

LBP/LBPH/LBM/LBMH

Linear Bar Grille

PERFORMANCE DATA

Linear Bar Grille (LBP/LBPH) – Core 15A, Metric Units

Size	Static Pressure (Pa)		3	6	11	17	24	33	44	55
38 mm	L/S/m		19	29	39	48	57	67	77	87
	NC		-	-	-	19	24	28	32	35
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-2.7-4.0	2.1-3.4-4.9	2.4-4.0-5.8	2.7-4.6-6.4	3.0-4.9-7.0	3.7-5.5-7.6
51 mm	L/S/m		29	43	57	73	87	102	116	130
	NC		-	-	-	18	23	28	31	35
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.4	2.1-3.4-4.6	2.7-4.3-5.8	3.4-4.9-6.7	3.7-5.5-7.6	4.3-6.1-8.2	4.6-6.7-8.8
63 mm	L/S/m		40	60	81	101	121	141	161	181
	NC		-	-	-	19	24	29	33	36
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-3.7	2.4-3.7-4.9	3.0-4.6-6.1	4.0-5.5-7.3	4.6-6.4-8.2	4.9-6.7-9.1	6.1-8.2-10.4
76 mm	L/S/m		51	77	102	129	155	180	206	231
	NC		-	-	-	20	25	30	34	35
	Throw (m)	Side Wall	1.2-1.8-2.7	2.1-3.0-4.3	2.7-4.0-5.5	3.7-5.2-6.7	4.6-6.1-7.6	5.5-7.0-8.8	6.1-7.9-10.1	7.0-9.1-11.3
89 mm	L/S/m		64	94	127	158	189	222	252	285
	NC		-	-	-	21	26	31	35	38
	Throw (m)	Side Wall	1.5-2.1-3.0	2.4-3.4-4.6	3.0-4.6-6.1	4.6-5.8-7.3	5.2-6.7-8.2	6.1-7.6-9.4	6.7-8.5-10.7	7.6-9.8-11.9
100 mm	L/S/m		76	113	152	189	226	265	302	341
	NC		-	-	16	22	28	32	36	39
	Throw (m)	Side Wall	1.8-2.4-3.4	2.7-3.7-4.9	3.7-4.9-6.1	4.6-6.1-7.6	5.8-7.3-8.8	6.4-7.9-9.8	7.3-9.1-11.0	7.9-10.1-12.2
125 mm	L/S/m		98	146	194	243	291	341	389	437
	NC		-	-	16	22	27	32	36	39
	Throw (m)	Side Wall	2.1-2.7-3.7	3.4-4.3-5.5	4.3-5.5-6.7	5.2-6.4-7.9	6.4-7.9-9.4	7.3-8.8-10.7	8.2-10.1-11.9	9.1-11.0-13.1
150 mm	L/S/m		121	180	240	301	361	421	480	541
	NC		-	-	18	24	29	34	37	41
	Throw (m)	Side Wall	2.4-3.0-4.0	3.7-4.6-5.8	4.6-5.8-7.0	6.1-7.3-8.5	7.0-8.2-9.8	7.9-9.4-11.3	8.8-10.4-12.2	10.1-11.9-13.7

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

Linear Bar Grille (LBP/LBPH) – Core 16A, Metric Units

Size	Static Pressure (Pa)		3	7	12	20	28	38	50	63
38 mm	L/S/m		22	31	42	53	64	74	84	94
	NC		-	-	22	29	34	38	42	45
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-3.0-4.3	2.1-3.7-5.2	2.7-4.3-6.1	3.0-4.9-6.7	3.7-5.5-7.6	4.0-6.1-8.2
51 mm	L/S/m		31	45	60	76	91	107	121	136
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.4	2.1-3.4-4.6	2.7-4.3-5.8	3.4-4.9-6.7	3.7-5.5-7.6	4.3-6.1-8.2	4.6-6.7-9.1
63 mm	L/S/m		40	60	81	101	121	141	161	181
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-3.7	2.4-3.7-4.9	3.0-4.6-6.1	4.0-5.8-7.3	4.3-6.1-7.9	5.2-7.0-9.1	5.8-7.9-10.1
76 mm	L/S/m		51	76	102	127	152	178	203	229
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.7	2.1-3.0-4.0	2.7-4.0-5.2	3.7-4.9-6.4	4.6-6.1-7.6	5.2-6.7-8.5	6.1-7.9-9.8	6.4-8.5-10.7
89 mm	L/S/m		62	91	122	153	184	214	245	276
	NC		-	-	20	27	32	36	40	43
	Throw (m)	Side Wall	1.5-2.1-2.7	2.4-3.4-4.3	3.4-4.6-5.8	4.0-5.2-6.7	4.9-6.4-7.9	5.8-7.3-9.1	6.7-8.5-10.4	7.0-9.1-11.3
100 mm	L/S/m		73	108	146	181	217	254	290	341
	NC		-	-	21	27	33	37	41	44
	Throw (m)	Side Wall	1.5-2.1-3.0	2.7-3.7-4.6	3.7-4.9-6.1	4.6-5.8-7.3	5.8-7.0-8.5	6.4-7.9-9.8	7.0-8.8-10.7	7.6-9.8-11.9
125 mm	L/S/m		94	141	187	235	282	328	376	424
	NC		-	-	22	28	33	38	42	45
	Throw (m)	Side Wall	2.1-2.7-3.7	3.0-4.0-5.2	4.3-5.5-6.7	4.9-6.4-7.9	6.1-7.6-9.1	7.0-8.5-10.4	7.6-9.4-11.3	8.5-10.4-12.5
150 mm	L/S/m		115	172	231	288	345	403	462	519
	NC		-	-	22	29	34	39	42	46
	Throw (m)	Side Wall	2.4-3.0-4.0	3.4-4.3-5.5	4.6-5.8-7.0	5.8-7.0-8.2	7.0-8.2-9.4	7.6-9.1-10.7	8.5-10.1-11.9	9.4-11.3-13.1

