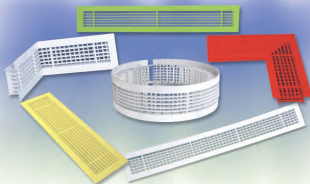


LINEAR BAR GRILLES



- | | |
|-------------|---|
| SLBG | Supply Linear Bar Grille
(Double Deflection Without Damper) |
| SLBR | Supply Linear Bar Register
(Double Deflection With Damper) |
| RLBG | Return Linear Bar Grille
(Single Deflection without Damper) |
| RLBR | Return Linear Bar Register
(Single Deflection With Damper) |



FAISAL JASSIM INDUSTRIES (L.L.C.)

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APPLICATIONS

FLOWTECH Linear Bar (LB) is a side wall grille with a combination of fixed profile front horizontal blades and optional adjustable vertical rear blades.

With its high capacity as well as its pleasant aesthetic appearance FLOWTECH Linear Bar Grilles & Registers are commonly used along sides of relatively large spaces with double void areas such as Domes, Open Lobbies, Malls, Atriums and Buildings Entrances, where both aesthetics and high capacity air volumes are required.

For this purpose FLOWTECH LBG / LBR can be supplied in both straight and curved shapes to suit the interior geometry of the served space.

FLOWTECH Linear Bars can also be used as conventional supply and return grilles, or combination. Thereof, blind dummy segments can be ordered to integrate the decorative outlook of the whole wall.

Opposed Blades Dampers are supplied by FLOWTECH to achieve precise control over air flow volume. OBD is used for fine tuning of air flow volumes and should not be used as branch volume control damper.

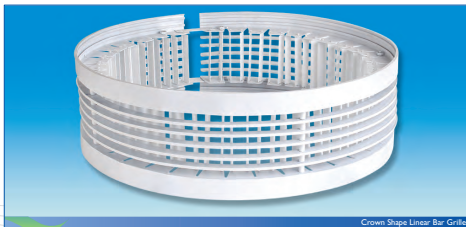
In FLOWTECH SLBR & SLBG, vertical rear blades are used for directional air flow control. Typically these blades can be adjusted to achieve the required air distribution pattern.



Double Deflection Linear Bar Grille (SLBG)



Single Deflection Linear Bar Grille (RLBG)



Crown Shape Linear Bar Grille

PRODUCTS FEATURES

Material:

- Frame and bar blades are made of extruded aluminum alloy 6063 to T6 Heat Treatment.
- The Opposed Blades Damper is also extruded aluminum alloy 6063/T6.

Bar Blade Deflection:

The front bar blade is supplied in one of three configurations:

1. Zero Deflection Arrangement: (Standard)
No deflection to air flow direction



2. Single Deflection Arrangement:
The air flow is deflected 15-Deg to one side



3. Double Deflection Arrangement:
The air flow is deflected 15-Deg to both sides of grille



Standard Widths:

Linear Bar Grilles / Registers can be supplied in any of the following standard widths

- 100 mm (4-inches)
- 150 mm (6-inches)
- 200 mm (8-inches)
- 250 mm (10-inches)
- 300 mm (12-inches)

Non-standard sizes can be ordered to the designer specifications

Opposed Blades Damper (OBD):

FLOWTECH OBD is fixed to the rear frame of LBR by means of "S" clamp for ease of removal and rigid construction.

To adjust the OBD opening, turn the adjustment screw available at the front face of the register (Clockwise to Open / Counter Clockwise to Close).

Curved Segments:

Curved Segments are available for both sidewall curves (CS) and ceiling curves (CP), with minimum radius of curvature of 1000mm.

For special installations, our technician can visit the project site and take actual measurements to ensure a perfect fit.

