

LBP/LBPH/LBM/LBMH

Linear Bar Grille

PERFORMANCE DATA

Heavy Duty Mandrel Linear Bar Grille (LBMH) – Core 15A

Size	Static Pressure (in. w.g.)	0.011	0.024	0.044	0.069	0.098	0.133	0.175	0.222	0.275
1 ½ in.	Flow Rate (cfm/ft)	11	15	21	27	32	38	43	48	54
	Sound (NC)	-	-	-	17	21	26	30	33	36
2 in.	Flow Rate (cfm/ft)	17	25	34	43	51	60	68	77	86
	Sound (NC)	-	-	-	17	22	26	30	33	36
2 ½ in.	Flow Rate (cfm/ft)	23	35	47	59	71	82	95	106	118
	Sound (NC)	-	-	-	17	23	27	31	34	38
3 in.	Flow Rate (cfm/ft)	31	47	62	78	93	109	125	140	156
	Sound (NC)	-	-	-	20	25	29	33	37	39
3 ½ in.	Flow Rate (cfm/ft)	40	59	79	98	118	138	158	178	198
	Sound (NC)	-	-	-	21	26	31	35	38	41
4 in.	Flow Rate (cfm/ft)	46	69	93	116	138	161	183	208	230
	Sound (NC)	-	-	-	16	22	27	31	35	39
5 in.	Flow Rate (cfm/ft)	62	92	122	152	182	212	242	273	302
	Sound (NC)	-	-	-	18	24	29	33	37	41
6 in.	Flow Rate (cfm/ft)	76	113	152	190	228	266	302	342	380
	Sound (NC)	-	-	-	19	25	30	35	38	41
1 ½ in.	Throw (ft)	1-1-1	2-2-2	4-4-4	6-6-6	8-8-9	9-10-11	10-11-13	12-13-15	13-15-18
	Sill or Floor Sidewall	2-4-6	4-7-10	6-9-13	7-11-16	8-13-19	9-15-21	10-16-23	12-18-25	13-20-28
2 in.	Throw (ft)	1-1-1	4-4-4	6-6-6	9-9-9	11-11-12	12-13-15	14-15-17	15-17-19	16-18-20
	Sill or Floor Sidewall	3-5-7	5-8-11	7-11-15	9-14-19	11-16-22	12-18-25	14-20-27	15-22-29	16-24-32
2 ½ in.	Throw (ft)	1-1-1	5-5-5	8-8-8	10-10-11	13-14-15	15-16-17	16-18-20	20-20-21	22-22-22
	Sill or Floor Sidewall	4-6-8	6-9-12	8-12-16	10-15-20	13-18-24	15-21-27	16-22-30	20-24-34	22-30-38
3 in.	Throw (ft)	2-2-2	6-6-6	9-9-10	12-12-13	15-16-17	18-19-20	20-21-22	23-23-23	25-25-25
	Sill or Floor Sidewall	4-6-8	7-10-14	9-13-18	12-17-22	15-20-25	18-23-29	20-26-33	23-30-37	25-32-40
3 ½ in.	Throw (ft)	2-2-2	7-7-7	10-10-11	15-15-15	17-18-19	20-21-22	22-23-24	25-25-26	27-27-27
	Sill or Floor Sidewall	5-7-10	8-11-15	10-15-20	15-19-24	17-22-27	20-25-31	22-28-35	25-32-39	27-34-42
4 in.	Throw (ft)	3-3-3	8-8-8	12-12-13	15-15-16	19-19-20	21-22-23	24-24-25	26-26-27	29-29-30
	Sill or Floor Sidewall	6-8-11	9-12-16	12-16-20	15-20-25	19-24-29	21-26-32	24-30-36	26-33-40	30-37-44
5 in.	Throw (ft)	4-4-4	9-9-9	14-14-14	17-17-17	21-21-22	24-24-24	27-27-27	29-29-29	32-32-32
	Sill or Floor Sidewall	7-9-12	11-14-18	14-18-22	17-21-26	21-26-31	24-29-35	27-33-39	30-36-43	33-40-47
6 in.	Throw (ft)	5-5-5	10-10-10	15-15-15	18-18-18	23-23-23	25-25-25	28-28-29	31-31-31	34-34-34
	Sill or Floor Sidewall	8-10-13	12-15-19	15-19-23	20-24-28	23-27-32	26-31-37	29-34-40	33-40-45	37-43-49

For Performance Notes and Correction Factors, see end of section.