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

PERFORMANCE DATA

Linear Bar Grille (LBP/LBPH) – Core 15B, Metric Units

Size	Static Pressure (Pa)		2	5	9	14	20	27	36	45
38 mm	L/S/m		22	33	43	54	65	76	87	98
	NC		-	-	16	22	27	31	35	38
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-2.1-4.0	2.1-3.7-5.2	2.4-4.0-5.8	3.0-4.9-6.7	3.4-5.2-7.3	3.7-5.8-7.9
51 mm	L/S/m		34	51	68	85	102	119	136	153
	NC		-	-	-	18	23	27	31	34
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.7	2.1-3.4-4.9	2.7-4.3-6.1	3.4-5.2-7.0	4.0-5.8-7.9	4.3-6.4-8.5	4.6-6.7-9.1
63 mm	L/S/m		46	68	91	115	138	161	183	206
	NC		-	-	-	17	22	26	30	33
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-4.0	2.7-4.0-5.2	3.4-4.9-6.4	4.0-5.5-7.3	4.6-6.4-8.5	5.2-7.3-9.4	6.1-8.2-10.7
76 mm	L/S/m		59	90	119	149	178	208	239	268
	NC		-	-	-	17	22	26	30	33
	Throw (m)	Side Wall	1.5-2.1-3.0	2.1-3.0-4.3	3.0-4.3-5.8	3.7-5.2-7.0	4.6-6.1-7.9	5.5-7.3-9.1	6.1-8.2-10.4	7.0-9.1-11.6
89 mm	L/S/m		71	107	144	180	215	251	288	324
	NC		-	-	-	17	22	26	30	33
	Throw (m)	Side Wall	1.5-2.1-3.0	2.7-3.7-4.9	3.7-4.9-6.1	4.6-6.1-7.6	5.5-7.0-8.5	6.1-7.9-9.8	7.0-8.8-11.0	7.6-9.8-12.2
100 mm	L/S/m		87	129	172	215	259	302	344	387
	NC		-	-	-	18	23	27	31	34
	Throw (m)	Side Wall	1.8-2.4-3.4	3.0-4.0-5.2	4.0-5.2-6.4	4.9-6.1-7.6	6.1-7.6-9.1	6.7-8.5-10.4	7.3-9.1-11.3	8.5-10.7-12.8
125 mm	L/S/m		112	166	222	277	333	387	443	499
	NC		-	-	-	18	23	27	31	34
	Throw (m)	Side Wall	2.4-3.0-4.0	3.4-4.3-5.5	4.6-5.8-7.0	5.5-6.7-8.2	6.7-8.2-9.8	7.3-9.1-11.0	8.2-10.1-12.2	9.1-11.3-13.4
150 mm	L/S/m		136	206	274	342	410	480	548	617
	NC		-	-	-	19	24	28	32	35
	Throw (m)	Side Wall	2.7-3.7-4.6	4.0-4.9-6.1	4.9-6.1-7.3	6.1-7.3-8.8	7.3-8.8-10.4	8.5-10.1-11.9	9.1-10.7-12.5	10.4-12.2-14.0

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

Linear Bar Grille (LBP/LBPH) – Core 16B, Metric Units

Size	Static Pressure (Pa)		2	5	9	14	20	27	36	45
38 mm	L/S/m		25	36	48	60	73	85	96	108
	NC		-	17	26	32	37	42	46	49
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-3.0-4.3	2.4-4.0-5.5	2.7-4.3-6.1	3.0-4.9-7.0	3.7-5.5-7.6	4.0-6.1-8.2
51 mm	L/S/m		34	53	70	87	104	121	139	156
	NC		-	-	19	25	30	35	39	43
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.7	2.1-3.4-4.9	2.7-4.3-6.1	3.4-5.2-7.0	3.7-5.5-7.6	4.3-6.1-8.2	4.6-6.7-9.1
63 mm	L/S/m		46	70	93	116	139	163	186	209
	NC		-	-	18	24	29	34	38	42
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-4.0	2.4-3.7-5.2	3.4-4.9-6.4	4.0-5.8-7.6	4.6-6.4-8.2	5.2-7.3-9.4	6.1-8.2-10.7
76 mm	L/S/m		57	87	115	144	173	201	231	259
	NC		-	-	17	23	28	33	37	41
	Throw (m)	Side Wall	1.2-1.8-2.7	2.1-3.0-4.3	3.0-4.0-5.5	3.7-5.2-6.7	4.6-6.1-7.9	5.5-7.3-9.1	6.1-7.9-10.1	7.0-9.1-11.3
89 mm	L/S/m		70	105	139	175	211	245	280	314
	NC		-	-	17	23	28	33	37	41
	Throw (m)	Side Wall	1.5-2.1-3.0	2.4-3.4-4.6	3.7-4.9-6.1	4.3-5.5-7.0	5.2-6.7-8.2	6.1-7.6-9.4	6.7-8.5-10.7	7.6-9.8-11.9
100 mm	L/S/m		82	124	164	206	248	288	328	370
	NC		-	-	18	24	29	34	38	42
	Throw (m)	Side Wall	1.8-2.4-3.4	2.7-3.7-4.9	4.0-5.2-6.4	4.6-5.8-7.3	5.8-7.3-8.8	6.7-8.2-10.1	7.3-9.1-11.0	7.6-10.1-12.2
125 mm	L/S/m		107	161	214	268	322	375	429	483
	NC		-	-	18	24	29	34	38	42
	Throw (m)	Side Wall	2.4-3.0-4.0	3.4-4.3-5.5	4.6-5.8-7.0	5.2-6.4-7.9	6.1-7.6-9.4	7.3-8.8-10.7	7.9-10.1-11.6	8.8-10.7-12.8
150 mm	L/S/m		132	197	263	328	393	459	525	592
	NC		-	-	18	24	29	34	38	42
	Throw (m)	Side Wall	2.7-3.4-4.3	4.0-4.9-6.1	4.9-6.1-7.3	6.1-7.3-8.5	7.0-8.2-9.8	7.6-9.1-11.0	8.5-10.1-11.9	9.4-11.3-13.1

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

PERFORMANCE DATA

Linear Bar Grille (LBP/LBPH) – Core 25B/25C, Metric Units

Size	Static Pressure (Pa)		2	5	10	16	22	30	40	50
38 mm	L/S/m		15	25	33	40	48	56	65	73
	NC		-	-	-	19	24	29	33	36
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.5-2.7-4.0	2.1-3.7-5.2	2.4-4.0-5.8	3.0-4.9-6.7	3.4-5.2-7.3	3.7-5.8-7.9
51 mm	L/S/m		28	42	56	70	84	98	112	125
	NC		-	-	-	18	23	28	32	35
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.7-3.7	2.1-3.4-4.9	2.7-4.3-6.1	3.0-4.9-7.0	4.0-5.8-7.9	4.3-6.4-8.5	4.6-6.7-9.1
63 mm	L/S/m		40	62	82	102	122	143	164	184
	NC		-	-	-	20	25	30	34	37
	Throw (m)	Side Wall	1.2-1.8-2.7	1.8-2.7-3.7	2.4-3.7-5.2	3.4-4.9-6.7	4.0-5.8-7.6	4.6-6.4-8.5	5.5-7.6-9.8	6.4-8.5-11.0
76 mm	L/S/m		54	82	108	136	164	191	218	245
	NC		-	-	-	21	26	31	35	38
	Throw (m)	Side Wall	1.5-2.1-3.0	2.1-3.4-4.6	3.0-4.3-5.8	3.7-5.2-7.0	4.6-6.4-8.2	5.5-7.3-9.4	6.1-8.2-10.4	7.3-9.4-11.9
89 mm	L/S/m		68	102	136	170	204	239	273	307
	NC		-	-	16	22	27	32	36	39
	Throw (m)	Side Wall	1.5-2.1-3.0	2.7-3.7-4.9	3.7-4.9-6.1	4.6-6.1-7.6	5.5-7.0-8.5	6.1-7.9-9.8	7.0-8.8-11.0	7.6-9.8-12.2
100 mm	L/S/m		82	124	164	206	248	288	330	370
	NC		-	-	17	23	28	33	37	40
	Throw (m)	Side Wall	1.8-2.4-3.4	3.0-4.0-5.2	4.0-5.2-6.4	4.9-6.4-7.9	6.1-7.6-9.1	6.7-8.5-10.4	7.3-9.1-11.3	8.5-10.7-12.8
125 mm	L/S/m		110	164	220	274	328	384	438	493
	NC		-	-	18	24	29	34	38	41
	Throw (m)	Side Wall	2.4-3.0-4.0	3.4-4.3-5.5	4.6-5.8-7.0	5.5-6.7-8.2	6.7-8.2-9.8	7.6-9.4-11.3	8.2-10.1-12.2	9.1-11.3-13.4
150 mm	L/S/m		138	206	276	344	412	480	550	620
	NC		-	-	19	25	30	35	39	42
	Throw (m)	Side Wall	2.7-3.4-4.3	4.0-4.9-6.1	4.9-6.1-7.3	6.1-7.3-8.8	7.3-8.8-10.4	8.5-10.1-11.9	9.1-10.7-12.5	10.4-12.2-14.0