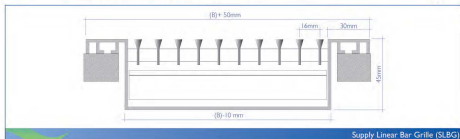


DOUBLE DEFLECTION LINEAR BAR GRILLE & REGISTER - SLBG & SLBR

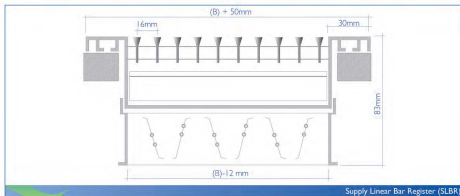


(Supply Linear Bar Grille (Double Deflection

(SLBG)



Supply Linear Bar Grille (SLBG)



Supply Linear Bar Register (SLBR)

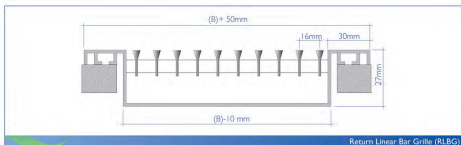
Product Features:

- The double deflection linear grille is a wall mounted supply grille used in cooling, heating or air ventilation applications.
- Front blade width is 4mm as standard construction. Special construction can also be manufactured as per customer's requirement.
- The double deflection linear grille is composed of a set of fixed horizontal straight bars in the front face and individually adjustable vertical deflectors in the rear to control air flow pattern. Both are manufactured from extruded Aluminium sections.

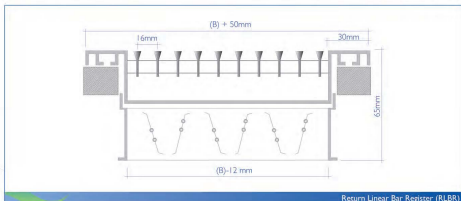
SINGLE DEFLECTION LINEAR BAR GRILLE & REGISTER - RLBG & RLBR



Return linear Bar Grill (Single Deflection)



Return Linear Bar Grille (RLBG)



Return Linear Bar Register (RLBR)

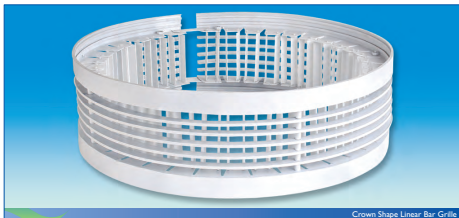
Product Features:

- The single deflection linear grille is a wall mounted grille, used as an exhaust or return grille in cooling, heating or air ventilation applications.
- The single deflection linear grille is composed of a

set of fixed horizontal straight bars attached to a frame, both are manufactured from extruded aluminium sections.

- Blade width is 4mm as standard construction. Special construction can also be manufactured as per customers requirements.

CROWN SHAPE LINEAR BAR GRILLE



Crown Shape Linear Bar Grille

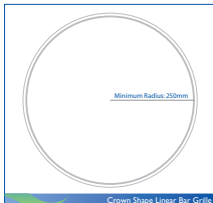
Product Features:

- Crown linear grille is a short radius curved linear grille, especially manufactured to suite the crown head or bottom of circular columns with a minimum radius at 250mm.
- The crown linear grille can be used as supply grille, return grille, dummy grille, or combination thereof.
- The crown linear grille has the same performance characteristics as linear grille with length modified as:

$$L_{\text{effective}} = 2 \cdot (r - 0.05)$$

where, r = curvature radius in meters

L_{eff} = equivalent length in meters.

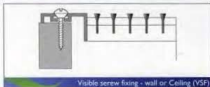


Crown Shape Linear Bar Grille

MOUNTING / FINISH OPTIONS

Available in Powder Coated RAL 9010 or 9016 as standard color

- Other powder coated finishes are available on request
- Fixings options are Concealed Spring Fixing(CSF) or Visible Screw Fixing (VSF)



ACCESSORIES

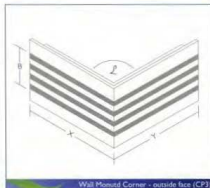
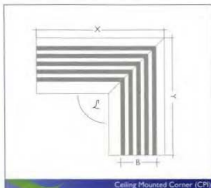
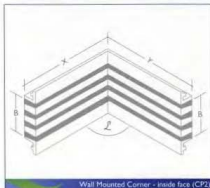
CORNER PIECE (CPI/CP2/CP3)

Corner Pieces are available for all standard sizes. Contact your local supplier for site measurements.