Heavy Duty Mandrel Linear Bar Grille (LBMH) – Core 16A

Size	Static Pressure (in. w.g.)	0.013	0.027	0.05	0.079	0.111	0.155	0.199	0.252	0.31
1 ½ in.	Flow Rate (cfm/ft)	12	19	25	31	38	44	50	56	62
	Sound (NC)	-	-	-	21	27	33	38	41	45
2 in.	Flow Rate (cfm/ft)	18	27	36	44	54	63	72	81	88
	Sound (NC)	-	-	-	17	24	30	35	38	42
2 ½ in.	Flow Rate (cfm/ft)	24	35	47	59	71	83	94	106	118
	Sound (NC)	-	-	-	16	23	29	34	37	41
3 in.	Flow Rate (cfm/ft)	29	43	58	72	87	101	116	130	144
	Sound (NC)	-	-	-	17	23	29	33	37	41
3 ½ in.	Flow Rate (cfm/ft)	35	52	70	87	104	122	139	157	174
	Sound (NC)	-	-	-	17	23	29	34	38	41
4 in.	Flow Rate (cfm/ft)	42	63	84	105	126	147	168	189	210
	Sound (NC)	-	-	-	18	25	30	34	39	42
5 in.	Flow Rate (cfm/ft)	54	81	108	135	162	189	216	243	270
	Sound (NC)	-	-	-	19	26	31	36	40	43
6 in.	Flow Rate (cfm/ft)	66	99	132	165	198	231	264	297	330
	Sound (NC)	-	-	-	19	25	31	36	40	43
1 ½ in.	Throw (ft)	1-1-1	3-3-3	4-4-4	7-7-7	9-9-10	10-11-12	12-13-15	13-14-16	14-16-18
	Sill or Floor Sidewall	2-4-6	4-7-10	6-10-14	7-12-17	9-14-20	10-16-22	12-18-25	13-20-27	14-22-30
2 in.	Throw (ft)	1-1-1	4-4-4	6-6-6	9-9-9	11-11-12	12-13-15	14-16-18	15-17-19	16-18-20
	Sill or Floor Sidewall	3-5-7	5-8-11	7-11-15	9-14-19	11-16-22	12-18-25	14-20-27	15-22-30	16-24-32
2 ½ in.	Throw (ft)	1-1-1	5-5-5	8-8-8	10-10-11	13-14-15	14-15-17	17-18-20	19-20-21	21-21-22
	Sill or Floor Sidewall	4-6-8	6-9-12	8-12-16	10-15-20	13-19-24	14-20-26	17-23-30	19-26-33	21-28-36
3 in.	Throw (ft)	2-2-2	6-6-6	9-9-9	12-12-13	15-15-16	17-18-19	20-21-22	21-22-23	23-23-24
	Sill or Floor Sidewall	4-6-9	7-10-13	9-13-17	12-16-21	15-20-25	17-22-28	20-26-32	21-28-35	23-31-39
3 ½ in.	Throw (ft)	2-2-2	8-8-8	11-11-11	13-13-14	16-17-18	19-20-21	22-22-23	23-24-25	26-26-26
	Sill or Floor Sidewall	5-7-9	8-11-14	11-15-19	13-17-22	16-21-26	19-24-30	22-28-34	23-30-37	26-33-41
4 in.	Throw (ft)	3-3-3	9-9-9	12-12-12	15-15-15	18-19-20	21-21-22	23-24-25	25-25-26	28-28-28
	Sill or Floor Sidewall	5-7-10	9-12-15	12-16-20	15-19-24	18-23-28	21-26-32	23-29-35	25-32-39	29-36-43
5 in.	Throw (ft)	4-4-4	9-9-9	13-13-13	16-16-17	20-20-21	23-23-24	25-25-26	28-28-28	31-31-31
	Sill or Floor Sidewall	7-9-12	10-13-17	14-18-22	16-21-26	20-25-30	23-28-34	25-31-37	28-34-41	31-38-45
6 in.	Throw (ft)	5-5-5	10-10-10	14-14-14	18-18-18	22-22-22	25-25-25	28-28-28	30-30-30	32-32-32
	Sill or Floor Sidewall	8-10-13	11-14-18	15-19-23	19-23-27	23-27-31	25-30-35	28-33-39	31-37-43	34-40-46

For Performance Notes and Correction Factors, see end of section.

