Model LBG
Linear Bar Grilles

شركة خالد لصناعة
Khalid Manufacturing Company

Introduction

KMC Linear Bar Grilles are designed to have combined benefits of architectural beauty with performance versatility. These Grilles are an excellent choice for applications where they are exposed and accessible to heavy traffic.

With fixed bar profiles parallel to the long dimension , the linear bar grilles are rugged in construction and a fixed air pattern effectively limit any potential for unauthorized tampering.

Application

- Recommended for heating, cooling, or general ventilation applications
- Supply or return air systems
- Sill installation blankets glass or outer walls.
- High sidewall installation gives horizontal spread.
- Ceiling installed models are available with welded-in cores.

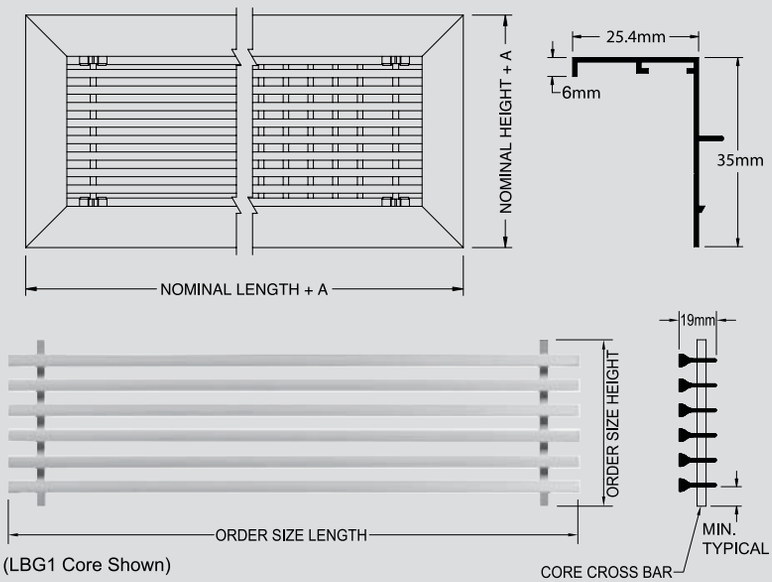
Product Features

- Heavy gauge, extruded aluminum construction
- Removable core separates from its frame – no need for a “frame in a frame” or sub-frame assembly. Easy accessibility to ducts for servicing or cleaning purposes, or for air flow adjustment.
- Airline models include 6mm wide bars on 12mm centers (Model LBG)
- Core deflection angles of 0°, 15°, or 45° for precise directional control of supply air or return air use.
- Fastening methods include visible border screws, or concealed mounting options.
- Powder coated to RAL 9010 finish or natural anodized.
- Lengths to 2500mm for full sections.
- Unlimited length continuous runs (2500mm max sections) using frame alignment strips.
- Heights from 50mm to 450mm (with removable core).
- Welded-in core construction on heights over 450mm (cores non-removable).
- Frame less construction to suite field requirements.

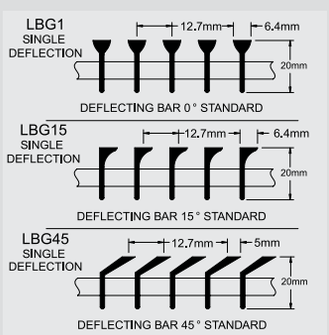
Grille Options

- Aluminum opposed blade volume control dampers – minimum 100mm height.
- Custom colors
- Mitered corners
- Blank off Panels

Bar Thickness & Spacing	Border type	Core Deflection		
		0°	15°	45°
6.4mm wide bars on 12.7mm centers	6, 7, 9	LBG 1	LBG 15	LBG 45
	Core Only	LBG 1	LBG 15	LBG 45

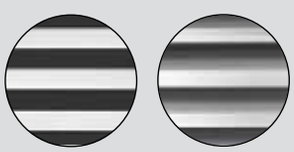


6.4mm Wide Bars on 12.7mm Centers



CORE FACE VIEWS
(APPROXIMATELY FULL SCALE)

LBG1, LBG15 **LBG45**



Product Selection Check List

- Select Unit size based on desired performance characteristics.
- Select outlet type by Model No. (Blade angle core style).
- Select fastening type (face / concealed)
- Select damper, if desired
- Select Finish

*In the interest of product development, KMC reserves the right to make changes without notice.

