64	0.81	1.04	1.27	1.83
	NC	15	17	26	28	30	36
	Cfm	585	667	750	833	1000	1167
200	M ³ /sec.	0.276	0.315	0.354	0.393	0.472	0.551
200	P _s in mm H ₂ O	0.43	0.64	0.65	0.91	1.4	1.8
	NC	17	22	24	27	33	37
	Cfm	667	750	833	1000	1167	1332
250	M ³ /sec.	0.315	0.354	0.393	0.472	0.551	0.629
250	P _s in mm H ₂ O	0.43	0.56	0.66	0.94	1.27	1.67
	NC	19	21	23	29	32	36
	Cfm	750	833	1000	1167	1330	1500
300	M ³ /sec.	0.354	0.393	0.472	0.551	0.629	0.708
000	P_s in mm H_2O	0.45	0.58	0.69	0.98	1.32	1.7
	NC	19	22	24	28	36	40

• Data based on one meter unit length of the grille.

P_s: Static pressure loss is in mm of H₂0.
NC based on a room attenuation of 10 dB.



DOUBLE DEFLECTION LINEAR BAR REGISTER 15°-2 Way - 6 mm spacing

LINEAR BAR GRILLES

model: ASLR (S)/ASLG (S)

Table 3.7 Air flow data

Width in mm A _k in m ²	Face Velocity in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Cfm	85	106	127	148	169	190	212
50	M ³ /sec.	0.04	0.05	0.06	0.07	0.08	0.09	0.1
	P_s in mm H_2O	0.16	0.23	0.23	0.28	0.36	0.45	0.59
0.02	Throw in m	2.8-4.2-5.8	3.6-4.5-6.3	4.3-5.3-7.2	4.6-5.6-7.9	5.1-6.0-8.4	5.4-6.4-9.0	5.4-6.6-9.4
	NC	<15	<15	<15	18	24	28	33
	Cfm	148	186	222	260	296	335	370
100	M ³ /sec.	0.07	0.088	0.105	0.123	0.14	0.158	0.175
	P_s in mm H_2O	0.16	0.23	0.23	0.33	0.44	0.58	0.7
0.035	Throw in m	3.6-4.8-7.3	4.2-5.5-7.9	4.9-6.3-8.6	5.6-6.5-9.2	6.0-7.4-10.0	6.4-8.11	6.7-8.4-11.9
	NC	<15	<15	17	20	25	29	34
	Cfm	224	282	337	394	449	504	561
150	M ³ /sec.	0.106	0.133	0.159	0.186	0.212	0.238	0.261
	P _s in mm H ₂ O	0.16	0.23	0.28	0.4	0.52	0.66	0.82
0.053	Throw in m	4.2-5.8-8.4	4.8-6.3-9.2	5.6-7.2-10.3	6.3-7.9-10.8	7.0-8.8-11.8	7.4-9.4-12.8	7.8-9.8-13.5
	NC	<15	<15	17	20	27	30	35
	Cfm	284	356	426	498	567	639	709
200	M ³ /sec.	0.134	0.168	0.201	0.235	0.268	0.302	0.335
	P_s in mm H_2O	0.22	0.25	0.34	0.43	0.6	0.75	1.05
0.067	Throw in m	4.7-6.4-9.2	5.5-7-10.3	6.5-8.2-11.6	7.2-8.6-12.2	8-9.7-13.0	8.4-10.4-14	8.9-10.9-15.2
	NC	<15	<15	18	23	29	34	39
	Cfm	360	451	540	631	720	811	900
250	M ³ /sec.	0.17	0.213	0.255	0.298	0.34	0.383	0.425
	P_s in mm H_2O	0.22	0.27	0.37	0.48	0.66	0.86	1.08
0.085	Throw in m	5.1-7-10.3	5.7-7.9-11.2	6.9-8.8-12.2	7.9-9.5-13.2	8.8-10.4-14.4	9.0-11-15.4	9.4-11.9-16.6
	NC	15	17	23	28	35	39	42
	Cfm	436	546	654	764	872	982	1090
300	M ³ /sec.	0.206	0.258	0.309	0.361	0.412	0.464	0.515
	P _s in mm H ₂ O	0.22	0.34	0.40	0.52	0.72	0.96	1.17
0.103	Throw in m	5.4-7.7-11.2	6.4-8.6-12.2	7.6-9.8-13.2	8.5-10.6-14	9.4-11.4-15.4	9.7-12.1-16.5	10-12.9-18
	NC	15	19	27	31	37	40	45

• Data based on one meter unit length of the grille with damper in full open position.

