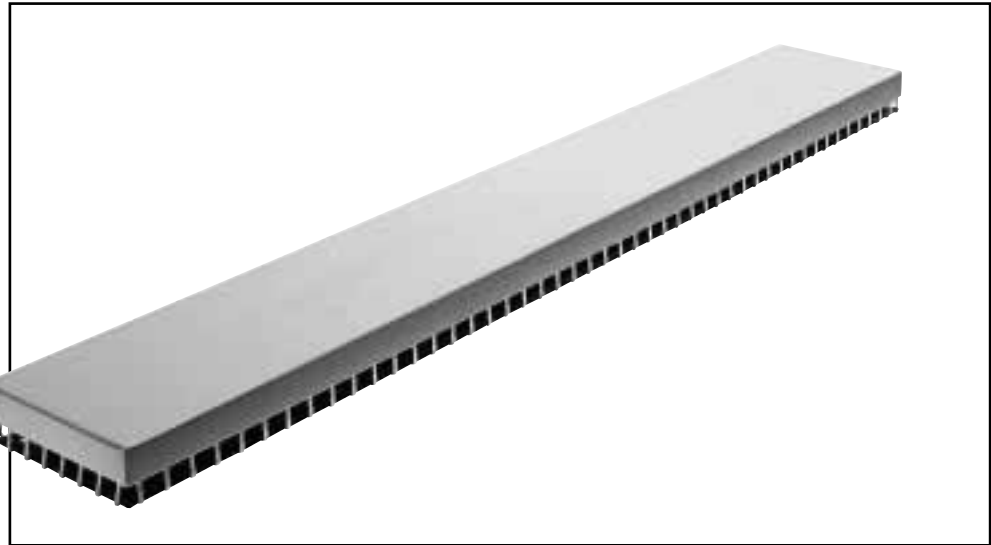


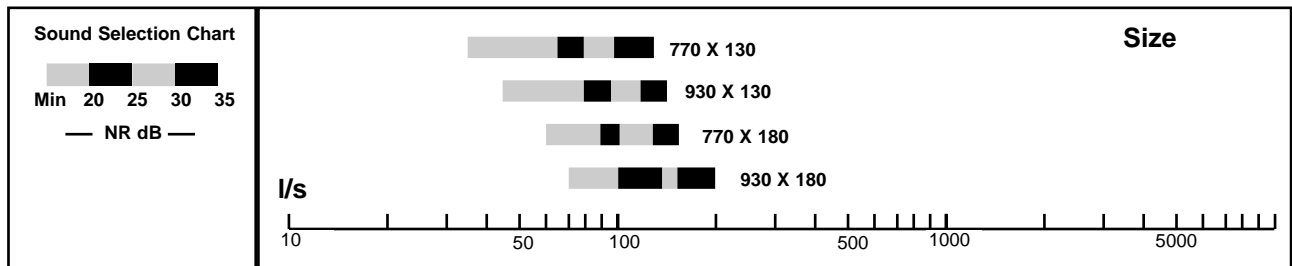


ACOUSTIC TRANSFER GRILLE

1.51
ATJ



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 face sizes of the grille, see overleaf)

Example: If your requirement is for a 31" x 7" (770 x 180) acoustic transfer grille, the ordering code would be **ATJ3107**. {When ordering it is not necessary to include the periods [..]}

Product Size Numbers											
"Type"	"X" Size	"Y" Size								Colour	
		05 (130)	07 (180)								
ATJ	31 (770)										Powder coat white
	37 (930)										
											Special colours

Note! Shaded areas indicate standard product.

