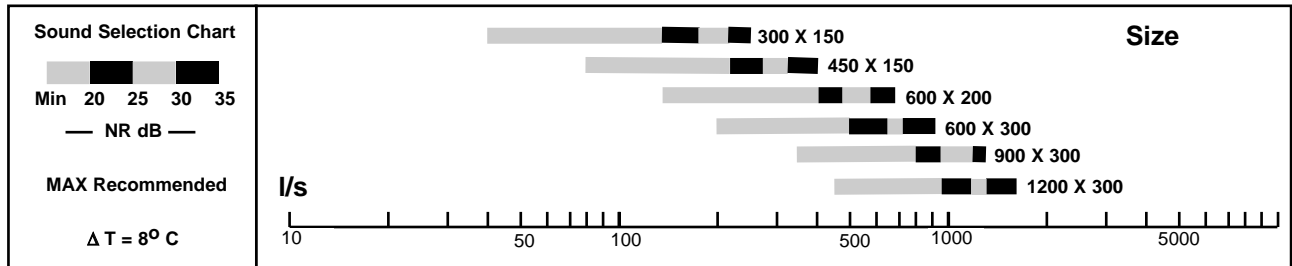


Selection Guide



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 12" (300mm x 300mm) grille with a removable core, the ordering code would be **AURR1212** (When ordering it is not necessary to include the periods [...])

Specials: Curved face grilles (**AURC**) to suit round rigid ducting and other sizes are available upon request. Please contact your nearest branch.

Product Size Numbers													
"Type"	"X" Size	"Y" Size										Colour	
		04 (100)	06 (150)	08 (200)	10 (250)	12 (300)	14 (350)	16 (400)	18 (450)	20 (500)	24 (600)		
AUR (Fixed core)	10 (250)												Powdercoate white
AURR (Removeable core)	12 (300)												
	14 (350)												
	16 (400)												
	18 (450)												
	20 (500)												
Special	24 (600)												Special

1.11

AUR

DOUBLE DEFLECTION GRILLE



Description

The 1.11 (AUR) grilles are designed for use in supply and return air applications.

Double deflection grilles have horizontal front blades and vertical rear blades.

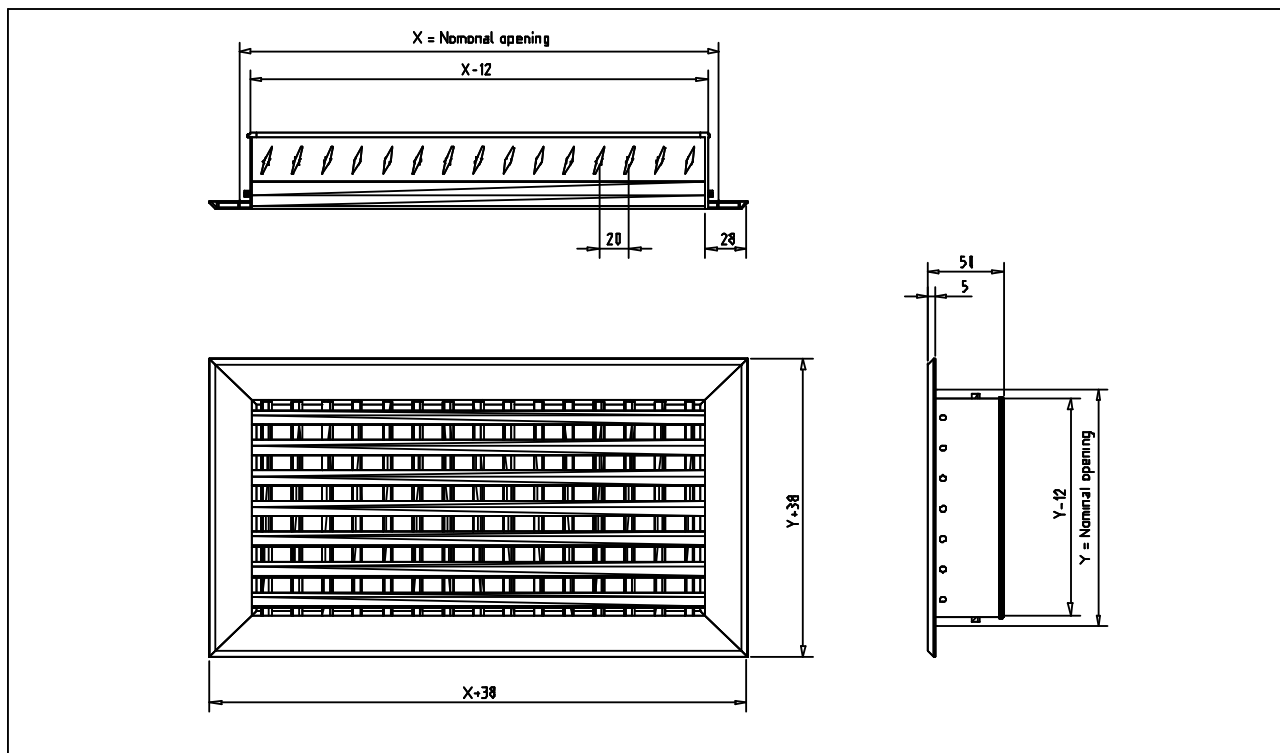
The AURR type grille has a removable core for cleaning or installation.