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

Linear Bar Grille (LBP/LBPH) – Core 26B/26C, Metric Units

Size	Static Pressure (Pa)		3	6	12	19	27	36	48	60
38 mm	L/S/m		19	29	39	48	57	67	77	87
	NC		-	16	24	31	36	41	45	48
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-3.0-4.3	2.1-3.7-5.2	2.7-4.3-6.1	3.0-4.9-7.0	3.7-5.5-7.6	4.0-6.1-8.2
51 mm	L/S/m		29	45	59	74	90	104	119	133
	NC		-	-	19	26	31	36	40	43
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.7	2.1-3.4-4.9	2.7-4.3-6.1	3.4-5.2-7.3	4.0-5.8-7.9	4.6-6.7-8.8	4.9-7.0-9.4
63 mm	L/S/m		42	62	84	104	124	146	166	186
	NC		-	-	19	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-4.0	2.7-4.0-5.2	3.4-4.9-6.4	4.3-5.8-7.6	4.6-6.4-8.2	5.2-7.3-9.4	6.1-8.2-10.7
76 mm	L/S/m		53	81	107	133	160	186	214	240
	NC		-	-	19	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.7	2.4-3.4-4.6	3.0-4.3-5.8	4.0-5.5-7.0	4.9-6.4-8.2	5.5-7.3-9.4	6.4-8.5-10.7	7.0-9.1-11.6
89 mm	L/S/m		65	98	130	163	195	228	260	293
	NC		-	-	20	27	32	37	41	44
	Throw (m)	Side Wall	1.8-2.4-3.4	2.7-3.7-4.9	3.7-4.9-6.4	4.3-5.8-7.3	5.5-7.0-8.8	6.4-8.2-10.1	7.0-8.8-11.0	7.6-9.8-12.2
100 mm	L/S/m		79	118	158	197	235	276	314	353
	NC		-	-	21	28	33	38	42	45
	Throw (m)	Side Wall	1.8-2.7-3.7	3.0-4.0-5.2	4.0-5.2-6.7	4.6-6.1-7.6	5.8-7.3-9.1	6.7-8.5-10.4	7.6-9.4-11.6	8.5-11.0-12.8
125 mm	L/S/m		104	155	208	259	310	362	414	466
	NC		-	-	21	28	33	38	42	45
	Throw (m)	Side Wall	2.4-3.4-4.3	3.4-4.6-5.8	4.6-5.8-7.3	5.8-7.0-8.5	6.4-7.9-9.8	7.3-9.1-11.0	7.9-9.8-11.9	8.8-11.0-13.1
150 mm	L/S/m		130	195	260	325	390	455	520	586
	NC		-	-	23	30	35	40	44	47
	Throw (m)	Side Wall	2.7-3.7-4.6	4.3-5.2-6.4	5.2-6.4-7.6	6.1-7.3-8.8	7.3-8.8-10.4	8.2-9.8-11.6	8.8-10.7-12.5	9.8-11.6-13.4

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

PERFORMANCE DATA

Linear Bar Grille (LBP/LBPH) – Core 27B/27C, Metric Units

Size	Static Pressure (Pa)		3	6	12	19	27	36	48	60
38 mm	L/S/m		20	29	40	50	59	70	79	90
	NC		-	16	24	31	36	41	45	48
	Throw (m)	Side Wall	0.6-1.2-1.8	1.2-2.1-3.0	1.8-2.7-4.0	2.1-3.4-4.9	2.4-4.0-5.8	2.7-4.6-6.4	3.0-4.9-7.0	3.7-5.5-7.6
51 mm	L/S/m		29	45	59	74	90	104	119	133
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	0.9-1.5-2.1	1.5-2.4-3.4	2.1-3.4-4.6	2.7-4.3-5.8	3.4-4.9-6.7	3.7-5.5-7.6	4.3-6.1-8.2	4.6-6.7-9.1
63 mm	L/S/m		40	60	81	101	119	141	161	181
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.4	1.8-2.7-3.7	2.4-3.7-4.9	3.0-4.6-6.1	4.0-5.8-7.3	4.3-6.1-7.9	5.2-7.0-9.1	5.8-7.9-10.1
76 mm	L/S/m		51	77	102	129	155	180	206	231
	NC		-	-	20	26	31	36	40	43
	Throw (m)	Side Wall	1.2-1.8-2.7	2.1-3.0-4.0	2.7-4.0-5.2	3.7-4.9-6.4	4.6-6.1-7.6	5.2-6.7-8.5	6.1-7.9-9.8	6.4-8.5-10.7
89 mm	L/S/m		62	93	124	155	186	217	248	279
	NC		-	-	20	27	32	36	40	43
	Throw (m)	Side Wall	1.5-2.1-2.7	2.4-3.4-4.3	3.4-4.6-5.8	4.0-5.2-6.7	4.9-6.4-7.9	5.8-7.3-9.1	6.7-8.5-10.4	7.0-9.1-11.3
100 mm	L/S/m		76	113	150	189	226	265	302	339
	NC		-	-	21	27	33	37	41	44
	Throw (m)	Side Wall	1.8-2.4-3.4	2.7-3.7-4.9	3.7-4.9-6.1	4.6-6.1-7.6	5.8-7.3-8.8	6.4-7.9-9.8	7.3-9.1-11.0	7.9-10.1-12.2
125 mm	L/S/m		98	147	195	245	294	342	392	440
	NC		-	-	22	28	33	38	42	45
	Throw (m)	Side Wall	2.1-2.7-3.7	3.4-4.3-5.8	4.3-5.5-6.7	5.2-6.4-7.9	6.4-7.9-9.4	7.3-8.8-10.7	8.2-10.1-11.9	9.1-11.0-13.1
150 mm	L/S/m		118	177	235	294	353	412	471	530
	NC		-	-	22	29	34	39	42	46
	Throw (m)	Side Wall	2.4-3.0-4.0	3.7-4.6-5.5	4.6-5.8-7.0	6.1-7.3-8.5	7.0-8.2-9.8	7.9-9.4-11.3	8.8-10.4-12.2	10.1-11.9-13.7

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. All pressures are in Pascals.
3. Maximum throws are to a terminal velocity of 0.25 m/s, middle throws are to a terminal velocity of 0.5 m/s and minimum throws are to a terminal velocity of 0.75 m/s.
4. Throw values are based on a 1.2 m active section of grille with a cooling temperature differential of 11°C. The multiplier factors listed in the table below are applicable for other lengths.
5. The NC values are based on a room absorption of 10 dB re 10-12 watts.
6. Return air applications, when used as a return air intake, add 4 to NC value shown and multiply Static Pressure by 0.8.
7. Blank (-) spaces indicate an NC level below 15.

