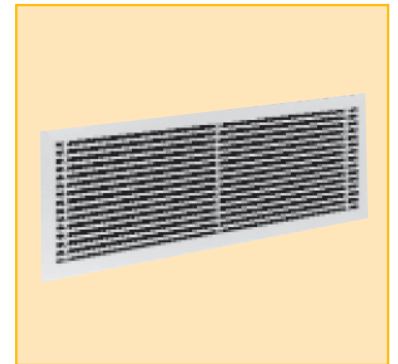
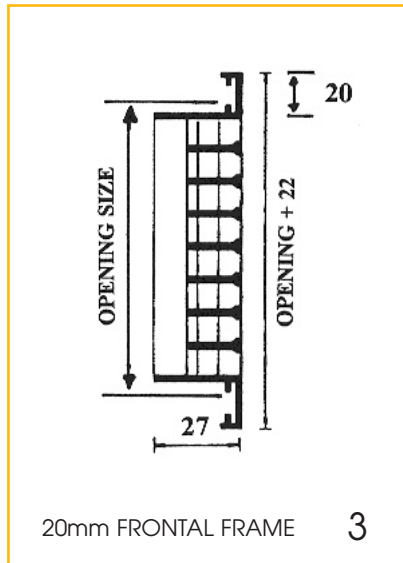
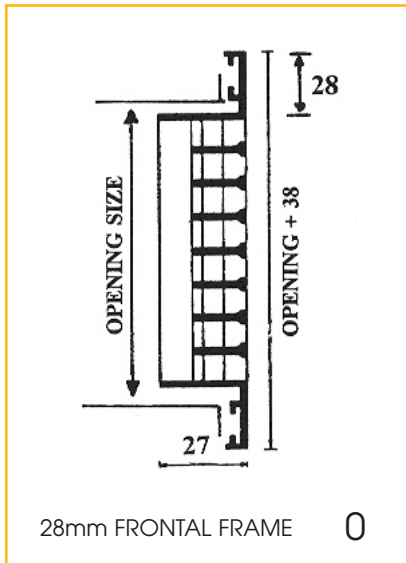


LINEAR BAR GRILLE

TYPE: LBG



Application

The grille with bars is used for the supply and exhaust of cooled or heated air in facilities such as office, shopping centres, schools, hotels. The grille can be used for wall or windowsill mounting where an austere aesthetic.

Technical Information

Characteristics

Construction: Extruded aluminium with architectural quality satin anodised.

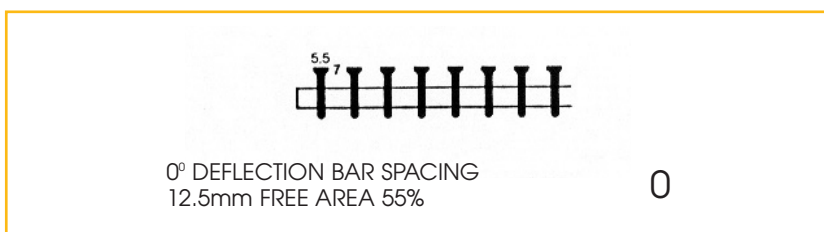
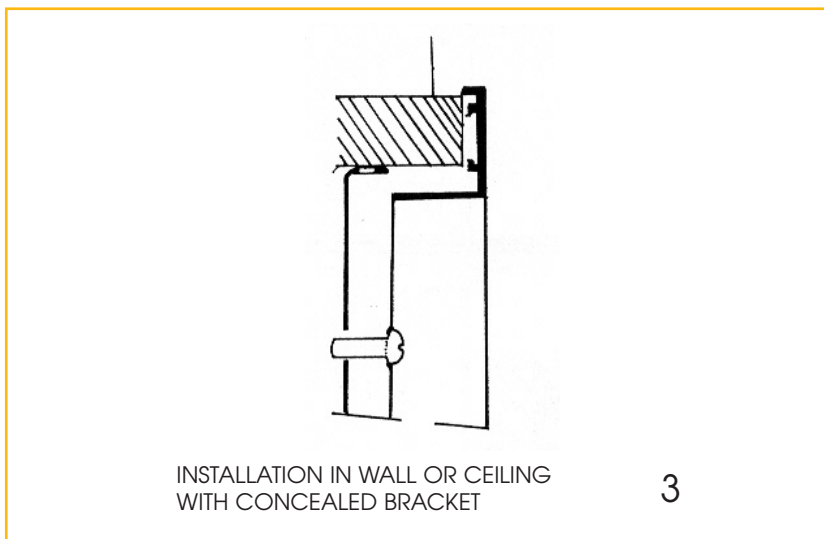
Finish: Standard Satin Anodised Finish. Other colours are available as extra.