- Face velocity is measured in m/sec.
- P_s : Static pressure loss is in mm of H_2O .
- Throw (meters) is measured for a terminal velocities of 0.75, 0.5 & 0.25 m/sec.
- NC based on a room attenuation of 10 dB.

3.18

LINEAR BAR

GRILLES

SINGLE DEFLECTION LINEAR BAR REGISTER

model: ARLR (S)/ARLG (S) 15°-2 Way - 6 mm spacing



Table 3.8 Air flow data

Nominal							
Width mm							
	Cfm	170	213	255	298	340	382
50	M ³ /sec.	0.08	0.101	0.12	0.141	0.161	0.18
50	P_s in mm H_2O	0.5	0.78	1.12	1.57	2.04	2.3
	NC	17	20	29	35	39	45
	Cfm	247	296	347	395	445	494
100	M ³ /sec.	0.117	0.139	0.164	0.187	0.21	0.233
100	P_s in mm H_2O	0.54	0.75	1.02	1.36	1.7	2.13
	NC	17	22	30	35	38	44
	Cfm	340	398	454	510	566	680
150	M ³ /sec.	0.161	0.188	0.214	0.241	0.267	0.321
150	P_s in mm H_2O	0.54	0.72	0.93	1.22	1.5	2.17
	NC	19	24	31	35	37	42
	Cfm	404	461	518	576	691	806
200	M ³ /sec.	0.191	0.218	0.245	0.272	0.326	0.381
200	P _s in mm H ₂ O	0.51	0.67	0.85	1.06	1.52	2.06
	NC	18	25	29	35	38	44
	Cfm	487	548	608	730	852	972
250	M ³ /sec.	0.23	0.259	0.287	0.345	0.402	0.459
200	P _s in mm H ₂ O	0.51	0.64	0.78	1.15	1.55	2.05
	NC	21	25	28	34	39	44
	Cfm	570	633	760	887	1013	1140
300	M ³ /sec.	0.269	0.299	0.359	0.419	0.478	0.538
000	P_s in mm H_2O	0.53	0.67	0.81	1.21	1.63	2.16
	NC	22	27	30	34	42	47

• Data based on one meter unit length of the grille.

P_s: Static pressure loss is in mm of H₂O.
NC based on a room attenuation of 10 dB.



DOUBLE SECURITY BAR REGISTER

SECURITY GRILLES

model: AMSR-D

CONSTRUCTION:

Frame: Heavy gauge high quality extruded aluminium profile with 30 mm flange width as standard.

Face bars: Heavy gauge extruded aluminium profiles of 0°, 15°-1 way throw and 15°-2 way throw. Steel bars are available as option.

Bar spacing: 12 mm.

Damper frame and blades: High quality extruded aluminium profiles with natural aluminium finish. Black matt finish as option.

Standard finishes:

- Anodised finish.
- Powder coated as per RAL color codes.

Description:

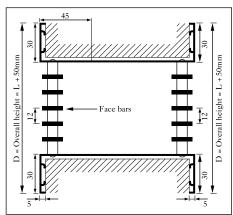
- Frame and face bars are of high quality extruded aluminium profiled construction with the advantages of corrosion resistance and rigidity.
- Horizontal face bars with 0°, 15°-1 way throw and 15°-2 way throw are fixed rigidly to the frame with steel rods welded to the main frame.
- Optional vertical aluminium aerofoil blades are fixed at the rear side of the frame by nylon bushings.
- Opposed blade damper is fixed to the main frame.

