



GRILLES & LOUVRES

LINEAR BAR GRILLE



The information given in this document is based on data and knowledge correct at the time of printing. Data is subject to change without prior notice for continual product improvement. Applications or installations outside general guidelines and code of practice are beyond our product performance guarantees.

LINEAR BAR GRILLE

GLB

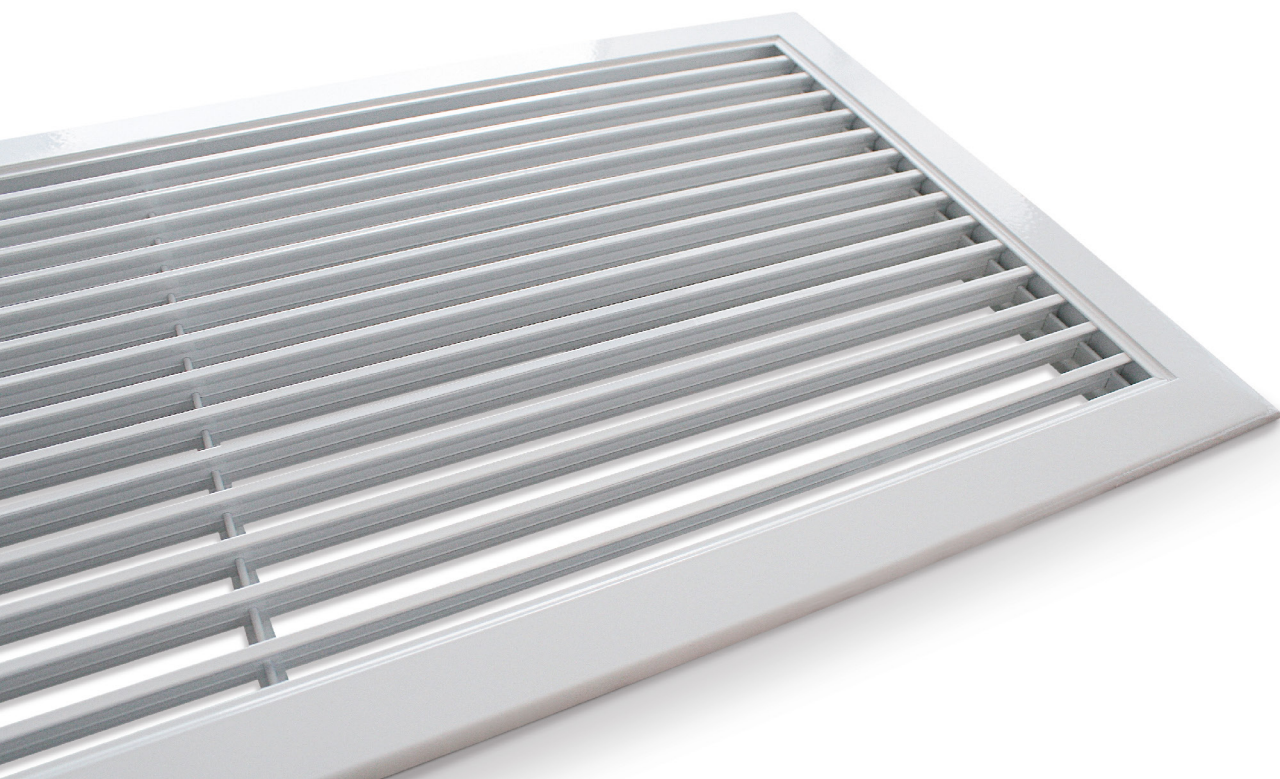
Different requirements and designs expect different grilles application. Properly selected grilles will operate satisfactorily from high side wall and perimeter at the sill, curb or floor. ADF Linear Bar Grilles are commonly used in these applications due to its robust construction, neat appearance and efficient air delivery.

DESIGN & CONSTRUCTION

ADF Linear Bar Grilles are available in 2 main designs, Heavy Duty Extruded Aluminium mandrel tube with solid flat bars, High Quality Aluminium fixed bar for linear and clean look. All flat bars are fixed at 0° deflection and further enhanced with frame or without frame. They are suitable for supply and extract air system and commonly used in computer rooms and any raised-floor office environments.

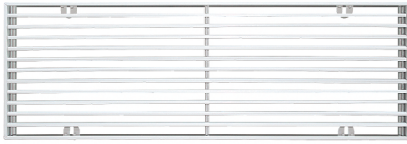
FEATURES

- Neat, crisp and smart appearance to meet requirement.
- Efficient air distribution.
- Heavy duty and robust with reinforced round tubes.
- Suitable for high traffic areas of raised-floor installations.
- Natural anodised or oven-baked paint finished.