Fixing: Various methods of concealed mounting features.

Length: Maximum one piece construction 2000mm.





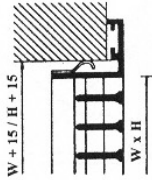


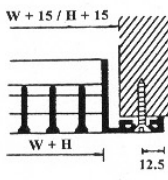
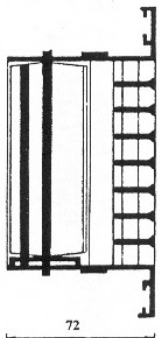

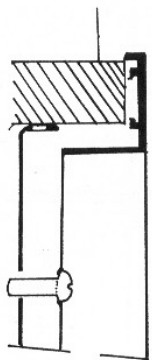
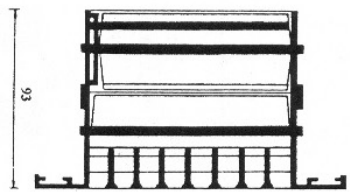
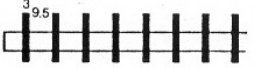
Height: Maximum one piece 500mm.

Frame: Available in 28mm and 20mm



LBG LINEAR BAR GRILLES

CORE STYLES

CORE STYLES	INSTALLATION	ACCESSORIES
 <p>0° DEFLECTION BAR SPACING 12.5mm FREE AREA 55%</p>	 <p>NOT PREPARED FOR INSTALLATION</p>	 <p>WITHOUT ACCESSORIES</p>
 <p>15° DEFLECTION BAR SPACING 12.5mm FREE AREA 55%</p>	 <p>INSTALLATION IN WALL WITH SPRING CLIPS</p>	 <p>WITH ADJUSTABLE VANES</p>
 <p>0° DEFLECTION BAR SPACING 17.5mm FREE AREA 70%</p>	 <p>INSTALLATION IN WALL OR CEILING WITH COUNTER PUNCHED SCREW HOLES IN FRONTAL FRAME</p>	 <p>WITH OPPOSED BLADE DAMPER</p>
 <p>15° DEFLECTION BAR SPACING 17.5mm FREE AREA 70%</p>	 <p>INSTALLATION IN WALL OR CEILING WITH CONCEALED BRACKET</p>	 <p>WITH ADJUSTABLE VANES AND OPPOSED BLADE DAMPER</p>
 <p>0° DEFLECTION BAR SPACING 12.5mm FREE AREA 75%</p>		