LBP/LBPH/LBM/LBMH

Linear Bar Grille

PERFORMANCE DATA

Heavy Duty Mandrel Linear Bar Grille (LBMH) – Core 15B

Size	Static Pressure (in. w.g.)	0.009	0.02	0.036	0.057	0.08	0.109	0.143	0.182	0.225
1 ½ in.	Flow Rate (cfm/ft)	12	18	24	30	36	42	48	54	60
	Sound (NC)	-	-	-	-	19	24	27	30	34
	Throw (ft)	Sill or Floor 2-4-6	1-1-1 4-7-10	2-2-2 4-7-10	4-4-4 6-9-13	7-7-7 7-12-17	8-9-10 9-13-19	10-11-12 10-16-22	11-12-14 11-17-24	12-14-17 12-19-26
2 in.	Flow Rate (cfm/ft)	19	29	39	49	59	69	78	88	98
	Sound (NC)	-	-	-	-	20	24	28	31	35
	Throw (ft)	Sill or Floor 3-5-7	1-1-1 5-8-12	4-4-4 5-8-12	7-7-7 7-11-16	9-9-10 9-14-20	11-11-12 11-17-23	13-14-16 13-19-26	14-16-18 14-21-28	15-17-20 15-22-30
2 ½ in.	Flow Rate (cfm/ft)	27	40	54	67	80	94	107	121	134
	Sound (NC)	-	-	-	-	20	25	29	32	35
	Throw (ft)	Sill or Floor 4-6-8	1-1-1 4-6-8	5-5-5 6-9-13	9-9-9 9-13-17	11-11-12 11-16-21	13-14-15 13-18-24	15-16-17 15-21-28	18-19-20 17-24-31	20-21-23 20-27-35
3 in.	Flow Rate (cfm/ft)	36	53	71	89	107	125	142	160	178
	Sound (NC)	-	-	-	17	23	27	31	34	37
	Throw (ft)	Sill or Floor 5-7-10	2-2-2 5-7-10	7-7-7 7-10-14	10-10-11 10-14-19	12-13-14 12-17-23	15-16-17 15-20-26	18-19-20 18-24-30	20-21-23 20-27-34	23-24-25 23-30-38
3 ½ in.	Flow Rate (cfm/ft)	44	67	89	111	133	156	178	200	222
	Sound (NC)	-	-	-	19	24	28	32	36	39
	Throw (ft)	Sill or Floor 5-7-10	3-3-3 5-7-10	8-8-8 9-12-16	12-12-12 12-16-20	15-15-16 15-20-25	18-19-20 18-23-28	20-21-23 20-26-32	23-24-25 23-29-36	25-26-27 25-32-40
4 in.	Flow Rate (cfm/ft)	53	79	106	132	159	185	212	238	264
	Sound (NC)	-	-	-	20	25	29	33	37	40
	Throw (ft)	Sill or Floor 6-8-11	3-3-3 6-8-11	9-9-9 10-13-17	13-13-13 13-17-21	16-16-17 16-20-25	20-20-21 20-25-30	22-23-24 22-28-34	24-25-26 24-30-37	27-27-27 28-35-42
5 in.	Flow Rate (cfm/ft)	69	104	138	173	208	242	277	312	346
	Sound (NC)	-	-	-	21	27	31	35	38	41
	Throw (ft)	Sill or Floor 8-10-13	4-4-4 8-10-13	10-10-10 11-14-18	14-14-14 15-19-23	18-18-18 18-22-27	22-22-23 22-27-32	24-24-24 24-30-36	27-27-28 27-33-40	30-30-31 30-37-44
6 in.	Flow Rate (cfm/ft)	86	129	173	216	259	303	346	389	432
	Sound (NC)	-	-	16	23	28	32	36	39	42
	Throw (ft)	Sill or Floor 9-12-15	5-5-5 9-12-15	10-10-10 13-16-20	15-15-15 16-20-24	18-18-18 20-24-29	23-23-23 24-29-34	25-25-25 29-33-39	28-28-28 30-35-41	31-31-31 34-40-46

For Performance Notes and Correction Factors, see end of section.