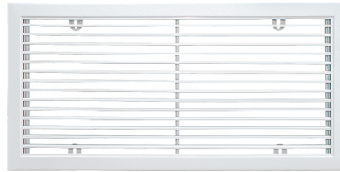


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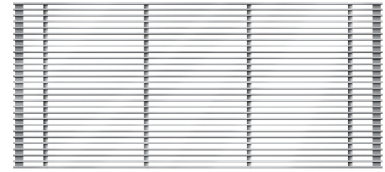
Model GLB



Model GLB



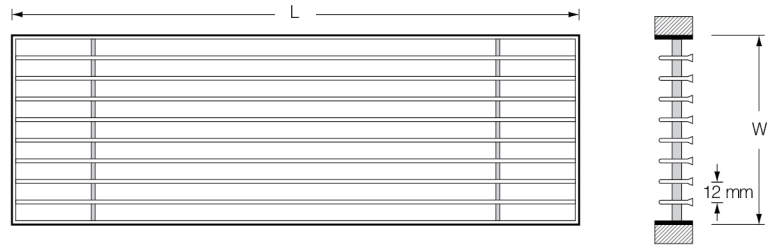
Model GLB-F



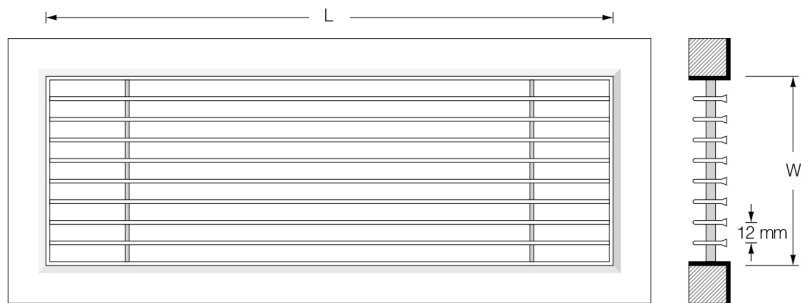
Model GLB-HD

PHYSICAL DIMENSION

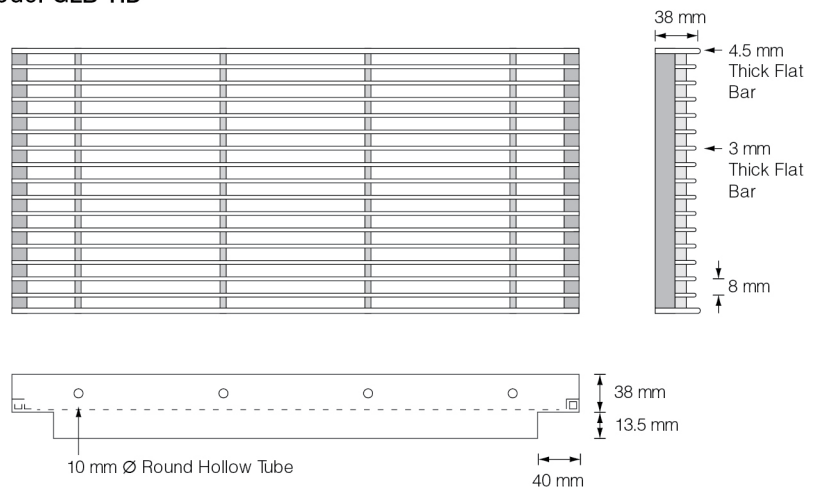
Model GLB



Model GLB-F



Model GLB-HD



LINEAR BAR GRILLE

Model GLB

PERFORMANCE DATA - Supply Air GLB, GLB-F

Inlet Velocity, m/s		2.0	2.5	3.0	3.5	4.0	4.5	5.0
Grille Size W x L mm	ΔP							
	Pa	2.5	4	5.5	8	10	13	16
50 x 1000	Air, l/s	28	35	42	49	56	63	70
	V/H Throw, M	0.5/2	0.7/2.5	1/3	1.5/3.2	2/3.5	2.5/3.7	3/4
	NR	<10	<10	<10	<10	<10	11	14
100 x 1000	Air, l/s	82	103	124	144	164	185	206
	V/H Throw, M	1/2.5	1.5/3	2.5/4	3/4.5	4/5	4.5/5.8	5/6.5
	NR	<10	<10	<10	11	13	15	18
150 x 1000	Air, l/s	138	172	206	240	276	310	344
	V/H Throw, M	1.5/3.5	2.2/4.3	3/5	3.5/5.5	4.5/6	5.3/6.8	6/7.5
	NR	<10	<10	11	15	19	22	25
200 x 1000	Air, l/s	165	207	250	290	330	373	415
	V/H Throw, M	3/5	3.7/5.5	4.5/6	5.1/6.8	6/7.5	6.5/8.3	7/9
	NR	11	14	18	21	23	25	28
250 x 1000	Air, l/s	220	275	330	385	440	495	548
	V/H Throw, M	4/6	5/6.8	6/7.5	6.5/8.3	7/9	7.5/9.5	8/10
	NR	15	18	21	24	26	29	31
300 x 1000	Air, l/s	275	340	410	480	550	618	685
	V/H Throw, M	5.5/7.5	6.2/8.3	7/9	7.5/9.5	8/10	8.5/11	9/12
	NR	18	21	23	26	28	30	33

