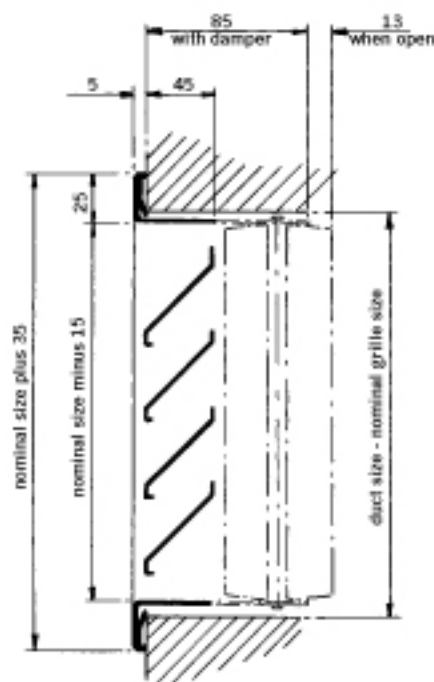


Internal Louvres Types ILI and ILP

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

All products are manufactured in the UK at the above address

Grille Type ILI [with damper ILI/EF]



Type ILI Internal Air Intake Louvres utilise a single set of horizontal fixed louvres arranged with an inclination of 45o at 40mm centres. When placed below eye level the louvres become sight proof.

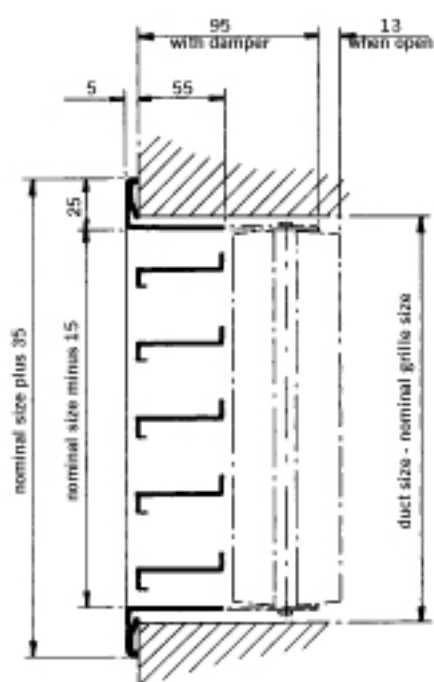
Type ILP is of similar construction again using fixed louvres at the same 40mm centres but with the louvres arranged on a parallel plane.

Both types of louvre consisting of a casing and louvres manufactured from zinc coated steel all being polyester powder coated and a self coloured plastic extruded flange facing fitted over the steel flange to become a fixed part of the casing.

Since the louvers and centres of the internal air intake louvres are of more generous proportions than the normal return air grille, they tend to be of more attractive appearance in larger sizes.

Since they also offer a relatively high 'free area', they are ideal for applications where large volumes of air are to be extracted such as intakes to air handling units etc.

Grille Type ILP [with damper ILP/EF]



Both types are produced in standard sizes of 50mm size increments from 300 x 300 up to and including 1200 x 1200 without volume control dampers, but should volume control dampers be required this limits the maximum size to 1200 x 600. They can also be manufactured to a length of up to 2000 mm, mullions being provided to limit the span of louvres to a max. of 1200 mm.

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

Both louvre types can be produced in any intermediate size of 50mm increment on both length and height.