Heavy Duty Mandrel Linear Bar Grille (LBMH) - Core 16B

Size	Static Pressure (in. w.g.)	0.009	0.02	0.036	0.057	0.08	0.109	0.143	0.182	0.225
1 ½ in.	Flow Rate (cfm/ft)	12	21	28	35	41	49	56	63	70
	Sound (NC)	-	-	17	23	28	33	37	41	44
	Throw (ft)	Sill or Floor 2-4-6	1-1-1 2-4-6	3-3-3 4-7-10	5-5-5 6-10-14	8-8-8 8-13-18	9-9-10 9-14-20	10-11-13 10-16-23	12-13-15 12-18-25	13-15-17 13-20-27
2 in.	Flow Rate (cfm/ft)	20	30	40	50	60	70	80	90	100
	Sound (NC)	-	-	-	20	25	30	34	38	40
	Throw (ft)	Sill or Floor 3-5-7	1-1-1 3-5-7	4-4-4 5-8-12	7-7-7 7-11-16	9-9-10 9-14-20	11-12-13 11-17-23	12-14-16 12-18-25	14-16-18 14-20-27	15-17-20 15-22-30
2 ½ in.	Flow Rate (cfm/ft)	27	40	54	67	80	94	108	121	134
	Sound (NC)	-	-	-	20	25	30	34	37	41
	Throw (ft)	Sill or Floor 4-6-8	1-1-1 4-6-8	5-5-5 6-9-13	8-8-9 9-12-17	11-11-12 11-16-21	13-14-15 13-19-25	15-16-18 15-21-27	17-19-21 17-24-31	20-21-22 20-27-35
3 in.	Flow Rate (cfm/ft)	33	49	66	82	98	115	131	148	164
	Sound (NC)	-	-	-	19	25	30	33	37	40
	Throw (ft)	Sill or Floor 4-6-9	2-2-2 4-6-9	6-6-6 7-10-14	10-10-10 10-13-18	12-12-13 12-17-22	15-16-17 15-20-26	18-19-20 18-24-30	20-21-23 20-26-33	23-23-24 23-30-37
3 ½ in.	Flow Rate (cfm/ft)	40	59	80	99	119	138	158	178	198
	Sound (NC)	-	-	-	20	25	29	33	37	40
	Throw (ft)	Sill or Floor 5-7-10	2-2-2 5-7-10	7-7-7 8-11-15	12-12-12 12-16-20	14-14-15 14-18-23	17-18-19 17-22-27	20-21-22 20-25-31	22-23-24 22-28-35	25-25-26 25-32-39
4 in.	Flow Rate (cfm/ft)	48	72	96	120	144	168	192	216	240
	Sound (NC)	-	-	-	21	26	31	35	38	42
	Throw (ft)	Sill or Floor 6-8-11	3-3-3 6-8-11	8-8-9 9-12-16	13-13-13 13-17-21	15-15-16 15-19-24	19-19-20 19-24-29	22-22-23 22-27-33	24-24-25 24-30-36	26-26-27 26-33-40
5 in.	Flow Rate (cfm/ft)	62	93	124	154	185	216	247	277	308
	Sound (NC)	-	-	-	22	27	32	36	39	42
	Throw (ft)	Sill or Floor 8-10-13	4-4-4 8-10-13	9-9-9 11-14-18	14-14-14 15-19-23	17-17-17 17-21-26	20-21-22 20-25-31	24-24-24 24-29-35	26-26-27 26-33-38	29-29-29 29-35-42
6 in.	Flow Rate (cfm/ft)	75	113	150	188	226	263	301	338	376
	Sound (NC)	-	-	-	22	27	32	36	39	42
	Throw (ft)	Sill or Floor 9-11-14	5-5-5 9-11-14	10-10-10 13-16-20	15-15-15 16-20-24	18-18-18 20-24-28	23-23-23 23-27-32	25-25-25 25-30-36	28-28-28 28-33-39	30-30-30 31-37-43

For Performance Notes and Correction Factors, see end of section.

