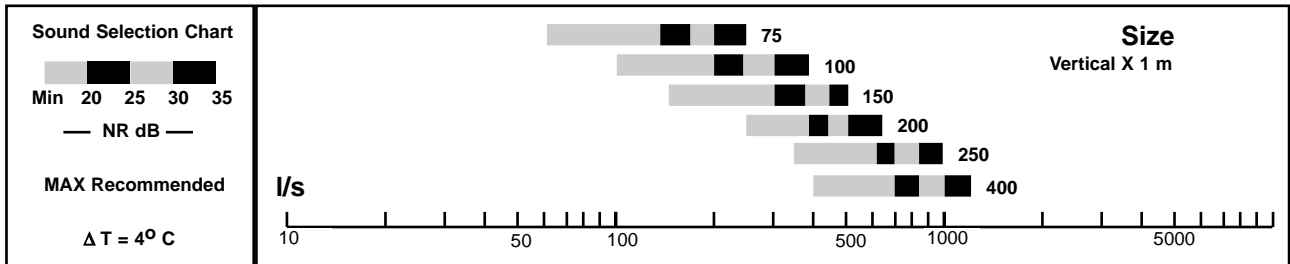


Selection Guide



Ordering procedure

Using the chart below select your requirement and substitute the underscored text below.

Type..X..Y (X & Y are the nominal neck sizes of the grille, see overleaf.)

Example: If your requirement is for a 12" x 8" (300mm x 200mm) standard 15° deflection grille, the ordering code would be **AAF1208**. (When ordering it is not necessary to include the periods [..])

Product Size Numbers												
		"Y" Size										
"Type"	"X" Size	04 (100)	06 (150)	08 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)	Colour
ASF (Zero deflection)	10 (250)											Powdercoate white Natural anodised
AAF (15° deflection)	12 (300)											
AST (0° (extra slim blade)	14 (350)											
AAT (15° extra slim blade)	16 (400)											
	18 (450)											
	20 (500)											
Special	24 (600)										Special	

1.21

ASG

SLIMLINE WALL GRILLE



Description

Model 1.21 (ASG) grilles have been designed for use in supply, return or exhaust air applications. They are recommended for side wall, or sill mounting.

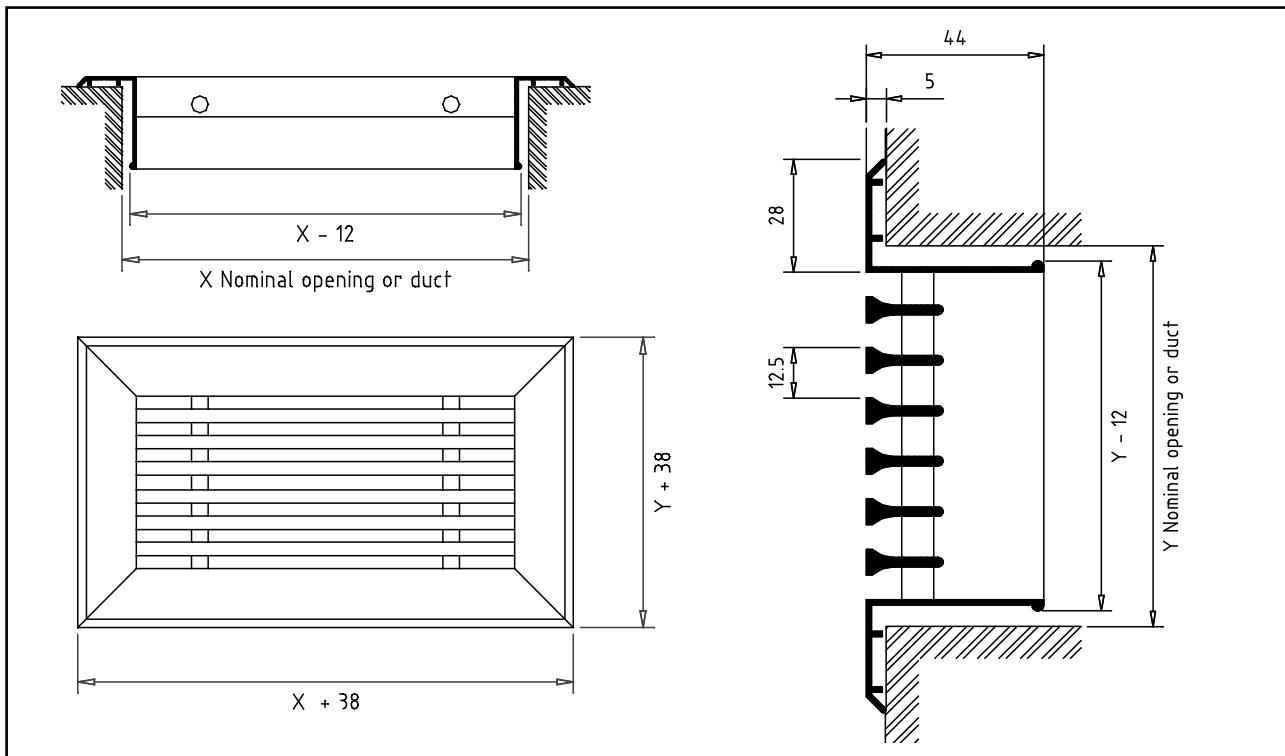
All grille core assemblies are mounted in a sturdy frame and can be either fixed core for security purposes or removable core for easy access.