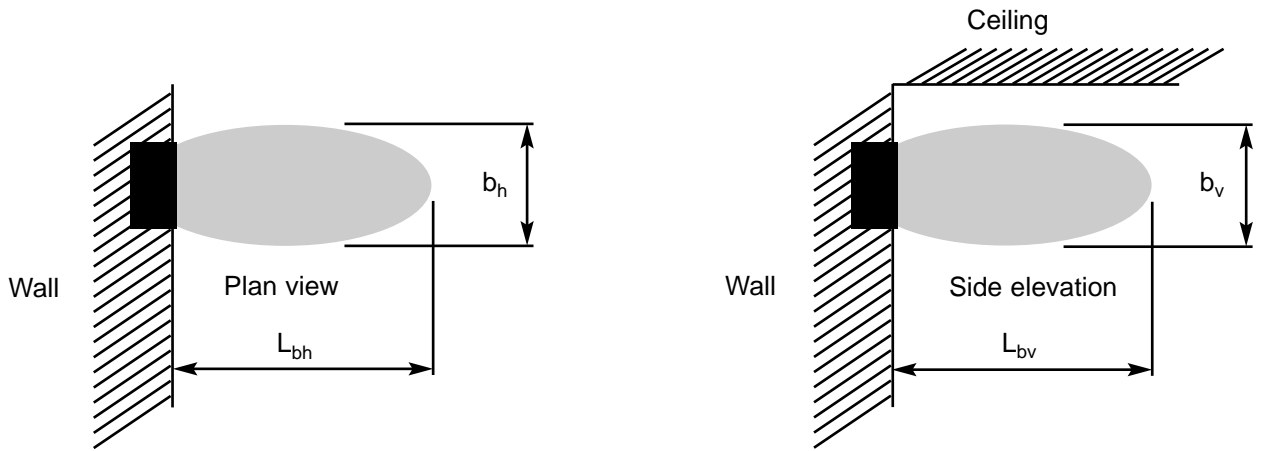
All grilles feature attractively designed extruded aluminium features. The blades are aerodynamically designed to provide optimum air flow and low sound pressure level performance.

Standard finishes are natural anodised or powder-coat white. There are 15 other colours available at no additional cost. Please contact your nearest Bradflo branch for the selection range.

Other non-standard colours are available upon request.