- Wall sleeves are made of heavy gauge galvanized steel.
- Security grilles are used in areas such as prisons, hospitals and production plants where security is of main concern.

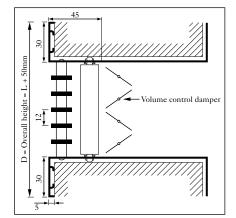


Fixing:

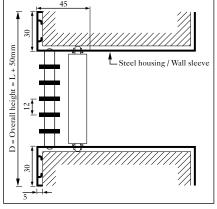
- Rivet fixing to the wall sleeve.
- Special damper proof screw fixing.



Model: AMSG-D Double security bar grille with steel housing.



Model: AMSR-S Single security bar grille with volume control damper and steel housing.



Model: AMSG-S Single security bar grille with steel housing.

model: **AMPSG**

MAXIMUM SECURITY PERFORATED GRILLE



CONSTRUCTION:

Frame: Resistant steel sheet of 4.5 mm thick with welded corners.

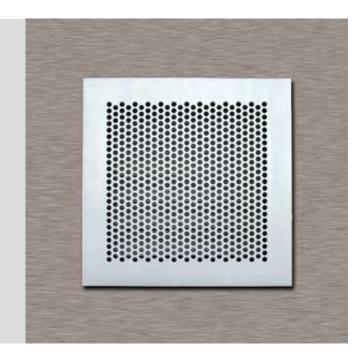
Perforated Panel: 4.5 mm thick galvanised perforated steel sheet with 8 mm holes.

Sleeves: Wall sleeves are made of galvanised steel.

OPTIONAL FEATURES:

Damper Frame: Galvanised steel sheet.

Damper Core: High quality extruded aluminium profile with natural aluminium finish and black matt finish.



Description:

- Frame is constructed from 4.5 mm thick resistant steel and all sides welded with 4.5 mm thick perforated panel having 8 mm diameter holes. Whole structure is hot dip galvanised with the advantages of corrosion resistance.
- Security grilles are specially designed for maximum security prisons in order to secure the ventilation openings and provide proper air transfer for the facilities.
- The design prevents the inmates from using the grille to commit suicide
- Available with flanged edges and are supplied without fixing holes as standard.
- Available in square and rectangular sizes.

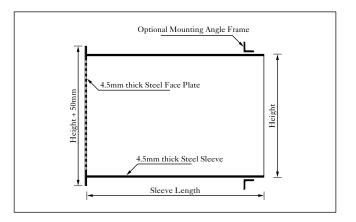
Standard finishes:

- Hot dip galvanised.
- Powder coated as per RAL color codes.

Fixing:

- 40mm x40mm x 4mm angle frame loose supplied to be field welded on sleeve.
- Rivet fixing to the wall sleeve.
- Special damper proof screw fixing.