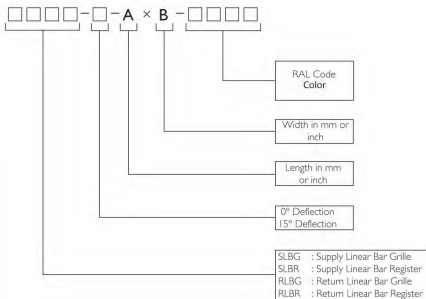
CORNER PIECES

Available in any combination of B,X,Y & \angle

B (mm)	X (mm)	Y (mm)	\angle (degree)
100	300	300	45
150	600	600	90
200	800	800	135
250	1000	1000	
300	1200	1200	



ORDERING SYSTEM



ORDERING EXAMPLE

SLBR-0-1200mm x 300mm - 9016

Stands for Supply Linear Bar Register 0° angle deflection, and with opposed blade damper 200mm wide, and 1200mm long, with powder coated RAL 9016

For Curved Segments, remark of curvature and plan of curvature shall be included in order. (Contact your Local Supplier for actual on-site measurements).



GENERAL NOTES

Pages onwards give performance data for all models and variants, and unless otherwise stated the following general notes apply:

- 1 Throws shown are to three terminal velocity of 0.25m/s, 0.5m/s, 0.75m/s, (50fpm, 100fpm, 150fpm) with supply air at conditions with max $\Delta T=10K$ cooling.
- 2 For standard room height of 2.75 metres, throws should be taken as the distance to the nearest wall (minimum plan dimension, MPD).
- 3 To avoid air flow 'dumping' on cooling cycles at the grille core. It is advisable to ensure that neck velocities do not drop below 0.75m/s, (150fpm).
- 4 The acoustical data were tested in accordance to ASHRAE 70-1991 standard. The octave band sound power levels obtained were plotted to determine the point of tangency with the highest rank Noise Criteria curve (NC) to establish the NC. Noise Criteria ratings were determined by subtracting room absorption of 10dB from the sound power level data.

- 5 NC, and Pressure values shown, are based on a linear bar register complete unit with an opposed blade damper in the fully open position for the supply register and without damper for the return linear bar grille. The damper should only be used for fine balancing, as for every doubling of pressure there is a resulting increase in the noise level of +9dB for supply, or +5dB for exhaust.
- 6 Models with reduced necks.
There is a 'dilution effect' on performance for these models, as the air tends to spread behind the core, reducing throws by up to 20%, depending on the relationship between the neck size and the base diffuser size. For more information please check with the factory.
- 7 The following tables include the results of tests conducted on samples of air terminals. The test results include Noise Criteria (NC), static pressure versus air flow, throw and effective area. Extrapolation was used to obtain the performance for other sizes and other parameters within the range of products mentioned above.
Test method included in ETL report.

ETL TEST REPORTS

Intertek ETL SEMKO

Intertek
3901 U.S. Rd
Corona, CA 92606
Phone: 407-759-4000
Fax: 407-759-4000

Order No. 3060712
REPORT NO: 3060712-001

September 13, 2004

STATIC PRESSURE, SOUND POWER LEVEL, AREA FACTOR AND THROW PATTERN TESTS ON A DOUBLE DEFLECTION SUPPLY LINEAR BAR GRILLE

RENDERED TO:
FLOWTECH
PO BOX 1871
DUBAI, UAE

INTRODUCTION:
This report gives the results of tests conducted on a size 1000 x 250mm, double deflection supply linear bar grille. The test results include Static Pressure, Area Factor, Throw Pattern and Sound Power Level. The sample was selected and applied to the client and received at the laboratory on August 3, 2004. The grille appeared to be in new unused condition upon receipt.

AUTHORIZATION:
Purchase Order No. 02-02-04, dated July 27, 2004 from Faisal Jumeir Trading Co. (L.L.C.)