Model LBG
Linear Bar Grilles

Performance Data

LBG-1 - 0° DEFLECTION

NECK m2	Core Velocity (m/s)		1.5			2.0			2.5			3.0			3.5			4.0			4.5			5.0			5.5		
	Ps		5.00			7.50			12.50			20.00			27.50			35.00			45.00			55.00			65.00		
37.5	CMH / M		45			56			72			89			100			117			128			145			162		
	NC		<20			<20			<20			<20			21			24			26			28			30		
	Throw	Side Wall	0.9	1.5	2.7	1.2	1.8	3.4	1.5	2.4	4.0	1.8	2.7	4.3	2.1	3.4	4.6	2.4	3.4	4.9	2.7	3.7	5.2	3.0	4.0	5.5	3.4	4.0	5.8
		Sill /Floor	0.6	1.2	2.1	0.9	1.5	2.7	1.2	1.8	3.0	1.5	2.1	3.4	1.8	2.7	3.7	1.8	2.7	4.0	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.0	4.6
50	CMH / M		112			151			190			229			262			301			340			379			413		
	NC		<20			<20			<20			22			25			28			30			32			34		
	Throw	Side Wall	1.5	2.1	4.6	2.1	3.0	5.5	2.4	3.7	6.4	3.0	4.6	7.0	3.4	5.2	7.3	4.0	5.5	7.9	4.6	6.1	8.5	4.9	6.4	8.8	5.5	6.7	9.5
		Sill /Floor	1.2	1.8	3.7	1.8	2.4	4.3	1.8	2.7	5.2	2.4	3.7	5.5	2.7	4.0	5.8	3.0	4.3	6.4	3.7	4.9	6.7	4.0	5.2	7.0	4.3	5.2	7.3
62.5	CMH / M		184			245			307			368			429			485			546			608			669		
	NC		<20			<20			20			24			27			30			32			34			36		
	Throw	Side Wall	1.8	2.7	5.8	2.4	4.0	7.0	3.0	4.9	7.9	4.0	5.8	8.8	4.6	6.7	9.5	5.2	7.0	10.1	5.8	7.6	10.7	6.4	7.9	11.3	6.7	8.2	11.9
		Sill /Floor	1.5	2.1	4.6	1.8	3.0	5.5	2.4	4.0	6.4	3.0	4.6	7.0	3.7	5.2	7.3	4.0	5.5	7.9	4.6	6.1	8.5	5.2	6.4	8.8	5.2	6.4	9.5
75	CMH / M		251			335			424			507			591			675			758			842			926		
	NC		<20			<20			22			26			29			31			34			36			38		
	Throw	Side Wall	2.1	3.4	6.7	3.0	4.6	8.2	3.7	5.5	9.5	4.6	6.7	10.4	5.2	7.9	11.0	6.1	8.2	11.9	6.7	8.8	12.5	7.6	9.5	13.1	7.9	9.8	14.0
		Sill /Floor	1.8	2.7	5.2	2.4	3.7	6.4	2.7	4.3	7.3	3.7	5.2	8.2	4.0	6.4	8.5	4.9	6.4	9.5	5.2	7.0	9.8	6.1	7.3	10.4	6.4	7.6	11.0
87.5	CMH / M		323			429			535			647			753			859			965			1076			1182		
	NC		<20			<20			23			27			30			32			35			37			39		
	Throw	Side Wall	2.4	3.7	7.6	3.4	5.2	9.5	4.3	6.4	10.7	5.2	7.6	11.6	5.8	8.8	12.5	6.7	9.5	13.4	7.6	10.1	14.3	8.5	10.7	14.9	9.1	11.0	15.5
		Sill /Floor	1.8	2.7	6.1	2.7	4.0	7.3	3.4	5.2	8.5	4.0	6.1	9.1	4.6	7.0	9.8	5.2	7.3	10.7	6.1	7.9	11.3	6.7	8.5	11.9	7.3	8.5	12.2
100	CMH / M		390			524			652			786			914			1043			1177			1305			1439		
	NC		<20			<20			24			27			31			33			36			38			40		
	Throw	Side Wall	2.7	4.3	8.2	3.7	5.5	10.4	4.6	7.0	11.6	5.5	8.2	12.8	6.4	9.8	13.7	7.3	10.4	14.6	8.2	11.0	15.5	9.5	11.6	16.5	10.1	12.2	17.4
		Sill /Floor	2.1	3.4	6.4	2.7	4.3	8.2	3.7	5.5	9.1	4.3	6.4	10.1	5.2	7.6	11.0	5.8	8.2	11.6	6.4	8.5	12.2	7.3	9.1	13.1	7.9	9.8	13.7
125	CMH / M		530			708			887			1065			1238			1416			1595			1773			1946		
	NC		<20			21			25			29			32			35			37			39			41		
	Throw	Side Wall	3.4	4.9	9.8	4.3	6.4	12.2	5.5	8.2	13.7	6.4	9.8	14.9	7.6	11.3	16.2	8.5	12.2	17.1	9.8	12.8	18.3	11.0	13.7	19.2	11.6	14.3	20.1