PERFORMANCE DATA - Return Air GLB, GLB-F

Inlet Velocity, m/s		2.0	3.0	4.0	5.0
Grille Size W x L mm	Negative ΔP				
	Pa	2.4	4.8	9	13.6
50 x 1000	Air, l/s	28	42	56	70
	NR	<10	<10	<10	10
100 x 1000	Air, l/s	82	124	164	206
	NR	<10	<10	<10	14
150 x 1000	Air, l/s	138	206	276	344
	NR	<10	<10	15	21
200 x 1000	Air, l/s	165	250	330	415
	NR	<10	14	19	24
250 x 1000	Air, l/s	220	330	440	548
	NR	11	17	22	27
300 x 1000	Air, l/s	275	410	550	685
	NR	14	19	24	29

LINEAR BAR GRILLE

Model GLB

PERFORMANCE DATA - Supply Air GLB-HD

Inlet Velocity, m/s		2.0	2.5	3.0	3.5	4.0	4.5	5.0
Grille Size W x L mm	ΔP Pa	3	4.4	6	8.5	11	14	17
50 x 600	Air, l/s	18	22	26	31	35	40	44
	V/H Throw, M	0.25/1.7	0.6/2.2	1.0/2.7	1.2/3.2	1.5/3.6	1.9/4	2.2/4.5
	NR	<10	<10	<10	10	12	15	18
100 x 600	Air, l/s	46	58	69	80	93	104	115
	V/H Throw, M	0.7/2.7	1.2/3.3	1.9/3.9	2.5/4.5	3.2/4.9	3.6/5.5	3.9/6.1
	NR	<10	<10	<10	13	16	18	22
150 x 600	Air, l/s	74	92	109	128	146	164	183
	V/H Throw, M	1.2/3.2	1.8/3.9	2.4/4.6	3.1/4.2	3.7/5.7	4.0/6.3	4.4/6.8
	NR	<10	<10	10	14	18	21	24
200 x 600	Air, l/s	115	143	172	202	233	260	288
	V/H Throw, M	2.1/4.5	2.8/5	3.5/5.5	3.8/6	4.2/6.5	4.9/7.5	5.5/8
	NR	10	13	16	20	23	26	28
250 x 600	Air, l/s	147	185	222	258	295	333	370
	V/H Throw, M	3/5.5	3.7/6	4.5/6.5	5/7.5	5.5/8	5.7/8.5	6/9
	NR	16	18	21	24	26	28	31
300 x 600	Air, l/s	185	228	272	319	365	411	457
	V/H Throw, M	4/6	4.7/7	5.5/8	5.7/8.5	6/9	6.5/9.8	7/10.5
	NR	21	24	27	29	31	32	33

PERFORMANCE DATA - Return Air GLB-HD

Inlet Velocity, m/s		2.0	3.0	4.0	5.0
Grille Size W x L mm	Negative ΔP Pa	2.4	4.8	9	13.6
50 x 600	Air, l/s	18	26	35	44
	NR	<10	<10	<10	14
100 x 600	Air, l/s	46	69	93	115
	NR	<10	<10	12	18
150 x 600	Air, l/s	74	109	146	183
	NR	<10	<10	14	20
200 x 600	Air, l/s	115	172	233	288
	NR	<10	12	19	24
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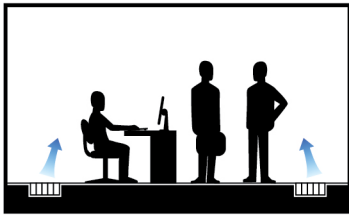
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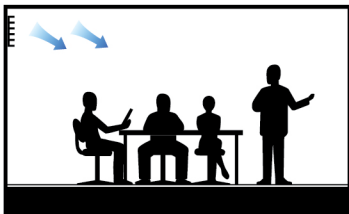
OPTIONAL PATTERNS

Please furnish plan view with dimensions when order

APPLICATIONS GUIDE



Floor Mounting



Sidewall Mounting



Sill Mounting

