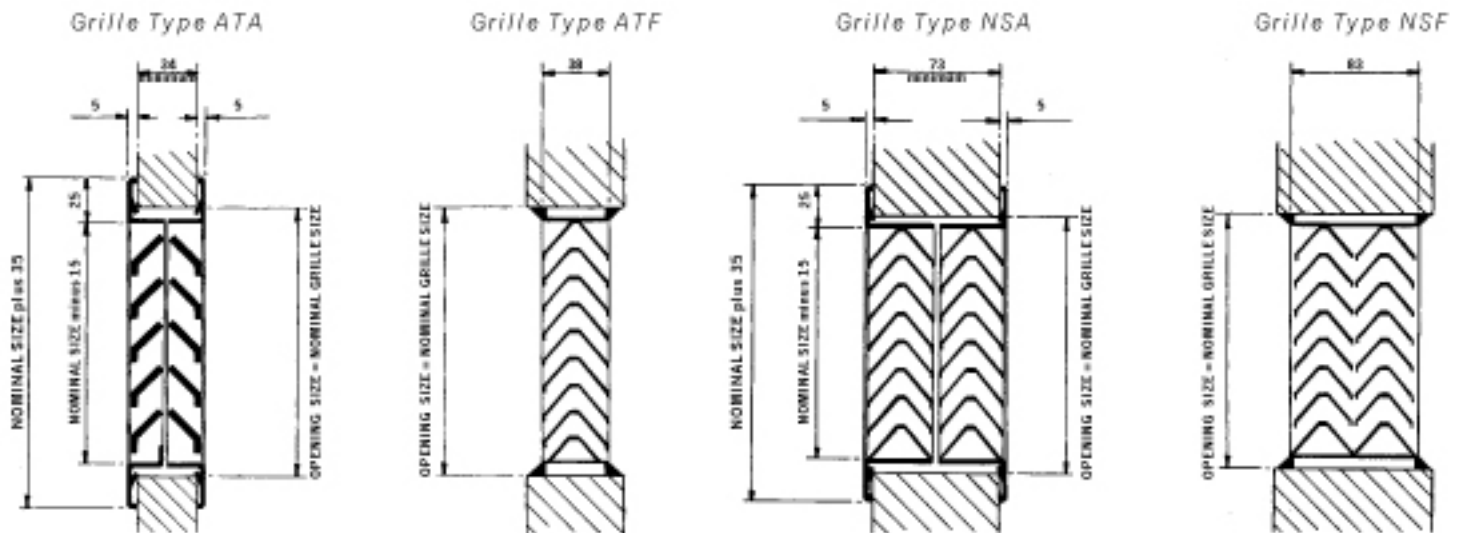


## **Air Transfer Grilles Types ATA ATF NSA and NSF**

**New Street Skelmanthorpe Huddersfield HD8 9BL Telephone 01484 861233 Fax 01484 864928**

All products are manufactured in the UK at the above address



TYPE ATA plastic faced - steel air transfer grille is supplied in two halves each being flange fixed to either side of the opening and each being constructed with fixed louvres at an inclination of 45° at 25mm centres.

Since the two halves are identical the same appearance is given when viewed from either side of the door or opening and the louvres form an inverted V configuration when fitted, ensuring the grille to be vision proof after installation.

The grilles utilise a spot welded zinc coated steel frame polyester powder coated after manufacture onto which self coloured plastic extruded facings are then assembled.

The steel frame gives the grille its strength while the plastic facings covering the front faces being self coloured make the grilles virtually indestructible and being washable without the fear of corrosion, they will retain their original appearance over a long period of time.

TYPE ATF is a fixed width alternative designed for beading fixing within the opening as shown. Manufactured throughout in zinc coated steel and polyester powder coated after manufacture having louvres with an inverted V section and arranged at 18mm centres.

Standard Colours White Black Grey

TYPE NSA is a light proof air transfer grille, each half again flange fixed from either side of the opening, again having the same appearance when viewed from either side, having louvres with an inverted 'V' cross section at 18mm centres.

TYPE NSF being the fixed width alternative, designed for beading fixing within the opening as shown. Both the NSA and NSF are manufactured throughout in zinc coated steel and polyester powder coated after manufacture.

Due to the necessity of light reflection being kept to a minimum, the NSA and NSF are finish coated in matt black, the plastic extruded self coloured flange facing of the NSA can however be in white, black or grey.