		Sill /Floor	2.7	4.0	7.6	3.4	5.2	9.8	4.3	6.4	11.0	5.2	7.6	11.9	6.1	8.8	12.8	6.7	9.8	13.4	7.6	10.1	14.3	8.5	11.0	15.2	9.1	11.3	15.9
150	CMH / M		669			892			1121			1344			1567			1790			2013			2236			2459		
	NC		<20			22			26			30			33			36			38			40			42		
	Throw	Side Wall	3.7	5.5	11.0	4.9	7.3	13.7	6.1	9.1	15.2	7.3	11.0	16.8	8.5	12.8	18.0	9.8	13.7	19.2	11.0	14.3	20.4	12.2	15.2	21.6	13.1	16.2	22.6
		Sill /Floor	2.7	4.3	8.5	4.0	5.8	11.0	4.9	7.3	12.2	5.8	8.5	13.1	6.7	10.1	14.3	7.6	11.0	15.2	8.5	11.3	16.2	9.8	12.2	17.1	10.4	12.8	17.7
200	CMH / M		948			1266			1584			1901			2214			2532			2849			3167			3479		
	NC		<20			23			28			31			34			37			39			42			44		
	Throw	Side Wall	4.3	6.4	13.1	5.8	8.8	16.2	7.3	11.0	18.3	8.8	13.1	19.8	10.1	15.2	21.3	11.6	16.2	22.9	13.1	17.4	24.4	14.6	18.3	25.6	15.5	18.9	26.8
		Sill /Floor	3.4	5.2	10.4	4.6	7.0	12.8	5.8	8.5	14.3	7.0	10.4	15.5	7.9	12.2	16.8	9.1	12.8	18.0	10.4	13.7	19.2	11.6	14.3	20.1	12.2	14.9	21.3
250	CMH / M		1227			1639			2046			2459			2866			3273			3686			4093			4505		
	NC		<20			24			29			32			36			38			41			43			45		
	Throw	Side Wall	4.9	7.3	14.9	6.7	9.8	18.6	8.2	12.5	20.7	9.8	14.9	22.6	11.6	17.4	24.4	13.1	18.6	26.2	14.9	19.5	27.7	16.5	20.7	29.3	17.7	21.6	30.5
		Sill /Floor	4.0	5.8	11.9	5.2	7.6	14.6	6.4	9.8	16.5	7.6	11.9	17.7	9.1	13.7	19.2	10.4	14.6	20.7	11.9	15.5	22.0	13.1	16.5	23.2	14.0	17.1	24.1
300	CMH / M		1506			2007			2515			3017			3518			4020			4522			5024			5526		
	NC		<20			25			30			33			36			39			41			44			46		
	Throw	Side Wall	5.5	8.2	16.5	7.3	11.0	20.4	9.1	13.7	22.9	11.0	16.5	25.0	12.8	19.2	27.1	14.6	20.4	29.0	16.5	21.6	30.8	18.3	22.9	32.3	19.5	24.1	33.8
		Sill /Floor	4.3	6.4	13.1	5.8	8.5	16.2	7.3	11.0	18.0	8.5	13.1	19.8	10.1	15.2	21.3	11.6	16.2	22.9	13.1	17.1	24.4	14.3	18.0	25.6	15.5	18.9	26.8
450	CMH / M		2342			3123			3909			4689			5470			6251			7031			7812			8593		
	NC		21			27			32			35			38			41			43			46			47		
	Throw	Side Wall	6.7	10.4	20.4	9.1	13.7	25.6	11.3	17.1	28.7	13.7	20.4	31.4	15.9	23.8	33.8	18.3	25.6	36.0	20.4	27.1	38.4	22.9	28.7	40.2	24.4	29.9	42.4
		Sill /Floor	5.2	8.2	16.2	7.3	11.0	20.1	8.8	13.4	22.6	11.0	16.2	24.7	12.5	18.9	26.8	14.3	20.1	28.4	16.2	21.3	30.5	18.0	22.6	31.7	19.2	23.5	33.5
600	CMH / M		3178			4238			5303			6362			7422			8481			9541			10600			11659		
	NC		23			28			33			37			40			42			45			47			49		
	Throw	Side Wall	7.9	11.9	23.8	10.7	15.9	29.6	13.1	19.8	33.2	15.9	23.8	36.3	18.6	27.7	39.3	21.3	29.6	42.1	23.8	31.4	44.5	26.5	33.2	47.0	28.4	34.8	49.4
		Sill /Floor	6.4	9.5	18.9	8.5	12.5	23.5	10.4	15.5	26.2	12.5	18.9	28.7	14.6	22.0	31.1	16.8	23.5	33.2	18.9	24.7	35.1	21.0	26.2	37.2	22.3	27.4	39.0