Design dimensions





0° blowing
 $b_h = L_{0.3} \times 0.3$
 $L_{bh} = L_{0.3} \times 0.5$

45° blowing
 $b_h = L_{0.3} \times 1.5$
 $L_{bh} = L_{0.3} \times 0.5$

0° blowing
 $b_v = L_{0.3} \times 0.09$
 $L_{bv} = L_{0.3} \times 0.5$

0° blowing
 $b_v = L_{0.3} \times 0.06$
 $L_{bv} = L_{0.3} \times 0.4$

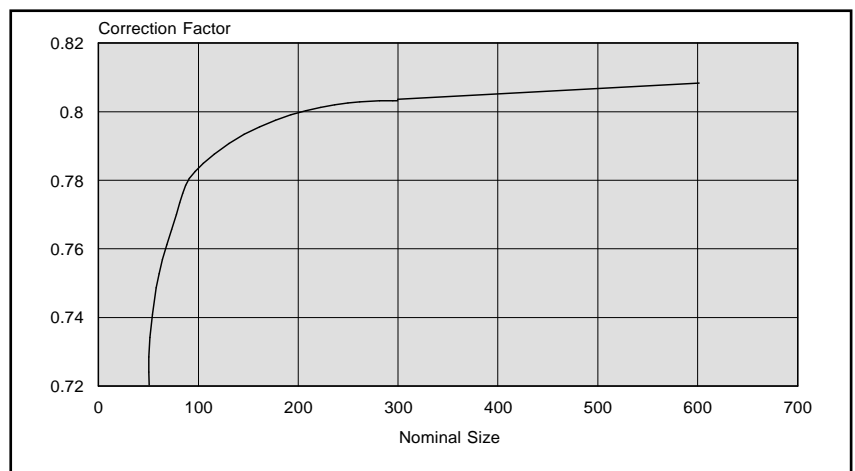
Free Area of AUR Grille (m ²)								
Y/X	300	400	450	500	600	750	900	1200
150	0.029	0.038	0.043	0.048	0.058	0.072	0.087	0.116
200	0.038	0.051	0.058	0.064	0.077	0.097	0.116	0.156
250	0.048	0.065	0.073	0.081	0.097	0.122	0.146	0.195
300	0.058	0.078	0.088	0.097	0.117	0.147	0.176	0.235
400	0.078	0.104	0.117	0.130	0.157	0.196	0.236	0.314

Free area for standard size double deflection grilles.

Free Area Factor

To calculate the free area, the grille's nominal area is multiplied by f_1 , where f_1 is a correction factor and is determined by the graph. For single deflection the nominal size is the grille's "Y" dimension. For double deflection it is the grille's "X" dimension.

Free area correction factor f_1



Example:

Size 300 x 150 single deflection. From the graph, $f_1 = 0.79$ for the grille height of 150. The grille's free area is therefore: $300/1000 \times 150/1000 \times 0.79 = 0.0355\text{m}^2$. For a double deflection include the factor f_1 for the grille length. The free area would therefore be: $300/1000 \times 150/1000 \times 0.79 \times 0.80 = 0.0284\text{m}^2$.

