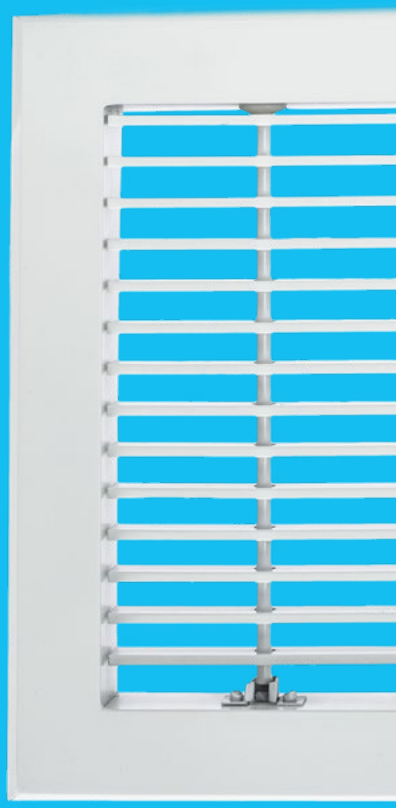
idealair
group



# HABITUS

# Bar grille

**BGW**

BGWRC
BGWL
BGWRCL
BGWXXS
BGWRCXXS
BGWI
BGWRCI
BGWR
BGWRCR
BGWB
BGWRCB
BGWLB
BGWRCLB
BGWIB
BGWRCIB
BGWF
BGWRCF
BGWH
BGWHF
BGWSHF

**BG15**

BG15RC
BG15L
BG15RCL
BG15XXS
BG15RCXXS
BG15I
BG15RCI
BG15R
BG15RCR
BG15B
BG15RCB
BG15LB
BG15RCLB
BG15IB
BG15RCIB
BG15F
BG15RCF
BG15H
BG15HF
BG15SHF

**BG**

BGRC
BGL
BGRCL
BGXXS
BGRCXXS
BGI
BGRCI
BGR
BGRCR
BGB
BGRCB
BGLB
BGRCLB
BGIB
BGRCIB
BGF
BGRCF
BGH
BGHF
BGSHF
BGNAD

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PRODUCT DATA SHEET

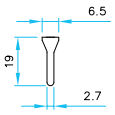
1 YR WARRANTY

# BAR GRILLE

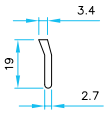
## Overview

The Bar Grilles are designed for supply, return or exhaust air applications. They are recommended for wall applications but can be modified for ceiling. The grille is constructed in aluminium and can be supplied with either a fixed or removable core for access. The grille has an attractive linear appearance and is available with three shapes of blade to give a variety of air directions. The maximum single length manufactured is 2400mm, but where longer lengths are required, joining links are provided to give an aligned, continuous appearance. It is available in your choice of a natural anodised finish or powder coated RAL9016. Other colours are available upon request, contact your local dealer.