TEST METHOD:
The grille was tested in accordance with the ASHRAE 70-1991 Standard Acoustical Method of Testing for Rating the Performance of Air Outlets and Inlets. The unit was installed in the facility and supplied with measured volumes of air. The static pressure was measured 150 duct diameters upstream of the grille inlet.

An independent organization testing air flow performance and acoustics.

Intertek ETL SEMKO

Intertek
3901 U.S. Rd
Corona, CA 92606
Phone: 407-759-4000
Fax: 407-759-4000

Order No. 3060712
REPORT NO: 3060712-004

September 13, 2004

STATIC PRESSURE, SOUND POWER LEVEL, AREA FACTOR AND THROW PATTERN TESTS ON A DOUBLE DEFLECTION SUPPLY LINEAR BAR GRILLE

RENDERED TO:
FLOWTECH
PO BOX 1871
DUBAI, UAE

INTRODUCTION:
This report gives the results of tests conducted on a size 1000 x 250mm, double deflection supply linear bar grille. The test results include Static Pressure, Area Factor, Throw Pattern and Sound Power Level. The sample was selected and applied to the client and received at the laboratory on August 5, 2004. The grille appeared to be in new unused condition upon receipt.

AUTHORIZATION:
Purchase Order No. 02-02-04, dated July 27, 2004 from Faisal Jumeir Trading Co. (L.L.C.)

TEST METHOD:
The grille was tested in accordance with the ASHRAE 70-1991 Standard Acoustical Method of Testing for Rating the Performance of Air Outlets and Inlets. The unit was installed in the facility and supplied with measured volumes of air. The static pressure was measured 150 duct diameters upstream of the grille inlet.

An independent organization testing air flow performance and acoustics.



PERFORMANCE DATA - SI UNITS

SYMBOLS

L/Sec	:Air volume in litres per second.
Af	:Effective free area in square meters / per Lm.
Vf	:Face velocity in meters per second.
Ak	:Neck area in square meters / per Lm.
Vk	:Neck velocity in meters per second.
Pt	:Total pressure in pascal.
Th	:Throw in meters.
NC	:Noise Criteria.

NOTES

- The large throw values are based on the minimum terminal velocity of 0.25 m/sec.

Notes:

- The middle throw values are based on the medium terminal velocity of 0.50 m/sec.
- The small throw values are based on the maximum terminal velocity of 0.75 m/sec.

CONDITIONS

- Supply or Return as indicated.
- Noise Criteria values are based on (10 dB) room attenuation.
- Damper is fully open.
- Maximum room height = 4.0m
- Maximum Cooling @ $\Delta T = 10K$
- Correction on noise criteria NC
 - L = 1000mm correction + 0 dB
 - L = 2000mm correction + 3 dB
 - L = 3000mm correction + 5 dB