LBP/LBPH/LBM/LBMH

Linear Bar Grille

PERFORMANCE DATA

Heavy Duty Mandrel Linear Bar Grille (LBMH) Core 25B/25C

Size	Static Pressure (in. w.g.)	0.01	0.022	0.04	0.063	0.089	0.121	0.159	0.202	0.25
1 1/2 in.	Flow Rate (cfm/ft)	12	18	24	30	36	42	48	54	60
	Sound (NC)	-	-	-	-	18	24	28	31	34
	Throw (ft)	Sill or Floor 2-4-6	Sill or Floor 2-2-2 4-7-10	Sill or Floor 4-4-4 5-9-13	Sill or Floor 7-7-7 7-12-17	Sill or Floor 8-9-10 8-13-19	Sill or Floor 10-11-12 10-16-22	Sill or Floor 11-12-13 11-17-24	Sill or Floor 12-14-16 12-19-26	Sill or Floor 14-16-18 14-21-29
2 in.	Flow Rate (cfm/ft)	20	29	39	49	59	69	79	89	98
	Sound (NC)	-	-	-	-	21	25	29	33	36
	Throw (ft)	Sill or Floor 3-5-7	Sill or Floor 4-4-4 5-9-12	Sill or Floor 7-7-7 7-11-16	Sill or Floor 9-9-10 9-14-20	Sill or Floor 10-11-13 10-16-23	Sill or Floor 13-14-16 13-19-26	Sill or Floor 14-16-18 14-21-28	Sill or Floor 15-17-20 15-22-30	Sill or Floor 17-19-21 17-25-33
2 1/2 in.	Flow Rate (cfm/ft)	28	43	57	71	85	99	117	125	142
	Sound (NC)	-	-	-	18	23	27	32	34	37
	Throw (ft)	Sill or Floor 4-6-9	Sill or Floor 2-2-2 6-6-6 6-9-12	Sill or Floor 8-8-8 8-12-17	Sill or Floor 11-12-13 11-16-22	Sill or Floor 13-14-16 13-19-25	Sill or Floor 15-17-19 15-21-28	Sill or Floor 18-20-22 18-25-32	Sill or Floor 21-22-23 21-28-36	Sill or Floor 22-23-24 22-30-39
3 in.	Flow Rate (cfm/ft)	38	57	76	95	113	132	151	170	190
	Sound (NC)	-	-	-	20	25	30	33	36	40
	Throw (ft)	Sill or Floor 5-7-10	Sill or Floor 2-2-2 7-7-7 7-11-15	Sill or Floor 10-10-11 10-14-19	Sill or Floor 12-13-15 12-17-23	Sill or Floor 15-16-18 15-21-27	Sill or Floor 18-19-21 18-24-31	Sill or Floor 20-22-24 20-27-34	Sill or Floor 24-24-25 24-31-39	Sill or Floor 26-26-27 26-34-42
3 1/2 in.	Flow Rate (cfm/ft)	45	68	91	114	133	159	184	205	228
	Sound (NC)	-	-	-	20	25	30	34	37	41
	Throw (ft)	Sill or Floor 5-7-10	Sill or Floor 3-3-3 8-8-8 9-12-16	Sill or Floor 12-12-12 12-16-20	Sill or Floor 15-15-16 15-20-25	Sill or Floor 18-19-20 18-23-28	Sill or Floor 20-21-22 20-26-32	Sill or Floor 23-24-25 23-29-36	Sill or Floor 25-26-27 25-32-40	Sill or Floor 29-29-29 29-36-44
4 in.	Flow Rate (cfm/ft)	54	81	108	135	162	189	216	243	270
	Sound (NC)	-	-	-	21	26	31	34	38	41
	Throw (ft)	Sill or Floor 6-8-11	Sill or Floor 3-3-3 9-9-9 10-13-17	Sill or Floor 13-13-13 13-17-21	Sill or Floor 16-16-17 16-21-26	Sill or Floor 20-20-21 20-25-30	Sill or Floor 23-23-24 22-28-34	Sill or Floor 24-25-26 24-30-37	Sill or Floor 28-28-28 28-35-42	Sill or Floor 31-31-31 31-38-46
5 in.	Flow Rate (cfm/ft)	72	108	144	180	216	252	289	324	360
	Sound (NC)	-	-	17	23	28	33	37	40	43
	Throw (ft)	Sill or Floor 8-10-13	Sill or Floor 4-4-4 10-10-10 11-14-18	Sill or Floor 15-15-15 15-19-23	Sill or Floor 18-18-18 18-22-27	Sill or Floor 22-22-23 22-27-32	Sill or Floor 25-25-25 25-31-37	Sill or Floor 27-27-28 27-33-40	Sill or Floor 30-30-30 30-37-44	Sill or Floor 34-34-34 34-41-48
6 in.	Flow Rate (cfm/ft)	90	135	180	225	270	314	360	404	450
	Sound (NC)	-	-	17	24	30	34	38	41	45
	Throw (ft)	Sill or Floor 9-11-14	Sill or Floor 5-5-5 10-10-10 13-16-20	Sill or Floor 15-15-15 16-20-24	Sill or Floor 19-19-19 20-24-29	Sill or Floor 23-23-23 24-29-34	Sill or Floor 25-25-25 28-33-39	Sill or Floor 29-29-29 30-35-41	Sill or Floor 31-31-31 34-40-46	Sill or Floor 36-36-36 38-44-50