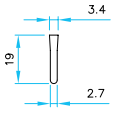
**BGW**
Wide blade
0 degrees

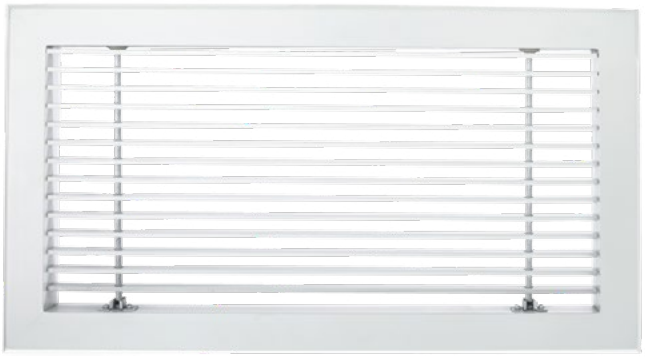



**BG15**
Slimline blade
15 degrees




**BG**
Slimline blade
0 degrees



Front view

End view

Rear view



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042025

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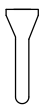
| |  | | |
|---|---|---|---|
| Fixed core, standard frame. | BGW | BG15 | BG |
| Removable core, standard frame. | BGWRC | BG15RC | BGRC |
| Fixed core, large frame. | BGWL | BG15L | BGL |
| Removable core, large frame. | BGWRCL | BG15RCL | BGRCL |
| Fixed core, extra extra small frame. | BGWXXS | BG15XXS | BGXXS |
| Removable core, extra extra small frame. | BGWRCXXS | BG15RCXXS | BGRCXXS |
| Fixed core, “I” frame. | BGWI | BG15I | BGI |
| Removable core, ‘I” frame. | BGWRCI | BG15RCI | BGRCI |
| Fixed core, reverse flange frame. | BGWR | BG15R | BGR |
| Removable core, reverse flange frame. | BGWRCR | BG15RCR | BGRCR |
| Fixed core, standard frame, rear blades. | BGWB | BG15B | BGB |
| Rem. core, standard frame, rear blades. | BGWRCB | BG15RCB | BGRCB |
| Fixed core, large frame, rear blades. | BGWLB | BG15LB | BGLB |
| Removable core, large frame, rear blades. | BGWRCLB | BG15RCLB | BGRCLB |
| Fixed core, “I” frame, rear blades. | BGWIB | BG15IB | BGIB |
| Removable core, ‘I” frame, rear blades. | BGWRCIB | BG15RCIB | BGRCIB |
| Fixed core, standard frame, c/w filter. | BGWF | BG15F | BGF |
| Removable core, standard frame, c/w filter. | BGWRCF | BG15RCF | BGRCF |
| Hinged core, standard frame. | BGWH | BG15H | BGH |
| Hinged core, standard frame, filter. | BGWHF | BG15HF | BGHF |
| Hinged core, small frame, filter. | BGWSHF | BG15SHF | BGSHF |
| Fixed core, c/w neck adapter with damper and ceiling fixing clips. | | | BGNAD |



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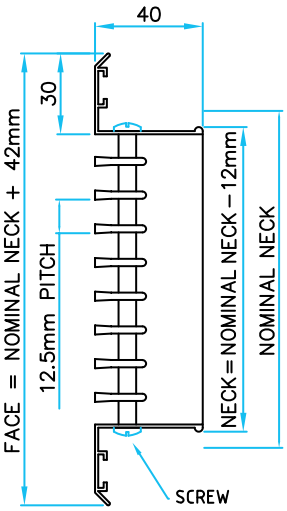
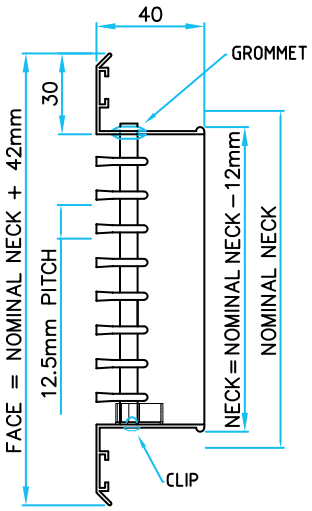
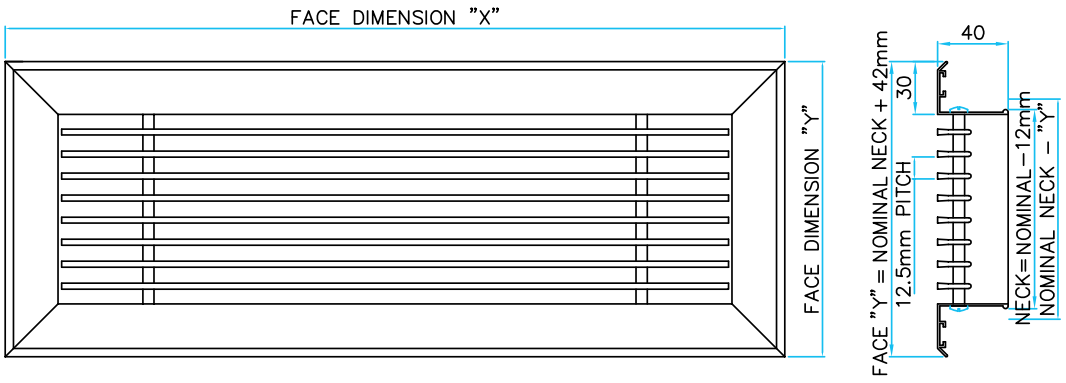