SUPPLY AIR LINEAR GRILLES & REGISTERS - SLBG & SLBR

0° DEFLECTION BLADES


SI-UNITS


WIDTH (mm)	AIR FLOW (L/s) / LM	NECK VELOCITY (m/s)	FACE VELOCITY (m/s)	P1(Pa)	THROW @ (0.25/0.5/0.75)m/s	NC
75	50	0.59	0.87	4	4.96 2.95 2.22	<15
	100	1.17	1.73	6	6.32 3.84 2.86	<15
	150	1.76	2.59	7	7.18 5.77 4.13	<15
	200	2.34	3.46	10	7.94 5.86 4.61	20
	250	2.94	4.25	15	8.82 6.41 5.04	27
	300	3.51	5.19	19	9.92 7.03 5.47	32
	350	4.1	6.05	25	10.96 7.65 5.63	36
	50	0.56	0.82	2	4.8 2.9 2	<15
	100	1.11	1.64	4	6 3.9 2.9	<15
	150	1.67	2.46	7	6.8 4.7 3.5	<15
100	200	2.22	3.28	11	7.7 5.4 4.2	<15
	250	2.78	4.01	16	8.5 5.9 4.5	20
	300	3.33	4.92	21	9.4 6.5 5	25
	350	3.89	5.74	28	10.3 7.2 5.2	29
	400	4.44	6.56	44	10.7 7.6 5.7	36
	450	5.56	8.2	63	11.5 8.7 6.9	44
	50	0.36	0.53	-	4.5 1.8 1.5	<15
	100	0.71	1.05	-	5.1 2.5 1.5	<15
	150	1.07	1.58	3	6.7 4.6 2.7	<15
	200	1.43	2.11	2	6.9 5.1 3.6	<15
150	250	1.79	2.63	3	7.8 5.6 4.4	<15
	300	2.14	3.16	4	8.6 6.2 4.9	<15
	350	2.5	3.68	5	9.5 7.1 5	17
	400	2.86	4.12	8	10.1 7.4 5.3	21
	450	3.57	5.26	12	10.8 8.1 6.5	32
	500	4.29	6.32	17	11.5 9.5 7.8	37
	550	5	7.37	20	12.9 10.7 9.5	40
	50	0.26	0.47	-	4.2 1.5 1.2	<15
	100	0.53	0.93	-	4.9 2.2 1.3	<15
	150	0.79	1.4	-	6.2 4.4 2.5	<15
200	200	1.05	1.87	1	6.7 4.9 2.8	<15
	250	1.32	2.34	2	7.5 5.1 3.9	<15
	300	1.58	2.8	3	7.9 5.9 4.1	<15
	350	1.84	3.27	4	9.1 6.9 4.5	<15
	400	2.11	3.74	8	9.5 7.1 4.9	<15
	450	2.63	4.67	12	9.9 7.9 5.9	24
	500	3.16	5.61	22	10.5 9 7.1	30
	550	3.95	7.01	30	13 10.7 9.6	35
	600	4.74	8.41	44	14.2 11.7 10.5	39
	50	0.21	0.32	-	4.1 1.3 0.9	<15
250	100	0.42	0.64	-	4.6 2.1 1.1	<15
	150	0.63	0.96	-	6.1 2.9 1.6	<15
	200	0.83	1.28	1	6.5 4.3 2.7	<15
	250	1.04	1.6	2	7.8 4.9 3.8	<15
	300	1.25	1.92	2	7.2 5.3 4	<15
	350	1.46	2.24	3	8.9 6.8 4.1	<15
	400	1.67	2.56	6	9.1 6.9 4.6	17
	450	2.08	3.21	10	9.3 7.2 5.1	20
	500	2.5	3.85	14	10.1 8.2 6.9	22
	550	3.13	4.81	22	12.5 10.1 8.5	30
300	600	3.75	5.77	31	13.6 10.6 9.5	35
	650	4.38	6.73	38	15.1 12 10.7	39
	700	5	7.69	44	17.4 13.4 11.6	41
	50	0.17	0.29	-	3.9 1.1 0.7	<15
	100	0.34	0.58	-	4.1 1.9 0.9	<15
	150	0.52	0.87	-	5.6 2.2 1.1	<15
	200	0.69	1.16	-	5.9 3.9 2.1	<15
	250	0.86	1.45	-	6.5 4.1 2.9	<15
	300	1.03	1.74	1	6.9 4.8 3.5	<15
	350	1.21	2.03	1	7.9 5.9 3.8	<15
300	400	1.38	2.33	4	8.5 6.5 4.3	<15
	450	1.72	2.91	6	9.1 7 4.9	<15
	500	1.07	3.49	10	9.8 7.9 5.8	19
	550	2.59	4.36	15	11.4 8.7 7.9	24
	600	3.1	5.23	19	12.7 9.8 8.9	28
	650	3.62	6.1	25	14 11 9.5	31
	700	4.14	6.98	34	15.4 12.2 10.4	36
	750	4.83	8.14	45	16.7 14.5 12.5	41