Note:
Data based on 1200 mm active length. For other active lengths, use the following adjustment factors :

If grille length is:	0.6m	1.2m	1.8m	2.4m	2.4m	3m+
Add to NC value:	-3	0	+2	+3	+3	+4
Multiply Throw Dist by:	0.71	0	1.22	1.41	1.41	1.58

Model LBG
Linear Bar Grilles

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Performance Data

LBG-15 - 15° Deflection

NECK m2	Core Velocity (m/s)		1.5			2			2.5			3			3.5			4			4.5			5			5.5		
	Ps		5			10			15			20			27.5			37.5			45			57.5			67.5		
37.5	CMH / M		4			5			7			8			9			11			12			13			16		
	NC		<20			<20			<20			22			26			29			32			35			38		
	Throw	Side Wall	0.9	1.5	2.7	1.2	1.8	3.4	1.5	2.4	4.0	1.8	2.7	4.3	2.1	3.4	4.6	2.4	3.4	4.9	2.7	3.7	5.2	3.0	4.0	5.5	3.4	4.0	5.8
		Sill /Floor	0.6	1.2	2.1	0.9	1.5	2.7	1.2	1.8	3.0	1.5	2.1	3.4	1.8	2.7	3.7	1.8	2.7	4.0	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.0	4.6
50	CMH / M		112			151			190			229			262			301			340			379			390		
	NC		<20			<20			21			26			30			33			37			39			42		
	Throw	Side Wall	1.5	2.4	4.6	2.1	3.0	5.5	2.4	4.0	6.4	3.0	4.6	7.0	3.7	5.2	7.3	4.0	5.5	7.9	4.6	6.1	8.5	5.2	6.4	8.8	5.5	6.7	9.5
		Sill /Floor	1.2	1.8	3.7	1.8	2.4	4.3	1.8	3.0	5.2	2.4	3.7	5.5	2.7	4.0	5.8	3.0	4.3	6.4	3.7	4.9	6.7	4.0	5.2	7.0	4.3	5.2	7.3
62.5	CMH / M		184			245			307			368			429			485			546			608			669		
	NC		<20			<20			23			28			32			36			39			41			44		
	Throw	Side Wall	1.8	3.0	5.8	2.7	4.0	7.0	3.4	4.9	7.9	4.0	5.8	8.8	4.6	6.7	9.5	5.2	7.0	10.1	5.8	7.6	10.7	6.4	7.9	11.3	6.7	8.2	11.9
		Sill /Floor	1.5	2.4	4.6	2.1	3.0	5.5	2.7	4.0	6.4	3.0	4.6	7.0	3.7	5.2	7.3	4.0	5.5	7.9	4.6	6.1	8.5	5.2	6.4	8.8	5.2	6.4	9.5
75	CMH / M		251			335			424			507			591			675			758			842			948		
	NC		<20			<20			25			29			33			37			40			43			45		
	Throw	Side Wall	2.4	3.4	7.0	3.0	4.6	8.2	4.0	5.8	9.5	4.6	7.0	10.4	5.5	7.9	11.0	6.1	8.2	11.9	7.0	8.8	12.5	7.6	9.5	13.1	7.9	9.8	13.7