Throw Correction for Length (multiply)

Active Length	Terminal Velocity (m/s)		
	0.75	0.5	0.25
0.3 m	0.5	0.6	0.7
3 m or continuous	1.6	1.4	1.2

NC / NR Correction for Various Diffuser Lengths

Length, meters	0.3	0.6	1.2	2.4	2.7	3	4.6	6.1	7.6	9.1
Supply	-16	-11	-6	-3	-2	0	+3	+5	+6	+8
Return	-10	-7	-4	-2	-1	0	+2	+3	+4	+5

PERFORMANCE DATA

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

Size	Static Pressure (Pa)		3	6	11	17	24	33	44	55	68
38 mm	L/S/m NC		17 -	23 -	33 -	42 17	50 21	59 26	67 30	74 33	84 36
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.6-0.6-0.6 1.2-2.1-3.0	1.2-1.2-1.2 1.8-2.7-4.0	1.8-1.8-1.8 2.1-3.4-4.9	2.4-2.4-2.7 2.4-4.0-5.8	2.7-3.0-3.4 2.7-4.6-6.4	3.0-3.4-4.0 3.0-4.9-7.0	3.7-4.0-4.6 3.7-5.5-7.6	4.0-4.6-5.5 4.0-6.1-8.5
51 mm	L/S/m NC		26 -	39 -	53 -	67 17	79 22	93 26	105 30	119 33	133 36
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.4	1.8-1.8-1.8 2.1-3.4-4.6	2.7-2.7-2.7 2.7-4.3-5.8	3.4-3.4-3.7 3.4-4.9-6.7	3.7-4.0-4.6 3.7-5.5-7.6	4.3-4.6-5.2 4.3-6.1-8.2	4.6-5.2-5.8 4.6-6.7-8.8	4.9-5.5-6.1 4.9-7.3-9.8
63 mm	L/S/m NC		36 -	54 -	73 -	91 17	110 23	127 27	147 31	164 34	183 38
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-3.7	2.4-2.4-2.4 2.4-3.7-4.9	3.0-3.0-3.4 3.0-4.6-6.1	4.0-4.3-4.6 4.0-5.5-7.3	4.6-4.9-5.2 4.6-6.4-8.2	4.9-5.5-6.1 4.9-6.7-9.1	6.1-6.1-6.4 6.1-7.3-10.4	6.7-6.7-6.7 6.7-9.1-11.6
76 mm	L/S/m NC		48 -	73 -	96 -	121 20	144 25	169 29	194 33	217 37	242 39
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.4	1.8-1.8-1.8 2.1-3.0-4.3	2.7-2.7-3.0 2.7-4.0-5.5	3.7-3.7-4.0 3.7-5.2-6.7	4.6-4.9-5.2 4.6-6.1-7.6	5.5-5.8-6.1 5.5-7.0-8.8	6.1-6.4-6.7 6.1-7.9-10.1	7.0-7.0-7.0 7.0-9.1-11.3	7.6-7.6-7.6 7.6-9.8-12.2
89 mm	L/S/m NC		62 -	91 -	122 -	152 21	183 26	214 31	245 35	276 38	307 41
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-3.0	2.1-2.1-2.1 2.4-3.4-4.6	3.0-3.0-3.4 3.0-4.6-6.1	4.6-4.6-4.6 4.6-5.8-7.3	5.2-5.5-5.8 5.2-6.7-8.2	6.1-6.4-6.7 6.1-7.6-9.4	6.7-7.0-7.3 6.7-8.5-10.7	7.6-7.6-7.9 7.6-9.8-11.9	8.2-8.2-8.2 8.2-10.4-12.8
100 mm	L/S/m NC		71 -	107 -	144 16	180 22	214 27	249 31	283 35	322 39	356 41
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.4-2.4-2.4 2.7-3.7-4.9	3.7-3.7-4.0 3.7-4.9-6.1	4.6-4.6-4.9 4.6-6.1-7.6	5.8-5.8-6.1 5.8-7.3-8.8	6.4-6.7-7.0 6.4-7.9-9.8	7.3-7.3-7.6 7.3-9.1-11.0	7.9-7.9-8.2 7.9-10.1-12.2	8.8-8.8-9.1 9.1-11.3-13.4
125 mm	L/S/m NC		96 -	143 -	189 18	235 24	282 29	328 33	375 37	423 41	468 43
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.1-2.7-3.7	2.7-2.7-2.7 3.4-4.3-5.5	4.3-4.3-4.3 4.3-5.5-6.7	5.2-5.2-5.2 5.2-6.4-7.9	6.4-6.4-6.7 6.4-7.9-9.4	7.3-7.3-7.3 7.3-8.8-10.7	8.2-8.2-8.2 8.2-10.1-11.9	9.1-11.0-13.1 9.1-11.0-13.1	10.1-12.2-14.3 10.1-12.2-14.3
150 mm	L/S/m NC		118 -	175 -	235 19	294 25	353 30	412 35	468 38	530 41	589 44
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.4-3.0-4.0	3.0-3.0-3.0 3.7-4.6-5.8	4.6-4.6-4.6 4.6-5.8-7.0	5.5-5.5-5.5 6.1-7.3-8.5	7.0-7.0-7.0 7.0-8.2-9.8	7.6-7.6-7.6 7.9-9.4-11.3	8.5-8.5-8.8 8.8-10.4-12.2	9.4-9.4-9.4 10.1-12.2-13.7	10.4-10.4-10.4 11.3-13.1-14.9

