



Removable Core Linear Bar Grille



Hinged Core Linear Bar Grille with Filter



Fixed Core Linear Bar Grille

REMOVABLE CORE LINEAR BAR GRILLE (RCLBG)

With its elegant design and robust construction Airfoil's Removable Core Linear Bar Grille will look beautiful and perform brilliantly when mounted in the wall or ceiling for both supply and return air functions. Made from solid extruded aluminium the Removable Core Linear Bar Grille comes standard white, but can be powdercoat finished in any Dulux colour for a modern seamless look.

Removable Core Linear Bar Grille Options

- Blade type 0 degree and 15 degree blow deflections
- Flange size: 25mm standard with 12mm optional
- Blade spacing: 11.5mm standard, optional 7mm, 17.5mm and 25mm
- Fixed core, removable core or hinged core with or without filter
- Bar grille for floor mounting (rated up to 120kg)
- Accessory: Plaster mounting frame for side blow applications
- Rear deflection blade in black or white
- Custom made to any size dimensions

Product specification codes:

RCLBG15 Fixed core linear bar grille with 15° kick blades.
Removable core linear bar grille with 15° kick blades.
HLBG15/F LBG00 FCLBG00 RCLBG00 RCLBG00 FX Removable core linear bar grille with 0° kick blades.
Removable core linear bar grille with 0° kick blades.

RCLBG00 Removable core linear bar grille with 0° kick blades. **HLBG00/F** Hinged core linear bar grille with 0° kick blades with filter.

Specification: Product code + size.

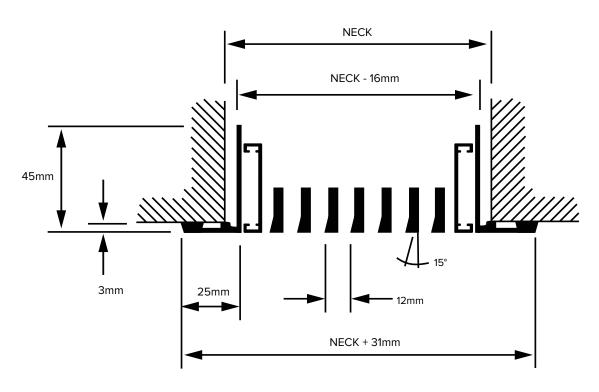
Example: **HLBG15/F 400x200** Hinged core bar grille with 15° kick blades with filter 400mm x 200mm

Important Note: Dimensions will be assumed nominal neck size unless otherwise specified.



REMOVABLE CORE LINEAR BAR GRILLE 15°

Cross sectional diagram



Performance Data

Neck Size	Total Pressure (pa)	3	5	9	14	20	27	36	45
50mm	Lit/sec/metre	34	52	69	86	100	130	150	170
	Throw min/max (m)	1.2-2.4	2.1-4.3	3-5.8	3.9-7.2	4.8-8.4	5.4-9.1	6.3-9.8	6.6-10.8
	NR	-	14	22	28	33	38	42	46
75mm	Lit/sec/metre	57	86	110	140	170	200	230	250
	Throw min/max (m)	1.8-3.1	3.0-5.0	4.5-6.5	5.4-7.9	6.6-9.4	8.1-10.8	9.0-12	10.5-13.4
	NR	-	-	20	26	31	36	40	44
100mm	Lit/sec/metre	86	120	160	200	240	280	320	360
	Throw min/max (m)	2.7-3.8	3.9-5.8	5.7-7.7	6.6-8.6	8.4-10.6	9.9-12.0	10.5-13.4	11.7-14.4
	NR	-	13	21	27	32	37	41	45
150mm	Lit/sec/metre	130	200	260	330	400	460	520	600
	Throw min/max (m)	4.3-5.2	6.4-7.3	7.8-8.8	9.8-10.2	11.4-11.8	12.2-13.2	13.2-14.3	15.2-15.7
	NR	-	13	21	27	32	37	41	45

Sound values are based on a room absorption of 8 dB, re 10⁻¹² watts for an active length of 3.0 metres. Throw distances indicated are terminal velocities of 0.75 and 0.25 metres per second for an active length of 3 metres. The following corrections for length should be made.

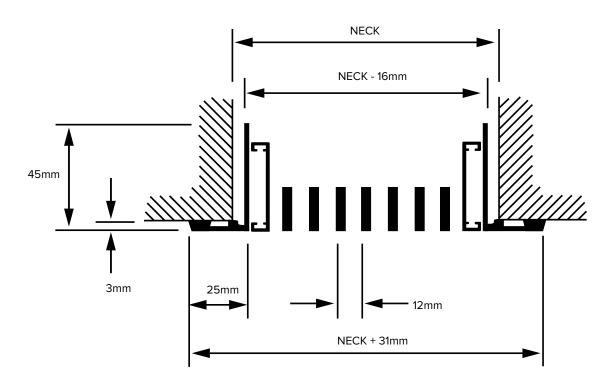
Active length in metres NR	0.3	0.6	1.2	2	3	4	6
	subtract 9	subtract 7	subtract 4	subtract 1	table value	add 1	add 3
Throw at term vel075 Throw at term vel025	, ,		multiply thro multiply thro	,	table values table values		

When used as a RETURN GRILLE the following corrections should be made.

- 1. NR value increases by 4.
- 2. Negative Static Pressure = Total Pressure (shown in the table) x 0.8

REMOVABLE CORE LINEAR BAR GRILLE 0°

Cross sectional diagram



Performance Data

Neck Size	Total Pressure (pa)	3	5	9	14	20	27	36	45
50mm	Lit/sec/metre	34	51	68	85	100	110	130	150
	Throw min/max (m)	1.2-2.4	2.1-4.3	3-5.8	3.9-7.2	4.8-8.4	5.7-9.4	6.3-10.1	6.6-10.8
	NR	-	14	15	21	26	30	34	37
75mm	Lit/sec/metre	58	89	110	140	170	200	230	270
	Throw min/max (m)	2.1-3.6	3.0-5.0	4.5-6.7	5.4-8.4	6.6-9.4	8.1-10.8	9.0-12.2	10.5-13.7
	NR	-	-	14	20	25	29	33	36
100mm	Lit/sec/metre	86	120	170	210	250	300	340	380
	Throw min/max (m)	2.7-3.8	4.5-6.0	5.7-7.7	7.2-9.1	9.0-10.8	9.9-12.2	10.8-13.4	12.6-15.4
	NR	-	-	15	21	26	30	34	37
150mm	Lit/sec/metre	130	210	270	340	410	480	550	620
	Throw min/max (m)	4.3-5.5	6.4-7.3	7.8-8.8	9.8-10.6	11.7-12.5	13.6-14.3	14.7-15	16.6-16.8
	NR	-	-	21	22	27	31	35	38

Sound values are based on a room absorption of 8 dB, re 10^{-12} watts for an active length of 3.0 metres. Throw distances indicated are terminal velocities of 0.75 and 0.25 metres per second for an active length of 3 metres. The following corrections for length should be made.

Active length in metres NR	0.3	0.6	1.2	2	3	4	6
	subtract 9	subtract 7	subtract 4	subtract 1	table value	add 1	add 3
Throw at term vel075 Throw at term vel025	' '	,	multiply thro multiply thro	,	table values table values		

When used as a RETURN GRILLE the following corrections should be made.

- 1. NR value increases by 4.
- 2. Negative Static Pressure = Total Pressure (shown in the table) \times 0.8