		Sill /Floor	1.8	2.7	5.5	2.4	3.7	6.4	3.0	4.6	7.3	3.7	5.5	8.2	4.3	6.4	8.5	4.9	6.4	9.5	5.5	7.0	9.8	6.1	7.3	10.4	6.4	7.6	11.0
87.5	CMH / M		323			429			535			647			753			859			965			1076			1171		
	NC		<20			20			26			31			35			38			41			44			46		
	Throw	Side Wall	2.4	4.0	7.6	3.4	5.2	9.5	4.3	6.4	10.7	5.2	7.6	11.6	6.1	8.8	12.5	7.0	9.5	13.4	7.6	10.1	14.3	8.5	10.7	14.9	9.1	11.0	15.9
		Sill /Floor	1.8	3.0	6.1	2.7	4.0	7.3	3.4	5.2	8.5	4.0	6.1	9.1	4.9	7.0	9.8	5.5	7.3	10.7	6.1	7.9	11.3	6.7	8.5	11.9	7.3	8.5	12.5
100	CMH / M		390			524			652			786			914			1043			1177			1305			1450		
	NC		<20			21			27			31			35			39			42			45			47		
	Throw	Side Wall	2.7	4.3	8.5	3.7	5.8	10.4	4.9	7.0	11.6	5.8	8.5	12.8	6.7	9.8	13.7	7.6	10.4	14.6	8.5	11.0	15.5	9.5	11.6	16.5	10.1	12.2	17.4
		Sill /Floor	2.1	3.4	6.7	2.7	4.6	8.2	4.0	5.5	9.1	4.6	6.7	10.1	5.2	7.6	11.0	6.1	8.2	11.6	6.7	8.5	12.2	7.3	9.1	13.1	7.9	9.8	13.7
125	CMH / M		530			708			887			1065			1238			1416			1595			1773			1952		
	NC		<20			22			28			33			37			40			43			46			48		
	Throw	Side Wall	3.4	4.9	10.1	4.6	6.7	12.2	5.5	8.2	13.7	6.7	10.1	14.9	7.6	11.3	16.2	8.8	12.2	17.1	10.1	12.8	18.3	11.0	13.7	19.2	11.6	14.3	20.1
		Sill /Floor	2.7	4.0	7.9	3.7	5.2	9.8	4.3	6.4	11.0	5.2	7.9	11.9	6.1	8.8	12.8	7.0	9.8	13.4	7.9	10.1	14.3	8.5	11.0	15.2	9.1	11.3	15.9
150	CMH / M		669			892			1121			1344			1567			1790			2013			2236			2453		
	NC		<20			23			29			34			38			41			44			47			49		
	Throw	Side Wall	3.7	5.5	11.3	4.9	7.3	13.7	6.1	9.5	15.2	7.3	11.3	16.8	8.8	12.8	18.0	10.1	13.7	19.2	11.3	14.3	20.4	12.5	15.2	21.6	13.1	15.9	22.6
		Sill /Floor	2.7	4.3	8.8	4.0	5.8	11.0	4.9	7.3	12.2	5.8	8.8	13.1	7.0	10.1	14.3	7.9	11.0	15.2	8.8	11.3	16.2	9.8	12.2	17.1	10.4	12.5	17.7
200	CMH / M		948			1266			1584			1901			2214			2532			2849			3167			3457		
	NC		<20			25			30			35			39			43			46			48			51		
	Throw	Side Wall	4.6	6.7	13.4	5.8	8.8	16.2	7.3	11.0	18.3	8.8	13.4	19.8	10.4	15.2	21.3	11.9	16.2	22.9	13.4	17.4	24.4	14.9	18.3	25.6	15.5	19.2	26.8