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

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

Size	Static Pressure (Pa)		3	7	12	20	28	38	50	63	77
38 mm	L/S/m NC		19 -	29 -	39 21	48 27	59 33	68 38	77 41	87 45	96 48
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.9-0.9-0.9 1.2-2.1-3.0	1.2-1.2-1.2 1.8-3.0-4.3	2.1-2.1-2.1 2.1-3.7-5.2	2.7-2.7-3.0 2.7-4.3-6.1	3.0-3.4-3.7 3.0-4.9-6.7	3.7-4.0-4.6 3.7-5.5-7.6	4.0-4.3-4.9 4.0-6.1-8.2	4.3-4.9-5.5 4.3-6.7-9.1
51 mm	L/S/m NC		28 -	42 -	56 17	68 24	84 30	98 35	112 38	125 42	136 44
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.4	1.8-1.8-1.8 2.1-3.4-4.6	2.7-2.7-2.7 2.7-4.3-5.8	3.4-3.4-3.7 3.4-4.9-6.7	3.7-4.0-4.6 3.7-5.5-7.6	4.3-4.9-5.5 4.3-6.1-8.2	4.6-5.2-5.8 4.6-6.7-9.1	4.9-5.5-6.1 4.9-7.3-9.8
63 mm	L/S/m NC		37 -	54 -	73 16	91 23	110 29	129 34	146 37	164 41	183 44
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-3.7	2.4-2.4-2.4 2.4-3.7-4.9	3.0-3.0-3.4 3.0-4.6-6.1	4.0-4.3-4.6 4.0-5.8-7.3	4.3-4.6-5.2 4.3-6.1-7.9	5.2-5.5-6.1 5.2-7.0-9.1	5.8-6.1-6.4 5.8-7.9-10.1	6.4-6.4-6.7 6.4-8.5-11.0
76 mm	L/S/m NC		45 -	67 -	90 17	112 23	135 29	156 33	180 37	201 41	223 44
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.7	1.8-1.8-1.8 2.1-3.0-4.0	2.7-2.7-2.7 2.7-4.0-5.2	3.7-3.7-4.0 3.7-4.9-6.4	4.6-4.6-4.9 4.6-6.1-7.6	5.2-5.5-5.8 5.2-6.7-8.5	6.1-6.4-6.7 6.1-7.9-9.8	6.4-6.7-7.0 6.4-8.5-10.7	7.0-7.0-7.3 7.0-9.4-11.9
89 mm	L/S/m NC		54 -	81 -	108 17	135 23	161 29	189 34	215 38	243 41	270 44
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-2.7	2.4-2.4-2.4 2.4-3.4-4.3	3.4-3.4-3.4 3.4-4.6-5.8	4.0-4.0-4.3 4.0-5.2-6.7	4.9-5.2-5.5 4.9-6.4-7.9	5.8-6.1-6.4 5.8-7.3-9.1	6.7-6.7-7.0 6.7-8.5-10.4	7.0-7.3-7.6 7.0-9.1-11.3	7.9-7.9-7.9 7.9-10.1-12.5
100 mm	L/S/m NC		65 -	98 -	130 18	163 25	195 30	228 34	260 39	293 42	325 45
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.5-2.1-3.0	2.7-2.7-2.7 2.7-3.7-4.6	3.7-3.7-3.7 3.7-4.9-6.1	4.6-4.6-4.6 4.6-5.8-7.3	5.5-5.8-6.1 5.5-7.0-8.5	6.4-6.4-6.7 6.4-7.9-9.8	7.0-7.3-7.6 7.0-8.8-10.7	7.6-7.6-7.9 7.6-9.8-11.9	8.5-8.5-8.5 8.8-11.0-13.1
125 mm	L/S/m NC		84 -	125 -	167 19	209 26	251 31	293 36	335 40	376 43	418 47
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 2.1-2.7-3.7	2.7-2.7-2.7 3.0-4.0-5.2	4.0-4.0-4.0 4.3-5.5-6.7	4.9-4.9-5.2 4.9-6.4-7.9	6.1-6.1-6.4 6.1-7.6-9.1	7.0-7.0-7.3 7.0-8.5-10.4	7.6-7.6-7.9 7.6-9.4-11.3	8.5-8.5-8.5 8.5-10.4-12.5	9.4-9.4-9.4 9.4-11.6-13.7
150 mm	L/S/m NC		102 -	153 -	204 19	256 25	307 31	358 36	409 40	460 43	511 46
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.4-3.0-4.0	3.0-3.0-3.0 3.4-4.3-5.5	4.3-4.3-4.3 4.6-5.8-7.0	5.5-5.5-5.5 5.8-7.0-8.2	6.7-6.7-6.7 7.0-8.2-9.4	7.6-7.6-7.6 7.6-9.1-10.7	8.5-8.5-8.5 8.5-10.1-11.9	9.1-9.1-9.1 9.4-11.3-13.1	9.8-9.8-9.8 10.4-12.2-14.0

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

PERFORMANCE DATA

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

Size	Static Pressure (Pa)		2	5	9	14	20	27	36	45	56
38 mm	L/S/m NC		19 -	28 -	37 -	46 -	56 19	65 24	74 27	84 30	93 34
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.6-0.6-0.6 1.2-2.1-3.0	1.2-1.2-1.2 1.8-2.7-4.0	2.1-2.1-2.1 2.1-3.7-5.2	2.4-2.7-3.0 2.7-4.0-5.8	3.0-3.4-3.7 3.0-4.9-6.7	3.4-3.7-4.3 3.4-5.2-7.3	3.7-4.3-5.2 3.7-5.8-7.9	4.0-4.6-5.5 4.0-6.4-8.8
51 mm	L/S/m NC		29 -	45 -	60 -	76 -	91 20	107 24	121 28	136 31	152 35
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.7	2.1-2.1-2.1 2.1-3.4-4.9	2.7-2.7-3.0 2.7-4.3-6.1	3.4-3.4-3.7 3.4-5.2-7.0	4.0-4.3-4.9 4.0-5.8-7.9	4.3-4.9-5.5 4.3-6.4-8.5	4.6-5.2-6.1 4.6-6.7-9.1	5.2-5.8-6.4 5.2-7.6-10.1
63 mm	L/S/m NC		42 -	62 -	84 -	104 -	124 20	146 25	166 29	187 32	208 35
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-4.0	2.7-2.7-2.7 2.7-4.0-5.2	3.4-3.4-3.7 3.4-4.9-6.4	4.0-4.3-4.6 4.0-5.5-7.3	4.6-4.9-5.2 4.6-6.4-8.5	5.5-5.8-6.1 5.2-7.3-9.4	6.1-6.4-7.0 6.1-8.2-10.7	7.0-7.3-7.6 7.0-9.4-11.9
76 mm	L/S/m NC		56 -	82 -	110 -	138 17	166 23	194 27	220 31	248 34	276 37
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-3.0	2.1-2.1-2.1 2.1-3.0-4.3	3.0-3.0-3.4 3.0-4.3-5.8	3.7-4.0-4.3 3.7-5.2-7.0	4.6-4.9-5.2 4.6-6.1-7.9	5.5-5.8-6.1 5.5-7.3-9.1	6.1-6.4-7.0 6.1-8.2-10.4	7.0-7.3-7.6 7.0-9.1-11.6	7.6-7.6-7.9 7.6-10.1-12.5
89 mm	L/S/m NC		68 -	104 -	138 -	172 19	206 24	242 28	276 32	310 36	344 39
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.5-2.1-3.0	2.4-2.4-2.4 2.7-3.7-4.9	3.7-3.7-3.7 3.7-4.9-6.1	4.6-4.6-4.9 4.6-6.1-7.6	5.5-5.8-6.1 5.5-7.0-8.5	6.1-6.4-7.0 6.1-7.9-9.8	7.0-7.3-7.6 7.0-8.8-11.0	7.6-7.9-8.2 7.6-9.8-12.2	8.8-8.8-8.8 8.8-11.0-13.4
100 mm	L/S/m NC		82 -	122 -	164 -	204 20	246 25	287 29	328 33	369 37	409 40
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.7-2.7-2.7 3.0-4.0-5.2	4.0-4.0-4.0 4.0-5.2-6.4	4.9-4.9-5.2 4.9-6.1-7.6	6.1-6.1-6.4 6.1-7.6-9.1	6.7-7.0-7.3 6.7-8.5-10.4	7.3-7.6-7.9 7.3-9.1-11.3	8.2-8.2-8.2 8.5-10.7-12.8	9.1-9.1-9.1 9.4-11.6-13.7
125 mm	L/S/m NC		107 -	161 -	214 -	268 21	322 27	375 31	429 35	483 38	536 41
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.4-3.0-4.0	3.0-3.0-3.0 3.4-4.3-5.5	4.3-4.3-4.3 4.6-5.8-7.0	5.5-5.5-5.5 5.5-6.7-8.2	6.7-6.7-7.0 6.7-8.2-9.8	7.3-7.3-7.3 7.3-9.1-11.0	8.2-8.2-8.5 8.2-10.1-12.2	9.1-9.1-9.4 9.1-11.3-13.4	9.8-9.8-9.8 10.4-12.5-14.6
150 mm	L/S/m NC		133 -	200 -	268 16	335 23	401 28	469 32	536 36	603 39	669 42
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.7-3.7-4.6	3.0-3.0-3.0 4.0-4.9-6.1	4.6-4.6-4.6 4.9-6.1-7.3	5.5-5.5-5.5 6.1-7.3-8.8	7.0-7.0-7.0 7.3-8.8-10.4	7.6-7.6-7.6 8.8-10.1-11.9	8.5-8.5-8.5 9.1-10.7-12.5	9.4-9.4-9.4 10.4-12.2-14.0	9.8-9.8-9.8 11.6-13.4-15.2

