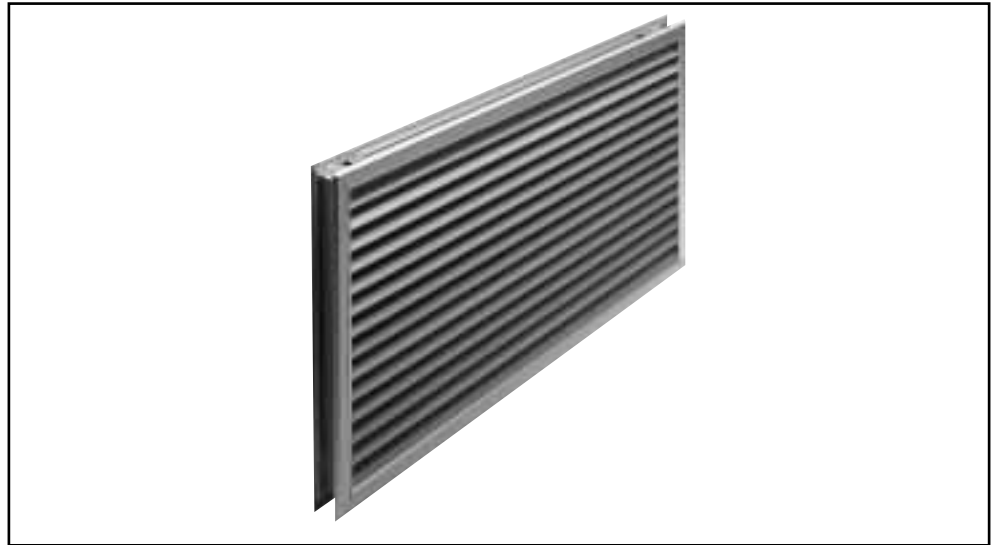




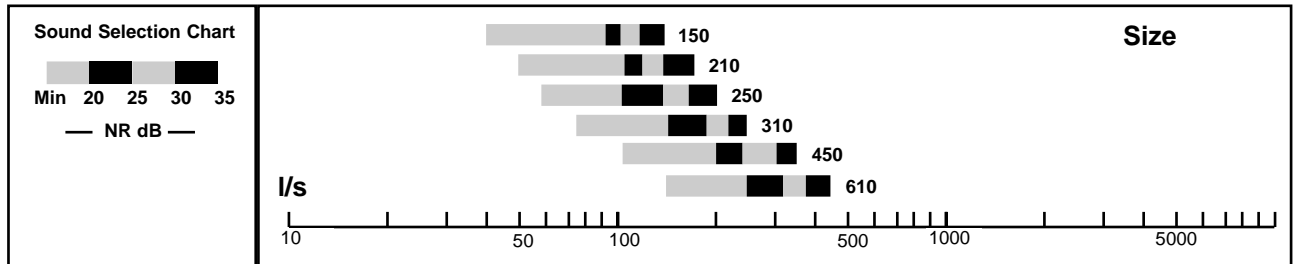
ALUMINIUM DOOR REGISTER

1.52

AADR



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 register, see over leaf)

Example: If your requirement is for a 24" x 12" (600 x 300) aluminium door register, the ordering code would be **AADR2412**. {When ordering it is not necessary to include the periods [..]}

Product Size Numbers												
"Type"	"X" Size	"Y" Size										Colour
		06 (150)	08 (200)	10 (250)	12 (300)	16 (400)	18 (450)	20 (500)	22 (550)	24 (600)		
AADR	12 (300)											Natural Anodised
	18 (450)											
	24 (600)											
Special sizes												

1.52

AADR

ALUMINIUM DOOR REGISTER



Description

The 1.52 (AADR) door registers have horizontally mounted blades firmly fixed into a frame. To ensure a pleasing appearance an adjustable rear frame covers the opening on the opposite side of the door. A unique spring clip method eliminates the need for screws of any sort when fixing the register to the door.

All registers are manufactured from natural anodised aluminium extrusion and will fit doors from 30mm to 45mm thick.

The blade profiles ensure maximum air flows at minimum sound levels.