For Y sizes over 500mm and X sizes over 1200mm the core is fixed.

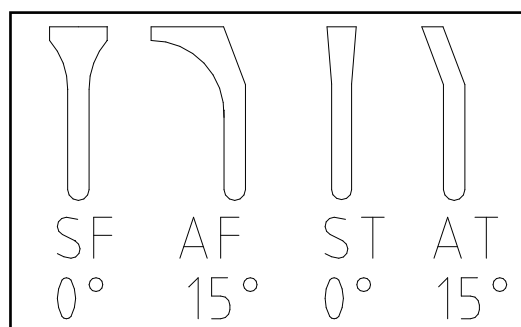
The grilles are manufactured from high quality aluminium extrusion with a choice of four blade styles with 0° or 15° air stream.

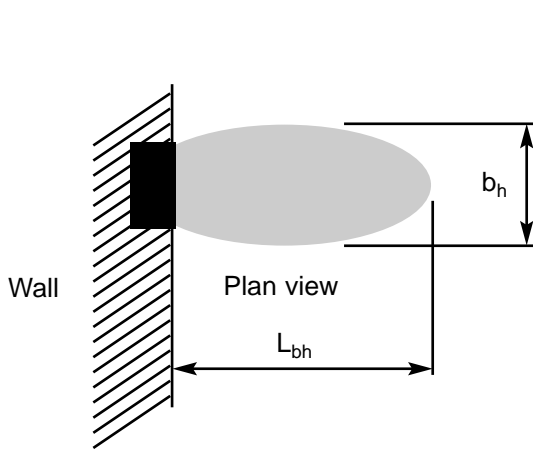
Standard finishes are natural anodised and white electrostatic powdercoat. There are also 15 other colours available at no additional cost.

Contact your local Bradflo branch for any special requirement you may have.



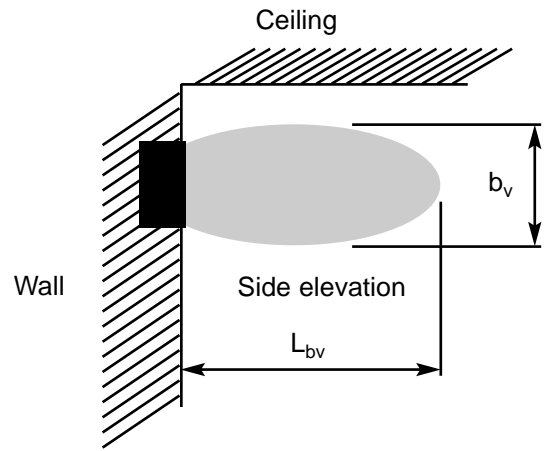
Blade profiles available





0° blowing
 $b_h = L_{0.3} \times 0.3 + X$
 $L_{bh} = L_{0.3} \times 0,6$

X = Nominal width



0° blowing
 $b_v = L_{0.3} \times 0.09 + Y$
 $L_{bv} = L_{0.3} \times 0,5$

Y = Nominal height

Sound data

NR levels for the grille may be determined from the engineering graph.

Sound power level L_w

The generated sound power level L_w dB is calculated by adding the correction factor K_{Ok} (see table below) to the sound level NR dB according to the formula:

$$L_w = NR + K_{Ok}$$

Correction table for grilles of length other than 1 metre

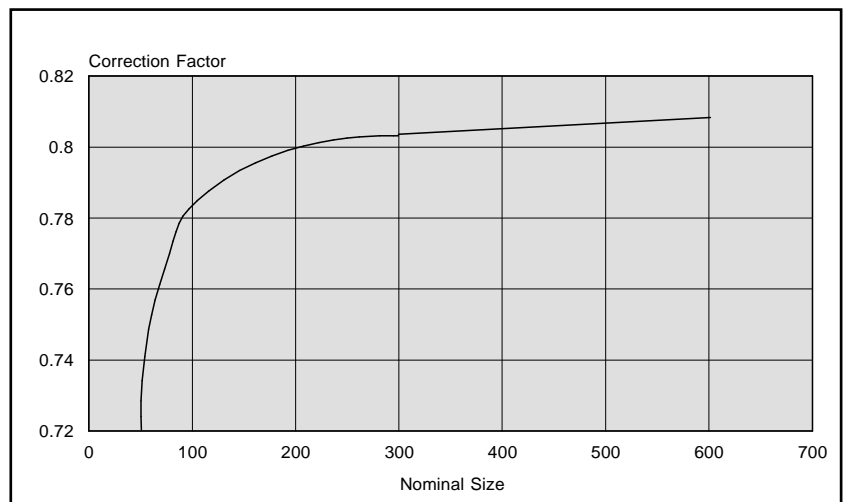
Grille length (m)	0.5	1	1.5	2	3+
Add to NR value	-3	0	+2	+3	+5
Multiply throw by	0.8	1	1.2	1.35	1.5

	Frequency (cycles per second)						
Size	125	250	500	1000	2000	4000	8000
All	+6	+5	+3	-2	-8	-13	-15
Tol +/-	2	2	2	2	2	2	2

Correction factor k_{Ok}

Free Area Factor

To evaluate the free area, the grilles' nominal area is multiplied by f_1 where f_1 is a correction factor and is determined by the graph.



1.21

ASG

SLIMLINE WALL GRILLE



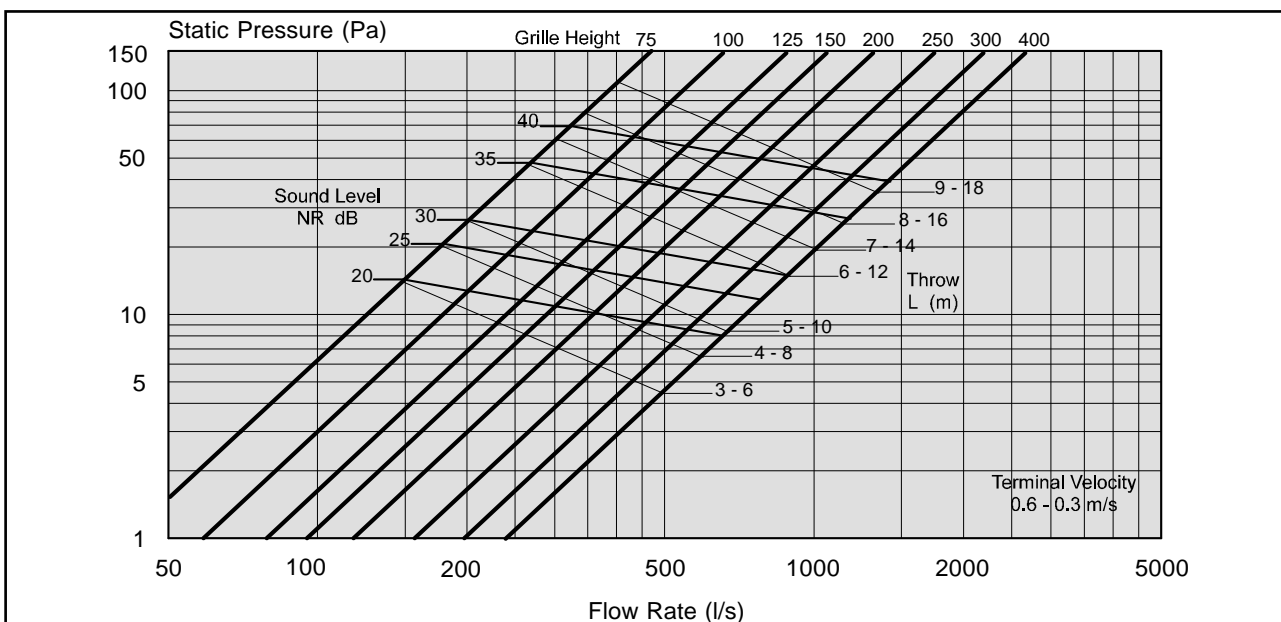
Engineering Graphs

Throws shown are to a terminal velocity of 0.60 m/s and 0.30 m/s. Throw is given for equal slots in each direction.

Terminal velocity	Approximate air velocity in room
0.60 m/s	0.30 m/s
0.30 m/s	0.15 m/s

These graphs are for selection only and should not be used for commissioning.

ASF grille x 1000 mm long ("X" dim)



For return or exhaust air, the pressure drop and noise level may be calculated as follows.

Pressure drop
 $P_{dra} = P_d \times 1.2$

Noise level
 $NR_{ra} = NR + 8$