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

Heavy Duty Mandrel Linear Bar Grille (LBMH) – Core 16B, Metric Units

Size	Static Pressure (Pa)		2	5	9	14	20	27	36	45	56
38 mm	L/S/m NC		19 -	33 -	43 17	54 23	64 28	76 33	87 37	98 41	108 44
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.9-0.9-0.9 1.2-2.1-3.0	1.5-1.5-1.5 1.8-3.0-4.3	2.4-2.4-2.4 2.4-4.0-5.5	2.7-2.7-3.0 2.7-4.3-6.1	3.0-3.4-4.0 3.0-4.9-7.0	3.7-4.0-4.6 3.7-5.5-7.6	4.0-4.6-5.2 4.0-6.1-8.2	4.3-4.9-5.5 4.3-6.7-9.1
51 mm	L/S/m NC		31 -	46 -	62 -	77 20	93 25	108 30	124 34	139 38	155 40
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.7	2.1-2.1-2.1 2.1-3.4-4.9	2.7-2.7-3.0 2.7-4.3-6.1	3.4-3.7-4.0 3.4-5.2-7.0	3.7-4.3-4.9 3.7-5.5-7.6	4.3-4.9-5.5 4.3-6.1-8.2	4.6-5.2-6.1 4.6-6.7-9.1	5.5-5.8-6.1 5.5-7.9-10.4
63 mm	L/S/m NC		42 -	62 -	84 -	104 20	124 25	146 30	167 34	187 37	208 41
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-4.0	2.4-2.4-2.7 2.7-3.7-5.2	3.4-3.4-3.7 3.4-4.9-6.4	4.0-4.3-4.6 4.0-5.8-7.6	4.6-4.9-5.5 4.6-6.4-8.2	5.2-5.8-6.4 5.2-7.3-9.4	6.1-6.4-6.7 6.1-8.2-10.7	6.7-6.7-7.0 6.7-9.1-11.6
76 mm	L/S/m NC		51 -	76 -	102 -	127 19	152 25	178 30	203 33	229 37	254 40
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.7	1.8-1.8-1.8 2.1-3.0-4.3	3.0-3.0-3.0 3.0-4.0-5.5	3.7-3.7-4.0 3.7-5.2-6.7	4.6-4.9-5.2 4.6-6.1-7.9	5.5-5.8-6.1 5.5-7.3-9.1	6.1-6.4-7.0 6.1-7.9-10.1	7.0-7.0-7.3 7.0-9.1-11.3	7.6-7.6-7.6 7.6-9.8-12.2
89 mm	L/S/m NC		62 -	91 -	124 -	153 20	184 25	214 29	245 33	276 37	307 40
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-3.0	2.1-2.1-2.1 2.4-3.4-4.6	3.7-3.7-3.7 3.7-4.9-6.1	4.3-4.3-4.6 4.3-5.5-7.0	5.2-5.5-5.8 5.2-6.7-8.2	6.1-6.4-6.7 6.1-7.6-9.4	6.7-7.0-7.3 6.7-8.5-10.7	7.6-7.6-7.9 7.6-9.8-11.9	8.2-8.2-8.2 8.2-10.4-12.8
100 mm	L/S/m NC		74 -	112 -	149 -	186 21	223 26	260 31	297 35	335 38	372 42
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.4-2.4-2.7 2.7-3.7-4.9	4.0-4.0-4.0 4.0-5.2-6.4	4.6-4.6-4.9 4.6-5.8-7.3	5.8-5.8-6.1 5.8-7.3-8.8	6.7-6.7-7.0 6.7-8.2-10.1	7.3-7.3-7.6 7.3-9.1-11.0	7.9-7.9-8.2 7.9-10.1-12.2	9.1-9.1-9.1 9.1-11.3-13.4
125 mm	L/S/m NC		96 -	144 -	192 -	239 22	287 27	335 32	383 36	429 39	477 42
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.4-3.0-4.0	2.7-2.7-2.7 3.4-4.3-5.5	4.3-4.3-4.3 4.6-5.8-7.0	5.2-5.2-5.2 5.2-6.4-7.9	6.1-6.4-6.7 6.1-7.6-9.4	7.3-7.3-7.3 7.3-8.8-10.7	7.9-7.9-8.2 7.9-10.1-11.6	8.8-8.8-8.8 8.8-10.7-12.8	9.8-9.8-9.8 9.8-11.9-14.0
150 mm	L/S/m NC		116 -	175 -	232 -	291 22	350 27	407 32	466 36	524 39	582 42
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.7-3.4-4.3	3.0-3.0-3.0 4.0-4.9-6.1	4.6-4.6-4.6 4.9-6.1-7.3	5.5-5.5-5.5 6.1-7.3-8.5	7.0-7.0-7.0 7.0-8.2-9.8	7.6-7.6-7.6 7.6-9.1-11.0	8.5-8.5-8.5 8.5-10.1-11.9	9.1-9.1-9.1 9.4-11.3-13.1	10.4-10.4-10.4 10.7-12.5-14.3