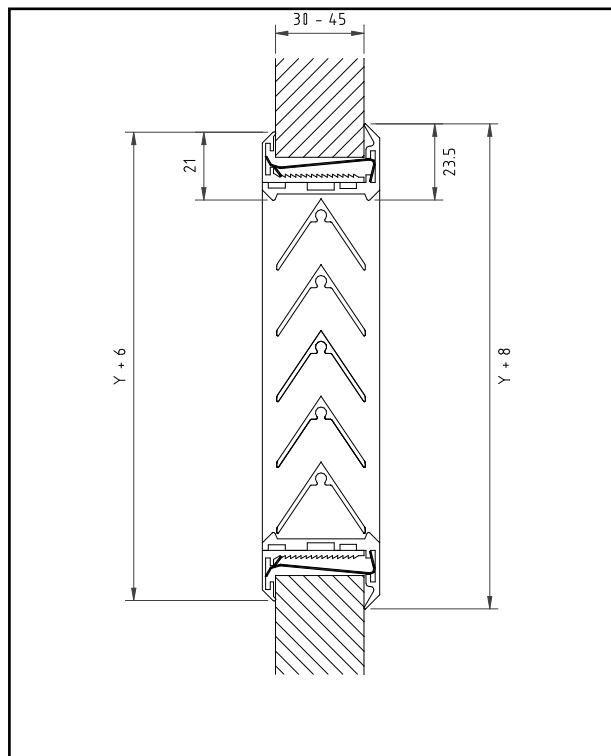
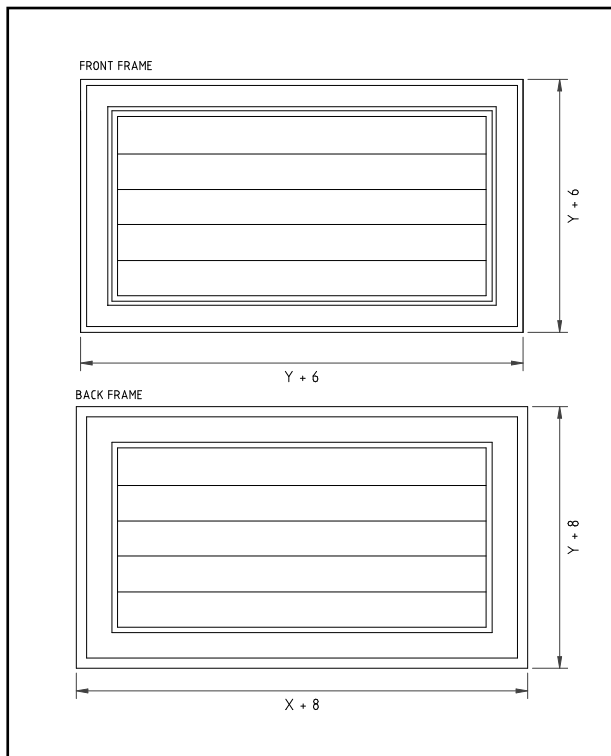
Finish

Standard finish is natural anodised. There are also 15 other colours to choose from at no additional cost.

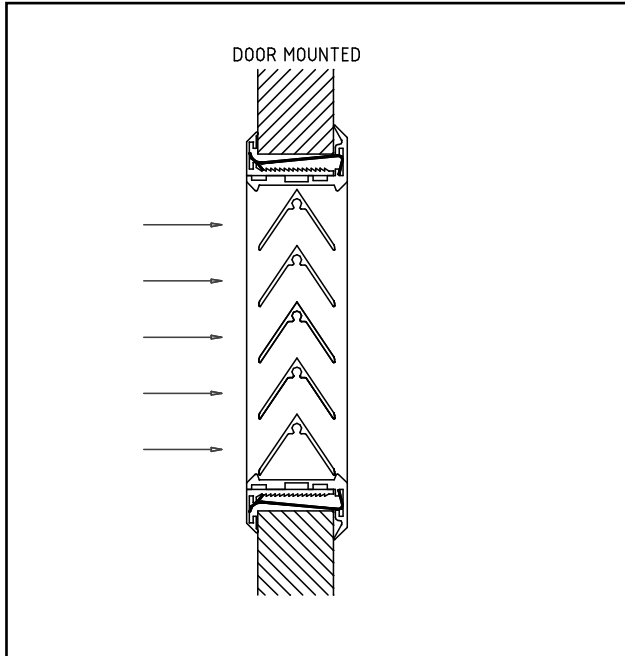
Contact your local Bradflo branch for any special requirement you may have.