LINEAR BAR GRILLE

TYPE: LBG

TABLE A SUPPLY PERFORMANCE DATA

Air Volume (M ³ / Sec Per Metre)	Nom Grille Height (mm)	Throw Sidewall (M)	Throw Sill (M)	face Vel (M/S)	LB5.5		LB3	
					NC	ΔPs (Pa)	NC	ΔPs (Pa)
.030	50	0.6 – 1.5	0.5 – 0.9	1.0	-	-	-	-
.045	50	1.5 – 3.0	0.5 – 1.0	1.5	15	23	-	-
.060	50	2.3 – 4.1	0.9 – 1.4	2.0	17	7	15	4
	75	1.5 – 3.0	0.5 – 1.0	1.1	-	4	-	-
.080	50	2.7 – 5.0	1.5 – 2.8	2.5	22	14	20	8
	75	2.4 – 3.9	1.0 – 2.0	1.5	-	5	-	3
.100	50	3.7 – 6.7	2.2 – 3.5	3.2	23	20	20	12
	75	2.9 – 5.3	1.8 – 2.9	1.8	20	11	18	6
	100	2.3 – 4.2	1.1 – 2.0	1.3	-	4	-	2
.125	50	4.3 – 7.5	3.1 – 4.8	4.0	25	26	23	16
	75	3.0 – 5.8	2.2 – 3.5	2.3	22	14	20	8
	100	2.7 – 5.1	1.6 – 2.7	1.5	16	6	-	3
.150	75	4.5 – 7.6	2.8 – 4.5	2.7	23	20	21	12
	100	3.4 – 6.2	2.0 – 3.5	1.9	20	10	20	6
	125	2.8 – 5.1	1.5 – 2.5	1.4	18	5	15	3
.200	75	4.8 – 7.8	3.5 – 5.2	3.6	26	38	24	22
	100	3.8 – 7.2	2.8 – 4.8	2.5	25	14	23	8
	125	3.1 – 5.5	2.5 – 3.4	1.9	20	10	18	5
	150	2.9 – 4.8	2.0 – 2.8	1.5	15	4	-	3
.250	75	6.2 – 10.2	5.2 – 7.2	4.5	29	48	27	30
	100	5.5 – 8.7	4.0 – 5.9	3.1	25	20	23	12
	125	4.9 – 7.2	3.0 – 4.9	2.4	20	9	18	5
	150	4.5 – 6.5	2.5 – 3.9	1.9	19	8	16	4
.300	100	7.3 – 12.0	5.2 – 7.8	3.8	32	35	30	19
	125	6.0 – 11.0	4.1 – 6.5	2.9	25	20	23	12
	150	5.4 – 9.0	3.5 – 5.5	2.3	23	18	20	10
	200	4.5 – 7.7	--	1.7	20	9	18	5
.350	125	6.5 – 10.2	5.3 – 7.5	3.3	29	30	27	16
	150	5.9 – 9.2	4.2 – 5.8	2.7	25	22	22	11
	200	5.2 – 8.2	--	1.9	22	12	20	6
	250	3.9 – 7.0	--	1.5	20	8	18	4
.400	150	6.8 – 10.1	5.0 – 7.0	3.0	29	16	27	12
	200	5.5 – 9.2	--	2.2	25	14	22	8
	250	5.2 – 8.1	--	1.7	22	10	20	6
	300	4.7 – 7.5	--	1.4	20	7	18	4
.450	150	8.0 – 11.0	6.8 – 8.8	3.38	31	26	29	16
	200	7.0 – 10.0	--	2.5	27	22	23	12
	250	6.0 – 9.3	--	2.0	22	14	20	8
	300	5.4 – 8.0	--	1.6	21	10	18	6
.500	200	7.5 – 12.5	--	2.8	32	28	27	16
	250	7.0 – 10.0	--	2.2	26	18	24	10
	300	5.7 – 9.0	--	1.8	22	14	20	8
.550	200	8.5 – 13.5	--	3.1	33	32	30	18
	250	8.0 – 11.5	--	2.4	28	22	25	12
	300	6.5 – 10.5	--	2.0	25	18	22	10

TABLE B THROW CORRECTION FACTORS

DIFFUSER LENGTH	THROW MULTIPLICATION FACTOR	ADJUST NC
0.6	0.86	-2
1.0	0.95	-1
1.2	1.00	0
1.5	1.05	+1
2.0	1.10	+2
3.0	1.15	+4