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/25B, Metric Units

Size	Static Pressure (Pa)		2	5	10	16	22	30	40	50	62
38 mm	L/S/m NC		19	28	37	46	56	65	74	84	93
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.6-0.6-0.6 1.2-2.1-3.0	1.2-1.2-1.2 1.5-2.7-4.0	2.1-2.1-2.1 2.1-3.7-5.2	2.4-2.7-3.0 2.4-4.0-5.8	3.0-3.4-3.7 3.0-4.9-6.7	3.4-3.7-4.0 3.4-5.2-7.3	3.7-4.3-4.9 3.7-5.8-7.9	4.3-4.9-5.5 4.3-6.4-8.8
51 mm	L/S/m NC		31	45	60	76	91	107	122	138	152
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.7-3.7	2.1-2.1-2.1 2.1-3.4-4.9	2.7-2.7-3.0 2.7-4.3-6.1	3.0-3.4-4.0 3.0-4.9-7.0	4.0-4.3-4.9 4.0-5.8-7.9	4.3-4.9-5.5 4.3-6.4-8.5	4.6-5.2-6.1 4.6-6.7-9.1	5.2-5.8-6.4 5.2-7.6-10.1
63 mm	L/S/m NC		43	67	88	110	132	153	181	194	220
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.7	1.8-1.8-1.8 1.8-2.7-3.7	2.4-2.4-2.7 2.4-3.7-5.2	3.4-3.7-4.0 3.4-4.9-6.7	4.0-4.3-4.9 4.0-5.8-7.6	4.6-5.2-5.8 4.6-6.4-8.5	5.5-6.1-6.7 5.5-7.6-9.8	6.4-6.7-7.0 6.4-8.5-11.0	6.7-7.0-7.3 6.7-9.1-11.9
76 mm	L/S/m NC		59	88	118	147	175	204	234	263	294
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-3.0	2.1-2.1-2.1 2.1-3.4-4.6	3.0-3.0-3.4 3.0-4.3-5.8	3.7-4.0-4.6 3.7-5.2-7.0	4.6-4.9-5.5 4.6-6.4-8.2	5.5-5.8-6.4 5.5-7.3-9.4	6.1-6.7-7.3 6.1-8.2-10.4	7.3-7.3-7.6 7.3-9.4-11.9	7.9-7.9-8.2 7.9-10.4-12.8
89 mm	L/S/m NC		70	105	141	177	206	246	285	318	353
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.5-2.1-3.0	2.4-2.4-2.4 2.7-3.7-4.9	3.7-3.7-3.7 3.7-4.9-6.1	4.6-4.6-4.9 4.6-6.1-7.6	5.5-5.8-6.1 5.5-7.0-8.5	6.1-6.4-6.7 6.1-7.9-9.8	7.0-7.3-7.6 7.0-8.8-11.0	7.6-7.9-8.2 7.6-9.8-12.2	8.8-8.8-8.8 8.8-11.0-13.4
100 mm	L/S/m NC		84	125	167	209	251	293	335	376	418
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.7-2.7-2.7 3.0-4.0-5.2	4.0-4.0-4.0 4.0-5.2-6.4	4.9-4.9-5.2 4.9-6.4-7.9	6.1-6.1-6.4 6.1-7.6-9.1	6.7-7.0-7.3 6.7-8.5-10.4	7.3-7.6-7.9 7.3-9.1-11.3	8.5-8.5-8.5 8.5-10.7-12.8	9.4-9.4-9.4 9.4-11.6-14.0
125 mm	L/S/m NC		112	167	223	279	335	390	448	502	558
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.4-3.0-4.0	3.0-3.0-3.0 3.4-4.3-5.5	4.6-4.6-4.6 4.6-5.8-7.0	5.5-5.5-5.5 5.5-6.7-8.2	6.7-6.7-7.0 6.7-8.2-9.8	7.6-7.6-7.6 7.6-9.4-11.3	8.2-8.2-8.5 8.2-10.1-12.2	9.1-9.1-9.1 9.1-11.3-13.4	10.4-10.4-10.4 10.4-12.5-14.6
150 mm	L/S/m NC		139	209	279	349	418	486	558	626	697
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.7-3.4-4.3	3.0-3.0-3.0 4.0-4.9-6.1	4.6-4.6-4.6 4.9-6.1-7.3	5.8-5.8-5.8 6.1-7.3-8.8	7.0-7.0-7.0 7.3-8.8-10.4	7.6-7.6-7.6 8.5-10.1-11.9	8.8-8.8-8.8 9.1-10.7-12.5	9.4-9.4-9.4 10.4-12.2-14.0	11.0-11.0-11.0 11.6-13.4-15.2

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

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

Size	Static Pressure (Pa)		3	6	12	19	27	36	48	60	75
38 mm	L/S/m NC		20	29	40	50	60	70	79	90	99
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.9-0.9-0.9 1.2-2.1-3.0	1.5-1.5-1.5 1.8-3.0-4.3	2.1-2.1-2.1 2.1-3.7-5.2	2.7-2.7-3.0 2.7-4.3-6.1	3.0-3.4-3.7 3.0-4.9-7.0	3.7-4.0-4.6 3.7-5.5-7.6	4.0-4.6-5.2 4.0-6.1-8.2	4.3-4.9-5.5 4.3-6.7-9.1
51 mm	L/S/m NC		29	45	60	74	90	104	119	135	149
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.7	2.1-2.1-2.1 2.1-3.4-4.9	2.7-2.7-3.0 2.7-4.3-6.1	3.4-3.7-4.0 3.4-5.2-7.3	4.0-4.3-4.6 4.0-5.8-7.9	4.6-4.9-5.5 4.6-6.7-8.8	4.9-5.5-6.1 4.9-7.0-9.4	5.2-5.8-6.7 5.2-7.6-10.4
63 mm	L/S/m NC		40	62	82	102	122	143	163	184	204
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-4.0	2.7-2.7-2.7 2.7-4.0-5.2	3.4-3.4-3.7 3.4-4.9-6.4	4.0-4.3-4.6 4.0-5.5-7.3	4.6-4.9-5.5 4.6-6.4-8.2	5.2-5.8-6.4 5.2-7.3-9.4	6.1-6.4-6.7 6.1-8.2-10.4	6.7-6.7-7.0 6.7-8.8-11.6
76 mm	L/S/m NC		53	79	105	132	158	184	211	235	263
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.7	1.8-1.8-1.8 2.1-3.0-4.3	3.0-3.0-3.4 3.0-4.3-5.8	3.7-4.0-4.3 3.7-5.2-6.7	4.6-4.9-5.5 4.6-6.1-7.9	5.5-5.8-6.1 5.5-7.3-9.1	6.1-6.4-7.0 6.1-8.2-10.1	7.0-7.3-7.6 7.0-9.1-11.3	7.6-7.6-7.6 7.6-10.1-12.2
89 mm	L/S/m NC		65	98	130	164	195	229	262	294	328
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-3.0	2.4-2.4-2.4 2.4-3.4-4.6	3.4-3.4-3.7 3.4-4.6-6.1	4.6-4.6-4.6 4.3-5.8-7.3	5.2-5.5-5.8 5.2-6.7-8.5	6.4-6.4-6.7 6.4-8.2-10.1	7.0-7.0-7.6 6.7-8.5-10.7	7.6-7.6-7.9 7.6-9.4-11.9	8.5-8.5-8.8 8.5-10.7-13.1
100 mm	L/S/m NC		77	116	155	194	232	271	310	349	387
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.7-2.7-2.7 3.0-4.0-5.2	4.0-4.0-4.0 4.0-5.2-6.4	4.9-4.9-5.2 4.9-6.1-7.6	5.8-6.1-6.4 5.8-7.3-8.8	6.7-6.7-7.0 6.7-8.5-10.1	7.3-7.6-7.9 7.3-9.1-11.3	8.2-8.2-8.2 8.2-10.7-12.5	9.1-9.1-9.1 9.1-11.3-13.4
125 mm	L/S/m NC		102	153	204	256	307	358	409	460	511
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.4-3.4-4.0	3.0-3.0-3.0 3.4-4.6-5.5	4.3-4.3-4.3 4.3-5.5-7.0	5.5-5.5-5.5 5.5-6.7-8.2	6.4-6.4-6.7 6.4-8.8-9.4	7.3-7.3-7.6 7.3-9.1-10.7	7.9-8.2-8.5 7.9-9.8-11.9	9.1-9.1-9.1 9.1-10.7-13.1	9.8-9.8-9.8 9.8-11.6-14.0
150 mm	L/S/m NC		130	195	260	325	390	455	520	586	651
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.7-3.7-4.6	3.0-3.0-3.0 4.0-4.9-6.1	4.6-4.6-4.6 5.2-6.4-7.6	5.8-5.8-5.8 6.1-7.3-8.8	7.0-7.0-7.0 7.0-8.5-10.1	7.6-7.6-7.6 7.9-9.4-11.3	8.5-8.5-8.8 8.5-10.4-12.2	9.4-9.4-9.4 9.1-11.3-13.4	10.7-10.7-10.7 10.7-12.5-14.3