		Sill /Floor	3.7	5.2	10.7	4.6	7.0	12.8	5.8	8.5	14.3	7.0	10.7	15.5	8.2	12.2	16.8	9.5	12.8	18.0	10.7	13.7	19.2	11.9	14.3	20.1	12.2	15.2	21.3
250	CMH / M		1227			1639			2046			2459			2866			3273			3686			4093			4517		
	NC		<20			26			32			36			40			44			47			50			52		
	Throw	Side Wall	5.2	7.6	15.2	6.7	10.1	18.6	8.5	12.5	20.7	10.1	15.2	22.6	11.9	17.4	24.4	13.4	18.6	26.2	15.2	19.5	27.7	16.8	20.7	29.3	17.7	21.6	30.5
		Sill /Floor	4.0	6.1	12.2	5.2	7.9	14.6	6.7	9.8	16.5	7.9	12.2	17.7	9.5	13.7	19.2	10.7	14.6	20.7	12.2	15.5	22.0	13.1	16.5	23.2	14.0	17.1	24.1
300	CMH / M		1506			2007			2515			3017			3518			4020			4522			5024			5520		
	NC		<20			27			32			37			41			45			48			50			53		
	Throw	Side Wall	5.5	8.5	16.8	7.3	11.3	20.4	9.5	14.0	22.9	11.3	16.8	25.0	13.1	19.2	27.1	14.9	20.4	29.0	16.8	21.6	30.8	18.6	22.9	32.3	19.5	24.1	33.8
		Sill /Floor	4.3	6.7	13.1	5.8	8.8	16.2	7.3	11.0	18.0	8.8	13.1	19.8	10.4	15.2	21.3	11.9	16.2	22.9	13.1	17.1	24.4	14.6	18.0	25.6	15.5	18.9	26.8
450	CMH / M		2342			3123			3909			4689			5470			6251			7031			7812			8587		
	NC		36			49			58			66			73			80			85			88			94		
	Throw	Side Wall	7.0	10.4	21.0	9.1	14.0	25.6	11.6	17.4	28.7	14.0	21.0	31.4	16.2	23.8	33.8	18.6	25.6	36.0	21.0	27.1	38.4	23.2	28.7	40.2	24.4	29.9	42.4
		Sill /Floor	5.5	8.2	16.8	7.3	11.0	20.1	9.1	13.7	22.6	11.0	16.8	24.7	12.8	18.9	26.8	14.6	20.1	28.4	16.8	21.3	30.5	18.3	22.6	31.7	19.2	23.5	33.5
600	CMH / M		3178			4238			5303			6362			7422			8481			9541			10600			11654		
	NC		22			30			36			40			44			48			51			54			56		
	Throw	Side Wall	8.2	12.2	24.4	11.0	16.2	29.6	13.4	20.4	33.2	16.2	24.4	36.3	18.9	27.7	39.3	21.6	29.6	42.1	24.4	31.4	44.5	27.1	33.2	47.0	28.4	34.8	49.4
		Sill /Floor	6.4	9.8	19.2	8.5	12.8	23.5	10.7	16.2	26.2	12.8	19.2	28.7	14.9	22.0	31.1	17.1	23.5	33.2	19.2	24.7	35.1	21.3	26.2	37.2	22.3	27.4	39.0