LINEAR BAR GRILLE

TYPE: LBG

TABLE C RETURN PERFORMANCE DATA

Air Volume (M ³ /Sec/M)	DIFF HEIGHT (mm)	FACE VEL (M/S)	LB-5.5		LB-3	
			NC	Δ PS (Pa)	NC	Δ PS (Pa)
.05	50	1.5	-	8	-	5
	75	2.5	-	17	-	10
.08	50	1.5	15	8	-	5
	75	3.5	21	28	19	18
.10	50	2.0	12	-	-	7
	75	4.0	25	40	23	25
.125	50	2.3	20	20	-	12
	100	1.5	15	8	-	5
.15	50	5.0	33	56	30	35
	75	2.8	18	20	15	12
.20	100	2.0	16	10	-	6
	125	1.5	-	6	-	4
.25	75	3.7	25	32	22	20
	100	2.5	20	16	17	10
.30	125	2.0	18	12	16	7
	150	1.5	-	8	-	5
.35	75	4.6	33	65	30	40
	100	3.2	28	30	24	18
.40	125	2.5	24	16	20	10
	150	2.0	22	12	18	7
.45	200	1.4	20	6	-	4
	100	3.8	32	35	26	22
.50	125	2.9	30	24	24	14
	150	2.3	28	15	22	9
.55	200	1.6	24	10	20	6
	100	4.5	36	56	32	35
.60	125	3.4	34	28	28	18
	150	2.7	33	22	27	14
.65	200	1.9	25	12	20	7
	250	1.5	20	8	15	5
.70	125	3.8	35	40	30	24
	150	3.0	34	26	28	16
.75	200	2.2	30	20	25	11
	250	1.7	25	10	20	6
.80	300	1.4	22	8	17	5
	125	4.3	36	50	33	30
.85	150	3.5	35	30	31	18
	200	2.5	30	17	26	10
.90	250	2.0	27	10	23	6
	300	1.6	25	10	18	6
.95	150	3.8	36	37	32	22
	200	2.8	35	20	30	12
1.00	250	2.2	32	14	26	8
	300	1.8	28	10	24	6
1.05	350	1.5	22	8	18	5

Air Volume (M ³ /Sec/M)	DIFF HEIGHT (mm)	FACE VEL (M/S)	LB-5.5		LB-3	
			NC	Δ PS (Pa)	NC	Δ PS (Pa)
.55	150	4.2	39	44	34	26
	200	3.0	36	24	31	14
	250	2.4	31	14	26	8
	300	2.0	28	12	24	7
	350	1.6	25	10	20	6
.60	200	3.3	36	32	32	18
	250	2.5	32	17	27	10
	300	2.0	30	14	25	8
	350	1.8	29	10	25	6
.65	400	1.6	26	8	22	6
	200	3.6	38	32	33	18
	250	2.8	35	20	30	12
.70	300	2.3	32	14	28	8
	350	2.0	3.0	12	26	7
	400	1.7	25	10	20	6
	200	3.9	39	40	34	24
.75	250	3.0	36	24	32	14
	300	2.5	33	17	29	10
	350	2.1	30	14	26	8
	400	1.9	28	10	24	6
	200	4.2	40	48	36	28
.80	250	3.3	38	28	33	16
	300	2.7	36	20	32	12
	350	2.3	32	17	30	10
	400	2.0	31	14	30	8
	250	3.5	38	30	34	18
.85	300	2.9	36	24	33	14
	350	2.4	34	17	30	10
	400	2.1	32	14	29	8
	250	3.7	39	38	35	22
	300	3.0	38	24	34	14
.90	350	2.6	35	20	31	12
	400	2.2	33	17	30	10
	250	3.9	40	43	37	25
	300	3.2	39	27	35	16
.95	350	2.7	36	20	33	12
	400	2.4	35	17	32	10
	300	3.4	40	38	36	16
	350	2.9	38	20	34	12
1.00	400	2.5	36	17	33	10
	300	3.6	41	34	37	20
	350	3.0	38	24	34	14
1.05	400	2.6	36	20	34	12