See notes on page D-8

SUPPLY AIR LINEAR GRILLES & REGISTERS - SLBG & SLBR

15° DEFLECTION BLADES



SI-UNITS



WIDTH (mm)	AIR FLOW (L/s) / LM	NECK VELOCITY (m/s)	FACE VELOCITY (m/s)	P _t (Pa)	THROW @ (0.25/0.50/0.75) m/s			NC
100 Ak=0.090 Af=0.056	50	0.5	0.9	2	2.4	1.5	0.6	<15
	100	1.1	1.8	7	3.1	1.9	1.0	<15
	150	1.7	2.7	15	4.2	2.6	1.7	<15
	200	2.2	3.6	26	5.4	3.9	2.8	17
	250	2.7	4.5	41	6.4	4.9	3.2	24
	300	3.3	5.4	59	7.3	5.7	3.8	31
	350	3.9	6.3	80	8.2	6.2	4.3	36
	400	4.4	7.2	104	8.7	6.6	4.8	40
150 Ak=0.140 Af=0.075	500	5.5	9.0	163	9.6	7.5	5.7	45
	150	5.5	8.9	173	9.1	1.9	1.6	<15
	200	1.5	2.6	9	4.1	2.7	1.8	<15
	250	1.8	3.3	14	4.9	3.9	2.0	20
	300	2.1	4.0	20	5.8	4.5	2.6	26
	350	2.5	4.7	27	6.8	5.4	3.4	32
	400	2.9	5.3	35	7.4	5.9	4.1	35
	500	3.6	6.7	55	8.2	6.3	4.7	42
200 Ak=0.190 Af=0.094	600	4.3	8.0	80	9.2	7.0	5.1	48
	700	5.0	9.3	108	10.0	7.8	5.9	54
	150	0.8	1.6	2	3.8	2.4	1.3	<15
	200	1.0	2.1	3	6.0	3.8	1.9	<15
	250	1.3	2.6	5	6.9	4.6	2.3	<15
	300	1.6	3.2	7	7.6	5.5	3.2	<15
	350	1.8	3.7	9	8.5	6.4	4.3	21
	400	2.1	4.2	12	8.9	6.8	4.7	27
250 Ak=0.240 Af=0.124	500	2.6	5.3	19	9.6	7.5	5.4	33
	600	3.2	6.4	27	10.3	8.1	6.0	38
	800	4.2	8.6	48	11.3	9.1	7.0	43
	150	0.6	1.2	1	3.2	1.7	1.0	<15
	200	0.8	1.6	2	4.5	2.5	1.6	<15
	250	1.1	2.0	2	5.5	2.9	2.0	<15
	300	1.3	2.4	4	6.3	3.6	2.6	<15
	350	1.5	2.8	5	7.1	4.4	3.4	<15
300 Ak=0.290 Af=0.149	400	1.7	3.2	6	7.7	5.0	4.1	<15
	500	2.1	4.0	10	8.4	5.7	4.8	20
	600	2.5	4.9	14	9.0	6.3	5.4	26
	800	3.3	6.5	25	10.0	7.7	6.4	36
	150	0.5	1.1	1	2.6	1.4	0.8	<15
	200	0.7	1.4	1	3.5	2.5	1.6	<15
	250	0.9	1.7	2	4.3	3.1	2.0	<15
	300	1.0	2.0	3	5.3	3.6	2.6	<15
	350	1.2	2.3	3	6.5	4.3	3.2	<15
	400	1.4	2.7	4	7.1	4.7	3.5	16
	600	2.1	4.0	10	8.1	5.7	4.5	29
	800	2.8	5.4	18	9.0	6.9	5.5	38
944	3.3	6.4	2.34	9.8	7.6	6.4	4.3	43
	1000	3.5	6.8	27	10.2	8.0	6.7	45