1.51

ATJ

ACOUSTIC TRANSFER GRILLE



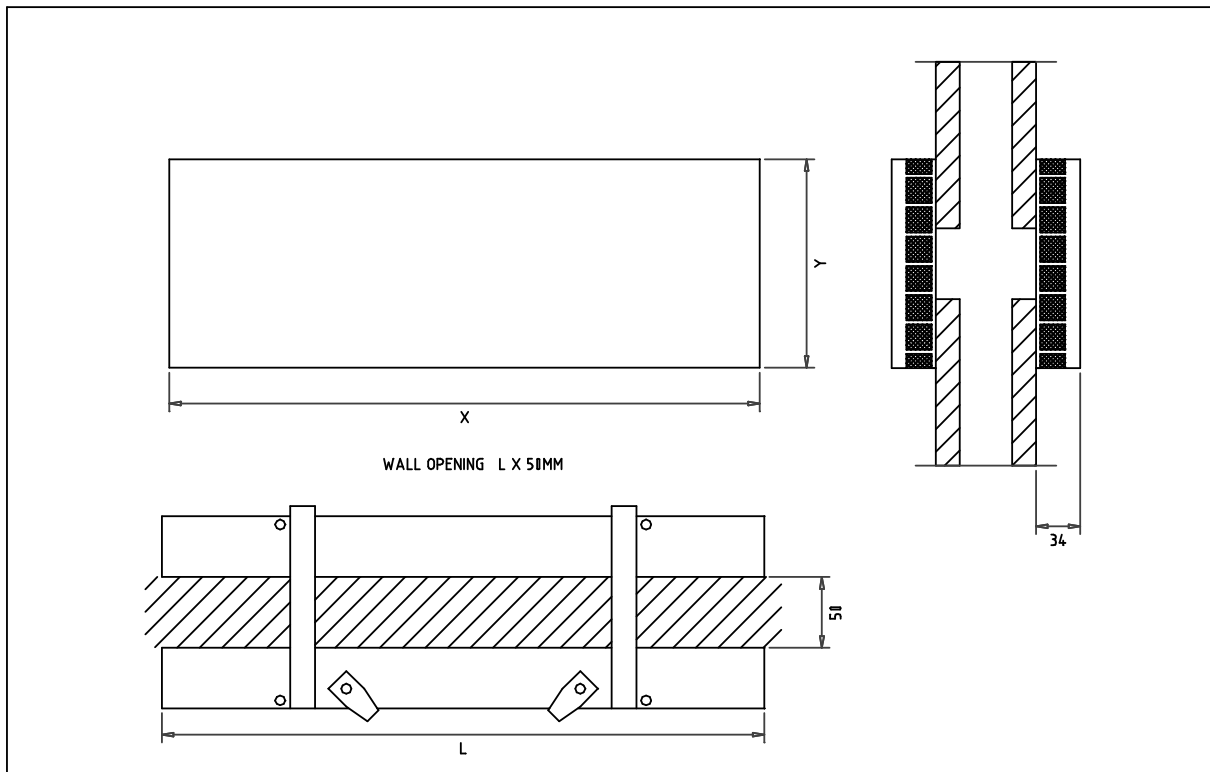
Description

The 1.51 (ATJ) grille is a rectangular air transfer device for mounting directly on walls. The grille is double sided and identical both sides. The construction allows a very small sound transmission area in relation to the air flow. This results in negligible deterioration of the wall's original sound reduction factor. The grille may be used regardless of the wall thickness

Finish

Standard finish is white electrostatic powdercoat. 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



Size	X	Y	L	S ₁	kg
A	770	130	700	0.0350	3.0
B	930	130	800	0.0430	3.6
C	770	180	700	0.0400	3.2
D	930	180	800	0.0500	3.8

Net reduction loss (S₁ = transmission area)



ACOUSTIC TRANSFER GRILLE

1.51
ATJ

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:

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

Size	Frequency (cycles per second)						
	125	250	500	1000	2000	4000	8000
All	+5	+7	+2	-2	-7	-21	-21
Tol +/-	2	2	2	2	2	2	2

Correction factor k_{ok}

Performance graph

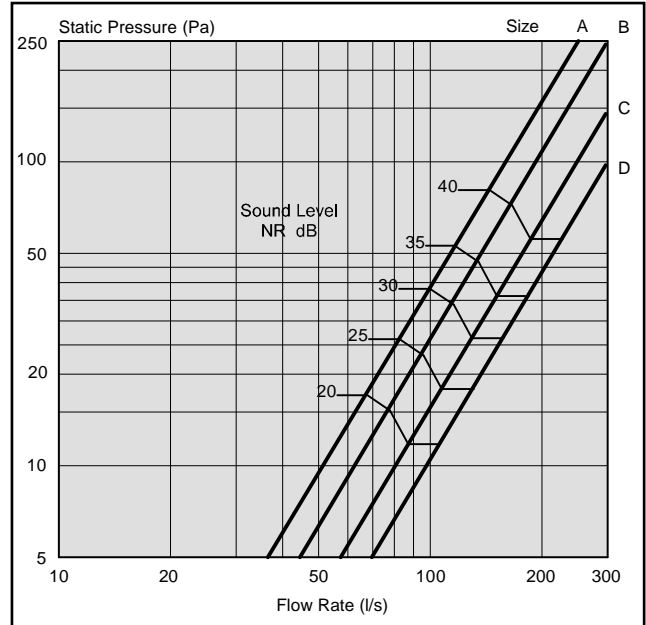


Table 1 shows the reduction factors R_1 and the mean reduction factor R_{1m} relative to the transmission area S_1 of the air transfer grille.

Size	R_1					R_{1m}
	Mid band frequency in Hz					
	125	250	500	1000	2000	
A & C	11	15	22	23	39	22
B & D	11	14	21	23	40	22

Table 2 shows the reduction factors R_2 and the mean reduction factor R_{2m} and the l_a value relative to the transmission area of $2m^2$.

Size	R_1					R_{1m}	l_a
	Mid band frequency in Hz						
	125	250	500	1000	2000		
A & C	11	15	22	23	39	22	37
B & D	11	14	21	23	40	22	35

Sound measurements are carried out in accordance with the ISO-Standard 3741 method 2 and ASHRAE 36-72

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