MAXIMUM SECURITY PERFORATED GRILLE

SECURITY GRILLES

model: AMPSG

Air flow data

Neck size in mm									
Area factor in m ²									
	Cfm	33	44	55	77	88	99	110	121
150x150	M³/sec.	0.016	0.021	0.026	0.036	0.041	0.047	0.052	0.057
	Face velocity in m/sec	1.5	2.0	2.5	3.5	4.0	4.5	5.0	5.5
	P_{T} in mm $H_{2}O$	0.289	0.531	0.820	1.182	1.592	2.076	2.630	3.257
0.0748	Throw in m	1.1-3.7	2.3-4.9	3.1-6.0	3.7-6.6	4.3-7.2	4.9-7.8	5.5-8.1	6.0-8.6
	NC	<15	<15	<15	15	20	22	26	30
	Cfm	64	86	107	128	150	172	193	214
200x200	M³/sec.	0.030	0.040	0.050	0.060	0.071	0.081	0.091	0.101
	Face velocity in m/sec	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	P_{τ} in mm $H_{p}O$	0.265	0.483	0.748	1.086	1.496	1.930	2.461	3.040
0.1454	Throw in m	1.4-4.6	2.6-6.3	4.0-7.8	4.6-8.9	5.5-9.5	6.3-10.4	6.9-11.0	7.8-11.5
	NC	<15	<15	15	18	20	22	25	30
	Cfm	166	221	276	331	386	442	497	552
300x300	M³/sec.	0.078	0.104	0.130	0.156	0.182	0.209	0.234	0.260
	Face velocity in m/sec	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	P_{T} in mm $H_{2}O$	0.241	0.434	0.676	0.989	1.327	1.737	2.219	2.726
0.3724	Throw in m	2.0-6.6	3.4-8.9	5.5-11.2	6.6-13.3	7.8-14.4	8.9-15.3	10.1-16.5	11.2-17.3
	NC	<15	<15	<15	16	19	24	26	30
	Cfm	284	426	568	712	853	996	1137	1280
450x450	M³/sec.	0.134	0.201	0.268	0.336	0.403	0.470	0.537	0.604
	Face velocity in m/sec	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
	P_{T} in mm $H_{2}O$	0.217	0.386	0.627	0.893	1.206	1.568	2.0	2.461
0.9538	Throw in m	2.6-9.8	4.6-13.0	7.2-16.2	9.8-19.4	11.0-21.7	13.0-23.1	14.7-24.6	16.2-26.0
	NC	<15	<15	16	19	23	27	30	32
	Cfm	365	545	727	908	1090	1270	1453	1635
500x500	M ³ /sec.	0.172	0.257	0.343	0.428	0.514	0.599	0.686	0.772
	Face velocity in m/sec	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
	P_{T} in mm $H_{2}O$	0.217	0.374	0.603	0.856	1.158	1.520	1.929	2.376
1.223	Throw in m	2.9-11.3	5.1-14.9	8.1-18.7	11.3-22.3	12.9-25.3	14.9-27.0	16.8-28.7	18.7-30.4
	NC	<15	<15	16	18	24	29	32	35
	Cfm	554	835	1113	1390	1667	1944	2225	2502
600×600	M ³ /sec.	0.261	0.394	0.525	0.656	0.787	0.917	1.050	1.180
	Face velocity in m/sec	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
	P_{T} in mm $H_{2}O$	0.217	0.362	0.579	0.820	1.110	1.472	1.858	2.292
1.9266	Throw in m	3.1-12.7	5.7-16.7	8.9-21.1	12.7-25.1	14.7-28.9	16.7-30.9	18.8-32.7	21.1-34.7
	NC	<15	<15	15	20	25	30	34	38
750x750	Cfm	939	1406	1871	2337	2810	3276	3741	4208
	M ³ /sec.	0.443	0.663	0.883	1.103	1.326	1.546	1.766	1.986
	Face velocity in m/sec	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
	P_{T} in mm $H_{2}O$	0.217	0.302	0.509	0.715	1.090	1.372	1.768	2.182
3.184	Throw in m	3.6-14.9	6.7-19.6	10.4-24.8	14.9-29.5	17.2-34.0	19.6-36.3	22.1-38.5	25.0-40.8
	NC	<15	<15	16	22	27	31	35	40

- Neck size measured in mm.
- P_{T} Total pressure loss is in mm of $H_{2}O$.
- Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec.
- Noise criteria (NC) is based on a room attenuation of 10 dB.

FLOOR GRILLES



CONSTRUCTION:

Frame: Heavy gauge high quality extruded aluminium profile.

LIGHT DUTY

FLOOR GRILLE

Face bars: 6 mm thick high quality aluminium bars with 12 mm pitch.

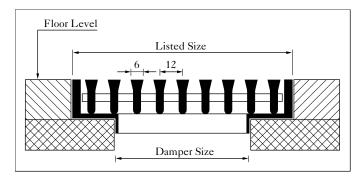


Description:

- 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°-1 way deflection.

Standard finishes:

• Powder coated as per RAL color codes.