See notes on page D-8

RETURN AIR LINEAR GRILLES & REGISTERS - RLBG & RLBR



SI-UNITS



WIDTH (mm)	AIR FLOW (L/s)/LM	Pt (Pa)	NC
75	100	3	20
	150	8	23
	200	15	26
	250	24	30
	300	29	33
100	100	3	16
	150	6	21
	200	12	25
	250	20	28
	300	26	30
	350	35	32
150	200	3	<15
	250	6	20
	300	9	26
	350	13	30
	400	17	35
	450	21	39
200	200	3	18
	300	6	24
	400	12	28
	500	20	30
	600	26	33
	700	35	34
250	300	4	<15
	400	8	18
	500	12	23
	600	18	35
	700	24	37
	900	39	43
300	300	3	<15
	400	3	18
	500	6	23
	600	9	35
	700	13	37
	900	22	43



PERFORMANCE DATA - IP UNITS

SYMBOLS

CFM	:Air volume in cubic feet per minute.
Af	Effective free area in square feet / per L.Ft.
Vf	Face velocity in feet per minute.
Ak	Neck area in square feet / per L.Ft.
Vk	Neck velocity in feet per minute.
Pt	Total pressure in inches water gauge.
Th	Throw in feet
NC	Noise Criteria.

NOTES

- The large throw values are based on the minimum terminal velocity of 50 fpm.

- The middle throw values are based on the medium terminal velocity of 100 fpm.
- The small throw values are based on the maximum terminal velocity of 150 fpm.

CONDITIONS

- Supply or Return as indicated.
- Noise Criteria values are based on (10 dB) room attenuation.
- Damper is fully open.
- Maximum room height = 4.0m
- Maximum Cooling @ $\Delta T = 10K$
- Correction on noise criteria NC
 - L = 3 feet correction + 4 dB
 - L = 6 feet correction + 6 dB
 - L = 10 feet correction + 9 dB

Notes:

SUPPLY AIR LINEAR GRILLES & REGISTERS - SLBG & SLBR

0° DEFLECTION BLADES



IP-UNITS



WIDTH (in)	AIR FLOW (CFM/FT)	Vk (FPM)	Vf (FPM)	Pt (in-wg)	THROW @ (50/100/150) FPM	NC
4 Ak=0.300 Af=0.200	32	111	164	0.007	16 10 7	<15
	65	222	328	0.017	20 13 10	<15
	97	333	492	0.029	23 16 12	<15
	129	444	656	0.044	25 18 14	<15
	162	556	820	0.063	28 19 15	20
	194	667	984	0.086	31 21 16	25
	226	778	1148	0.111	34 24 17	29
	258	889	1312	0.177	35 25 19	36
	323	1111	1639	0.254	38 28 23	44
	32	71	105	-	15 6 5	<15
6 Ak=0.467 Af=0.312	65	143	211	-	17 8 5	<15
	97	214	316	0.004	22 15 9	<15
	129	286	421	0.008	23 17 12	<15
	162	357	526	0.012	26 19 15	<15
	194	429	632	0.016	28 20 16	<15
	226	500	737	0.020	33 23 16	17
	258	571	842	0.032	33 24 17	23
	323	714	1053	0.048	35 27 21	32
	388	857	1263	0.068	38 31 26	37
	452	1000	1474	0.080	42 35 31	40
8 Ak=0.633 Af=0.350	32	53	94	-	14 5 4	<15
	65	105	187	-	16 7 4	<15
	97	158	280	-	20 14 8	<15
	129	211	374	0.004	22 16 9	<15
	162	263	467	0.008	25 17 13	<15
	194	316	561	0.012	26 19 14	<15
	226	368	654	0.016	30 23 15	<15
	258	421	748	0.032	31 23 16	<15
	323	526	935	0.048	33 26 19	24
	388	632	1122	0.088	35 30 23	30
10 Ak=0.800 Af=0.512	485	790	1402	0.120	43 35 32	35
	582	947	1682	0.177	47 38 35	39
	32	42	64	-	14 4 3	<15
	65	83	128	-	15 7 4	<15
	97	125	192	-	20 10 5	<15
	129	167	256	0.004	21 14 9	<15
	162	208	321	0.006	26 16 13	<15
	194	250	385	0.009	24 18 13	<15
	226	292	449	0.012	29 22 14	<15
	258	333	513	0.024	30 23 15	17
12 Ak=0.967 Af=0.560	323	417	641	0.040	31 24 17	22
	388	500	769	0.056	33 27 23	24
	485	625	962	0.087	41 33 28	30
	582	750	1154	0.125	45 35 31	35
	678	875	1346	0.153	50 39 35	39
	775	1000	1539	0.178	57 44 38	41
	32	35	58	-	13 4 2	<15
	65	69	116	-	14 6 3	<15
	97	103	174	-	18 7 4	<15
	129	138	233	-	19 13 7	<15
12 Ak=0.967 Af=0.560	162	172	291	-	21 14 10	<15
	194	207	349	0.004	23 16 12	<15
	226	241	407	0.004	26 19 13	<15
	258	276	465	0.018	28 21 14	<15
	323	345	581	0.024	30 23 16	<15
	388	414	698	0.040	32 26 19	19
	485	517	872	0.058	37 29 26	24
	582	621	1047	0.078	42 32 29	28
	678	724	1221	0.101	46 36 31	31
	775	828	1395	0.138	51 40 34	36
	905	966	1628	0.179	55 48 41	41