**BG**
**FIXED CORE BG c/w**
**STRAIGHT BLADE**

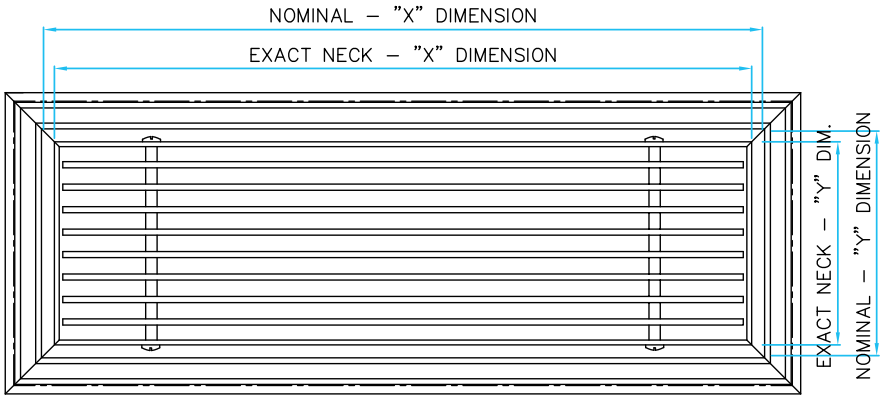



**BGRC**
**REMOVABLE CORE BG c/w**
**STRAIGHT BLADE**

## Standard Views




**FACE VIEW**




**REAR VIEW**



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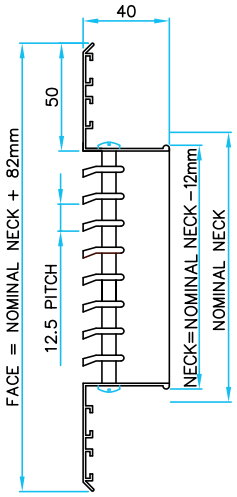
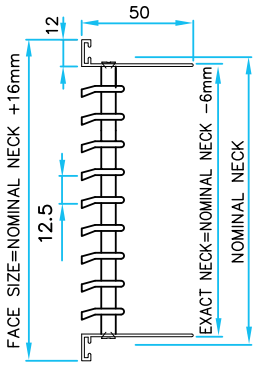
## Options

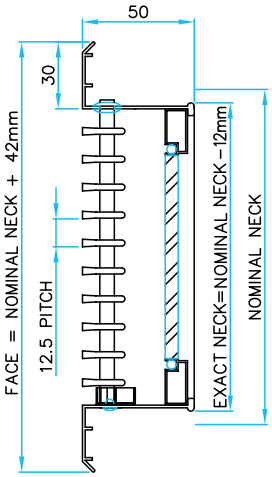
Below show the frame options available for the BG grille. The drawings show various blade styles, but these frame options are also available with the three types of blade. Floor grilles are also available, contact your branch for sizes.