American University, Sharjah





LIGHT DUTY FLOOR GRILLE

model: AFG-L

FLOOR

GRILLES

Air flow data

Width in mm	Face Velocity							
A _f in m ²	in m/sec.	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	Cfm	89	111	133	156	178	200	222
50	M ³ /sec.	0.042	0.053	0.063	0.074	0.084	0.095	0.105
	P _s in mm H ₂ 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
	Cfm	225	281	337	393	449	505	561
100	M ³ /sec.	0.106	0.133	0.159	0.186	0.212	0.239	0.265
	P _s in mm H ₂ 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
	Cfm	347	434	521	608	695	782	868
150	M ³ /sec.	0.164	0.205	0.246	0.287	0.328	0.369	0.41
	P_s in mm H_2O	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
	Cfm	483	604	724	845	966	1087	1207
200	M ³ /sec.	0.228	0.285	0.342	0.399	0.456	0.513	0.57
	$P_s in mm H_2O$	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
	Cfm	602	752	902	1053	1203	1353	1504
250	M ³ /sec.	0.284	0.355	0.426	0.497	0.568	0.639	0.71
	P_s in mm H_2O	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
	Cfm	724	905	1087	1268	1449	1630	1811
300	M ³ /sec.	0.342	0.428	0.513	0.598	0.684	0.77	0.855
	P_s in mm H_2O	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.

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• Face velocity is measured in m/sec.

P_s - Static pressure loss is in mm of H₂O.
Throw (meters) is measured for a terminal velocities of 0.5 & 0.25 m/sec.

• Noise criteria (NC) based on a room attenuation of 10 dB.

FLOOR GRILLES

HEAVY DUTY FLOOR GRILLE



CONSTRUCTION:

Frame: Heavy gauge high quality extruded aluminium profile 4 mm thick, flange width 40 mm.

Face bars: 60 mm 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 40 mm x 4 mm has to be provided around the grille, in the floor to install the grill flush with the floor (or) carpet level.

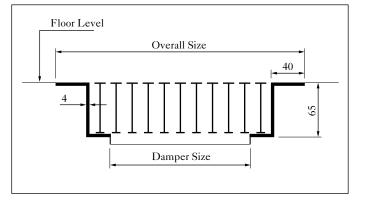
Standard finishes:

• Powder coated as per RAL color codes.

Grille size 600x600 mm (Overall size)

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

- Data based on 600 x 600 mm grille.
- Face velocity is measured in m/sec.
- Noise criteria (NC) is based on room attenuation of 10 dB.



3.24



HEAVY DUTY FLOOR GRILLE-SS

GRILLES

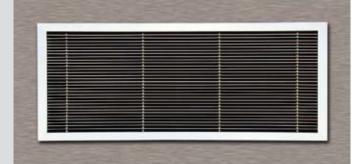
FLOOR

model: AFG-H (SS)

CONSTRUCTION:

Frame: SS 304 grade.

Face bars: 3 mm thick SS 304 grade bars with 12 mm spacing as standard.6 mm spacing as optional for damper proof applications.

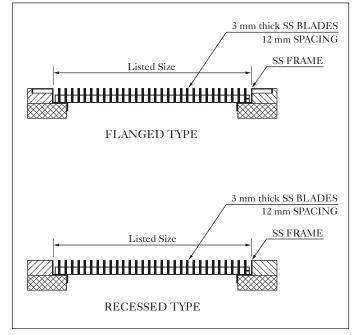


Description:

- Application: Computer/server rooms, hospitals, telecommunication, food industries, oil and gas industries, airports, gymnasiums, kitchen and public areas.
- Structure is robustly designed and constructed with face bars positioned in the frame to withstand heavy loads.
- Face bars with 0° deflection is assembled and supported by heavy duty SS rod. The assembled core is removable to enable inspection, cleaning and maintenance.
- Flush type construction enables easy installation and gives even finish with the floor levels.
- Fixed core assembly is also available where in the core is welded to the frame. The frame can be connected to the plenum or support frames using screws.
- Standard sizes available are 600 mm x 600 mm for tile replacement. Custom sizes available on request according to corresponding floor levels and plenum depths.

Standard finishes:

• Standard SS finish, polished or brush finish.





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