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

PERFORMANCE DATA

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

Size	Static Pressure (Pa)		3	6	12	19	27	36	48	60	62
38 mm	L/S/m		20	29	40	50	59	70	79	90	93
	NC		-	16	24	31	36	41	45	48	34
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.6-1.2-1.8	0.6-0.6-0.6 1.2-2.1-3.0	1.2-1.2-1.2 1.8-2.7-4.0	1.8-1.8-1.8 2.1-3.4-4.9	2.4-2.4-2.7 2.4-4.0-5.8	2.7-3.0-3.4 2.7-4.6-6.4	3.0-3.4-4.0 3.0-4.9-7.0	3.7-4.0-4.6 3.7-5.5-7.6	4.3-4.9-5.5 4.3-6.4-8.8
51 mm	L/S/m		29	45	59	74	90	104	119	133	152
	NC		-	-	20	26	31	36	40	43	36
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 0.9-1.5-2.1	1.2-1.2-1.2 1.5-2.4-3.4	1.8-1.8-1.8 2.1-3.4-4.6	2.7-2.7-2.7 2.7-4.3-5.8	3.4-3.4-3.7 3.4-4.9-6.7	3.7-4.0-4.6 3.7-5.5-7.6	4.3-4.6-5.2 4.3-6.1-8.2	4.6-5.2-5.8 4.6-6.7-9.1	5.2-5.8-6.4 5.2-7.6-10.1
63 mm	L/S/m		40	60	81	101	119	141	161	181	220
	NC		-	-	20	26	31	36	40	43	37
	Throw (m)	Sill or Floor Sidewall	0.3-0.3-0.3 1.2-1.8-2.4	1.5-1.5-1.5 1.8-2.7-3.7	2.4-2.4-2.4 2.4-3.7-4.9	3.0-3.0-3.4 3.0-4.6-6.1	4.0-4.3-4.6 4.0-5.8-7.3	4.6-4.9-5.2 4.3-6.1-7.9	4.9-5.5-6.1 5.2-7.0-9.1	6.1-6.1-6.4 5.8-7.9-10.1	6.7-7.0-7.3 6.7-9.1-11.9
76 mm	L/S/m		51	77	102	129	155	180	206	231	294
	NC		-	-	20	26	31	36	40	43	40
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.2-1.8-2.7	1.8-1.8-1.8 2.1-3.0-4.0	2.7-2.7-3.0 2.7-4.0-5.2	3.7-3.7-4.0 3.7-4.9-6.4	4.6-4.9-5.2 4.6-6.1-7.6	5.5-5.8-6.1 5.2-6.7-8.5	6.1-6.4-6.7 6.1-7.9-9.8	7.0-7.0-7.0 6.4-8.5-10.7	7.9-7.9-8.2 7.9-10.4-12.8
89 mm	L/S/m		62	93	124	155	186	217	248	279	353
	NC		-	-	20	27	32	36	40	43	41
	Throw (m)	Sill or Floor Sidewall	0.6-0.6-0.6 1.5-2.1-2.7	2.1-2.1-2.1 2.4-3.4-4.3	3.0-3.0-3.4 3.4-4.6-5.8	4.6-4.6-4.6 4.0-5.2-6.7	5.2-5.5-5.8 4.9-6.4-7.9	6.1-6.4-6.7 5.8-7.3-9.1	6.7-7.0-7.3 6.7-8.5-10.4	7.6-7.6-7.9 7.0-9.1-11.3	8.8-8.8-8.8 8.8-11.0-13.4
100 mm	L/S/m		76	113	150	189	226	265	302	339	418
	NC		-	-	21	27	33	37	41	44	41
	Throw (m)	Sill or Floor Sidewall	0.9-0.9-0.9 1.8-2.4-3.4	2.4-2.4-2.4 2.7-3.7-4.9	3.7-3.7-4.0 3.7-4.9-6.1	4.6-4.6-4.9 4.6-6.1-7.6	5.8-5.8-6.1 5.8-7.3-8.8	6.4-6.7-7.0 6.4-7.9-9.8	7.3-7.3-7.6 7.3-9.1-11.0	7.9-7.9-8.2 7.9-10.1-12.2	9.4-9.4-9.4 9.4-11.6-14.0
125 mm	L/S/m		98	147	195	245	294	342	392	440	558
	NC		-	-	22	28	33	38	42	45	43
	Throw (m)	Sill or Floor Sidewall	1.2-1.2-1.2 2.1-2.7-3.7	2.7-2.7-2.7 3.4-4.3-5.8	4.3-4.3-4.3 4.3-5.5-6.7	5.2-5.2-5.2 5.2-6.4-7.9	6.4-6.4-6.7 6.4-7.9-9.4	7.3-7.3-7.3 7.3-8.8-10.7	8.2-8.2-8.2 8.2-10.1-11.9	8.8-8.8-8.8 9.1-11.0-13.1	10.4-10.4-10.4 10.4-12.5-14.6
150 mm	L/S/m		118	177	235	294	353	412	471	530	697
	NC		-	-	22	29	34	39	42	46	45
	Throw (m)	Sill or Floor Sidewall	1.5-1.5-1.5 2.4-3.0-4.0	3.0-3.0-3.0 3.7-4.6-5.5	4.6-4.6-4.6 4.6-5.8-7.0	5.5-5.5-5.5 6.1-7.3-8.5	7.0-7.0-7.0 7.0-8.2-9.8	7.6-7.6-7.6 7.9-9.4-11.3	8.5-8.5-8.5 8.8-10.4-12.2	9.4-9.4-9.4 10.1-11.9-13.7	11.0-11.0-11.0 11.6-13.4-15.2

Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2023 "Method of Testing for Rating the Performance of Air Outlets and Inlets"
2. All pressures are in Pascals.
3. Maximum throws are to a terminal velocity of 0.25 m/s, middle throws are to a terminal velocity of 0.5 m/s and minimum throws are to a terminal velocity of 0.75 m/s.
4. 3Throw values are based on a 1.2 m active section of grille with a cooling temperature differential of 11°C. The multiplier factors listed in the table below are applicable for other lengths.
5. The NC values are based on a room absorption of 10 dB re 10-12 watts.
6. Return air applications, when used as a return air intake, add 4 to NC value shown and multiply Static Pressure by 0.8.
7. Blank (-) spaces indicate an NC level below 15.

Throw Correction for Length (multiply)

Active Length	Terminal Velocity (m/s)		
	0.75	0.5	0.25
0.3 m	0.5	0.6	0.7
3 m or continuous	1.6	1.4	1.2

NC Correction for Length

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