For Performance Notes and Correction Factors, see end of section.

Heavy Duty Mandrel Linear Bar Grille (LBMH) Core 26B/26C

Size	Static Pressure (in. w.g.)	0.012	0.026	0.048	0.076	0.107	0.145	0.191	0.242	0.3
1 1/2 in.	Flow Rate (cfm/ft)	13	19	26	32	39	45	51	58	64
	Sound (NC)	-	-	19	25	31	36	40	43	46
	Throw (ft)	Sill or Floor 2-4-6	Sill or Floor 1-1-1 3-3-3 4-7-10	Sill or Floor 5-5-5 6-10-14	Sill or Floor 7-7-7 7-12-17	Sill or Floor 9-9-10 9-14-20	Sill or Floor 10-11-12 10-16-23	Sill or Floor 12-13-15 12-18-25	Sill or Floor 13-15-17 13-20-27	Sill or Floor 14-16-18 14-22-30
2 in.	Flow Rate (cfm/ft)	19	29	39	48	58	67	77	87	96
	Sound (NC)	-	-	16	23	29	33	37	41	44
	Throw (ft)	Sill or Floor 3-5-7	Sill or Floor 1-1-1 4-4-4 5-8-12	Sill or Floor 7-7-7 7-11-16	Sill or Floor 9-9-10 9-14-20	Sill or Floor 11-12-13 11-17-24	Sill or Floor 13-14-15 13-19-26	Sill or Floor 15-16-18 15-22-29	Sill or Floor 16-18-20 16-23-31	Sill or Floor 17-19-22 17-25-34
2 1/2 in.	Flow Rate (cfm/ft)	26	40	53	66	79	92	105	119	132
	Sound (NC)	-	-	16	23	28	33	37	41	45
	Throw (ft)	Sill or Floor 4-6-8	Sill or Floor 1-1-1 5-5-5 6-9-13	Sill or Floor 9-9-9 9-13-17	Sill or Floor 11-11-12 11-16-21	Sill or Floor 13-14-15 13-18-24	Sill or Floor 15-16-18 15-21-27	Sill or Floor 17-19-21 17-24-31	Sill or Floor 20-21-22 20-27-34	Sill or Floor 22-22-23 22-29-38
3 in.	Flow Rate (cfm/ft)	34	51	68	85	102	119	136	152	170
	Sound (NC)	-	-	16	23	29	34	38	41	45
	Throw (ft)	Sill or Floor 4-6-9	Sill or Floor 2-2-2 6-6-6 7-10-14	Sill or Floor 10-10-11 10-14-19	Sill or Floor 12-13-14 12-17-22	Sill or Floor 15-16-18 15-20-26	Sill or Floor 18-19-20 18-24-30	Sill or Floor 20-21-23 20-27-33	Sill or Floor 23-24-25 23-30-37	Sill or Floor 25-25-25 25-33-40