See notes on page D-12

SUPPLY AIR LINEAR GRILLES & REGISTERS - SLBG & SLBR

15° DEFLECTION BLADES



IP-UNITS



WIDTH (in)	AIR FLOW (CFM/LFT)	NECK VELOCITY (FPM)	FACE VELOCITY (FPM)	Pt (in-wg)	THROW @ (50/100/150) FPM			NC
4 $A_k=0.295$ $A_f=0.184$	32	106	171	0.007	8	5	2	<15
	65	215	360	0.027	10	6	3	<15
	97	337	531	0.060	14	9	6	<15
	129	443	717	0.106	18	13	9	17
	162	550	894	0.166	21	16	11	24
	194	663	1078	0.237	24	19	12	31
	226	782	1255	0.320	27	20	14	36
	258	887	1440	0.418	29	22	16	40
6 $A_k=0.459$ $A_f=0.426$	323	1106	1801	0.655	32	25	19	45
	97	1093	1778	0.696	30	6	5	<15
	129	294	528	0.036	14	9	6	<15
	162	358	662	0.056	16	13	6	20
	194	429	803	0.080	19	15	9	26
	226	505	930	0.108	22	18	11	32
	258	573	1061	0.142	24	19	14	35
	323	716	1331	0.222	27	21	15	42
8 $A_k=0.623$ $A_f=0.308$	388	850	1593	0.320	30	23	17	48
	452	998	1860	0.433	33	26	19	54
	97	150	317	0.007	12	8	4	<15
	129	209	423	0.012	20	13	6	<15
	162	258	530	0.019	23	15	7	<15
	194	314	636	0.027	25	18	10	<15
	226	365	742	0.037	28	21	14	21
	258	423	847	0.048	29	22	16	27
10 $A_k=0.800$ $A_f=0.407$	323	530	1060	0.075	32	25	18	33
	388	636	1276	0.108	34	26	20	38
	517	848	1715	0.191	37	30	23	43
	97	127	234	0.004	11	5	3	<15
	129	169	319	0.006	15	8	5	<15
	162	212	404	0.010	18	10	6	<15
	194	254	489	0.014	21	12	9	<15
	226	297	565	0.019	23	14	11	<15
12 $A_k=0.967$ $A_f=0.489$	258	339	637	0.025	25	17	14	<15
	323	424	808	0.040	27	19	16	20
	388	505	974	0.058	29	21	18	26
	517	658	1291	0.101	33	25	21	36
	97	107	210	0.002	8	5	2	<15
	129	145	274	0.005	12	8	5	<15
	162	172	338	0.007	14	10	6	<15
	194	207	402	0.011	18	12	9	<15
	226	237	465	0.014	21	14	10	<15
	258	276	530	0.018	23	15	12	16
	388	422	807	0.040	26	19	15	29
	517	553	1082	0.071	30	23	18	38
	646	696	1351	0.109	33	26	22	45

See notes on page D-12