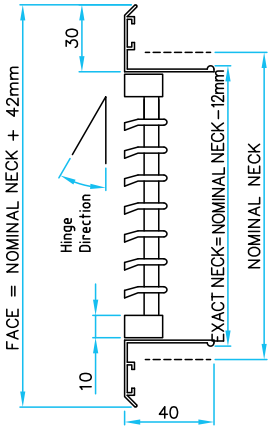

**BG15L**
**LARGE FRAME c/w**
**15 DEGREE BLADE**



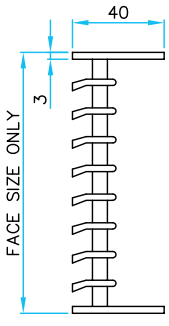

**BG15XXS**
**EXTRA EXTRA**
**SMALL FRAME**



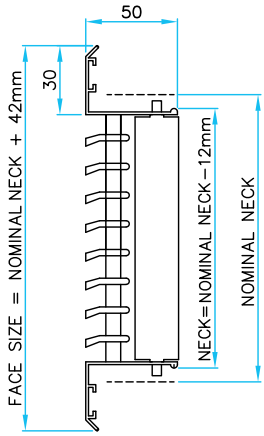

**BG15RCF**
**REMOVABLE CORE WITH FILTER**




**BG15H**
**HINGED FRAME**




**BG15I**
**"I" FRAME c/w**
**15 DEGREE BLADE**




**BG15B**
**REAR ADJUSTABLE**
**BLADES**



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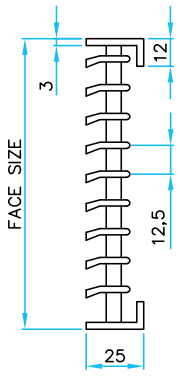
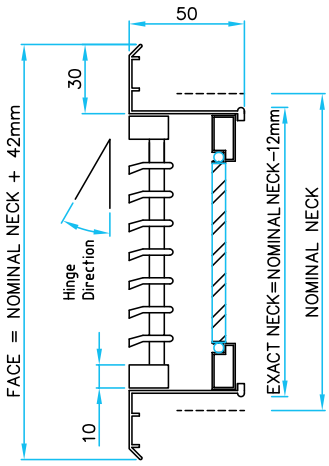
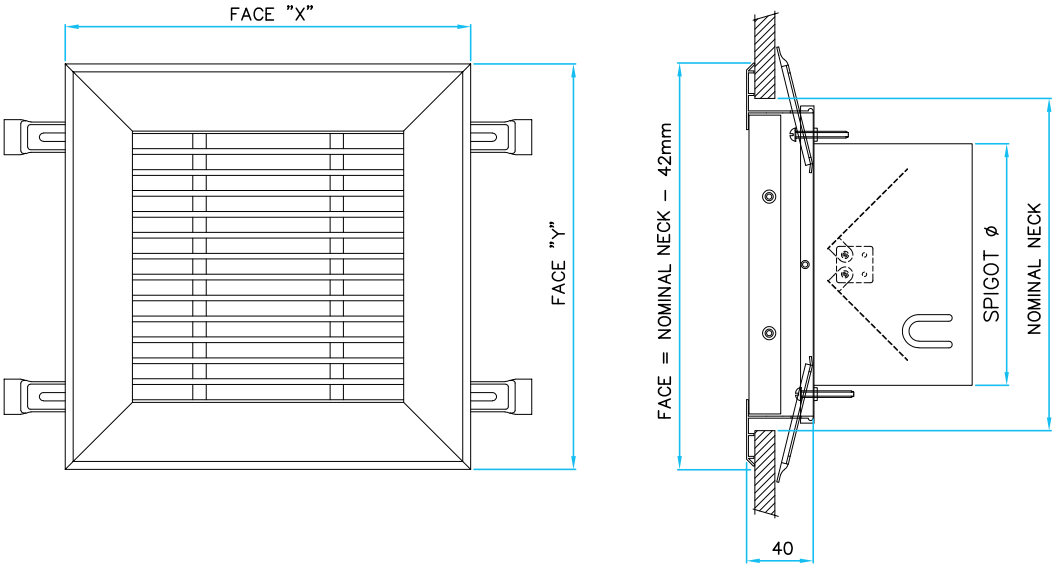



**BG15R**
**FIXED CORE REVERSE FLANGE**
**c/w 15 DEGREE WIDE BLADE**




**BG15HF**
**HINGED FRAME WITH FILTER**




**BGNAD**
**FIXED CORE, c/w NECK ADAPTER WITH**
**DAMPER AND CEILING FIXING CLIPS**



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# Technical Data
# Sidewall Bar Grille - Straight Blade

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Size (nominal - mm) x 1 metre long