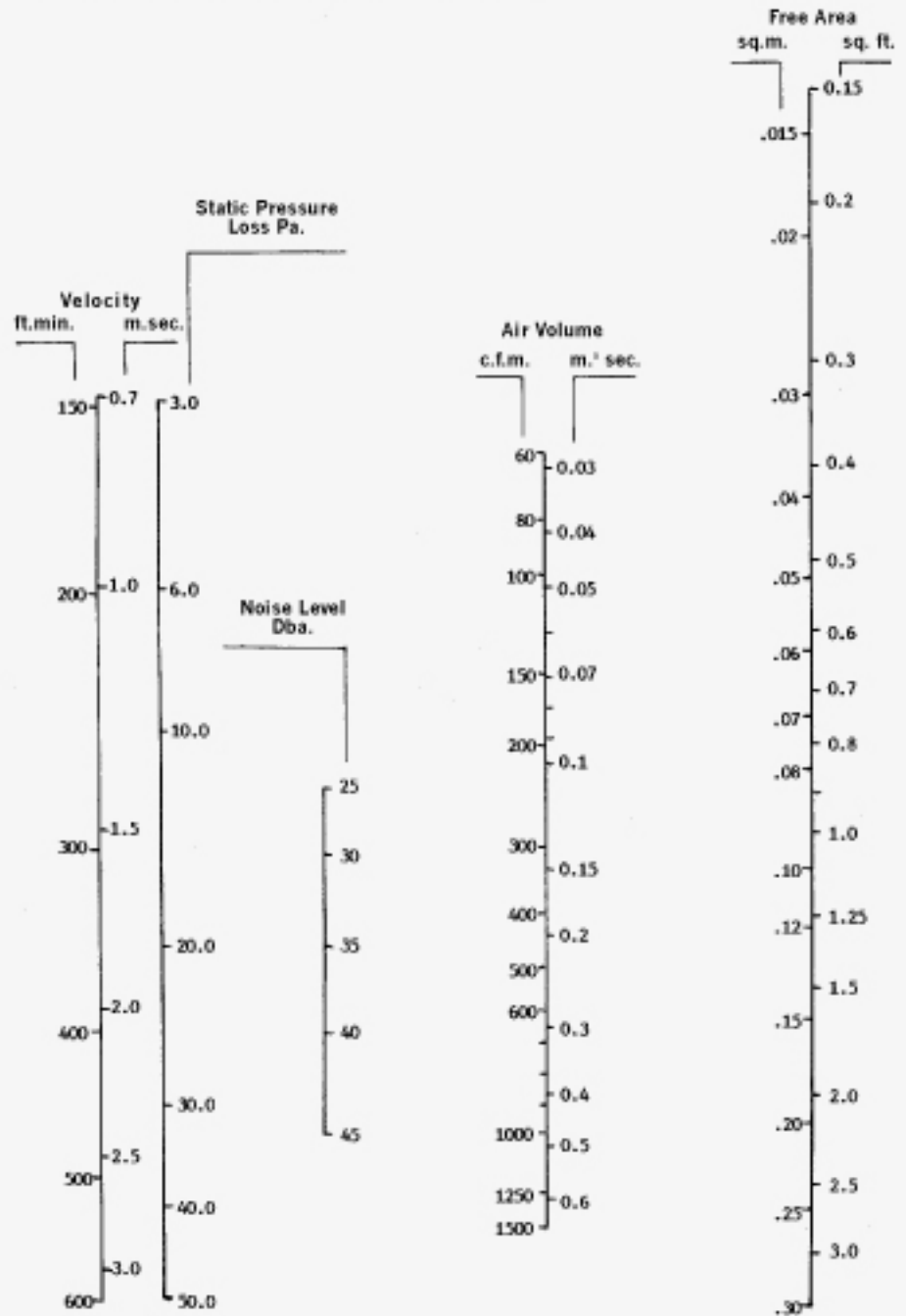
#### SIZES

All four types ATA, ATF, NSA, and NSF are produced in standard sizes of 50mm increments from an opening size of 150 x 150mm up to a maximum size of 600 x 600mm.

When specifying a grille size the length dimension must be stated first, i.e. Length x Height, thereby ensuring that the louvres will be horizontal when the grille is fitted.

