AIRFOIL

GRILLES
DUCT
FITTINGS

making it happen sooner...

FLOOR GRILLES (BGF)

The Floor Grille is used for supply and return air functions when mounted on the floor. Airfoil's Floor Grille is manufactured out of high-grade aluminium and is rated up to 120kg. The blades are held in position by a 20mmx12mmx3mm welded angle and are reinforced by intersecting security rods bolted to the frame. A filter can be added when used for a return air function to keep the air distribution system clean.

Available in a powder coat finish in any Dulux colour or natural anodised, the Airfoil Floor Grille gives an exceptional contemporary look in conjunction with exceptional strength.

Floor Grille Options

- *Blade type 0 degree and 15 degree blow deflections*
- *Natural anodised or specific Dulux powdercoat colours and finishes available on request*
- *Optional filter attachment*
- *Custom made to any size dimensions*

Product specification codes:

BGF00	Floor grille with 0° kick blades.
BGF15	Floor grille with 15° kick blades.
BGF00/F	Floor grille with 0° kick blades with filter.
BGF15/F	Floor grille with 15° kick blades with filter.

Specification: Product code + size.
Example: **BGF15 400x200** Floor grille with 15° kick blades 400mm x 200mm
Important Note: Dimensions will be assumed nominal neck size unless otherwise specified.

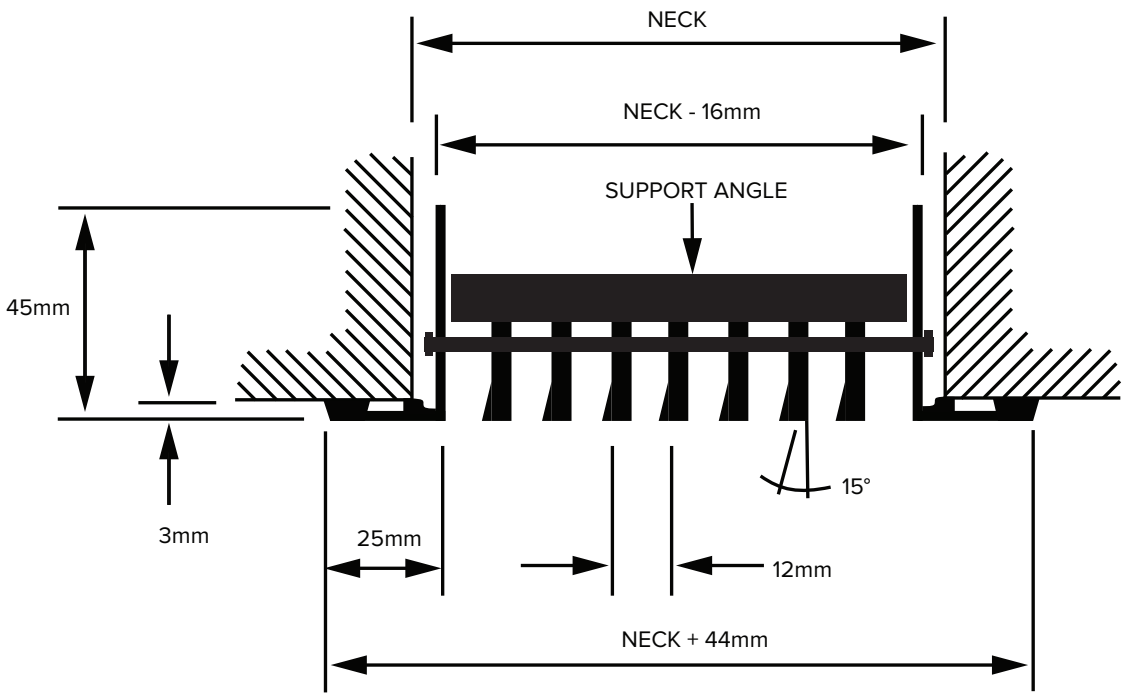
Quality System
Quality Endorsed Company
ISO 9001
SAI GLOBAL

Celebrating 40 years
Established 1976

1300 AIRFOIL sales@airfoil.com.au airfoil.com.au 133 Newbridge Road Moorebank NSW 2170 Australia

FLOOR GRILLE 15°

Cross sectional diagram



Performance Data

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

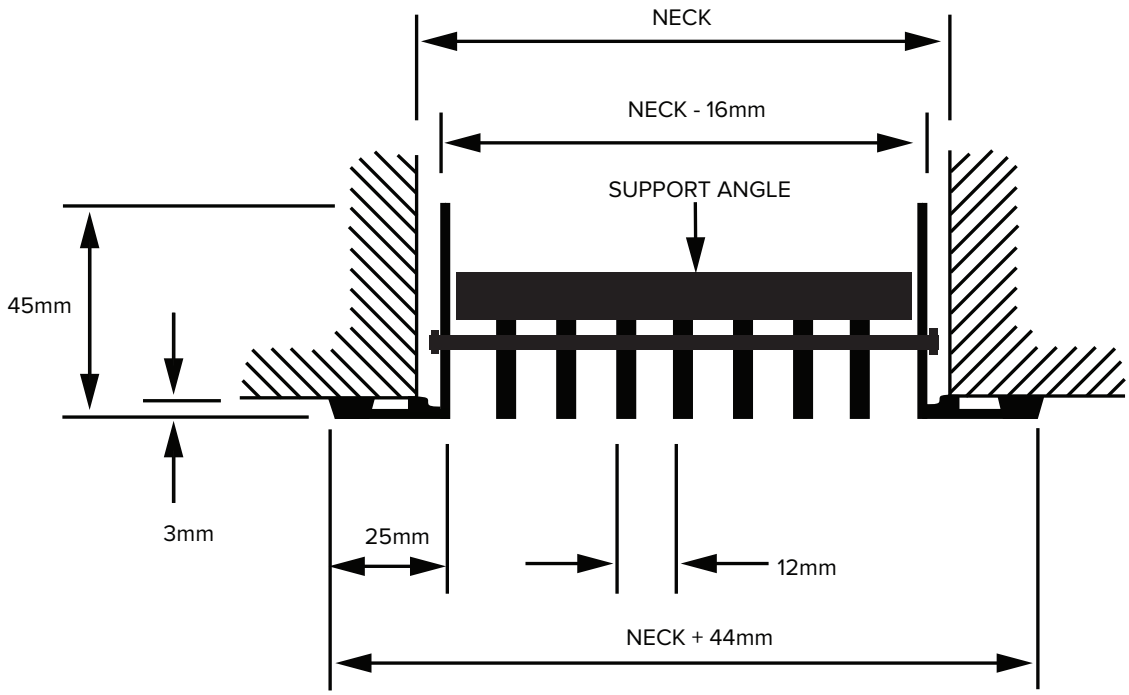
Sound values are based on a room absorption of 8 dB, re 10^{-12} watts for an active length of 3.0 metres. Throw distances indicated are terminal velocities of 0.75 and 0.25 metres per second for an active length of 3 metres. The following corrections for length should be made.

Active length in metres NR	0.3 *subtract 9*	0.6 *subtract 7*	1.2 *subtract 4*	2 *subtract 1*	3 *table value*	4 *add 1*	6 *add 3*
Throw at term vel. .075 Throw at term vel. .025	multiply throw by 0.3 multiply throw by 0.6		multiply throw by 0.7 multiply throw by 0.8		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

FLOOR GRILLE 0°

Cross sectional diagram



Performance Data

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

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Throw at term vel. .075 Throw at term vel. .025	multiply throw by 0.3 multiply throw by 0.6		multiply throw by 0.7 multiply throw by 0.8		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