| Y Dim. | Static Pressure (Pa) | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|---|---|---|---|---|---|---|---|---|---|
| 50 | Flow (l/sec) | 50 | 71 | 102 | 122 | 140 | 160 | 180 | 190 |
| | Noise NR | <15 | <15 | 22 | 28 | 32 | 35 | 37 | 40 |
| | Throw (m) T0.6m/s to T0.25m/s | 1.4 to 2.8 | 2 to 5 | 3 to 6.5 | 3.8 to 8 | 4.6 to 8.6 | 5 to 10 | 5.6 to 11 | 6.2 to 12 |
| 100 | Flow (l/sec) | 125 | 185 | 260 | 310 | 360 | 405 | 450 | 490 |
| | Noise NR | <15 | <15 | 24 | 28 | 32 | 35 | 38 | 40 |
| | Throw (m) T0.6m/s to T0.25m/s | 3.1 to 5.5 | 4 to 6.5 | 5.8 to 9 | 7 to 10.5 | 8.2 to 12 | 9.2 to 13.5 | 10.2 to 14.2 | 11 to 13.8 |
| 150 | Flow (l/sec) | 200 | 280 | 400 | 500 | 580 | 650 | 710 | 780 |
| | Noise NR | <15 | <15 | 24 | 28 | 33 | 36 | 38 | 42 |
| | Throw (m) T0.6m/s to T0.25m/s | 4 to 6 | 5 to 7 | 7.5 to 10 | 8.2 to 12 | 10 - 13.5 | 10.8 to 14.2 | 12 to 15.8 | 13 to 17 |
| 200 | Flow (l/sec) | 270 | 350 | 490 | 590 | 680 | 750 | 820 | 880 |
| | Noise NR | <15 | 24 | 31 | 35 | 37 | 40 | 41 | 43 |
| | Throw (m) T0.6m/s to T0.25m/s | 2.8 to 6 | 4.2 to 8.5 | 5.8 to 12 | 7.8 to 14 | 8 to 16 | 8.6 to 17 | 9.5 to 19 | 10 to 20 |
| 250 | Flow (l/sec) | 370 | 460 | 660 | 800 | 900 | 1000 | 1100 | 1200 |
| | Noise NR | 18 | 25 | 32 | 35 | 38 | 40 | 42 | 44 |
| | Throw (m) T0.6m/s to T0.25m/s | 2.5 to 5 | 3.9 to 8 | 5.8 to 12 | 7 to 14 | 9 to 17 | 9.4 to 18 | 10.2 to 20 | 11 to 22 |
| 300 | Flow (l/sec) | 440 | 600 | 800 | 1050 | 1200 | 1350 | 1430 | 1580 |
| | Noise NR | 18 | 22 | 30 | 35 | 37 | 40 | 42 | 44 |
| | Throw (m) T0.6m/s to T0.25m/s | 3 to 6 | 4.5 to 9 | 6 to 12 | 7.5 to 15 | 9 to 18 | 10 to 20 | 10.5 to 21 | 11.5 to 23 |
| 400 | Flow (l/sec) | 580 | 750 | 1000 | 1210 | 1410 | 1600 | 1750 | 1880 |
| | Noise NR | 18 | 22 | 30 | 35 | 37 | 40 | 42 | 44 |
| | Throw (m) T0.6m/s to T0.25m/s | 3 to 6 | 4.5 to 9 | 7 to 14 | 8 yo 16 | 9 to 18 | 10.5 to 21 | 11 to 22 | 12 to 24 |

Horizontal throw in metres - Terminal velocities of 0.25m/sec & 0.6 or 0.75m/sec.
This data to be used for quick selection only, not to be used for commissioning.

Free area of bar grille at type and sizes above approx. 76%.

**For Return or Exhaust air, Pressure drop and Noise levels may be calculated by using the following formula.**
**Static Pressure Drop - Return Air = Static Pressure (Pa) X 1.2 & NR Return Air = NR + 8**



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# BAR GRILLE
## Order Details

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**Example – To order a bar grille for the wall with a standard flange, 15 degree straight blade, 4.80mm long (X nominal), by 150mm (Y Nominal) with a natural anodised finish.**

**CODE = BG-15-4800-150-A**

Note: Contact your sales branch or sales representative if your desired product cannot be ordered by using the above ordering criteria.

BG-____-____-__-_____-_____-__

**FINISH**
NIL CODE = Standard white RAL9016.
A = Natural anodised finish.

**BAR GRILLE APPLICATION**
NIL = Wall application
FLOOR = Floor application
CEIL = Ceiling application

**BG LENGTH – NOMINAL**
Y NOMINAL DIMENSION
Stated in millimetres

**FILTER, REAR BLADES OR NECK ADAMPER/DAMPER**
F = Filter
B = Adjustable rear blades
NAD = Neck Adapter & Damper

**FRAME TYPE**
NIL = Standard frame
RC = Removable core
R = Reverse flange
HR = Hinged frame
I = I frame
L = Large frame
XXS = Extra extra small frame

**BLADE STYLE**
NIL = Slimline, 0°straight blade
15 = Slimline, 15°straight blade
W = Wide, 0°straight blade

**MODEL**
BG = Bar Grille



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