All grille types can be produced in any intermediate size of the 50mm increment on both length and height D

## PERFORMANCE DATA

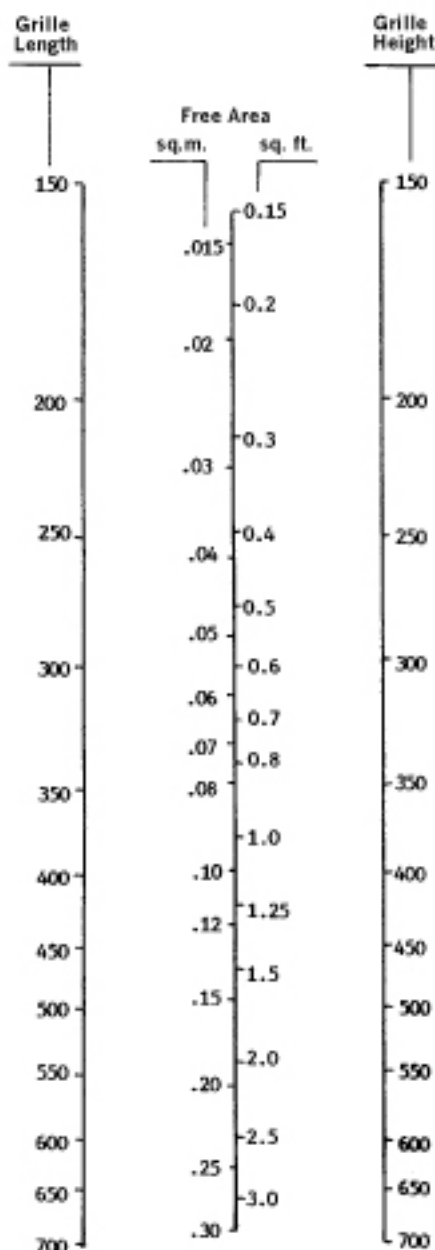


Assuming the Air Volume and Face Velocity required are the known factors. From the above nomogram, place a rule intersecting these values and the Grille Free Area can be determined.

## SIZE SELECTION

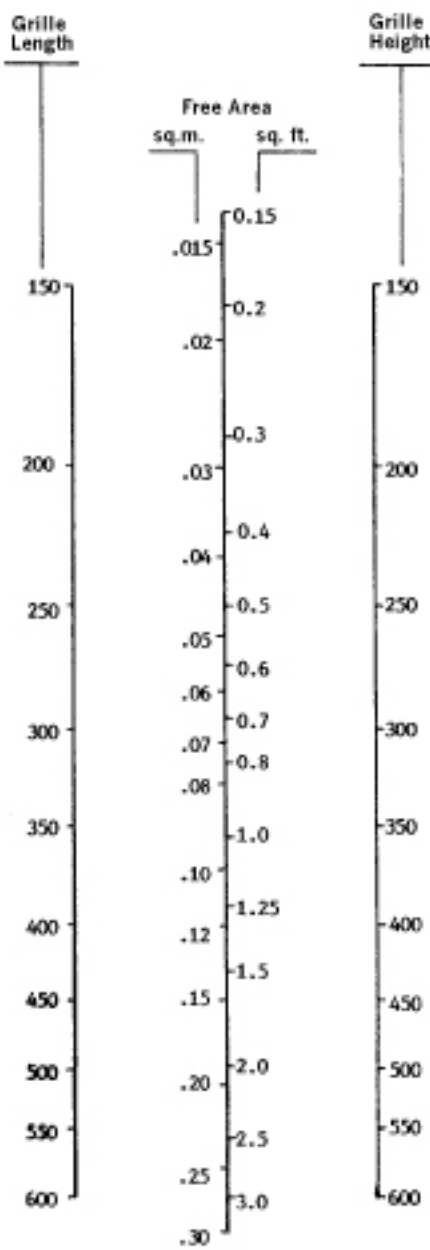
### Grille Type ATA

AVERAGE FREE AREA 62%



### Grille Types ATF NSA NSF

AVERAGE FREE AREA 76%



Having determined the grille Free Area required from the Performance Data nomogram, the grille size can now be found from the above nomograms.

Place a rule on the Free Area value on the appropriate nomogram and pivot the rule on this value, then suitable length and height dimensions for the grille can be obtained.