Note:
Data based on 1200 mm active length. For other active lengths, use the following adjustment factors :

If grille length is:	0.6m	1.2m	1.8m	2.4m	3m+
Add to NC value:	-3	0	+2	+3	+4
Multiply Throw Dist by:	0.71	0	1.22	1.41	1.58

Model LBG
Linear Bar Grilles

Performance Data

LBG-45 45° Deflection

NOMINAL DUCT HEIGHT	Core Velocity (m/s)	1.0			1.3			1.5			1.8			2.0			2.3			2.5		
	Ps	5			7.5			10			12.5			17.5			22.5			27.5		
50	CMH / M	78			95			112			134			151			167			190		
	NC	<20			22			26			30			34			37			40		
	Throw	1.5	2.1	4.3	1.8	2.7	5.5	2.1	3.4	6.1	2.4	3.7	6.4	2.7	4.3	7.0	3.4	4.9	7.3	3.7	5.5	7.6
62.5	CMH / M	123			151			184			212			245			273			307		
	NC	<20			24			28			32			36			39			42		
	Throw	1.8	2.7	5.5	2.1	3.4	6.7	2.7	4.0	7.6	3.0	4.9	8.2	3.7	5.5	8.8	4.0	6.1	9.1	4.6	6.7	9.8
75	CMH / M	167			212			251			296			335			379			424		
	NC	<20			25			30			34			37			40			43		
	Throw	2.1	3.4	6.4	2.7	4.0	7.9	3.4	4.9	8.8	3.7	5.5	9.5	4.3	6.4	10.4	4.9	7.3	11.0	5.5	7.9	11.6
87.5	CMH / M	217			268			323			374			429			485			535		
	NC	20			26			31			35			38			41			44		
	Throw	2.4	3.7	7.3	3.0	4.6	9.1	3.7	5.5	10.1	4.3	6.4	11.0	4.9	7.3	11.6	5.5	8.2	12.2	6.1	9.1	13.1
100	CMH / M	262			329			390			457			524			585			652		
	NC	21			27			32			36			39			42			45		
	Throw	2.7	4.0	7.9	3.4	4.9	10.1	4.0	6.1	11.0	4.6	7.0	11.9	5.2	7.9	12.8	6.1	9.1	13.4	6.7	10.1	14.3
125	CMH / M	357			441			530			619			708			797			887		
	NC	23			28			33			37			41			44			46		
	Throw	3.0	4.6	9.5	4.0	5.8	11.6	4.6	7.0	12.8	5.5	8.2	14.0	6.1	9.5	14.9	7.0	10.4	15.9	7.6	11.6	16.8
150	CMH / M	446			558			669			781			892			1004			1121		
	NC	24			29			34			38			42			45			47		
	Throw	3.4	5.2	10.4	4.3	6.4	13.1	5.2	7.9	14.3	6.1	9.1	15.5	7.0	10.4	16.8	7.9	11.9	17.7	8.8	13.1	18.6
200	CMH / M	636			792			948			1110			1266			1422			1584		
	NC	25			31			36			40			43			46			49		
	Throw	4.3	6.1	12.5	5.2	7.9	15.5	6.1	9.5	17.4	7.3	11.0	18.6	8.2	12.5	19.8	9.5	14.0	21.0	10.4	15.5	22.3
250	CMH / M	820			1026			1227			1433			1639			1840			2046		
	NC	26			32			37			41			44			47			50		
	Throw	4.6	7.0	14.0	5.8	8.8	17.7	7.0	10.7	19.5	8.2	12.5	21.0	9.5	14.0	22.6	10.7	15.9	24.1	11.9	17.7	25.3
300	CMH / M	1004			1255			1506			1756			2007			2258			2515		
	NC	27			33			38			42			45			48			51		
	Throw	5.2	7.9	15.5	6.4	9.8	19.5	7.9	11.9	21.6	9.1	13.7	23.5	10.4	15.5	25.0	11.9	17.7	26.5	13.1	19.5	28.0
450	CMH / M	1561			1952			2342			2732			3123			3513			3909		
	NC	29			35			39			44			47			50			53		
	Throw	6.4	9.8	19.5	8.2	12.2	24.4	9.8	14.6	27.1	11.3	17.1	29.3	13.1	19.5	31.4	14.6	22.0	33.2	16.2	24.4	35.1
600	CMH / M	2119			2649			3178			3708			4238			4767			5303		
	NC	30			36			41			45			48			51			54		
	Throw	7.6	11.3	22.9	9.5	14.3	28.4	11.3	17.1	31.4	13.4	19.8	34.1	15.2	22.9	36.3	17.1	25.6	38.7	18.9	28.4	40.5