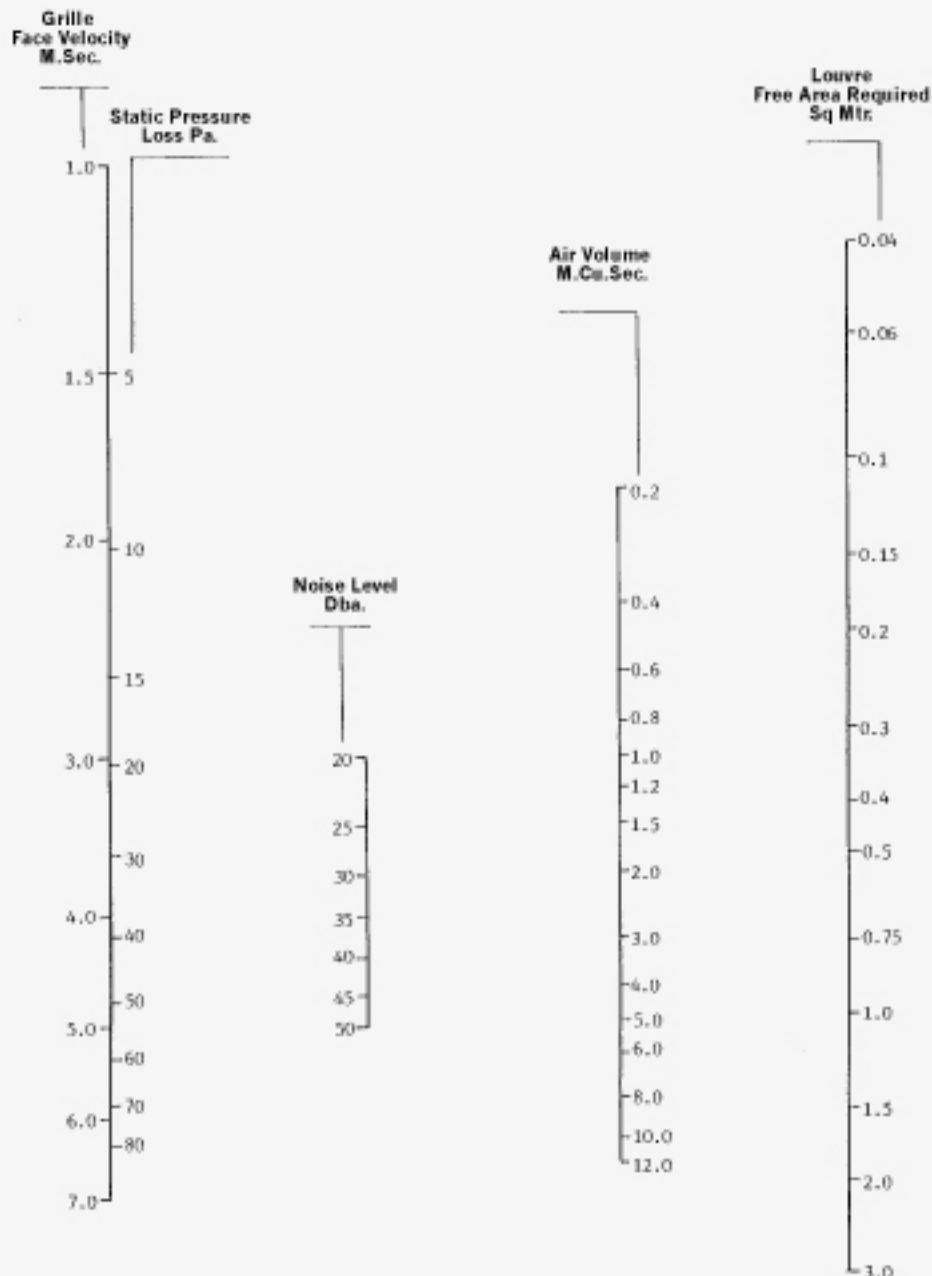
Volume control dampers can be fitted behind each of the louvres, but as mentioned above this would limit the size to a maximum of 600 high.

Should dampers be required 'EF' should be added to the louvre designation chosen, i.e. Type ILI louvre would become ILI/EF when fitted with a damper.

Standard Colours White Grey Cream Black.

Both types of louvre can be treated for use in corrosion causing atmospheres, the zinc coated louvres and casing are polyester powder coated as standard, the damper unit (if fitted) similarly treated with all moving parts manufactured in stainless steel. For ultimate protection, both types can be manufactured in stainless steel, either supplied in a dull polished finish or polyester powder coated as above.