3 1/2 in.	Flow Rate (cfm/ft)	42	63	84	106	126	148	169	190	212
	Sound (NC)	-	-	18	25	30	36	40	43	47
	Throw (ft)	Sill or Floor 5-7-10	Sill or Floor 2-2-2 8-8-8 8-11-15	Sill or Floor 11-11-12 11-15-20	Sill or Floor 15-15-15 14-19-24	Sill or Floor 17-18-19 17-22-28	Sill or Floor 21-21-22 21-27-33	Sill or Floor 23-23-25 22-28-35	Sill or Floor 25-25-26 25-31-39	Sill or Floor 28-28-29 28-35-43
4 in.	Flow Rate (cfm/ft)	50	75	100	125	150	175	200	225	250
	Sound (NC)	-	-	19	25	31	35	40	44	47
	Throw (ft)	Sill or Floor 6-8-11	Sill or Floor 3-3-3 9-9-9 10-13-17	Sill or Floor 13-13-13 13-17-21	Sill or Floor 16-16-17 16-20-25	Sill or Floor 19-20-21 19-24-29	Sill or Floor 22-22-23 22-28-33	Sill or Floor 24-25-26 24-30-37	Sill or Floor 27-27-27 27-35-41	Sill or Floor 30-30-30 30-37-44
5 in.	Flow Rate (cfm/ft)	66	99	132	165	198	231	264	297	330
	Sound (NC)	-	-	20	27	33	38	42	46	48
	Throw (ft)	Sill or Floor 8-11-13	Sill or Floor 4-4-4 10-10-10 11-15-18	Sill or Floor 14-14-14 14-18-23	Sill or Floor 18-18-18 18-22-27	Sill or Floor 21-21-22 21-29-31	Sill or Floor 24-24-25 24-30-35	Sill or Floor 26-27-28 26-32-39	Sill or Floor 30-30-30 30-35-43	Sill or Floor 32-32-32 32-38-46
6 in.	Flow Rate (cfm/ft)	84	126	168	210	252	294	336	378	420
	Sound (NC)	-	-	22	29	35	40	43	47	50
	Throw (ft)	Sill or Floor 9-12-15	Sill or Floor 5-5-5 10-10-10 13-16-20	Sill or Floor 15-15-15 17-21-25	Sill or Floor 19-19-19 20-24-29	Sill or Floor 23-23-23 23-28-33	Sill or Floor 25-25-25 26-31-37	Sill or Floor 28-28-29 28-34-40	Sill or Floor 31-31-31 30-37-44	Sill or Floor 35-35-35 35-41-47

For Performance Notes and Correction Factors, see end of section.