Note:
Data Based on 1800mm active length. For other active lengths, use following adjustment factors:

If grille length is:	0.6m	1.2m	1.8m	2.4m	3m+
Add to NC value:	-5	-3	0	+1	+2
Multiply Throw Dist by:	0.4	0.5	0	1.15	1.29

Model LBG
Linear Bar Grilles

Performance Data

Test Standard
- ANSI / ASHRAE standard 70
- Isothermal air

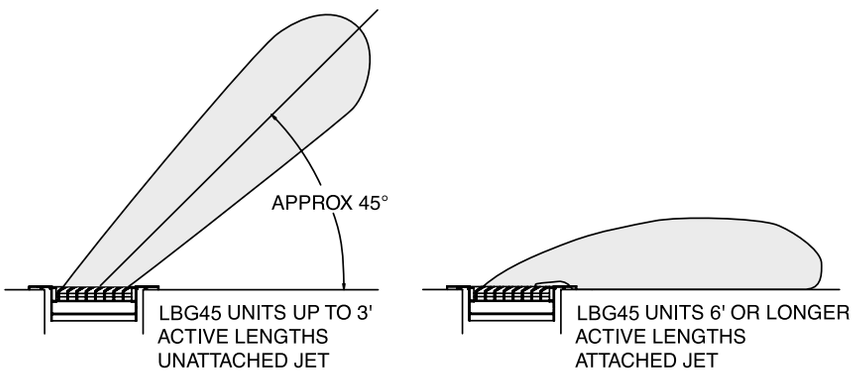
Throw
- The numbers shown are throw distances, in meter, measured along the jet trajectory axis relating to terminal velocities of 0.75, 0.5 & 0.25 m/s, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple sidewall throw distance in table x .70
- Sill / Floor throw values are the sum of the vertical and horizontal distance the jet travels up an adjacent surface and across the ceiling. This is an attached jet with a surface effect.
- Terminal velocity is the air speed, in meter per second, measured in the supply air stream.

Sound Levels
- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When used with opposed blade volume control damper (OBD), add +5 NC to value shown for full open damper, and increase pressure by 1.2

Core Velocity
- Meter per second (m/s)

Pressure
- Ps represents static pressure, Pascal (Pa)

Return Use
- Add +5 NC and multiply Ps x 1.20



Typical Specification

Aluminum linear bar grilles / registers shall be model LBG (6.35 mm wide bars) by KMC. The grilles shall consist of an outer border or frame, and core configuration as scheduled. Core bars shall be 6.35 mm wide, fixed 12.7mm centers, with a 0, 15, or 45 degree deflection angle.

Grille lengths shall be provided up to 2500mm as a single assembly without joints, and up to 200 mm in height as a single core. Longer continuous runs shall be constructed from multiple units, and aligned with alignment hardware from the grille manufacturer (KMC).

Cores shall be constructed from extruded aluminum, and shall be removable from the outer frame for cleaning, access, and servicing. Designs utilizing a non-removable swaged core/frame assembly, or using auxiliary frames are not acceptable. Floor units shall use border frames designed for foot traffic and shall include floor reinforcement no more than 125mm centers. Cores shall be 6.35mm wide bars on 12.7mm centers.

Where scheduled and as shown, provide mitered corners or joints. Include all accessories required including opposed blade dampers, blank-offs, or equalizing deflectors.

Finish shall be powder coated with RAL 9010 as standard and natural anodize or any other custom requirement shall be an optional.

Notes