1.11

AUR

DOUBLE DEFLECTION GRILLE



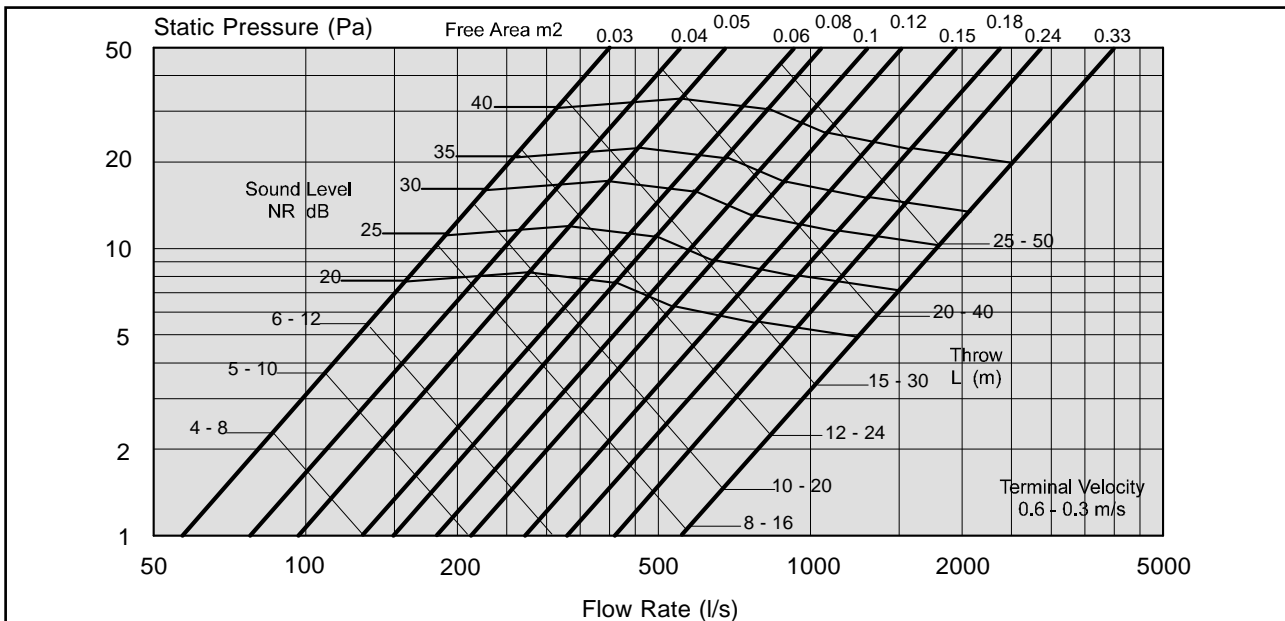
Engineering Graphs

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.

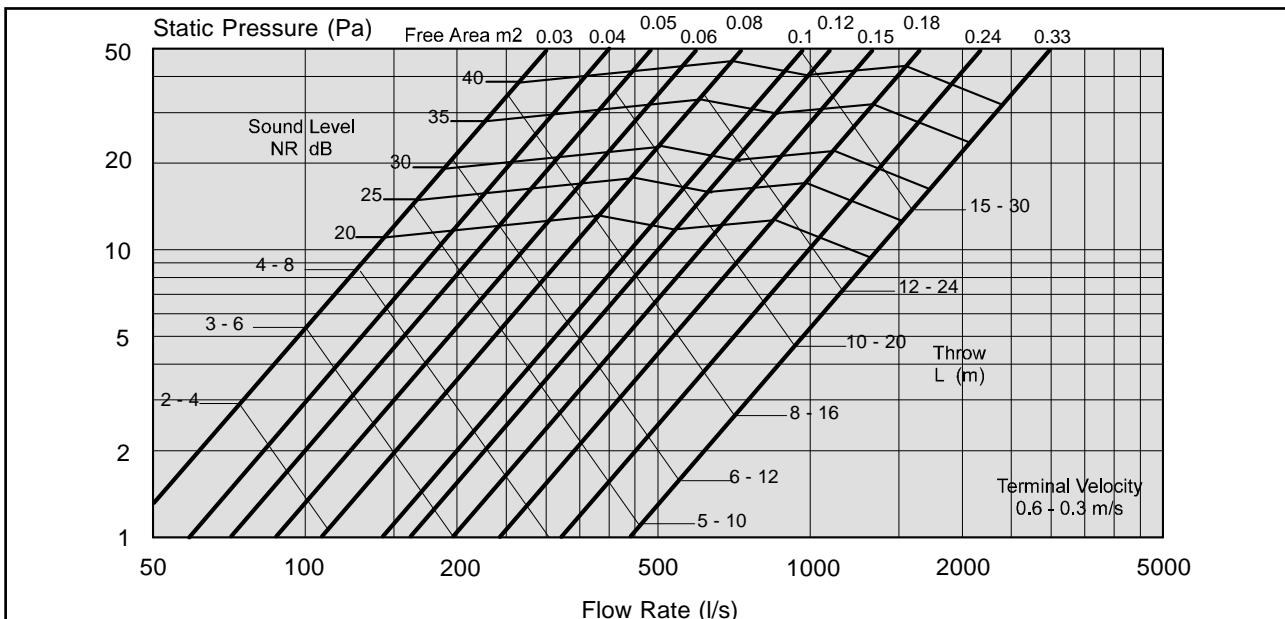
Terminal velocity	Approximate air velocity in room
0.60 m/s 0.30 m/s	0.30 m/s 0.15 m/s

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

Performance data (0° deflection)



Performance data (22° deflection)





DOUBLE DEFLECTION GRILLE

1.11

AUR

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.

Performance data (45° deflection)