PERFORMANCE DATA



Assuming that the Air Volume and the approximate louvre Face Velocity are the known factors for the louvre in question, then from the above nomogram, place a rule intersecting these values and the 'Free Area' of the louvre required to fulfill those conditions can be read off.

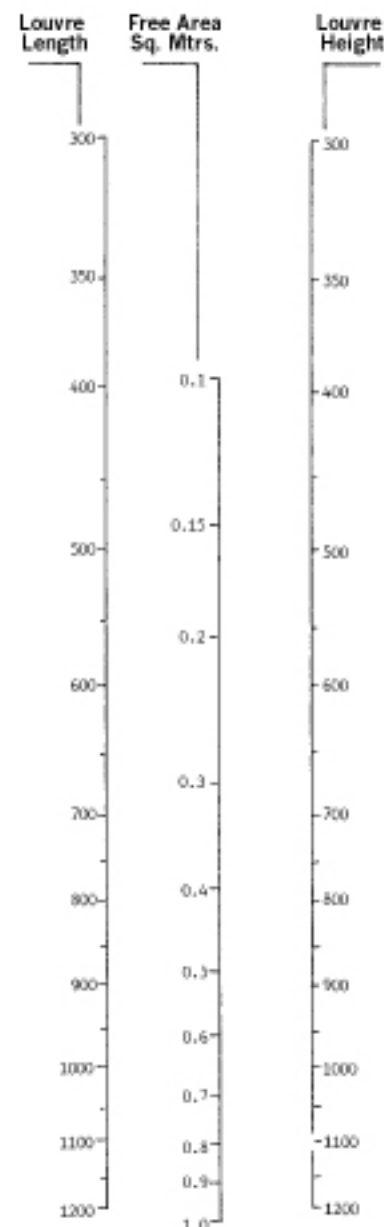
Having determined the 'Free Area' it is necessary that the type of louvre is known before this can be converted into its respective length and height dimensions.

Reference should be made to sizing nomogram overleaf for the appropriate louvre type selected.

SIZE SELECTION

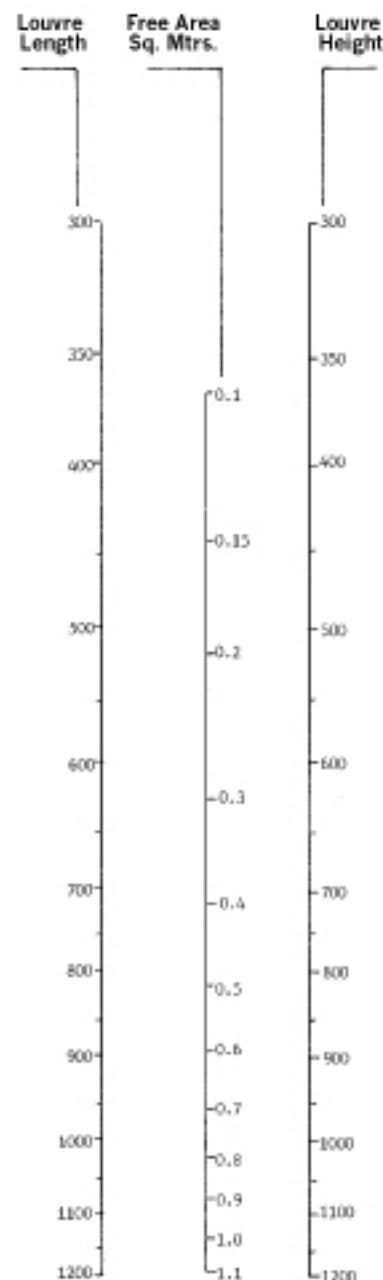
Louvre Type ILI & ILI/EF

AVERAGE FREE AREA 68%



Louvre Types ILP & ILP/EF

AVERAGE FREE AREA 78%



Having determined the Free Area of the louvre to fulfill the conditions of volume and velocity from the louvre selection nomogram, this can be converted into its respective length and height dimensions by referring to the appropriate nomogram above.

The same Free Area value should be selected and by placing a rule so as to intersect this value and pivoting it about this point, a suitable louvre length and height dimension can be read off.