PERFORMANCE DATA

Heavy Duty Mandrel Linear Bar Grille (LBMH) Core 27B/27C

Size	Static Pressure (in. w.g.)	0.012	0.026	0.048	0.076	0.107	0.145	0.191	0.242
1 ½ in.	Flow Rate (cfm/ft)	13	19	26	32	38	45	51	58
	Sound (NC)	-	16	24	31	36	41	45	48
	Throw (ft)	Sill or Floor 1-1-1 Sidewall 2-4-6	2-2-2 4-7-10	4-4-4 6-9-13	6-6-6 7-11-16	8-8-9	9-10-11 8-13-19	9-15-21 10-11-13	10-16-23 10-11-13
2 in.	Flow Rate (cfm/ft)	19	29	38	48	58	67	77	86
	Sound (NC)	-	-	20	26	31	36	40	43
	Throw (ft)	Sill or Floor 1-1-1 Sidewall 3-5-7	4-4-4 5-8-11	6-6-6 7-11-15	9-9-9 9-14-19	11-11-12 11-16-22	12-13-15 12-18-25	14-15-17 14-20-27	15-17-19 15-22-30
2 ½ in.	Flow Rate (cfm/ft)	26	39	52	65	77	91	104	117
	Sound (NC)	-	-	20	26	31	36	40	43
	Throw (ft)	Sill or Floor 1-1-1 Sidewall 4-6-8	5-5-5 6-9-12	8-8-8 8-12-16	10-10-11 10-15-20	13-14-15 13-19-24	15-16-17 14-20-26	16-18-20 17-23-30	20-20-21 19-26-33
3 in.	Flow Rate (cfm/ft)	33	50	66	83	100	116	133	149
	Sound (NC)	-	-	20	26	31	36	40	43
	Throw (ft)	Sill or Floor 2-2-2 Sidewall 4-6-9	6-6-6 7-10-13	9-9-10 9-13-17	12-12-13 12-16-21	15-16-17 15-20-25	18-19-20 17-22-28	20-21-22 20-26-32	23-23-23 21-28-35
3 ½ in.	Flow Rate (cfm/ft)	40	60	80	100	120	140	160	180
	Sound (NC)	-	-	20	27	32	36	40	43
	Throw (ft)	Sill or Floor 2-2-2 Sidewall 5-7-9	7-7-7 8-11-14	10-10-11 11-15-19	15-15-15 13-17-22	17-18-19 16-21-26	20-21-22 19-24-30	22-23-24 22-28-34	25-25-26 23-30-37
4 in.	Flow Rate (cfm/ft)	49	73	97	122	146	171	195	219
	Sound (NC)	-	-	21	27	33	37	41	44
	Throw (ft)	Sill or Floor 3-3-3 Sidewall 6-8-11	8-8-8 9-1-16	12-12-13 12-16-20	15-15-16 15-20-25	19-19-20 19-24-29	21-22-23 21-26-32	24-24-25 24-30-36	26-26-27 26-33-40
5 in.	Flow Rate (cfm/ft)	63	95	126	158	190	221	253	284
	Sound (NC)	-	-	22	28	33	38	42	45
	Throw (ft)	Sill or Floor 4-4-4 Sidewall 7-9-12	9-9-9 11-14-19	14-14-14 14-18-22	17-17-17 17-21-26	21-21-22 21-26-31	24-24-24 24-29-35	27-27-27 27-33-39	29-29-29 30-36-43
6 in.	Flow Rate (cfm/ft)	76	114	152	190	228	266	304	342
	Sound (NC)	-	-	22	29	34	39	42	46
	Throw (ft)	Sill or Floor 5-5-5 Sidewall 8-10-13	10-10-10 12-15-18	15-15-15 15-19-23	18-18-18 20-24-28	23-23-23 23-27-32	25-25-25 26-31-37	28-28-28 29-34-40	31-31-31 33-39-45

Performance Notes

1. Tested in accordance with ASHRAE Standard 70 – 2006 Method of Testing for Rating the Performance of Air Outlets and Inlets.
2. Airflow is in cubic feet per minute [cfm].
3. NC, sound pressure levels, are based on a room absorption of 10 dB re 10-12 Watts, and a 10 ft active section. The NC correction values for other lengths are listed in the table below.
4. When used as a return air intake, the NC value given in the performance table will be increased by 4. For return air application, the negative static pressure will be 0.8 times the static pressure value as shown in the performance table.
5. Blanks "-" indicate an NC level below 15.
6. All pressures are in inches of water column [in. w.g.].
7. Pressures not listed can be calculated using the following formula:
Ptotal = Pstatic + Pvelocity
8. Throw values are measured in feet for terminal velocities of:
150 fpm (minimum)
100 fpm (middle)
50 fpm (maximum)
9. These throw values are based on a 4 ft active section of grille with a cooling temperature differential of 20°F. The multiplier factors listed in the table below are applicable for other lengths.

Throw Correction for Length (Multiply)

Active Length	Terminal Velocity		
	150 fpm	100 fpm	50 fpm
1 ft.	0.5	0.6	0.7
10 ft. or Continuous	1.6	1.4	1.2

10. 1/2" core spacing (15B, 16B, 25B, 26B, 27B) not for use in floor applications.

NC Correction for Length

Active Length, ft	1	2	4	6	8	10	15	20	25	30
Correction	-10	-7	-4	-2	-1	0	+2	+3	+4	+5