Design dimensions

Design dimensions



Installation



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:

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

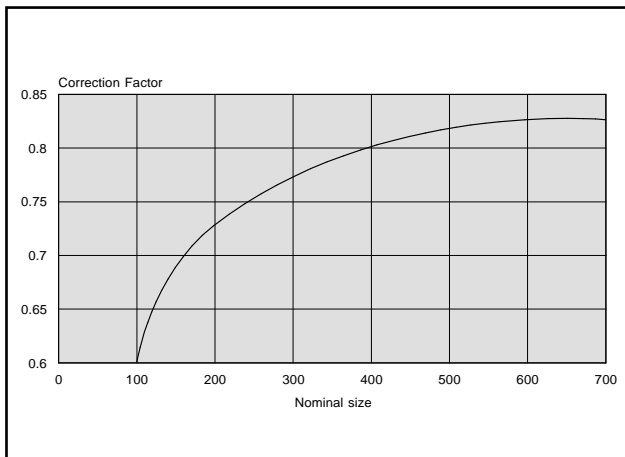
		Frequency (cycles per second)						
Size		125	250	500	1000	2000	4000	8000
All		+15	+14	+12	+7	+1	-4	-6
Tol +/-		2	2	2	2	2	2	2

Correction factor K_{Ok}

Free Area Factor

To calculate 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 below. The free area of standard sizes may be found adjacent.

Opening Size	Free Area
600 x 150	0.062
600 x 210	0.093
600 x 250	0.114
600 x 310	0.145
600 x 450	0.216
600 x 610	0.300



1.52

AADR

ALUMINIUM DOOR REGISTER

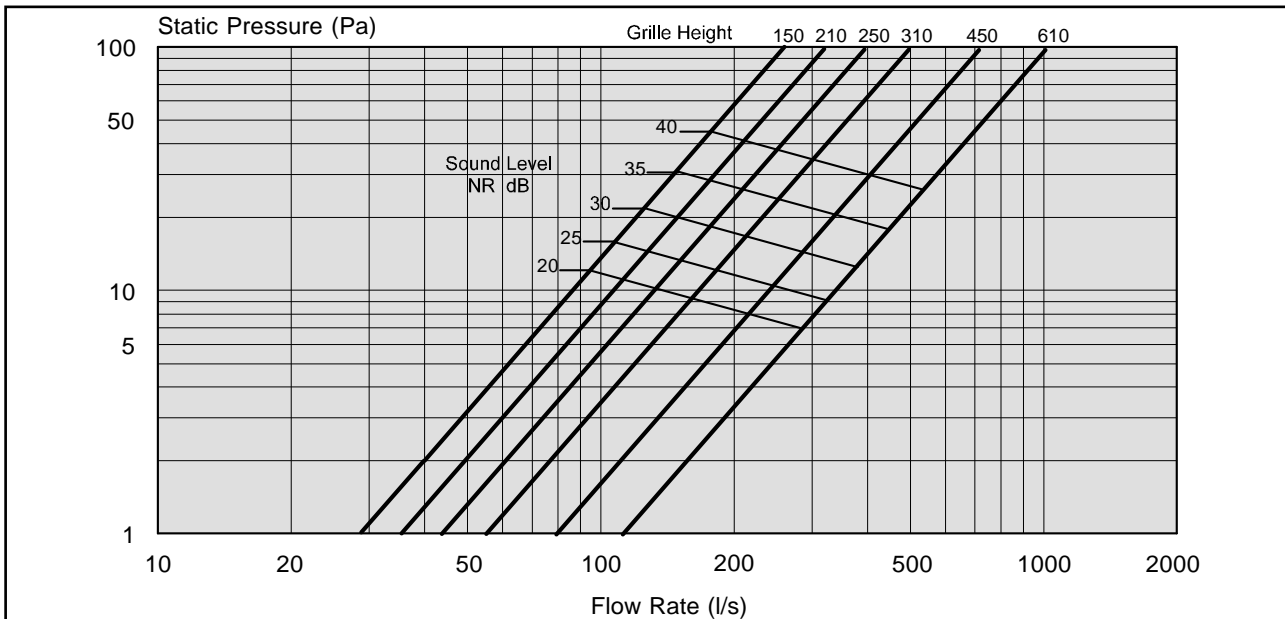


Engineering Graphs

Throws shown are to a terminal velocity of 0.60 m/s and 0.30 m/s. Other terminal velocities may be calculated using formulas in Section 4.2 of the Air Handling Reference Guide. 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

Performance data



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